APPENDIX C

TestAmerica Laboratory Analytical Reports

ANALYTICAL REPORT

Job Number: 490-39235-1

Job Description: Former Leeds Assembly Plant

For:
Haley & Aldrich, Inc.
11020 King Street
Suite 450
Overland Park, KS 66210

Attention: Mariruth Gruis

Approved for release.
Roxanne Connor
Senior Project Manager
11/14/2013 3:11 PM

Roxanne Connor, Senior Project Manager
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11/14/2013

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Job Narrative
490-39235-1

Comments
No additional comments.

Receipt
The samples were received on 11/1/2013 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.2º C.

Except:

The following sample(s) was received with headspace in the sample vial: GP-10D-GW-001 (490-39235-3), GP-11D-GW-001 (490-39235-4), GP-11D-GW-001 (490-39235-4 MS), GP-11D-GW-001 (490-39235-4 MSD), GP-12A-GW-001 (490-39235-5), GP-6D-GW-001 (490-39235-1), GP-7D-GW-001 (490-39235-2).

GC/MS VOA
Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 120093 exceeded control limits for the following analyte: Trichlorofluoromethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The following sample(s) were collected in properly preserved vials, however, the pH was outside the required criteria when verified by the laboratory: GP-7D-GW-001 (490-39235-2). The sample(s) were not analyzed within the seven day hold time specified for unpreserved samples.

Method(s) 8260B: The following volatile samples were received with headspace in 3 of 3 sample vials which were used for analysis: GP-10D-GW-001 (490-39235-3), GP-11D-GW-001 (490-39235-4 MS), GP-11D-GW-001 (490-39235-4 MSD), GP-6D-GW-001 (490-39235-1), GP-7D-GW-001 (490-39235-2).

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 120479 exceeded control limits for the following analyte: Trichloroethene. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 120479.

No other analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Instrument ID: HP45 Analysis Batch Number: 113395

Lab Sample ID: STD0005 490-113395/3 IC Client Sample ID:

Date Analyzed: 10/10/13 14:15 Lab File ID: 1010-07.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.22	Poor chromatography	matlockbe	10/11/13 10:45

SAMPLE SUMMARY

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
490-39235-1	GP-6D-GW-001	Water	10/28/2013 1226	11/01/2013 0815
490-39235-2	GP-7D-GW-001	Water	10/28/2013 1107	11/01/2013 0815
490-39235-3	GP-10D-GW-001	Water	10/28/2013 1440	11/01/2013 0815
490-39235-4	GP-11D-GW-001	Water	10/28/2013 1551	11/01/2013 0815
490-39235-4MS	GP-11D-GW-001	Water	10/28/2013 1551	11/01/2013 0815
490-39235-4MSD	GP-11D-GW-001	Water	10/28/2013 1551	11/01/2013 0815
490-39235-5	GP-12A-GW-001	Water	10/29/2013 0947	11/01/2013 0815
490-39235-6	GP-13A-GW-001	Water	10/30/2013 1252	11/01/2013 0815
490-39235-7	GP-13A-GW-002	Water	10/30/2013 1252	11/01/2013 0815
490-39235-8	EB	Water	10/29/2013 1011	11/01/2013 0815
490-39235-9TB	Trip Blank	Water	10/30/2013 0001	11/01/2013 0815

EXECUTIVE SUMMARY - Detections

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-39235-1	**GP-6D-GW-001**					
Vinyl chloride		0.528	J	1.00	ug/L	8260B
490-39235-2	**GP-7D-GW-001**					
Carbon disulfide		0.405	J	1.00	ug/L	8260B
cis-1,2-Dichloroethene		1.09		1.00	ug/L	8260B
Vinyl chloride		31.7		1.00	ug/L	8260B
490-39235-4	**GP-11D-GW-001**					
cis-1,2-Dichloroethene		7.04		1.00	ug/L	8260B
Vinyl chloride		301		5.00	ug/L	8260B
490-39235-5	**GP-12A-GW-001**					
Acetone		72.8		5.00	ug/L	8260B
Carbon disulfide		0.527	J	1.00	ug/L	8260B
cis-1,2-Dichloroethene		2.21		1.00	ug/L	8260B
Vinyl chloride		11.9		1.00	ug/L	8260B
490-39235-6	**GP-13A-GW-001**					
Acetone		22.0		5.00	ug/L	8260B
Carbon disulfide		0.416	J	1.00	ug/L	8260B
490-39235-7	**GP-13A-GW-002**					
Acetone		23.8		5.00	ug/L	8260B
Carbon disulfide		0.332	J	1.00	ug/L	8260B
490-39235-8	**EB**					
Carbon disulfide		0.418	J	1.00	ug/L	8260B

METHOD SUMMARY

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL NSH	SW846 8260B	
Purge and Trap	TAL NSH		SW846 5030B

Lab References:

TAL NSH = TestAmerica Nashville

Method References:

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

METHOD / ANALYST SUMMARY

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Method	Analyst	Analyst ID
SW846 8260B	Matlock, BJ	BJM

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Client Sample ID: **GP-6D-GW-001**

Lab Sample ID: 490-39235-1 Date Sampled: 10/28/2013 1226
Client Matrix: Water Date Received: 11/01/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-120093	Instrument ID:	HP45
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1107-11.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/07/2013 1514			Final Weight/Volume:	5 mL
Prep Date:	11/07/2013 1514				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND		0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	ND		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND		2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00
1,1,2-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Client Sample ID: **GP-6D-GW-001**

Lab Sample ID: 490-39235-1 Date Sampled: 10/28/2013 1226
Client Matrix: Water Date Received: 11/01/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-120093	Instrument ID:	HP45
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1107-11.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/07/2013 1514			Final Weight/Volume:	5 mL
Prep Date:	11/07/2013 1514				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	ND		0.200	1.00
Trichlorofluoromethane	ND	*	0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	0.528	J	0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Client Sample ID: **GP-7D-GW-001**

Lab Sample ID: 490-39235-2 Date Sampled: 10/28/2013 1107
Client Matrix: Water Date Received: 11/01/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-120093	Instrument ID:	HP45
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1107-12.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/07/2013 1541			Final Weight/Volume:	5 mL
Prep Date:	11/07/2013 1541				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	0.405	J	0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND		0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	1.09		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND		2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00
1,1,2-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Client Sample ID: **GP-7D-GW-001**

Lab Sample ID: 490-39235-2 Date Sampled: 10/28/2013 1107
Client Matrix: Water Date Received: 11/01/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-120093	Instrument ID:	HP45
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1107-12.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/07/2013 1541			Final Weight/Volume:	5 mL
Prep Date:	11/07/2013 1541				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	ND		0.200	1.00
Trichlorofluoromethane	ND	*	0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	31.7		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Client Sample ID: **GP-10D-GW-001**

Lab Sample ID: 490-39235-3 Date Sampled: 10/28/2013 1440
Client Matrix: Water Date Received: 11/01/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-120093	Instrument ID:	HP45
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1107-13.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/07/2013 1608			Final Weight/Volume:	5 mL
Prep Date:	11/07/2013 1608				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND		0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	ND		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND		2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00
1,1,2-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Client Sample ID: **GP-10D-GW-001**

Lab Sample ID: 490-39235-3 Date Sampled: 10/28/2013 1440
Client Matrix: Water Date Received: 11/01/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-120093	Instrument ID:	HP45
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1107-13.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/07/2013 1608			Final Weight/Volume:	5 mL
Prep Date:	11/07/2013 1608				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	ND		0.200	1.00
Trichlorofluoromethane	ND	*	0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	ND		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Client Sample ID: **GP-11D-GW-001**

Lab Sample ID: 490-39235-4 Date Sampled: 10/28/2013 1551
Client Matrix: Water Date Received: 11/01/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-120093	Instrument ID:	HP45
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1107-14.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/07/2013 1636			Final Weight/Volume:	5 mL
Prep Date:	11/07/2013 1636				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND		0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	7.04		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND		2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00
1,1,2-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Client Sample ID: **GP-11D-GW-001**

Lab Sample ID: 490-39235-4 Date Sampled: 10/28/2013 1551
Client Matrix: Water Date Received: 11/01/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-120093	Instrument ID:	HP45
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1107-14.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/07/2013 1636			Final Weight/Volume:	5 mL
Prep Date:	11/07/2013 1636				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	ND		0.200	1.00
Trichlorofluoromethane	ND	*	0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Client Sample ID: **GP-11D-GW-001**

Lab Sample ID: 490-39235-4 Date Sampled: 10/28/2013 1551
Client Matrix: Water Date Received: 11/01/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-120479	Instrument ID:	HP45
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1108-36.D
Dilution:	5.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/09/2013 2348			Final Weight/Volume:	5 mL
Prep Date:	11/09/2013 2348				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	301		0.900	5.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	95		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Client Sample ID: **GP-12A-GW-001**

Lab Sample ID: 490-39235-5 Date Sampled: 10/29/2013 0947
Client Matrix: Water Date Received: 11/01/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-120479	Instrument ID:	HP45
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1108-35.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/09/2013 2321			Final Weight/Volume:	5 mL
Prep Date:	11/09/2013 2321				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	72.8		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	0.527	J	0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND		0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	2.21		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND		2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00
1,1,2-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Client Sample ID: **GP-12A-GW-001**

Lab Sample ID: 490-39235-5 Date Sampled: 10/29/2013 0947
Client Matrix: Water Date Received: 11/01/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-120479	Instrument ID:	HP45
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1108-35.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/09/2013 2321			Final Weight/Volume:	5 mL
Prep Date:	11/09/2013 2321				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	ND	*	0.200	1.00
Trichlorofluoromethane	ND		0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	11.9		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Client Sample ID: **GP-13A-GW-001**

Lab Sample ID: 490-39235-6 Date Sampled: 10/30/2013 1252
Client Matrix: Water Date Received: 11/01/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-120093	Instrument ID:	HP45
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1107-16.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/07/2013 1730			Final Weight/Volume:	5 mL
Prep Date:	11/07/2013 1730				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	22.0		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	0.416	J	0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND		0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	ND		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND		2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00
1,1,2-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Client Sample ID: **GP-13A-GW-001**

Lab Sample ID: 490-39235-6 Date Sampled: 10/30/2013 1252
Client Matrix: Water Date Received: 11/01/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-120093	Instrument ID:	HP45
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1107-16.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/07/2013 1730			Final Weight/Volume:	5 mL
Prep Date:	11/07/2013 1730				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	ND		0.200	1.00
Trichlorofluoromethane	ND	*	0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	ND		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Client Sample ID: **GP-13A-GW-002**

Lab Sample ID: 490-39235-7 Date Sampled: 10/30/2013 1252
Client Matrix: Water Date Received: 11/01/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-120093	Instrument ID:	HP45
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1107-17.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/07/2013 1757			Final Weight/Volume:	5 mL
Prep Date:	11/07/2013 1757				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	23.8		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	0.332	J	0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND		0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	ND		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND		2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00
1,1,2-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Client Sample ID: **GP-13A-GW-002**

Lab Sample ID: 490-39235-7 Date Sampled: 10/30/2013 1252
Client Matrix: Water Date Received: 11/01/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-120093	Instrument ID:	HP45
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1107-17.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/07/2013 1757			Final Weight/Volume:	5 mL
Prep Date:	11/07/2013 1757				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	ND		0.200	1.00
Trichlorofluoromethane	ND	*	0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	ND		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Client Sample ID: **EB**

Lab Sample ID: 490-39235-8 Date Sampled: 10/29/2013 1011
Client Matrix: Water Date Received: 11/01/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-120093	Instrument ID:	HP45
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1107-10.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/07/2013 1446			Final Weight/Volume:	5 mL
Prep Date:	11/07/2013 1446				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	0.418	J	0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND		0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	ND		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND		2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00
1,1,2-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Client Sample ID: **EB**

Lab Sample ID: 490-39235-8 Date Sampled: 10/29/2013 1011
Client Matrix: Water Date Received: 11/01/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-120093	Instrument ID:	HP45
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1107-10.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/07/2013 1446			Final Weight/Volume:	5 mL
Prep Date:	11/07/2013 1446				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	ND		0.200	1.00
Trichlorofluoromethane	ND	*	0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	ND		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Client Sample ID: **Trip Blank**

Lab Sample ID: 490-39235-9TB Date Sampled: 10/30/2013 0001
Client Matrix: Water Date Received: 11/01/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-120093	Instrument ID:	HP45
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1107-09.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/07/2013 1419			Final Weight/Volume:	5 mL
Prep Date:	11/07/2013 1419				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND		0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	ND		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND		2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00
1,1,2-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Client Sample ID: **Trip Blank**

Lab Sample ID: 490-39235-9TB Date Sampled: 10/30/2013 0001
Client Matrix: Water Date Received: 11/01/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-120093	Instrument ID:	HP45
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1107-09.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/07/2013 1419			Final Weight/Volume:	5 mL
Prep Date:	11/07/2013 1419				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	ND		0.200	1.00
Trichlorofluoromethane	ND	*	0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	ND		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
490-39235-1	GP-6D-GW-001	100	101	96	92
490-39235-2	GP-7D-GW-001	100	100	96	92
490-39235-3	GP-10D-GW-001	100	99	97	92
490-39235-4	GP-11D-GW-001	99	100	97	92
490-39235-4	GP-11D-GW-001	100	99	95	92
490-39235-5	GP-12A-GW-001	100	98	96	92
490-39235-6	GP-13A-GW-001	101	99	96	91
490-39235-7	GP-13A-GW-002	100	101	96	92
490-39235-8	EB	99	99	97	94
490-39235-9	Trip Blank	100	100	97	94
MB 490-120093/6		99	99	96	95
MB 490-120479/6		101	99	96	93
LCS 490-120093/3		97	97	94	96
LCS 490-120479/3		98	95	93	93
LCSD 490-120093/4		97	96	94	96
LCSD 490-120479/4		98	95	93	93
490-39235-4 MS	GP-11D-GW-001 MS	98	96	95	93
490-39235-4 MSD	GP-11D-GW-001 MSD	98	97	95	93

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Method Blank - Batch: 490-120093

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-120093/6	Analysis Batch:	490-120093	Instrument ID:	HP45
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1107-06.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/07/2013 1242	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/07/2013 1242				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND		0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	ND		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND		2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Method Blank - Batch: 490-120093

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-120093/6	Analysis Batch:	490-120093	Instrument ID:	HP45
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1107-06.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/07/2013 1242	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/07/2013 1242				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,2-Trichloroethane	ND		0.190	1.00
Trichloroethene	ND		0.200	1.00
Trichlorofluoromethane	ND		0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	ND		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	95	70 - 130
Dibromofluoromethane (Surr)	99	70 - 130
1,2-Dichloroethane-d4 (Surr)	99	70 - 130
Toluene-d8 (Surr)	96	70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-120093

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-120093/3	Analysis Batch:	490-120093	Instrument ID:	HP45
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1107-03.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/07/2013 1120	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/07/2013 1120				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-120093/4	Analysis Batch:	490-120093	Instrument ID:	HP45
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1107-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/07/2013 1147	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/07/2013 1147				
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	122	121	54 - 145	1	21		
Benzene	101	102	80 - 121	0	17		
Bromochloromethane	102	106	78 - 129	4	17		
Bromodichloromethane	103	105	75 - 129	2	18		
Bromoform	106	106	46 - 145	0	16		
Bromomethane	65	84	41 - 150	25	50		
2-Butanone (MEK)	115	120	62 - 133	5	19		
Carbon disulfide	104	103	77 - 126	1	21		
Carbon tetrachloride	103	103	64 - 147	0	19		
Chlorobenzene	102	102	80 - 120	0	14		
Chlorodibromomethane	107	108	69 - 133	0	15		
Chloroethane	107	106	72 - 120	1	20		
Chloroform	96	96	73 - 129	0	18		
Chloromethane	100	98	12 - 150	2	31		
cis-1,2-Dichloroethene	91	91	76 - 125	1	17		
cis-1,3-Dichloropropene	100	101	74 - 140	1	15		
Cyclohexane	98	97	73 - 122	1	16		
1,2-Dibromo-3-Chloropropane	105	103	54 - 125	2	24		
1,2-Dibromoethane (EDB)	110	111	80 - 129	2	15		
1,2-Dichlorobenzene	106	108	80 - 121	1	15		
1,3-Dichlorobenzene	107	107	80 - 122	1	15		
1,4-Dichlorobenzene	105	104	80 - 120	1	15		
Dichlorodifluoromethane	116	114	37 - 127	2	18		
1,1-Dichloroethane	96	96	78 - 125	0	17		
1,2-Dichloroethane	103	104	77 - 121	1	17		
1,1-Dichloroethene	117	116	79 - 124	0	17		
1,2-Dichloropropane	97	96	75 - 120	1	17		
Ethylbenzene	97	98	80 - 130	1	15		
2-Hexanone	104	105	60 - 142	1	15		
Isopropylbenzene	104	104	80 - 141	0	16		
Methyl acetate	85	85	64 - 150	0	31		
Methylcyclohexane	123	122	71 - 129	1	19		
Methylene Chloride	108	107	79 - 123	1	17		
4-Methyl-2-pentanone (MIBK)	104	106	60 - 137	2	17		
Methyl tert-butyl ether	99	100	72 - 133	1	16		
N-Propylbenzene	103	102	75 - 129	1	17		

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-120093

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-120093/3	Analysis Batch:	490-120093	Instrument ID:	HP45
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1107-03.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/07/2013 1120	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/07/2013 1120				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-120093/4	Analysis Batch:	490-120093	Instrument ID:	HP45
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1107-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/07/2013 1147	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/07/2013 1147				
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Styrene	99	98	80 - 127	0	24		
1,1,2,2-Tetrachloroethane	113	113	69 - 131	0	20		
Tetrachloroethene	108	107	80 - 126	1	16		
Tetrahydrofuran	88	91	51 - 124	3	18		
Toluene	96	96	80 - 126	0	15		
trans-1,2-Dichloroethene	97	97	79 - 126	1	16		
trans-1,3-Dichloropropene	103	103	63 - 134	0	14		
1,2,4-Trichlorobenzene	107	106	63 - 133	1	19		
1,1,1-Trichloroethane	105	105	78 - 135	0	17		
1,1,2-Trichloroethane	109	111	80 - 124	1	15		
Trichloroethene	110	111	80 - 123	0	17		
Trichlorofluoromethane	128	123	65 - 124	3	18	*	
1,1,2-Trichloro-1,2,2-trichfluoroethane	121	118	77 - 129	3	18		
Vinyl chloride	110	108	68 - 120	1	17		
Xylenes, Total	97	96	80 - 132	0	15		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	96	96	70 - 130
Dibromofluoromethane (Surr)	97	97	70 - 130
1,2-Dichloroethane-d4 (Surr)	97	96	70 - 130
Toluene-d8 (Surr)	94	94	70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 490-120093

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-120093/3	Units: ug/L		LCSD Lab Sample ID:	LCSD 490-120093/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/07/2013 1120			Analysis Date:	11/07/2013 1147
Prep Date:	11/07/2013 1120			Prep Date:	11/07/2013 1147
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Acetone	250	250	304.7	302.9
Benzene	50.0	50.0	50.68	50.88
Bromochloromethane	50.0	50.0	51.11	53.11
Bromodichloromethane	50.0	50.0	51.44	52.55
Bromoform	50.0	50.0	52.89	52.92
Bromomethane	50.0	50.0	32.56	41.83
2-Butanone (MEK)	250	250	286.5	300.9
Carbon disulfide	50.0	50.0	52.10	51.52
Carbon tetrachloride	50.0	50.0	51.71	51.59
Chlorobenzene	50.0	50.0	51.04	51.10
Chlorodibromomethane	50.0	50.0	53.51	53.75
Chloroethane	50.0	50.0	53.50	52.99
Chloroform	50.0	50.0	48.10	48.04
Chloromethane	50.0	50.0	49.78	48.83
cis-1,2-Dichloroethene	50.0	50.0	45.61	45.34
cis-1,3-Dichloropropene	50.0	50.0	50.08	50.46
Cyclohexane	50.0	50.0	49.24	48.66
1,2-Dibromo-3-Chloropropane	50.0	50.0	52.51	51.72
1,2-Dibromoethane (EDB)	50.0	50.0	54.85	55.69
1,2-Dichlorobenzene	50.0	50.0	53.19	53.76
1,3-Dichlorobenzene	50.0	50.0	53.67	53.25
1,4-Dichlorobenzene	50.0	50.0	52.29	51.93
Dichlorodifluoromethane	50.0	50.0	58.20	56.92
1,1-Dichloroethane	50.0	50.0	47.76	47.89
1,2-Dichloroethane	50.0	50.0	51.32	51.75
1,1-Dichloroethene	50.0	50.0	58.49	58.21
1,2-Dichloropropane	50.0	50.0	48.39	48.10
Ethylbenzene	50.0	50.0	48.64	49.06
2-Hexanone	250	250	259.1	261.5
Isopropylbenzene	50.0	50.0	51.99	51.77
Methyl acetate	250	250	212.5	213.4
Methylcyclohexane	50.0	50.0	61.64	60.87
Methylene Chloride	50.0	50.0	53.78	53.42
4-Methyl-2-pentanone (MIBK)	250	250	259.2	263.8
Methyl tert-butyl ether	50.0	50.0	49.65	49.94
N-Propylbenzene	50.0	50.0	51.39	51.13
Styrene	50.0	50.0	49.35	49.20
1,1,2,2-Tetrachloroethane	50.0	50.0	56.38	56.38
Tetrachloroethene	50.0	50.0	54.10	53.43

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 490-120093

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-120093/3	Units: ug/L		LCSD Lab Sample ID:	LCSD 490-120093/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/07/2013 1120			Analysis Date:	11/07/2013 1147
Prep Date:	11/07/2013 1120			Prep Date:	11/07/2013 1147
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual
Tetrahydrofuran	100	100	87.92		90.83
Toluene	50.0	50.0	47.92		47.98
trans-1,2-Dichloroethene	50.0	50.0	48.70		48.44
trans-1,3-Dichloropropene	50.0	50.0	51.75		51.62
1,2,4-Trichlorobenzene	50.0	50.0	53.31		52.86
1,1,1-Trichloroethane	50.0	50.0	52.66		52.47
1,1,2-Trichloroethane	50.0	50.0	54.62		55.31
Trichloroethene	50.0	50.0	55.13		55.32
Trichlorofluoromethane	50.0	50.0	63.83	*	61.71
1,1,2-Trichloro-1,2,2-trichfluoroethane	50.0	50.0	60.69		59.14
Vinyl chloride	50.0	50.0	54.91		54.20
Xylenes, Total	100	100	96.78		96.47

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-120093

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-39235-4	Analysis Batch:	490-120093	Instrument ID:	HP45
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1107-26.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/07/2013 2203			Final Weight/Volume:	5 mL
Prep Date:	11/07/2013 2203				
Leach Date:	N/A				

MSD Lab Sample ID:	490-39235-4	Analysis Batch:	490-120093	Instrument ID:	HP45
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1107-27.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/07/2013 2231			Final Weight/Volume:	5 mL
Prep Date:	11/07/2013 2231				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	109	120	45 - 141	9	21		
Benzene	105	111	75 - 133	5	17		
Bromochloromethane	113	115	67 - 139	2	17		
Bromodichloromethane	103	111	70 - 140	7	18		
Bromoform	101	108	42 - 147	6	16		
Bromomethane	59	80	16 - 163	32	50		
2-Butanone (MEK)	122	126	50 - 138	3	19		
Carbon disulfide	106	112	48 - 152	5	21		
Carbon tetrachloride	102	108	62 - 164	6	19		
Chlorobenzene	106	111	80 - 129	5	14		
Chlorodibromomethane	106	112	66 - 140	6	15		
Chloroethane	105	111	58 - 137	6	20		
Chloroform	101	105	66 - 138	4	18		
Chloromethane	96	101	10 - 169	5	31		
cis-1,2-Dichloroethene	93	98	68 - 138	4	17		
cis-1,3-Dichloropropene	99	105	71 - 141	5	15		
Cyclohexane	100	104	58 - 144	4	16		
1,2-Dibromo-3-Chloropropane	104	109	52 - 126	4	24		
1,2-Dibromoethane (EDB)	113	118	75 - 137	5	15		
1,2-Dichlorobenzene	108	114	79 - 128	5	15		
1,3-Dichlorobenzene	108	113	77 - 131	5	15		
1,4-Dichlorobenzene	106	111	78 - 126	4	15		
Dichlorodifluoromethane	102	107	40 - 127	5	18		
1,1-Dichloroethane	98	104	71 - 139	6	17		
1,2-Dichloroethane	103	111	64 - 136	7	17		
1,1-Dichloroethene	120	127	70 - 142	6	17		
1,2-Dichloropropane	97	102	67 - 131	6	17		
Ethylbenzene	101	105	79 - 139	5	15		
2-Hexanone	105	110	50 - 150	4	15		
Isopropylbenzene	106	112	80 - 153	6	16		
Methyl acetate	86	90	30 - 165	4	31		
Methylcyclohexane	125	132	59 - 151	6	19		
Methylene Chloride	110	116	64 - 139	5	17		

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-120093

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-39235-4	Analysis Batch:	490-120093	Instrument ID:	HP45
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1107-26.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/07/2013 2203			Final Weight/Volume:	5 mL
Prep Date:	11/07/2013 2203				
Leach Date:	N/A				

MSD Lab Sample ID:	490-39235-4	Analysis Batch:	490-120093	Instrument ID:	HP45
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1107-27.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/07/2013 2231			Final Weight/Volume:	5 mL
Prep Date:	11/07/2013 2231				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
4-Methyl-2-pentanone (MIBK)	108	113	50 - 147	4	17		
Methyl tert-butyl ether	98	103	66 - 141	5	16		
N-Propylbenzene	103	108	69 - 142	5	17		
Styrene	101	105	61 - 148	4	24		
1,1,2,2-Tetrachloroethane	112	120	56 - 143	7	20		
Tetrachloroethene	113	119	72 - 145	5	16		
Tetrahydrofuran	93	95	34 - 133	2	18		
Toluene	100	105	75 - 136	5	15		
trans-1,2-Dichloroethene	102	106	66 - 143	4	16		
trans-1,3-Dichloropropene	100	106	59 - 135	5	14		
1,2,4-Trichlorobenzene	104	109	60 - 136	4	19		
1,1,1-Trichloroethane	108	113	76 - 149	4	17		
1,1,2-Trichloroethane	113	117	74 - 134	4	15		
Trichloroethene	114	120	73 - 144	5	17		
Trichlorofluoromethane	129	131	58 - 139	2	18		
1,1,2-Trichloro-1,2,2-trichfluoroethane	129	131	72 - 148	2	18		
Vinyl chloride	84	94	56 - 129	1	17	E 4	E 4
Xylenes, Total	99	104	74 - 141	5	15		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	93	93	70 - 130
Dibromofluoromethane (Surr)	98	98	70 - 130
1,2-Dichloroethane-d4 (Surr)	96	97	70 - 130
Toluene-d8 (Surr)	95	95	70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-120093

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-39235-4	Units: ug/L	MSD Lab Sample ID:	490-39235-4	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/07/2013 2203		Analysis Date:	11/07/2013 2231	
Prep Date:	11/07/2013 2203		Prep Date:	11/07/2013 2231	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Acetone	ND	250	250	273.1	299.3
Benzene	ND	50.0	50.0	52.62	55.40
Bromochloromethane	ND	50.0	50.0	56.52	57.66
Bromodichloromethane	ND	50.0	50.0	51.51	55.48
Bromoform	ND	50.0	50.0	50.65	53.77
Bromomethane	ND	50.0	50.0	29.27	40.23
2-Butanone (MEK)	ND	250	250	305.5	314.6
Carbon disulfide	ND	50.0	50.0	52.81	55.79
Carbon tetrachloride	ND	50.0	50.0	51.03	54.09
Chlorobenzene	ND	50.0	50.0	53.14	55.72
Chlorodibromomethane	ND	50.0	50.0	53.15	56.23
Chloroethane	ND	50.0	50.0	52.33	55.68
Chloroform	ND	50.0	50.0	50.45	52.30
Chloromethane	ND	50.0	50.0	47.92	50.49
cis-1,2-Dichloroethene	7.04	50.0	50.0	53.71	56.12
cis-1,3-Dichloropropene	ND	50.0	50.0	49.60	52.26
Cyclohexane	ND	50.0	50.0	49.80	52.00
1,2-Dibromo-3-Chloropropane	ND	50.0	50.0	52.22	54.43
1,2-Dibromoethane (EDB)	ND	50.0	50.0	56.44	59.20
1,2-Dichlorobenzene	ND	50.0	50.0	53.98	56.76
1,3-Dichlorobenzene	ND	50.0	50.0	54.14	56.71
1,4-Dichlorobenzene	ND	50.0	50.0	53.02	55.45
Dichlorodifluoromethane	ND	50.0	50.0	50.80	53.32
1,1-Dichloroethane	ND	50.0	50.0	48.93	51.80
1,2-Dichloroethane	ND	50.0	50.0	51.40	55.35
1,1-Dichloroethene	ND	50.0	50.0	59.87	63.43
1,2-Dichloropropane	ND	50.0	50.0	48.43	51.21
Ethylbenzene	ND	50.0	50.0	50.42	52.75
2-Hexanone	ND	250	250	263.4	274.6
Isopropylbenzene	ND	50.0	50.0	52.76	55.87
Methyl acetate	ND	250	250	215.1	224.0
Methylcyclohexane	ND	50.0	50.0	62.61	66.21
Methylene Chloride	ND	50.0	50.0	55.23	57.89
4-Methyl-2-pentanone (MIBK)	ND	250	250	271.0	282.2
Methyl tert-butyl ether	ND	50.0	50.0	49.07	51.52
N-Propylbenzene	ND	50.0	50.0	51.44	53.99
Styrene	ND	50.0	50.0	50.38	52.64
1,1,2,2-Tetrachloroethane	ND	50.0	50.0	56.18	59.98
Tetrachloroethene	ND	50.0	50.0	56.73	59.50
Tetrahydrofuran	ND	100	100	92.96	95.07
Toluene	ND	50.0	50.0	49.84	52.52
trans-1,2-Dichloroethene	ND	50.0	50.0	50.97	52.83
trans-1,3-Dichloropropene	ND	50.0	50.0	50.00	52.82

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-120093

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-39235-4	Units: ug/L	MSD Lab Sample ID:	490-39235-4	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/07/2013 2203		Analysis Date:	11/07/2013 2231	
Prep Date:	11/07/2013 2203		Prep Date:	11/07/2013 2231	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
1,2,4-Trichlorobenzene	ND	50.0	50.0	52.02		54.41	
1,1,1-Trichloroethane	ND	50.0	50.0	53.88		56.36	
1,1,2-Trichloroethane	ND	50.0	50.0	56.36		58.72	
Trichloroethene	ND	50.0	50.0	57.24		60.19	
Trichlorofluoromethane	ND	50.0	50.0	64.60		65.65	
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND	50.0	50.0	64.37		65.62	
Vinyl chloride	341	50.0	50.0	382.8	E 4	387.9	E 4
Xylenes, Total	ND	100	100	99.18		104.1	

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Method Blank - Batch: 490-120479

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-120479/6	Analysis Batch:	490-120479	Instrument ID:	HP45
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1108-34.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/09/2013 2253	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/09/2013 2253				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND		0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	ND		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND		2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Method Blank - Batch: 490-120479

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-120479/6	Analysis Batch:	490-120479	Instrument ID:	HP45
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1108-34.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/09/2013 2253	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/09/2013 2253				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,2-Trichloroethane	ND		0.190	1.00
Trichloroethene	ND		0.200	1.00
Trichlorofluoromethane	ND		0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	ND		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	93	70 - 130
Dibromofluoromethane (Surr)	101	70 - 130
1,2-Dichloroethane-d4 (Surr)	99	70 - 130
Toluene-d8 (Surr)	96	70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-120479

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-120479/3	Analysis Batch:	490-120479	Instrument ID:	HP45
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1108-31.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/09/2013 2132	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/09/2013 2132				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-120479/4	Analysis Batch:	490-120479	Instrument ID:	HP45
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1108-32.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/09/2013 2159	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/09/2013 2159				
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	121	118	54 - 145	2	21		
Benzene	103	103	80 - 121	0	17		
Bromochloromethane	112	111	78 - 129	1	17		
Bromodichloromethane	105	105	75 - 129	0	18		
Bromoform	104	103	46 - 145	1	16		
Bromomethane	108	110	41 - 150	2	50		
2-Butanone (MEK)	112	111	62 - 133	0	19		
Carbon disulfide	107	106	77 - 126	1	21		
Carbon tetrachloride	106	107	64 - 147	1	19		
Chlorobenzene	101	101	80 - 120	0	14		
Chlorodibromomethane	106	106	69 - 133	0	15		
Chloroethane	109	109	72 - 120	0	20		
Chloroform	98	99	73 - 129	0	18		
Chloromethane	80	77	12 - 150	3	31		
cis-1,2-Dichloroethene	89	88	76 - 125	1	17		
cis-1,3-Dichloropropene	90	90	74 - 140	0	15		
Cyclohexane	96	97	73 - 122	0	16		
1,2-Dibromo-3-Chloropropane	94	94	54 - 125	0	24		
1,2-Dibromoethane (EDB)	107	106	80 - 129	1	15		
1,2-Dichlorobenzene	105	105	80 - 121	1	15		
1,3-Dichlorobenzene	103	104	80 - 122	1	15		
1,4-Dichlorobenzene	101	101	80 - 120	0	15		
Dichlorodifluoromethane	120	119	37 - 127	1	18		
1,1-Dichloroethane	99	98	78 - 125	1	17		
1,2-Dichloroethane	103	102	77 - 121	1	17		
1,1-Dichloroethene	109	108	79 - 124	0	17		
1,2-Dichloropropane	96	96	75 - 120	0	17		
Ethylbenzene	95	95	80 - 130	0	15		
2-Hexanone	94	94	60 - 142	1	15		
Isopropylbenzene	101	101	80 - 141	0	16		
Methyl acetate	77	77	64 - 150	0	31		
Methylcyclohexane	116	116	71 - 129	0	19		
Methylene Chloride	109	111	79 - 123	2	17		
4-Methyl-2-pentanone (MIBK)	96	97	60 - 137	0	17		
Methyl tert-butyl ether	96	97	72 - 133	1	16		
N-Propylbenzene	97	97	75 - 129	0	17		

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-120479

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-120479/3	Analysis Batch:	490-120479	Instrument ID:	HP45
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1108-31.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/09/2013 2132	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/09/2013 2132				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-120479/4	Analysis Batch:	490-120479	Instrument ID:	HP45
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1108-32.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/09/2013 2159	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/09/2013 2159				
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Styrene	97	97	80 - 127	0	24		
1,1,2,2-Tetrachloroethane	85	83	69 - 131	1	20		
Tetrachloroethene	105	105	80 - 126	1	16		
Tetrahydrofuran	84	81	51 - 124	3	18		
Toluene	95	95	80 - 126	0	15		
trans-1,2-Dichloroethene	98	99	79 - 126	1	16		
trans-1,3-Dichloropropene	91	91	63 - 134	1	14		
1,2,4-Trichlorobenzene	96	98	63 - 133	2	19		
1,1,1-Trichloroethane	106	105	78 - 135	0	17		
1,1,2-Trichloroethane	107	106	80 - 124	1	15		
Trichloroethene	127	128	80 - 123	1	17	*	*
Trichlorofluoromethane	120	118	65 - 124	2	18		
1,1,2-Trichloro-1,2,2-trichfluoroethane	121	120	77 - 129	1	18		
Vinyl chloride	109	110	68 - 120	1	17		
Xylenes, Total	94	94	80 - 132	0	15		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	93	93	70 - 130
Dibromofluoromethane (Surr)	98	98	70 - 130
1,2-Dichloroethane-d4 (Surr)	95	95	70 - 130
Toluene-d8 (Surr)	93	93	70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 490-120479

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-120479/3	Units: ug/L		LCSD Lab Sample ID:	LCSD 490-120479/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/09/2013 2132			Analysis Date:	11/09/2013 2159
Prep Date:	11/09/2013 2132			Prep Date:	11/09/2013 2159
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Acetone	250	250	302.1	295.1
Benzene	50.0	50.0	51.41	51.62
Bromochloromethane	50.0	50.0	55.91	55.57
Bromodichloromethane	50.0	50.0	52.42	52.57
Bromoform	50.0	50.0	51.79	51.49
Bromomethane	50.0	50.0	53.85	55.08
2-Butanone (MEK)	250	250	278.9	278.6
Carbon disulfide	50.0	50.0	53.42	52.96
Carbon tetrachloride	50.0	50.0	53.13	53.49
Chlorobenzene	50.0	50.0	50.48	50.56
Chlorodibromomethane	50.0	50.0	52.86	53.05
Chloroethane	50.0	50.0	54.29	54.33
Chloroform	50.0	50.0	49.21	49.35
Chloromethane	50.0	50.0	39.76	38.45
cis-1,2-Dichloroethene	50.0	50.0	44.30	43.97
cis-1,3-Dichloropropene	50.0	50.0	44.82	44.89
Cyclohexane	50.0	50.0	48.24	48.42
1,2-Dibromo-3-Chloropropane	50.0	50.0	46.88	47.04
1,2-Dibromoethane (EDB)	50.0	50.0	53.31	52.76
1,2-Dichlorobenzene	50.0	50.0	52.41	52.74
1,3-Dichlorobenzene	50.0	50.0	51.50	51.85
1,4-Dichlorobenzene	50.0	50.0	50.62	50.66
Dichlorodifluoromethane	50.0	50.0	60.17	59.35
1,1-Dichloroethane	50.0	50.0	49.30	49.04
1,2-Dichloroethane	50.0	50.0	51.55	50.95
1,1-Dichloroethene	50.0	50.0	54.39	54.25
1,2-Dichloropropane	50.0	50.0	48.02	47.83
Ethylbenzene	50.0	50.0	47.57	47.55
2-Hexanone	250	250	235.3	234.0
Isopropylbenzene	50.0	50.0	50.25	50.35
Methyl acetate	250	250	193.5	193.4
Methylcyclohexane	50.0	50.0	58.00	57.88
Methylene Chloride	50.0	50.0	54.52	55.44
4-Methyl-2-pentanone (MIBK)	250	250	241.1	241.3
Methyl tert-butyl ether	50.0	50.0	48.14	48.53
N-Propylbenzene	50.0	50.0	48.39	48.47
Styrene	50.0	50.0	48.71	48.51
1,1,2,2-Tetrachloroethane	50.0	50.0	42.33	41.73
Tetrachloroethene	50.0	50.0	52.35	52.67

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 490-120479

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-120479/3	Units: ug/L		LCSD Lab Sample ID:	LCSD 490-120479/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/09/2013 2132			Analysis Date:	11/09/2013 2159
Prep Date:	11/09/2013 2132			Prep Date:	11/09/2013 2159
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Tetrahydrofuran	100	100	83.60		81.20	
Toluene	50.0	50.0	47.28		47.28	
trans-1,2-Dichloroethene	50.0	50.0	49.05		49.66	
trans-1,3-Dichloropropene	50.0	50.0	45.61		45.37	
1,2,4-Trichlorobenzene	50.0	50.0	48.12		49.05	
1,1,1-Trichloroethane	50.0	50.0	52.78		52.58	
1,1,2-Trichloroethane	50.0	50.0	53.37		52.87	
Trichloroethene	50.0	50.0	63.51	*	63.92	*
Trichlorofluoromethane	50.0	50.0	59.84		58.76	
1,1,2-Trichloro-1,2,2-trichfluoroethane	50.0	50.0	60.34		59.94	
Vinyl chloride	50.0	50.0	54.60		55.13	
Xylenes, Total	100	100	93.80		94.07	

DATA REPORTING QUALIFIERS

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Lab Section	Qualifier	Description
GC/MS VOA		
	*	LCS or LCSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:490-120093					
LCS 490-120093/3	Lab Control Sample	T	Water	8260B	
LCSD 490-120093/4	Lab Control Sample Duplicate	T	Water	8260B	
MB 490-120093/6	Method Blank	T	Water	8260B	
490-39235-1	GP-6D-GW-001	T	Water	8260B	
490-39235-2	GP-7D-GW-001	T	Water	8260B	
490-39235-3	GP-10D-GW-001	T	Water	8260B	
490-39235-4	GP-11D-GW-001	T	Water	8260B	
490-39235-4MS	Matrix Spike	T	Water	8260B	
490-39235-4MSD	Matrix Spike Duplicate	T	Water	8260B	
490-39235-6	GP-13A-GW-001	T	Water	8260B	
490-39235-7	GP-13A-GW-002	T	Water	8260B	
490-39235-8	EB	T	Water	8260B	
490-39235-9TB	Trip Blank	T	Water	8260B	
Analysis Batch:490-120479					
LCS 490-120479/3	Lab Control Sample	T	Water	8260B	
LCSD 490-120479/4	Lab Control Sample Duplicate	T	Water	8260B	
MB 490-120479/6	Method Blank	T	Water	8260B	
490-39235-4	GP-11D-GW-001	T	Water	8260B	
490-39235-5	GP-12A-GW-001	T	Water	8260B	

Report Basis
T = Total

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Laboratory Chronicle

Lab ID: 490-39235-1 **Client ID:** GP-6D-GW-001

Sample Date/Time: 10/28/2013 12:26 Received Date/Time: 11/01/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39235-A-1		490-120093		11/07/2013 15:14	1	TAL NSH	BJM
A:8260B	490-39235-A-1		490-120093		11/07/2013 15:14	1	TAL NSH	BJM

Lab ID: 490-39235-2 **Client ID:** GP-7D-GW-001

Sample Date/Time: 10/28/2013 11:07 Received Date/Time: 11/01/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39235-A-2		490-120093		11/07/2013 15:41	1	TAL NSH	BJM
A:8260B	490-39235-A-2		490-120093		11/07/2013 15:41	1	TAL NSH	BJM

Lab ID: 490-39235-3 **Client ID:** GP-10D-GW-001

Sample Date/Time: 10/28/2013 14:40 Received Date/Time: 11/01/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39235-A-3		490-120093		11/07/2013 16:08	1	TAL NSH	BJM
A:8260B	490-39235-A-3		490-120093		11/07/2013 16:08	1	TAL NSH	BJM

Lab ID: 490-39235-4 **Client ID:** GP-11D-GW-001

Sample Date/Time: 10/28/2013 15:51 Received Date/Time: 11/01/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39235-A-4		490-120093		11/07/2013 16:36	1	TAL NSH	BJM
A:8260B	490-39235-A-4		490-120093		11/07/2013 16:36	1	TAL NSH	BJM
P:5030B	490-39235-B-4		490-120479		11/09/2013 23:48	5	TAL NSH	BJM
A:8260B	490-39235-B-4		490-120479		11/09/2013 23:48	5	TAL NSH	BJM

Lab ID: 490-39235-4 **Client ID:** GP-11D-GW-001

Sample Date/Time: 10/28/2013 15:51 Received Date/Time: 11/01/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39235-A-4 MS		490-120093		11/07/2013 22:03	1	TAL NSH	BJM
A:8260B	490-39235-A-4 MS		490-120093		11/07/2013 22:03	1	TAL NSH	BJM

Lab ID: 490-39235-4 **Client ID:** GP-11D-GW-001

Sample Date/Time: 10/28/2013 15:51 Received Date/Time: 11/01/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39235-A-4 MSD		490-120093		11/07/2013 22:31	1	TAL NSH	BJM
A:8260B	490-39235-A-4 MSD		490-120093		11/07/2013 22:31	1	TAL NSH	BJM

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Laboratory Chronicle

Lab ID: 490-39235-5 **Client ID:** GP-12A-GW-001

Sample Date/Time: 10/29/2013 09:47 Received Date/Time: 11/01/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39235-B-5		490-120479		11/09/2013 23:21	1	TAL NSH	BJM
A:8260B	490-39235-B-5		490-120479		11/09/2013 23:21	1	TAL NSH	BJM

Lab ID: 490-39235-6 **Client ID:** GP-13A-GW-001

Sample Date/Time: 10/30/2013 12:52 Received Date/Time: 11/01/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39235-A-6		490-120093		11/07/2013 17:30	1	TAL NSH	BJM
A:8260B	490-39235-A-6		490-120093		11/07/2013 17:30	1	TAL NSH	BJM

Lab ID: 490-39235-7 **Client ID:** GP-13A-GW-002

Sample Date/Time: 10/30/2013 12:52 Received Date/Time: 11/01/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39235-A-7		490-120093		11/07/2013 17:57	1	TAL NSH	BJM
A:8260B	490-39235-A-7		490-120093		11/07/2013 17:57	1	TAL NSH	BJM

Lab ID: 490-39235-8 **Client ID:** EB

Sample Date/Time: 10/29/2013 10:11 Received Date/Time: 11/01/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39235-A-8		490-120093		11/07/2013 14:46	1	TAL NSH	BJM
A:8260B	490-39235-A-8		490-120093		11/07/2013 14:46	1	TAL NSH	BJM

Lab ID: 490-39235-9 **Client ID:** Trip Blank

Sample Date/Time: 10/30/2013 00:01 Received Date/Time: 11/01/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39235-A-9		490-120093		11/07/2013 14:19	1	TAL NSH	BJM
A:8260B	490-39235-A-9		490-120093		11/07/2013 14:19	1	TAL NSH	BJM

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 490-120093/6		490-120093		11/07/2013 12:42	1	TAL NSH	BJM
A:8260B	MB 490-120093/6		490-120093		11/07/2013 12:42	1	TAL NSH	BJM
P:5030B	MB 490-120479/6		490-120479		11/09/2013 22:53	1	TAL NSH	BJM
A:8260B	MB 490-120479/6		490-120479		11/09/2013 22:53	1	TAL NSH	BJM

Client: Haley & Aldrich, Inc. Job Number: 490-39235-1

Laboratory Chronicle

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 490-120093/3		490-120093		11/07/2013 11:20	1	TAL NSH	BJM
A:8260B	LCS 490-120093/3		490-120093		11/07/2013 11:20	1	TAL NSH	BJM
P:5030B	LCS 490-120479/3		490-120479		11/09/2013 21:32	1	TAL NSH	BJM
A:8260B	LCS 490-120479/3		490-120479		11/09/2013 21:32	1	TAL NSH	BJM

Lab ID: LCSD **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 490-120093/4		490-120093		11/07/2013 11:47	1	TAL NSH	BJM
A:8260B	LCSD 490-120093/4		490-120093		11/07/2013 11:47	1	TAL NSH	BJM
P:5030B	LCSD 490-120479/4		490-120479		11/09/2013 21:59	1	TAL NSH	BJM
A:8260B	LCSD 490-120479/4		490-120479		11/09/2013 21:59	1	TAL NSH	BJM

Lab References:
TAL NSH = TestAmerica Nashville

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
V1_gases_I_00024	10/16/13	10/09/13	Methanol, Lot 125253	25 mL	V1_Gases_00003	1.25 mL	Bromomethane	100 ug/mL
							Butadiene	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Dichlorofluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.V1_Gases_00003	02/28/15		Restek, Lot A093341		(Purchased Reagent)		Bromomethane	2000000 ug/L
							Butadiene	2000000 ug/L
							Chloroethane	2000000 ug/L
							Chloromethane	2000000 ug/L
							Dichlorodifluoromethane	2000000 ug/L
							Dichlorofluoromethane	2000000 ug/L
							Trichlorofluoromethane	2000000 ug/L
							Vinyl chloride	2000000 ug/L
V1_gases_I_00027	11/08/13	11/02/13	Methanol, Lot 0000038701	25 mL	V1_Gases_00003	1.25 mL	Bromomethane	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.V1_Gases_00003	02/28/15		Restek, Lot A093341		(Purchased Reagent)		Bromomethane	2000000 ug/L
							Chloroethane	2000000 ug/L
							Chloromethane	2000000 ug/L
							Dichlorodifluoromethane	2000000 ug/L
							Trichlorofluoromethane	2000000 ug/L
							Vinyl chloride	2000000 ug/L
V1_Mega_I_00009	10/30/13	09/30/13	Methanol, Lot 123279	50 mL	V1_2-CEVE_00002	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					V1_Acrolein_00007	2.5 mL	Acrolein	250 ug/mL
					V1_Additions_00003	2.5 mL	1,2,3-Trimethylbenzene	100 ug/mL
							1,3,5-Trichlorobenzene	100 ug/mL
							2-Chloro-1,3-butadiene	100 ug/mL
							2-Nitropropane	200 ug/mL
							Acetonitrile	1000 ug/mL
							Benzyl chloride	100 ug/mL
							Ethanol	5000 ug/mL
							Ethyl acetate	200 ug/mL
							Ethyl acrylate	100 ug/mL
							Isopropyl alcohol	1000 ug/mL
							Isopropyl ether	100 ug/mL
							Methacrylonitrile	1000 ug/mL
							Methyl methacrylate	200 ug/mL
							n-Butanol	2500 ug/mL
							n-Butyl acetate	100 ug/mL
							Propionitrile	1000 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tert-amyl methyl ether	100 ug/mL
							Tert-butyl ethyl ether	100 ug/mL
					V1_cyclohxnon_00002	2.5 mL	Cyclohexanone	1000 ug/mL
					V1_Keytones_00002	2.5 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					V1_Megamix_00005	2.5 mL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane (EDB)	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromochloromethane	100 ug/mL
							Bromodichloromethane	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	1000 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
					V1_vnl acetat_00003	2.5 mL	Vinyl acetate	200 ug/mL
.V1_2-CEVE_00002	02/28/16		Restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000000 ug/L
.V1_Acrolein_00007	12/31/13		Restek, Lot A097557		(Purchased Reagent)		Acrolein	5000000 ug/L
.V1_Additions_00003	08/30/14		Restek, Lot A093634		(Purchased Reagent)		1,2,3-Trimethylbenzene	2000000 ug/L
							1,3,5-Trichlorobenzene	2000000 ug/L
							2-Chloro-1,3-butadiene	2000000 ug/L
							2-Nitropropane	4000000 ug/L
							Acetonitrile	20000000 ug/L
							Benzyl chloride	2000000 ug/L
							Ethanol	100000000 ug/L
							Ethyl acetate	4000000 ug/L
							Ethyl acrylate	2000000 ug/L
							Isopropyl alcohol	20000000 ug/L
							Isopropyl ether	2000000 ug/L
							Methacrylonitrile	20000000 ug/L
							Methyl methacrylate	4000000 ug/L

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butanol	50000000 ug/L
							n-Butyl acetate	2000000 ug/L
							Propionitrile	20000000 ug/L
							Tert-amyl methyl ether	2000000 ug/L
							Tert-butyl ethyl ether	2000000 ug/L
.V1_cyclohxnon_00002	02/28/16		Restek, Lot A093361		(Purchased Reagent)		Cyclohexanone	20000000 ug/L
.V1_Keytones_00002	02/28/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000000 ug/L
							2-Hexanone	10000000 ug/L
							4-Methyl-2-pentanone (MIBK)	10000000 ug/L
							Acetone	10000000 ug/L
.V1_Megamix_00005	02/28/16		Restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000000 ug/L
							1,1,1-Trichloroethane	2000000 ug/L
							1,1,2,2-Tetrachloroethane	2000000 ug/L
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2000000 ug/L
							1,1,2-Trichloroethane	2000000 ug/L
							1,1-Dichloroethane	2000000 ug/L
							1,1-Dichloroethene	2000000 ug/L
							1,1-Dichloropropene	2000000 ug/L
							1,2,3-Trichlorobenzene	2000000 ug/L
							1,2,3-Trichloropropane	2000000 ug/L
							1,2,4-Trichlorobenzene	2000000 ug/L
							1,2,4-Trimethylbenzene	2000000 ug/L
							1,2-Dibromo-3-Chloropropane	2000000 ug/L
							1,2-Dibromoethane (EDB)	2000000 ug/L
							1,2-Dichlorobenzene	2000000 ug/L
							1,2-Dichloroethane	2000000 ug/L
							1,2-Dichloropropane	2000000 ug/L
							1,3,5-Trimethylbenzene	2000000 ug/L
							1,3-Dichlorobenzene	2000000 ug/L
							1,3-Dichloropropane	2000000 ug/L
							1,4-Dichlorobenzene	2000000 ug/L
							1,4-Dioxane	40000000 ug/L
							2,2-Dichloropropane	2000000 ug/L
							2-Chlorotoluene	2000000 ug/L
							2-Methyl-2-propanol	20000000 ug/L
							3-Chloro-1-propene	2000000 ug/L
							4-Chlorotoluene	2000000 ug/L
							4-Isopropyltoluene	2000000 ug/L
							Acrylonitrile	20000000 ug/L
							Benzene	2000000 ug/L
							Bromobenzene	2000000 ug/L
							Bromochloromethane	2000000 ug/L
							Bromodichloromethane	2000000 ug/L
							Bromoform	2000000 ug/L
							Carbon disulfide	2000000 ug/L
							Carbon tetrachloride	2000000 ug/L
							Chlorobenzene	2000000 ug/L

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorodibromomethane	2000000 ug/L
							Chloroform	2000000 ug/L
							cis-1,2-Dichloroethene	2000000 ug/L
							cis-1,3-Dichloropropene	2000000 ug/L
							Cyclohexane	2000000 ug/L
							Dibromomethane	2000000 ug/L
							Ethyl ether	2000000 ug/L
							Ethyl methacrylate	2000000 ug/L
							Ethylbenzene	2000000 ug/L
							Hexachlorobutadiene	2000000 ug/L
							Hexane	2000000 ug/L
							Iodomethane	2000000 ug/L
							Isobutyl alcohol	20000000 ug/L
							Isopropylbenzene	2000000 ug/L
							m-Xylene & p-Xylene	2000000 ug/L
							Methyl acetate	10000000 ug/L
							Methyl tert-butyl ether	2000000 ug/L
							Methylcyclohexane	2000000 ug/L
							Methylene Chloride	2000000 ug/L
							n-Butylbenzene	2000000 ug/L
							n-Heptane	2000000 ug/L
							N-Propylbenzene	2000000 ug/L
							Naphthalene	2000000 ug/L
							o-Xylene	2000000 ug/L
							sec-Butylbenzene	2000000 ug/L
							Styrene	2000000 ug/L
							tert-Butylbenzene	2000000 ug/L
							Tetrachloroethene	2000000 ug/L
							Tetrahydrofuran	4000000 ug/L
							Toluene	2000000 ug/L
							trans-1,2-Dichloroethene	2000000 ug/L
							trans-1,3-Dichloropropene	2000000 ug/L
							trans-1,4-Dichloro-2-butene	2000000 ug/L
							Trichloroethene	2000000 ug/L
.V1_vnl acetat_00003	12/31/13	Restek, Lot A096198			(Purchased Reagent)		Vinyl acetate	4000000 ug/L
V1_Mega_I_00010	11/26/13	10/26/13	Methanol, Lot 0000049909	50 mL	V1_Keytones_00003	2.5 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					V1_Megamix_00005	2.5 mL	1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane (EDB)	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							Benzene	100 ug/mL
							Bromochloromethane	100 ug/mL
							Bromodichloromethane	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Ethylbenzene	100 ug/mL
							Isopropylbenzene	100 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Styrene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							Trichloroethene	100 ug/mL
							Xylenes, Total	200 ug/mL
.V1_Keytones_00003	02/28/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000000 ug/L
							2-Hexanone	10000000 ug/L
							4-Methyl-2-pentanone (MIBK)	10000000 ug/L
							Acetone	10000000 ug/L
.V1_Megamix_00005	02/28/16		Restek, Lot A093581		(Purchased Reagent)		1,1,1-Trichloroethane	2000000 ug/L
							1,1,2,2-Tetrachloroethane	2000000 ug/L
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2000000 ug/L
							1,1,2-Trichloroethane	2000000 ug/L
							1,1-Dichloroethane	2000000 ug/L
							1,1-Dichloroethene	2000000 ug/L
							1,2,4-Trichlorobenzene	2000000 ug/L
							1,2-Dibromo-3-Chloropropane	2000000 ug/L
							1,2-Dibromoethane (EDB)	2000000 ug/L

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	2000000 ug/L
							1,2-Dichloroethane	2000000 ug/L
							1,2-Dichloropropane	2000000 ug/L
							1,3-Dichlorobenzene	2000000 ug/L
							1,4-Dichlorobenzene	2000000 ug/L
							Benzene	2000000 ug/L
							Bromochloromethane	2000000 ug/L
							Bromodichloromethane	2000000 ug/L
							Bromoform	2000000 ug/L
							Carbon disulfide	2000000 ug/L
							Carbon tetrachloride	2000000 ug/L
							Chlorobenzene	2000000 ug/L
							Chlorodibromomethane	2000000 ug/L
							Chloroform	2000000 ug/L
							cis-1,2-Dichloroethene	2000000 ug/L
							cis-1,3-Dichloropropene	2000000 ug/L
							Cyclohexane	2000000 ug/L
							Ethylbenzene	2000000 ug/L
							Isopropylbenzene	2000000 ug/L
							Methyl acetate	10000000 ug/L
							Methyl tert-butyl ether	2000000 ug/L
							Methylcyclohexane	2000000 ug/L
							Methylene Chloride	2000000 ug/L
							N-Propylbenzene	2000000 ug/L
							Styrene	2000000 ug/L
							Tetrachloroethene	2000000 ug/L
							Tetrahydrofuran	4000000 ug/L
							Toluene	2000000 ug/L
							trans-1,2-Dichloroethene	2000000 ug/L
							trans-1,3-Dichloropropene	2000000 ug/L
							Trichloroethene	2000000 ug/L
							Xylenes, Total	4000000 ug/L
V2_gases_I_00011	10/15/13	10/08/13	Methanol, Lot 124454	25 mL	V2_Gases_00003	1.25 mL	Bromomethane	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.V2_Gases_00003	02/28/15	Restek, Lot A093618			(Purchased Reagent)		Bromomethane	2000000 ug/L
							Chloroethane	2000000 ug/L
							Chloromethane	2000000 ug/L
							Dichlorodifluoromethane	2000000 ug/L
							Trichlorofluoromethane	2000000 ug/L
							Vinyl chloride	2000000 ug/L
V2_Mega_I_00005	10/20/13	09/20/13	Methanol, Lot 124454	10 mL	V2_Keytones_00001	0.5 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	500 ug/mL
					V2_Megamix_00002	0.5 mL	1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane (EDB)	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							Benzene	100 ug/mL
							Bromochloromethane	100 ug/mL
							Bromodichloromethane	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Ethylbenzene	100 ug/mL
							Isopropylbenzene	100 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Styrene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							Trichloroethene	100 ug/mL
							Xylenes, Total	200 ug/mL
.V2_Keytones_00001	02/28/16		Restek, Lot A093472		(Purchased Reagent)		2-Butanone (MEK)	10000000 ug/L
							2-Hexanone	10000000 ug/L
							4-Methyl-2-pentanone (MIBK)	10000000 ug/L
							Acetone	10000000 ug/L
.V2_Megamix_00002	02/28/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1-Trichloroethane	2000000 ug/L

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2,2-Tetrachloroethane	2000000 ug/L
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2000000 ug/L
							1,1,2-Trichloroethane	2000000 ug/L
							1,1-Dichloroethane	2000000 ug/L
							1,1-Dichloroethene	2000000 ug/L
							1,2,4-Trichlorobenzene	2000000 ug/L
							1,2-Dibromo-3-Chloropropane	2000000 ug/L
							1,2-Dibromoethane (EDB)	2000000 ug/L
							1,2-Dichlorobenzene	2000000 ug/L
							1,2-Dichloroethane	2000000 ug/L
							1,2-Dichloropropane	2000000 ug/L
							1,3-Dichlorobenzene	2000000 ug/L
							1,4-Dichlorobenzene	2000000 ug/L
							Benzene	2000000 ug/L
							Bromochloromethane	2000000 ug/L
							Bromodichloromethane	2000000 ug/L
							Bromoform	2000000 ug/L
							Carbon disulfide	2000000 ug/L
							Carbon tetrachloride	2000000 ug/L
							Chlorobenzene	2000000 ug/L
							Chlorodibromomethane	2000000 ug/L
							Chloroform	2000000 ug/L
							cis-1,2-Dichloroethene	2000000 ug/L
							cis-1,3-Dichloropropene	2000000 ug/L
							Cyclohexane	2000000 ug/L
							Ethylbenzene	2000000 ug/L
							Isopropylbenzene	2000000 ug/L
							Methyl acetate	10000000 ug/L
							Methyl tert-butyl ether	2000000 ug/L
							Methylcyclohexane	2000000 ug/L
							Methylene Chloride	2000000 ug/L
							N-Propylbenzene	2000000 ug/L
							Styrene	2000000 ug/L
							Tetrachloroethene	2000000 ug/L
							Tetrahydrofuran	4000000 ug/L
							Toluene	2000000 ug/L
							trans-1,2-Dichloroethene	2000000 ug/L
							trans-1,3-Dichloropropene	2000000 ug/L
							Trichloroethene	2000000 ug/L
							Xylenes, Total	4000000 ug/L
VOA_ISSS250_W_00009	11/24/13	05/24/13	Methanol, Lot K14E06	50 mL	VOA_IS Mix_S_00004	5 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
					VOA_SS Mix_S_00003	5 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.VOA_IS Mix_S_00004	03/31/14	Ultra Scientific, Lot CJ-0470			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500000 ug/L
							Chlorobenzene-d5	2500000 ug/L
							Fluorobenzene (IS)	2500000 ug/L
.VOA_SS Mix_S_00003	09/30/14	Ultra Scientific, Lot CJ-3029			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500000 ug/L
							4-Bromofluorobenzene (Surr)	2500000 ug/L
							Dibromofluoromethane (Surr)	2500000 ug/L
							Toluene-d8 (Surr)	2500000 ug/L
VOA_ISSS250_W_00011	01/31/14	10/19/13	Methanol, Lot ust_Methanol_00010	50 mL	V1_Surrogates_00002	5 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
.V1_Surrogates_00002	02/28/18	Restek, Lot A093505			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500000 ug/L
							4-Bromofluorobenzene (Surr)	2500000 ug/L
							Dibromofluoromethane (Surr)	2500000 ug/L
							Toluene-d8 (Surr)	2500000 ug/L

RESTEK

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639985
ID: V1_2-CEVE_00002
Exp: 02/28/16 Prpd: JH
Primary 2-chloroethylviny

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ISO Guide 34 Accredited
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Certificate #3222.01

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ISO/IEC 17025 Accredited
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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567643 **Lot No.:** A093368

Description : 8260 List 1 / Std #4 2-Chloroethylvinyl Ether

8260 List 1 / Std #4 2-Chloroethylvinyl Ether 2,000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Chloroethyl vinyl ether	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 110-75-8		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed

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

Tech Tips:

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

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

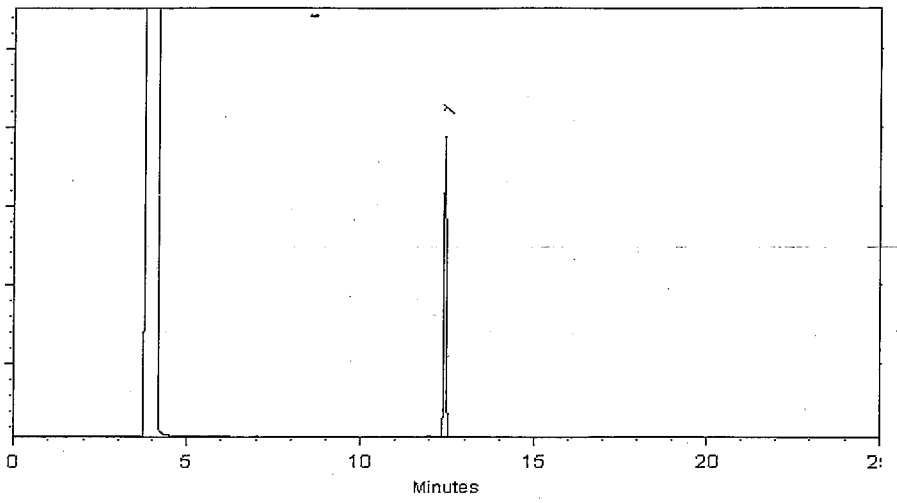
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 15-Feb-2013 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK CERTIFIED REFERENCE MATERIAL

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Certificate of Analysis

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567644 **Lot No.:** A097557

Description : 8260 List 1 / Std # 5 Acrolein

8260 List 1 / Std # 5 Acrolein 5000 ug/ml, Water, 1 ml/ampul

974566
ID: V1_Acrolein_00007
Exp: 12/31/13 Prpd: JPH
Primary Acrolein @ 5000 p

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

Expiration Date : December 31, 2013 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acrolein		5,006.0 µg/mL	+/- 29.3780 µg/mL	Gravimetric
	CAS # 107-02-8	(Lot 130301JLM)		+/- 131.3952 µg/mL	Unstressed
	Purity 99%			+/- 165.1930 µg/mL	Stressed

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

Column:
105m x 0.53mm x 3.0um
Rtx-502.2 (cat.#10910)

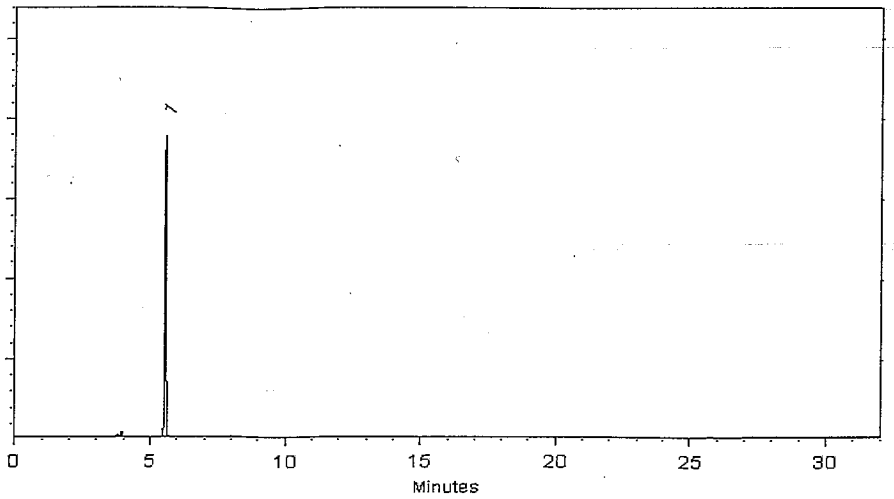
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

F. Joseph Fallon - Mix Technician **Date Mixed:** 23-Aug-2013 **Balance:** B251644995

Jodi E. Breon - QA Analyst **Date Passed:** 27-Aug-2013

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

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649600
ID: V1_cyclohxnon_00002
Exp: 02/28/16 Prpd: JH
Primary cyclohexanone @ 2

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Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567648 **Lot No.:** A093361

Description : 8260 List 2 / Std #3 Cyclohexanone

8260 List 2 / Std #3 Cyclohexanone 20,000 ug/ml, Water, 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Cyclohexanone	20,000.0 µg/mL	+/- 116.2756	µg/mL	Gravimetric
	CAS # 108-94-1		+/- 1,597.3791	µg/mL	Unstressed
	Purity 99%		+/- 1,598.1615	µg/mL	Stressed

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

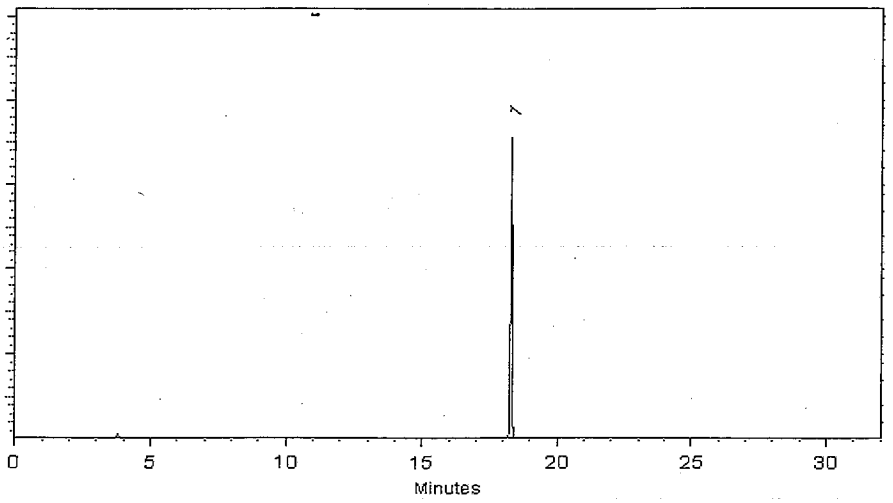
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 14-Feb-2013 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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861418
ID: V1_Gases_00003
Exp: 02/28/15 Prpd: JPH
Primary Gases @ 2000ppm

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567645 **Lot No.:** A093341

Description : 8260 List 1 / Std #3 Gases

8260 List 1 / Std #3 Gases 2,000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)	2,000.0 µg/mL	+/- 13.8716	µg/mL	Gravimetric
	CAS # 75-71-8		+/- 25.2661	µg/mL	Unstressed
	Purity 99%		+/- 28.2336	µg/mL	Stressed
2	Chloromethane (methyl chloride)	1,999.8 µg/mL	+/- 13.9993	µg/mL	Gravimetric
	CAS # 74-87-3		+/- 25.3348	µg/mL	Unstressed
	Purity 99%		+/- 28.2945	µg/mL	Stressed
3	Vinyl chloride	2,000.1 µg/mL	+/- 13.9625	µg/mL	Gravimetric
	CAS # 75-01-4		+/- 25.3168	µg/mL	Unstressed
	Purity 99%		+/- 28.2792	µg/mL	Stressed
4	1,3-Butadiene	2,000.0 µg/mL	+/- 13.3773	µg/mL	Gravimetric
	CAS # 106-99-0		+/- 24.9981	µg/mL	Unstressed
	Purity 99%		+/- 27.9940	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,000.1 µg/mL	+/- 14.2856	µg/mL	Gravimetric
	CAS # 74-83-9		+/- 25.4963	µg/mL	Unstressed
	Purity 99%		+/- 28.4399	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,000.0 µg/mL	+/- 13.2200	µg/mL	Gravimetric
	CAS # 75-00-3		+/- 24.9143	µg/mL	Unstressed
	Purity 99%		+/- 27.9191	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,000.0 µg/mL	+/- 13.5174	µg/mL	Gravimetric
	CAS # 75-43-4		+/- 25.0735	µg/mL	Unstressed
	Purity 99%		+/- 28.0614	µg/mL	Stressed
8	Trichlorofluoromethane (CFC-11)	1,999.9 µg/mL	+/- 13.1170	µg/mL	Gravimetric
	CAS # 75-69-4		+/- 24.8590	µg/mL	Unstressed
	Purity 99%		+/- 27.8696	µg/mL	Stressed

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

Column:
60m x .25mm x 1.4um
Rtx-502.2 (cat.#10916)

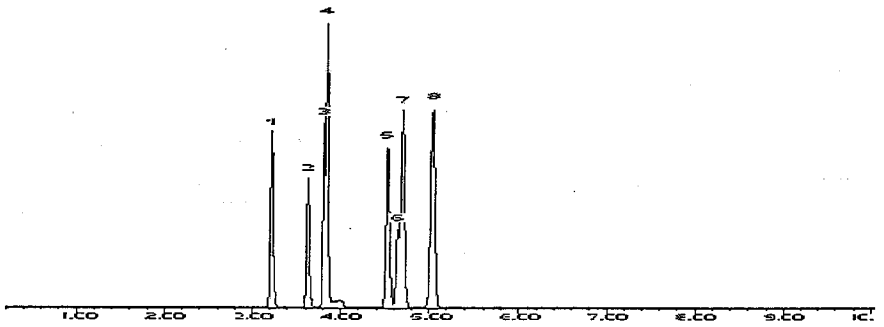
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



Jodi E. Breon - QA Analyst

Date Passed: 25-Feb-2013 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

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640590
ID: V1_Keytones_00002
Exp: 02/28/16 Prpd: JH
Primary Keytones @ 10000p

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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567642 **Lot No.:** A093365

Description : 8260 List 1 / Std #2 Ketones

8260 List 1 / Std #2 Ketones 10,000 ug/ml, P&T Methanol/Water (90:10), 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 67-64-1		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
2	2-Butanone (MEK)	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 78-93-3		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 108-10-1		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
4	2-Hexanone	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 591-78-6		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

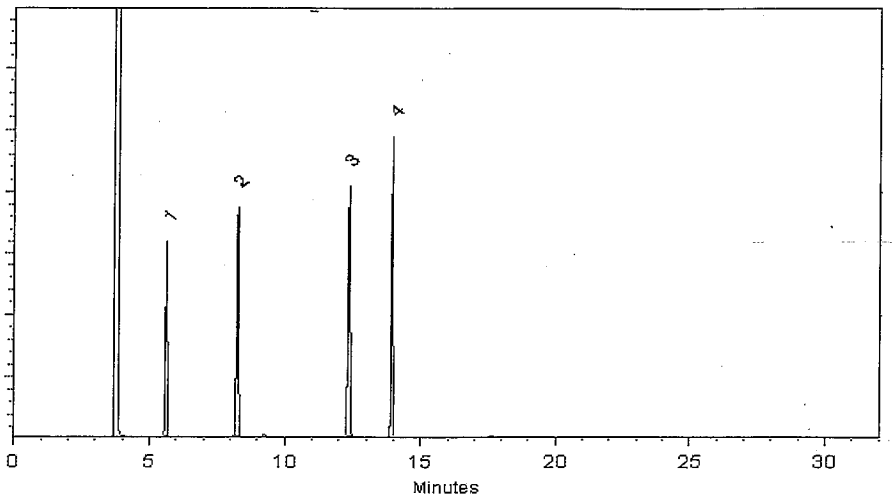
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 14-Feb-2013 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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861274
ID: V1_Keytones_00003
Exp: 02/28/16 Prpd: JPH
Primary Keytones @ 10000p

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Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567642 **Lot No.:** A093365

Description : 8260 List 1 / Std #2 Ketones

8260 List 1 / Std #2 Ketones 10,000 ug/ml, P&T Methanol/Water (90:10), 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	10,000.0 µg/mL	+/- 58.1378 µg/mL	Gravimetric
	CAS # 67-64-1		+/- 798.6896 µg/mL	Unstressed
	Purity 99%		+/- 799.0807 µg/mL	Stressed
2	2-Butanone (MEK)	10,000.0 µg/mL	+/- 58.1378 µg/mL	Gravimetric
	CAS # 78-93-3		+/- 798.6896 µg/mL	Unstressed
	Purity 99%		+/- 799.0807 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	10,000.0 µg/mL	+/- 58.1378 µg/mL	Gravimetric
	CAS # 108-10-1		+/- 798.6896 µg/mL	Unstressed
	Purity 99%		+/- 799.0807 µg/mL	Stressed
4	2-Hexanone	10,000.0 µg/mL	+/- 58.1378 µg/mL	Gravimetric
	CAS # 591-78-6		+/- 798.6896 µg/mL	Unstressed
	Purity 99%		+/- 799.0807 µg/mL	Stressed

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

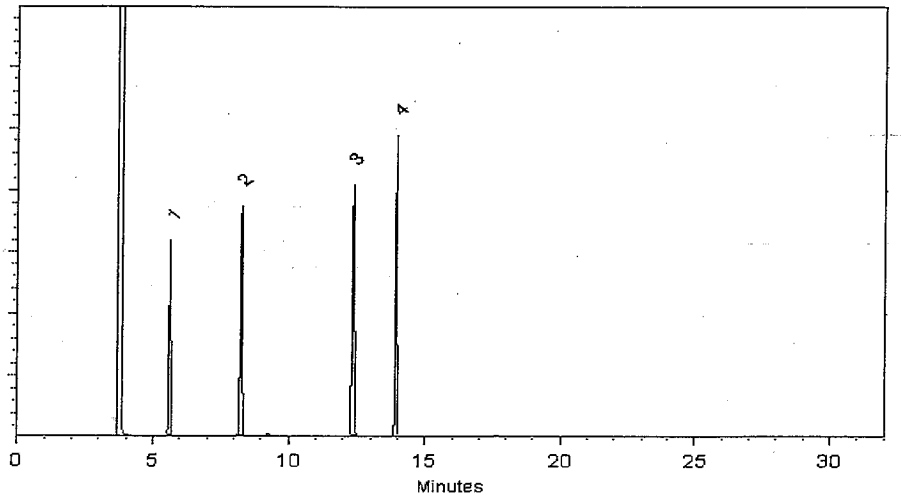
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 14-Feb-2013 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

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619798
ID: V1_Surrogates_00002
Exp: 02/28/16 Prpd: JH
Surrogate Mix at 2500 ppm

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Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567650 **Lot No.:** A093505

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500 ug/ml, P&T Methanol, 5 ml/ampul

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

Expiration Date : February 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dibromofluoromethane	2,500.0 µg/mL	+/- 14.5352	µg/mL	Gravimetric
	CAS # 1868-53-7		+/- 30.1344	µg/mL	Unstressed
	Purity 99%		+/- 34.0022	µg/mL	Stressed
2	1,2-Dichloroethane-d4	2,500.0 µg/mL	+/- 14.5352	µg/mL	Gravimetric
	CAS # 17060-07-0		+/- 30.1344	µg/mL	Unstressed
	Purity 99%		+/- 34.0022	µg/mL	Stressed
3	Toluene-d8	2,500.0 µg/mL	+/- 14.5352	µg/mL	Gravimetric
	CAS # 2037-26-5		+/- 30.1344	µg/mL	Unstressed
	Purity 99%		+/- 34.0022	µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)	2,500.0 µg/mL	+/- 14.5352	µg/mL	Gravimetric
	CAS # 460-00-4		+/- 30.1344	µg/mL	Unstressed
	Purity 99%		+/- 34.0022	µg/mL	Stressed

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

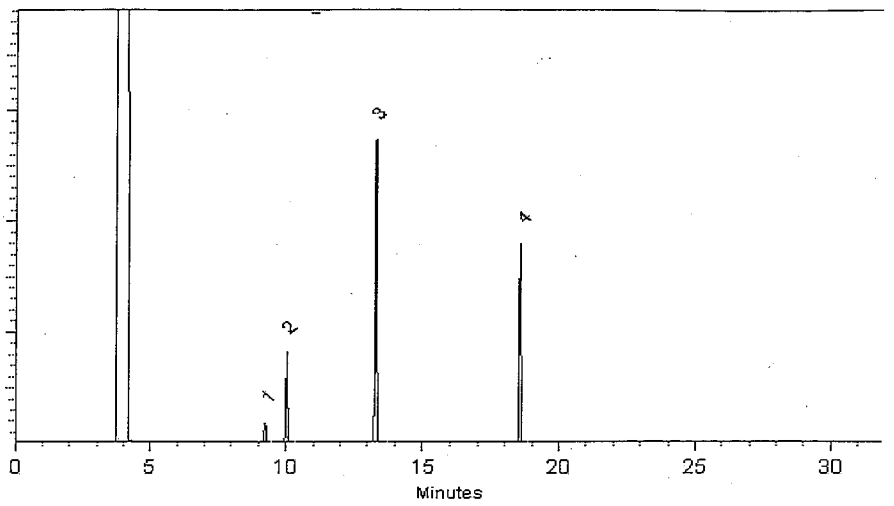
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Diane Shaffer - QA Analyst

Date Passed: 15-Feb-2013 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK CERTIFIED REFERENCE MATERIAL

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

861448
ID: V1_vnl acetat_00003
Exp: 12/31/13 Prpd: JPH
Primary Vinyl Acetate @ 4

Catalog No. : 567646 **Lot No.:** A096198

Description : 8260 List 1 / Std #6 Vinyl Acetate

8260 List 1 / Std #6 Vinyl Acetate 4000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : December 31, 2013 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Vinyl acetate	4,000.0 µg/mL	+/- 23.2563 µg/mL	Gravimetric
	CAS # 108-05-4 (Lot STBC7746V)		+/- 319.4759 µg/mL	Unstressed
	Purity 99%		+/- 319.6324 µg/mL	Stressed

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

Tech Tips:

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

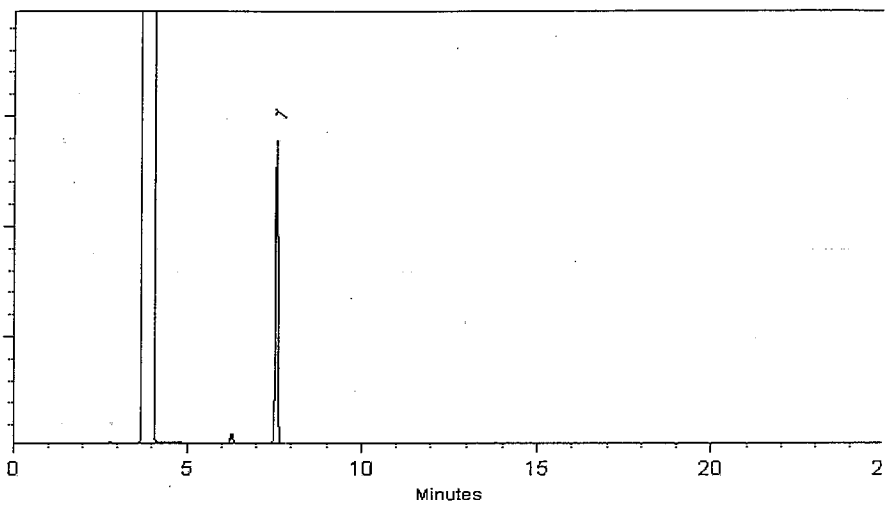
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

F. Joseph Fallon - Mix Technician

Date Mixed: 24-Jun-2013 **Balance:** B251644995

Diane Shaffer - QA Analyst

Date Passed: 25-Jun-2013

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

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899313
ID: V2_Gases_00003
Exp: 02/28/15 Prpd: JPH
Secondary Gases @ 2000pp

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567645.sec **Lot No.:** A093618

Description : 8260 List 1 / Std #3 Gases

8260 List 1 / Std #3 Gases 2,000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)	2,001.8 µg/mL	+/- 11.3948	µg/mL	Gravimetric
	CAS # 75-71-8.SEC		+/- 24.0125	µg/mL	Unstressed
	Purity 99%		+/- 27.1228	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,000.6 µg/mL	+/- 11.1434	µg/mL	Gravimetric
	CAS # 74-87-3.SEC		+/- 23.8835	µg/mL	Unstressed
	Purity 99%		+/- 27.0052	µg/mL	Stressed
3	Vinyl chloride	1,996.5 µg/mL	+/- 13.5847	µg/mL	Gravimetric
	CAS # 75-01-4.SEC		+/- 25.0789	µg/mL	Unstressed
	Purity 99%		+/- 28.0563	µg/mL	Stressed
4	1,3-Butadiene	2,003.5 µg/mL	+/- 10.3715	µg/mL	Gravimetric
	CAS # 106-99-0.SEC		+/- 23.5601	µg/mL	Unstressed
	Purity 99%		+/- 26.7280	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,001.5 µg/mL	+/- 12.1569	µg/mL	Gravimetric
	CAS # 74-83-9.SEC		+/- 24.3811	µg/mL	Unstressed
	Purity 99%		+/- 27.4489	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	1,997.2 µg/mL	+/- 13.6408	µg/mL	Gravimetric
	CAS # 75-00-3.SEC		+/- 25.1155	µg/mL	Unstressed
	Purity 99%		+/- 28.0910	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,004.9 µg/mL	+/- 12.2390	µg/mL	Gravimetric
	CAS # 75-43-4.SEC		+/- 24.4529	µg/mL	Unstressed
	Purity 99%		+/- 27.5224	µg/mL	Stressed
8	Trichlorofluoromethane (CFC-11)	2,001.9 µg/mL	+/- 16.1788	µg/mL	Gravimetric
	CAS # 75-69-4.SEC		+/- 26.6190	µg/mL	Unstressed
	Purity 99%		+/- 29.4557	µg/mL	Stressed

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

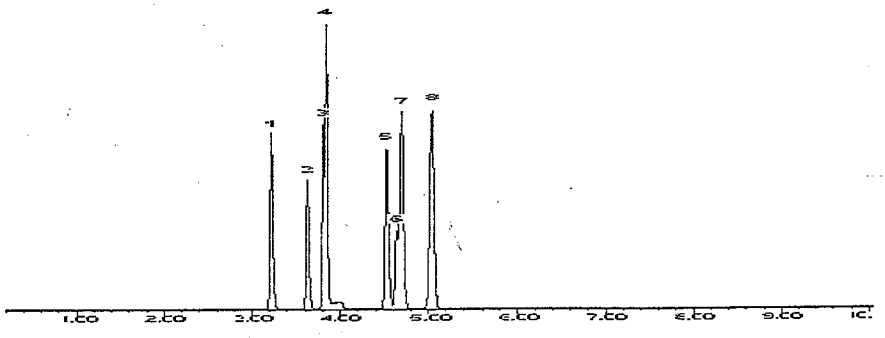
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Jodi E. Breon
Jodi E. Breon - QA Analyst

Date Passed: 25-Feb-2013 **Balance:** 1125113331

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
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www.restek.com

648812
ID: V2_Keytones_00001
Exp: 02/28/16 Prpd: JH
Secondary Keytones @ 1000

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Composition

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567642.sec **Lot No.:** A093472

Description : 8260 List 1 / Std #2 Ketones

8260/624 Ketones Standard 10,000 ug/ml, P&T Methanol/Water (90:10), 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	10,000.0 µg/mL	+/- 58.1409 µg/mL	Gravimetric
	CAS # 67-64-1.SEC		+/- 798.6898 µg/mL	Unstressed
	Purity 99%		+/- 799.0809 µg/mL	Stressed
2	2-Butanone (MEK)	10,000.0 µg/mL	+/- 58.1409 µg/mL	Gravimetric
	CAS # 78-93-3.SEC		+/- 798.6898 µg/mL	Unstressed
	Purity 99%		+/- 799.0809 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	10,000.0 µg/mL	+/- 58.1409 µg/mL	Gravimetric
	CAS # 108-10-1.SEC		+/- 798.6898 µg/mL	Unstressed
	Purity 99%		+/- 799.0809 µg/mL	Stressed
4	2-Hexanone	10,000.0 µg/mL	+/- 58.1409 µg/mL	Gravimetric
	CAS # 591-78-6.SEC		+/- 798.6898 µg/mL	Unstressed
	Purity 99%		+/- 799.0809 µg/mL	Stressed

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

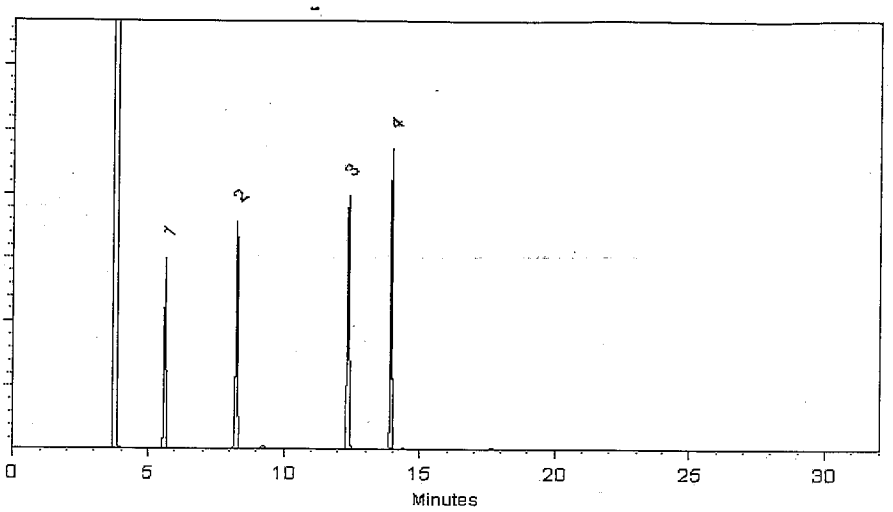
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 14-Feb-2013 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK

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www.restek.com

861523
ID: V2_Megamix_00002
Exp: 02/28/16 Prpd: JPH
Secondary Megamix @ 2000

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567641.sec **Lot No.:** A093733

Description : 8260 List 1 / Std #1 MegaMix

8260 List 1 / Std #1 MegaMix 1,000-50,000 µg/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Diethyl ether (ethyl ether)	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 60-29-7.SEC		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113)	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 76-13-1.SEC		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed
3	1,1-Dichloroethene	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 75-35-4.SEC		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed
4	tert-Butanol (TBA)	20,000.0 µg/mL	+/- 116.2756	µg/mL	Gravimetric
	CAS # 75-65-0.SEC		+/- 442.5291	µg/mL	Unstressed
	Purity 99%		+/- 444.3332	µg/mL	Stressed
5	Iodomethane (methyl iodide)	2,000.0 µg/mL	+/- 11.6284	µg/mL	Gravimetric
	CAS # 74-88-4.SEC		+/- 44.2540	µg/mL	Unstressed
	Purity 97%		+/- 44.4344	µg/mL	Stressed
6	Allyl chloride (3-chloropropene)	2,000.0 µg/mL	+/- 11.6281	µg/mL	Gravimetric
	CAS # 107-05-1.SEC		+/- 44.2527	µg/mL	Unstressed
	Purity 98%		+/- 44.4331	µg/mL	Stressed
7	Methyl acetate	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 79-20-9.SEC		+/- 221.2646	µg/mL	Unstressed
	Purity 99%		+/- 222.1666	µg/mL	Stressed
8	Carbon disulfide	2,000.0 µg/mL	+/- 11.6281	µg/mL	Gravimetric
	CAS # 75-15-0.SEC		+/- 44.2527	µg/mL	Unstressed
	Purity 98%		+/- 44.4331	µg/mL	Stressed
9	Methylene chloride (dichloromethane)	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 75-09-2.SEC		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed

10	Acrylonitrile	20,000.0	µg/mL	+/-	116.2756	µg/mL	Gravimetric
	CAS # 107-13-1.SEC			+/-	442.5291	µg/mL	Unstressed
	Purity 99%			+/-	444.3332	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
12	cis-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-59-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
13	n-Hexane (C6)	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 110-54-3.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed
14	1,1-Dichloroethane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 75-34-3.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
15	2,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 594-20-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
16	trans-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 156-60-5.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
17	Chloroform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 67-66-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
18	Isobutanol (2-Methyl-1-propanol)	50,000.0	µg/mL	+/-	290.6891	µg/mL	Gravimetric
	CAS # 78-83-1.SEC			+/-	1,106.3228	µg/mL	Unstressed
	Purity 99%			+/-	1,110.8331	µg/mL	Stressed
19	Bromochloromethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-97-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
20	Tetrahydrofuran	4,000.0	µg/mL	+/-	23.2563	µg/mL	Gravimetric
	CAS # 109-99-9.SEC			+/-	88.5061	µg/mL	Unstressed
	Purity 99%			+/-	88.8670	µg/mL	Stressed
21	1,1,1-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-55-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
22	Cyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 110-82-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
23	1,1-Dichloropropene	2,010.5	µg/mL	+/-	11.6890	µg/mL	Gravimetric
	CAS # 563-58-6.SEC			+/-	44.4847	µg/mL	Unstressed
	Purity 98%			+/-	44.6661	µg/mL	Stressed
24	Carbon tetrachloride	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 56-23-5.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed
25	n-Heptane (C7)	2,000.1	µg/mL	+/-	11.6288	µg/mL	Gravimetric
	CAS # 142-82-5.SEC			+/-	44.2553	µg/mL	Unstressed
	Purity 99%			+/-	44.4357	µg/mL	Stressed
26	Benzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-43-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
27	1,2-Dichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 107-06-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
28	Trichloroethene	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 79-01-6.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed

29	Methylcyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-87-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
30	1,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 78-87-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
31	1,4-Dioxane	40,000.0	µg/mL	+/-	232.5513	µg/mL	Gravimetric
	CAS # 123-91-1.SEC			+/-	885.0582	µg/mL	Unstressed
	Purity 99%			+/-	888.6665	µg/mL	Stressed
32	Dibromomethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-95-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
33	Bromodichloromethane	2,000.1	µg/mL	+/-	11.6290	µg/mL	Gravimetric
	CAS # 75-27-4.SEC			+/-	44.2562	µg/mL	Unstressed
	Purity 97%			+/-	44.4366	µg/mL	Stressed
34	cis-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
35	Toluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-88-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
36	Ethyl methacrylate	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 97-63-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
37	trans-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
38	1,1,2-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-00-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
39	1,3-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-28-9.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
40	Tetrachloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 127-18-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
41	Dibromochloromethane	2,000.1	µg/mL	+/-	11.6290	µg/mL	Gravimetric
	CAS # 124-48-1.SEC			+/-	44.2562	µg/mL	Unstressed
	Purity 97%			+/-	44.4366	µg/mL	Stressed
42	1,2-Dibromoethane (EDB)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-93-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
43	Chlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-90-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
44	1,1,1,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 630-20-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
45	m-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 108-38-3.SEC			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
46	p-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 106-42-3.SEC			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
47	o-Xylene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-47-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

48	Ethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-41-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
49	Styrene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-42-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
50	Isopropylbenzene (cumene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-82-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
51	Bromoform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-25-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-34-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
53	1,2,3-Trichloropropane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 96-18-4.SEC			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
54	trans-1,4-Dichloro-2-butene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 110-57-6.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
55	n-Propylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 103-65-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
56	Bromobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-86-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
57	1,3,5-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-67-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
58	2-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-49-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
59	4-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-43-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
60	tert-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-06-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
61	1,2,4-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-63-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
62	sec-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 135-98-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
63	4-Isopropyltoluene (p-cymene)	2,000.1	µg/mL	+/-	11.6285	µg/mL	Gravimetric
	CAS # 99-87-6.SEC			+/-	44.2545	µg/mL	Unstressed
	Purity 96%			+/-	44.4349	µg/mL	Stressed
64	1,3-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 541-73-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
65	1,4-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-46-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
66	n-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 104-51-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

67	1,2-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-50-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 96-12-8.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
69	1,2,4-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 120-82-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
70	Hexachlorobutadiene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 87-68-3.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
71	Naphthalene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 91-20-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
72	1,2,3-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 87-61-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

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

Column:
60m x .25mm x 1.4um
Rtx-502.2 (cat.#10916)

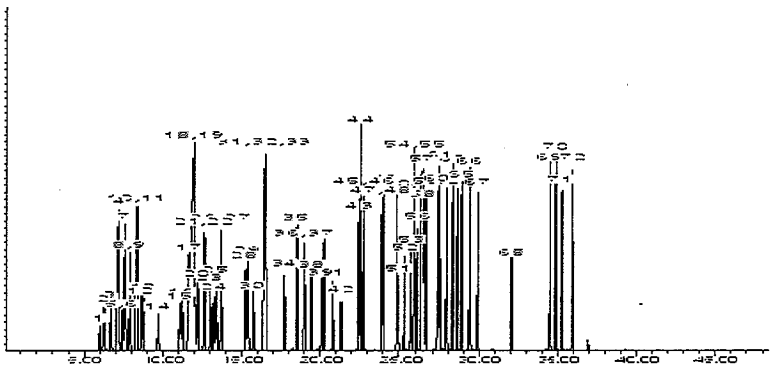
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



Jennifer L. Pollino - QC Analyst

Date Passed: 01-Mar-2013 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

573199
ID: VOA_IS Mix_S_00004
Exp: 03/31/14 Prpd: JH
Internal Standard Mix at

Custom Standard

Product Number: TAM-104 **Page:** 1 of 1

Lot Number: CJ-0470 **Lot Issue Date:** 14-Feb-2012 **Expiration Date:** 31-Mar-2014

This Certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
fluorobenzene	000462-06-6	RM03366-01	2513 ± 13 µg/mL
chlorobenzene-d5	003114-55-4	RM01430-04	2512 ± 13 µg/mL
1,4-dichlorobenzene-d4	003855-82-1	RM01700-02	2507 ± 13 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at Room Temperature (18-25° C)

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

A2LA ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0851-01
ISO 9001:2008 Registered TUV USA, Inc. Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
wwww.ultrasci.com

William J. Leary
Quality Assurance Manager

11/14/2013

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

573188
ID: VOA_SS Mix_S_00003
Exp: 09/30/14 Prpd: JH
Surrogate Standard Mix at

Custom Standard

Product Number: TAM-100 **Page:** 1 of 1

Lot Number: CJ-3029 **Lot Issue Date:** 06-Aug-2012 **Expiration Date:** 30-Sep-2014

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
4-bromofluorobenzene	000460-00-4	RM03365	2509 ± 13 µg/mL
dibromofluoromethane	001868-53-7	RM04871	2511 ± 13 µg/mL
1,2-dichloroethane-d4	017060-07-0	RM05260	2506 ± 13 µg/mL
toluene-d8	002037-26-5	RM01741	2507 ± 13 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ACCREDITED

ISO 17025 Accredited A2LA Cert. No. 0851-01

ISO 9001 Registered TUV USA, Inc. Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 401-295-2330
www.ultrasci.com

William J. Leary
Quality Assurance Manager

11/14/2013

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39235-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	Alaska (UST)	State Program	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas DEQ	State Program	6	88-0737
TestAmerica Nashville	California	NELAP	9	1168CA
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAP	4	E87358
TestAmerica Nashville	Illinois	NELAP	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAP	7	E-10229
TestAmerica Nashville	Kentucky (UST)	State Program	4	19
TestAmerica Nashville	Louisiana	NELAP	6	30613
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAP	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana (UST)	State Program	8	NA
TestAmerica Nashville	Nevada	State Program	9	TN00032
TestAmerica Nashville	New Hampshire	NELAP	1	2963
TestAmerica Nashville	New Jersey	NELAP	2	TN965
TestAmerica Nashville	New York	NELAP	2	11342
TestAmerica Nashville	North Carolina DENR	State Program	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio VAP	State Program	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAP	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAP	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009 (001)
TestAmerica Nashville	South Carolina	State Program	4	84009 (002)
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAP	6	T104704077-09-TX
TestAmerica Nashville	USDA	Federal		S-48469
TestAmerica Nashville	Utah	NELAP	8	TN00032
TestAmerica Nashville	Virginia	NELAP	3	460152
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia DEP	State Program	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430
TestAmerica Nashville	Wyoming (UST)	A2LA	8	453.07

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260B

Volatile Organic Compounds (GC/MS) by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
GP-6D-GW-001	490-39235-1	100	101	96	92
GP-7D-GW-001	490-39235-2	100	100	96	92
GP-10D-GW-001	490-39235-3	100	99	97	92
GP-11D-GW-001	490-39235-4	99	100	97	92
GP-11D-GW-001	490-39235-4	100	99	95	92
GP-12A-GW-001	490-39235-5	100	98	96	92
GP-13A-GW-001	490-39235-6	101	99	96	91
GP-13A-GW-002	490-39235-7	100	101	96	92
EB	490-39235-8	99	99	97	94
Trip Blank	490-39235-9	100	100	97	94
	MB 490-120093/6	99	99	96	95
	MB 490-120479/6	101	99	96	93
	LCS 490-120093/3	97	97	94	96
	LCS 490-120479/3	98	95	93	93
	LCSD 490-120093/4	97	96	94	96
	LCSD 490-120479/4	98	95	93	93
GP-11D-GW-001 MS	490-39235-4 MS	98	96	95	93
GP-11D-GW-001 MSD	490-39235-4 MSD	98	97	95	93

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 1107-03.D

Lab ID: LCS 490-120093/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	250	304.7	122	54-145	
Benzene	50.0	50.68	101	80-121	
Bromochloromethane	50.0	51.11	102	78-129	
Bromodichloromethane	50.0	51.44	103	75-129	
Bromoform	50.0	52.89	106	46-145	
Bromomethane	50.0	32.56	65	41-150	
2-Butanone (MEK)	250	286.5	115	62-133	
Carbon disulfide	50.0	52.10	104	77-126	
Carbon tetrachloride	50.0	51.71	103	64-147	
Chlorobenzene	50.0	51.04	102	80-120	
Chlorodibromomethane	50.0	53.51	107	69-133	
Chloroethane	50.0	53.50	107	72-120	
Chloroform	50.0	48.10	96	73-129	
Chloromethane	50.0	49.78	100	12-150	
cis-1,2-Dichloroethene	50.0	45.61	91	76-125	
cis-1,3-Dichloropropene	50.0	50.08	100	74-140	
Cyclohexane	50.0	49.24	98	73-122	
1,2-Dibromo-3-Chloropropane	50.0	52.51	105	54-125	
1,2-Dibromoethane (EDB)	50.0	54.85	110	80-129	
1,2-Dichlorobenzene	50.0	53.19	106	80-121	
1,3-Dichlorobenzene	50.0	53.67	107	80-122	
1,4-Dichlorobenzene	50.0	52.29	105	80-120	
Dichlorodifluoromethane	50.0	58.20	116	37-127	
1,1-Dichloroethane	50.0	47.76	96	78-125	
1,2-Dichloroethane	50.0	51.32	103	77-121	
1,1-Dichloroethene	50.0	58.49	117	79-124	
1,2-Dichloropropane	50.0	48.39	97	75-120	
Ethylbenzene	50.0	48.64	97	80-130	
2-Hexanone	250	259.1	104	60-142	
Isopropylbenzene	50.0	51.99	104	80-141	
Methyl acetate	250	212.5	85	64-150	
Methylcyclohexane	50.0	61.64	123	71-129	
Methylene Chloride	50.0	53.78	108	79-123	
4-Methyl-2-pentanone (MIBK)	250	259.2	104	60-137	
Methyl tert-butyl ether	50.0	49.65	99	72-133	
N-Propylbenzene	50.0	51.39	103	75-129	
Styrene	50.0	49.35	99	80-127	
1,1,2,2-Tetrachloroethane	50.0	56.38	113	69-131	
Tetrachloroethene	50.0	54.10	108	80-126	
Tetrahydrofuran	100	87.92	88	51-124	
Toluene	50.0	47.92	96	80-126	
trans-1,2-Dichloroethene	50.0	48.70	97	79-126	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 1107-03.D

Lab ID: LCS 490-120093/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	50.0	51.75	103	63-134	
1,2,4-Trichlorobenzene	50.0	53.31	107	63-133	
1,1,1-Trichloroethane	50.0	52.66	105	78-135	
1,1,2-Trichloroethane	50.0	54.62	109	80-124	
Trichloroethene	50.0	55.13	110	80-123	
Trichlorofluoromethane	50.0	63.83	128	65-124	*
1,1,2-Trichloro-1,2,2-trichfluoroethane	50.0	60.69	121	77-129	
Vinyl chloride	50.0	54.91	110	68-120	
Xylenes, Total	100	96.78	97	80-132	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 1108-31.D

Lab ID: LCS 490-120479/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	250	302.1	121	54-145	
Benzene	50.0	51.41	103	80-121	
Bromochloromethane	50.0	55.91	112	78-129	
Bromodichloromethane	50.0	52.42	105	75-129	
Bromoform	50.0	51.79	104	46-145	
Bromomethane	50.0	53.85	108	41-150	
2-Butanone (MEK)	250	278.9	112	62-133	
Carbon disulfide	50.0	53.42	107	77-126	
Carbon tetrachloride	50.0	53.13	106	64-147	
Chlorobenzene	50.0	50.48	101	80-120	
Chlorodibromomethane	50.0	52.86	106	69-133	
Chloroethane	50.0	54.29	109	72-120	
Chloroform	50.0	49.21	98	73-129	
Chloromethane	50.0	39.76	80	12-150	
cis-1,2-Dichloroethene	50.0	44.30	89	76-125	
cis-1,3-Dichloropropene	50.0	44.82	90	74-140	
Cyclohexane	50.0	48.24	96	73-122	
1,2-Dibromo-3-Chloropropane	50.0	46.88	94	54-125	
1,2-Dibromoethane (EDB)	50.0	53.31	107	80-129	
1,2-Dichlorobenzene	50.0	52.41	105	80-121	
1,3-Dichlorobenzene	50.0	51.50	103	80-122	
1,4-Dichlorobenzene	50.0	50.62	101	80-120	
Dichlorodifluoromethane	50.0	60.17	120	37-127	
1,1-Dichloroethane	50.0	49.30	99	78-125	
1,2-Dichloroethane	50.0	51.55	103	77-121	
1,1-Dichloroethene	50.0	54.39	109	79-124	
1,2-Dichloropropane	50.0	48.02	96	75-120	
Ethylbenzene	50.0	47.57	95	80-130	
2-Hexanone	250	235.3	94	60-142	
Isopropylbenzene	50.0	50.25	101	80-141	
Methyl acetate	250	193.5	77	64-150	
Methylcyclohexane	50.0	58.00	116	71-129	
Methylene Chloride	50.0	54.52	109	79-123	
4-Methyl-2-pentanone (MIBK)	250	241.1	96	60-137	
Methyl tert-butyl ether	50.0	48.14	96	72-133	
N-Propylbenzene	50.0	48.39	97	75-129	
Styrene	50.0	48.71	97	80-127	
1,1,2,2-Tetrachloroethane	50.0	42.33	85	69-131	
Tetrachloroethene	50.0	52.35	105	80-126	
Tetrahydrofuran	100	83.60	84	51-124	
Toluene	50.0	47.28	95	80-126	
trans-1,2-Dichloroethene	50.0	49.05	98	79-126	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 1108-31.D

Lab ID: LCS 490-120479/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	50.0	45.61	91	63-134	
1,2,4-Trichlorobenzene	50.0	48.12	96	63-133	
1,1,1-Trichloroethane	50.0	52.78	106	78-135	
1,1,2-Trichloroethane	50.0	53.37	107	80-124	
Trichloroethene	50.0	63.51	127	80-123	*
Trichlorofluoromethane	50.0	59.84	120	65-124	
1,1,2-Trichloro-1,2,2-trichfluoroethane	50.0	60.34	121	77-129	
Vinyl chloride	50.0	54.60	109	68-120	
Xylenes, Total	100	93.80	94	80-132	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 1107-04.D

Lab ID: LCSD 490-120093/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	250	302.9	121	1	21	54-145	
Benzene	50.0	50.88	102	0	17	80-121	
Bromochloromethane	50.0	53.11	106	4	17	78-129	
Bromodichloromethane	50.0	52.55	105	2	18	75-129	
Bromoform	50.0	52.92	106	0	16	46-145	
Bromomethane	50.0	41.83	84	25	50	41-150	
2-Butanone (MEK)	250	300.9	120	5	19	62-133	
Carbon disulfide	50.0	51.52	103	1	21	77-126	
Carbon tetrachloride	50.0	51.59	103	0	19	64-147	
Chlorobenzene	50.0	51.10	102	0	14	80-120	
Chlorodibromomethane	50.0	53.75	108	0	15	69-133	
Chloroethane	50.0	52.99	106	1	20	72-120	
Chloroform	50.0	48.04	96	0	18	73-129	
Chloromethane	50.0	48.83	98	2	31	12-150	
cis-1,2-Dichloroethene	50.0	45.34	91	1	17	76-125	
cis-1,3-Dichloropropene	50.0	50.46	101	1	15	74-140	
Cyclohexane	50.0	48.66	97	1	16	73-122	
1,2-Dibromo-3-Chloropropane	50.0	51.72	103	2	24	54-125	
1,2-Dibromoethane (EDB)	50.0	55.69	111	2	15	80-129	
1,2-Dichlorobenzene	50.0	53.76	108	1	15	80-121	
1,3-Dichlorobenzene	50.0	53.25	107	1	15	80-122	
1,4-Dichlorobenzene	50.0	51.93	104	1	15	80-120	
Dichlorodifluoromethane	50.0	56.92	114	2	18	37-127	
1,1-Dichloroethane	50.0	47.89	96	0	17	78-125	
1,2-Dichloroethane	50.0	51.75	104	1	17	77-121	
1,1-Dichloroethene	50.0	58.21	116	0	17	79-124	
1,2-Dichloropropane	50.0	48.10	96	1	17	75-120	
Ethylbenzene	50.0	49.06	98	1	15	80-130	
2-Hexanone	250	261.5	105	1	15	60-142	
Isopropylbenzene	50.0	51.77	104	0	16	80-141	
Methyl acetate	250	213.4	85	0	31	64-150	
Methylcyclohexane	50.0	60.87	122	1	19	71-129	
Methylene Chloride	50.0	53.42	107	1	17	79-123	
4-Methyl-2-pentanone (MIBK)	250	263.8	106	2	17	60-137	
Methyl tert-butyl ether	50.0	49.94	100	1	16	72-133	
N-Propylbenzene	50.0	51.13	102	1	17	75-129	
Styrene	50.0	49.20	98	0	24	80-127	
1,1,2,2-Tetrachloroethane	50.0	56.38	113	0	20	69-131	
Tetrachloroethene	50.0	53.43	107	1	16	80-126	
Tetrahydrofuran	100	90.83	91	3	18	51-124	
Toluene	50.0	47.98	96	0	15	80-126	
trans-1,2-Dichloroethene	50.0	48.44	97	1	16	79-126	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 1107-04.D

Lab ID: LCSD 490-120093/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	50.0	51.62	103	0	14	63-134	
1,2,4-Trichlorobenzene	50.0	52.86	106	1	19	63-133	
1,1,1-Trichloroethane	50.0	52.47	105	0	17	78-135	
1,1,2-Trichloroethane	50.0	55.31	111	1	15	80-124	
Trichloroethene	50.0	55.32	111	0	17	80-123	
Trichlorofluoromethane	50.0	61.71	123	3	18	65-124	
1,1,2-Trichloro-1,2,2-trichfluoroethane	50.0	59.14	118	3	18	77-129	
Vinyl chloride	50.0	54.20	108	1	17	68-120	
Xylenes, Total	100	96.47	96	0	15	80-132	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 1108-32.D

Lab ID: LCSD 490-120479/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	250	295.1	118	2	21	54-145	
Benzene	50.0	51.62	103	0	17	80-121	
Bromochloromethane	50.0	55.57	111	1	17	78-129	
Bromodichloromethane	50.0	52.57	105	0	18	75-129	
Bromoform	50.0	51.49	103	1	16	46-145	
Bromomethane	50.0	55.08	110	2	50	41-150	
2-Butanone (MEK)	250	278.6	111	0	19	62-133	
Carbon disulfide	50.0	52.96	106	1	21	77-126	
Carbon tetrachloride	50.0	53.49	107	1	19	64-147	
Chlorobenzene	50.0	50.56	101	0	14	80-120	
Chlorodibromomethane	50.0	53.05	106	0	15	69-133	
Chloroethane	50.0	54.33	109	0	20	72-120	
Chloroform	50.0	49.35	99	0	18	73-129	
Chloromethane	50.0	38.45	77	3	31	12-150	
cis-1,2-Dichloroethene	50.0	43.97	88	1	17	76-125	
cis-1,3-Dichloropropene	50.0	44.89	90	0	15	74-140	
Cyclohexane	50.0	48.42	97	0	16	73-122	
1,2-Dibromo-3-Chloropropane	50.0	47.04	94	0	24	54-125	
1,2-Dibromoethane (EDB)	50.0	52.76	106	1	15	80-129	
1,2-Dichlorobenzene	50.0	52.74	105	1	15	80-121	
1,3-Dichlorobenzene	50.0	51.85	104	1	15	80-122	
1,4-Dichlorobenzene	50.0	50.66	101	0	15	80-120	
Dichlorodifluoromethane	50.0	59.35	119	1	18	37-127	
1,1-Dichloroethane	50.0	49.04	98	1	17	78-125	
1,2-Dichloroethane	50.0	50.95	102	1	17	77-121	
1,1-Dichloroethene	50.0	54.25	108	0	17	79-124	
1,2-Dichloropropane	50.0	47.83	96	0	17	75-120	
Ethylbenzene	50.0	47.55	95	0	15	80-130	
2-Hexanone	250	234.0	94	1	15	60-142	
Isopropylbenzene	50.0	50.35	101	0	16	80-141	
Methyl acetate	250	193.4	77	0	31	64-150	
Methylcyclohexane	50.0	57.88	116	0	19	71-129	
Methylene Chloride	50.0	55.44	111	2	17	79-123	
4-Methyl-2-pentanone (MIBK)	250	241.3	97	0	17	60-137	
Methyl tert-butyl ether	50.0	48.53	97	1	16	72-133	
N-Propylbenzene	50.0	48.47	97	0	17	75-129	
Styrene	50.0	48.51	97	0	24	80-127	
1,1,2,2-Tetrachloroethane	50.0	41.73	83	1	20	69-131	
Tetrachloroethene	50.0	52.67	105	1	16	80-126	
Tetrahydrofuran	100	81.20	81	3	18	51-124	
Toluene	50.0	47.28	95	0	15	80-126	
trans-1,2-Dichloroethene	50.0	49.66	99	1	16	79-126	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 1108-32.D

Lab ID: LCSD 490-120479/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	50.0	45.37	91	1	14	63-134	
1,2,4-Trichlorobenzene	50.0	49.05	98	2	19	63-133	
1,1,1-Trichloroethane	50.0	52.58	105	0	17	78-135	
1,1,2-Trichloroethane	50.0	52.87	106	1	15	80-124	
Trichloroethene	50.0	63.92	128	1	17	80-123	*
Trichlorofluoromethane	50.0	58.76	118	2	18	65-124	
1,1,2-Trichloro-1,2,2-trichfluoroethane	50.0	59.94	120	1	18	77-129	
Vinyl chloride	50.0	55.13	110	1	17	68-120	
Xylenes, Total	100	94.07	94	0	15	80-132	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 1107-26.D

Lab ID: 490-39235-4 MS Client ID: GP-11D-GW-001 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acetone	250	ND	273.1	109	45-141	
Benzene	50.0	ND	52.62	105	75-133	
Bromochloromethane	50.0	ND	56.52	113	67-139	
Bromodichloromethane	50.0	ND	51.51	103	70-140	
Bromoform	50.0	ND	50.65	101	42-147	
Bromomethane	50.0	ND	29.27	59	16-163	
2-Butanone (MEK)	250	ND	305.5	122	50-138	
Carbon disulfide	50.0	ND	52.81	106	48-152	
Carbon tetrachloride	50.0	ND	51.03	102	62-164	
Chlorobenzene	50.0	ND	53.14	106	80-129	
Chlorodibromomethane	50.0	ND	53.15	106	66-140	
Chloroethane	50.0	ND	52.33	105	58-137	
Chloroform	50.0	ND	50.45	101	66-138	
Chloromethane	50.0	ND	47.92	96	10-169	
cis-1,2-Dichloroethene	50.0	7.04	53.71	93	68-138	
cis-1,3-Dichloropropene	50.0	ND	49.60	99	71-141	
Cyclohexane	50.0	ND	49.80	100	58-144	
1,2-Dibromo-3-Chloropropane	50.0	ND	52.22	104	52-126	
1,2-Dibromoethane (EDB)	50.0	ND	56.44	113	75-137	
1,2-Dichlorobenzene	50.0	ND	53.98	108	79-128	
1,3-Dichlorobenzene	50.0	ND	54.14	108	77-131	
1,4-Dichlorobenzene	50.0	ND	53.02	106	78-126	
Dichlorodifluoromethane	50.0	ND	50.80	102	40-127	
1,1-Dichloroethane	50.0	ND	48.93	98	71-139	
1,2-Dichloroethane	50.0	ND	51.40	103	64-136	
1,1-Dichloroethene	50.0	ND	59.87	120	70-142	
1,2-Dichloropropane	50.0	ND	48.43	97	67-131	
Ethylbenzene	50.0	ND	50.42	101	79-139	
2-Hexanone	250	ND	263.4	105	50-150	
Isopropylbenzene	50.0	ND	52.76	106	80-153	
Methyl acetate	250	ND	215.1	86	30-165	
Methylcyclohexane	50.0	ND	62.61	125	59-151	
Methylene Chloride	50.0	ND	55.23	110	64-139	
4-Methyl-2-pentanone (MIBK)	250	ND	271.0	108	50-147	
Methyl tert-butyl ether	50.0	ND	49.07	98	66-141	
N-Propylbenzene	50.0	ND	51.44	103	69-142	
Styrene	50.0	ND	50.38	101	61-148	
1,1,2,2-Tetrachloroethane	50.0	ND	56.18	112	56-143	
Tetrachloroethene	50.0	ND	56.73	113	72-145	
Tetrahydrofuran	100	ND	92.96	93	34-133	
Toluene	50.0	ND	49.84	100	75-136	
trans-1,2-Dichloroethene	50.0	ND	50.97	102	66-143	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 1107-26.D

Lab ID: 490-39235-4 MS Client ID: GP-11D-GW-001 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	50.0	ND	50.00	100	59-135	
1,2,4-Trichlorobenzene	50.0	ND	52.02	104	60-136	
1,1,1-Trichloroethane	50.0	ND	53.88	108	76-149	
1,1,2-Trichloroethane	50.0	ND	56.36	113	74-134	
Trichloroethene	50.0	ND	57.24	114	73-144	
Trichlorofluoromethane	50.0	ND	64.60	129	58-139	
1,1,2-Trichloro-1,2,2-trichfluoroethane	50.0	ND	64.37	129	72-148	
Vinyl chloride	50.0	341	382.8	84	56-129	E 4
Xylenes, Total	100	ND	99.18	99	74-141	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 1107-27.D

Lab ID: 490-39235-4 MSD Client ID: GP-11D-GW-001 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	250	299.3	120	9	21	45-141	
Benzene	50.0	55.40	111	5	17	75-133	
Bromochloromethane	50.0	57.66	115	2	17	67-139	
Bromodichloromethane	50.0	55.48	111	7	18	70-140	
Bromoform	50.0	53.77	108	6	16	42-147	
Bromomethane	50.0	40.23	80	32	50	16-163	
2-Butanone (MEK)	250	314.6	126	3	19	50-138	
Carbon disulfide	50.0	55.79	112	5	21	48-152	
Carbon tetrachloride	50.0	54.09	108	6	19	62-164	
Chlorobenzene	50.0	55.72	111	5	14	80-129	
Chlorodibromomethane	50.0	56.23	112	6	15	66-140	
Chloroethane	50.0	55.68	111	6	20	58-137	
Chloroform	50.0	52.30	105	4	18	66-138	
Chloromethane	50.0	50.49	101	5	31	10-169	
cis-1,2-Dichloroethene	50.0	56.12	98	4	17	68-138	
cis-1,3-Dichloropropene	50.0	52.26	105	5	15	71-141	
Cyclohexane	50.0	52.00	104	4	16	58-144	
1,2-Dibromo-3-Chloropropane	50.0	54.43	109	4	24	52-126	
1,2-Dibromoethane (EDB)	50.0	59.20	118	5	15	75-137	
1,2-Dichlorobenzene	50.0	56.76	114	5	15	79-128	
1,3-Dichlorobenzene	50.0	56.71	113	5	15	77-131	
1,4-Dichlorobenzene	50.0	55.45	111	4	15	78-126	
Dichlorodifluoromethane	50.0	53.32	107	5	18	40-127	
1,1-Dichloroethane	50.0	51.80	104	6	17	71-139	
1,2-Dichloroethane	50.0	55.35	111	7	17	64-136	
1,1-Dichloroethene	50.0	63.43	127	6	17	70-142	
1,2-Dichloropropane	50.0	51.21	102	6	17	67-131	
Ethylbenzene	50.0	52.75	105	5	15	79-139	
2-Hexanone	250	274.6	110	4	15	50-150	
Isopropylbenzene	50.0	55.87	112	6	16	80-153	
Methyl acetate	250	224.0	90	4	31	30-165	
Methylcyclohexane	50.0	66.21	132	6	19	59-151	
Methylene Chloride	50.0	57.89	116	5	17	64-139	
4-Methyl-2-pentanone (MIBK)	250	282.2	113	4	17	50-147	
Methyl tert-butyl ether	50.0	51.52	103	5	16	66-141	
N-Propylbenzene	50.0	53.99	108	5	17	69-142	
Styrene	50.0	52.64	105	4	24	61-148	
1,1,2,2-Tetrachloroethane	50.0	59.98	120	7	20	56-143	
Tetrachloroethene	50.0	59.50	119	5	16	72-145	
Tetrahydrofuran	100	95.07	95	2	18	34-133	
Toluene	50.0	52.52	105	5	15	75-136	
trans-1,2-Dichloroethene	50.0	52.83	106	4	16	66-143	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 1107-27.D

Lab ID: 490-39235-4 MSD Client ID: GP-11D-GW-001 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	50.0	52.82	106	5	14	59-135	
1,2,4-Trichlorobenzene	50.0	54.41	109	4	19	60-136	
1,1,1-Trichloroethane	50.0	56.36	113	4	17	76-149	
1,1,2-Trichloroethane	50.0	58.72	117	4	15	74-134	
Trichloroethene	50.0	60.19	120	5	17	73-144	
Trichlorofluoromethane	50.0	65.65	131	2	18	58-139	
1,1,2-Trichloro-1,2,2-trichfluoroethane	50.0	65.62	131	2	18	72-148	
Vinyl chloride	50.0	387.9	94	1	17	56-129	E 4
Xylenes, Total	100	104.1	104	5	15	74-141	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Lab File ID: 1107-06.D Lab Sample ID: MB 490-120093/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP45 Date Analyzed: 11/07/2013 12:42

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 490-120093/3	1107-03.D	11/07/2013 11:20
	LCSD 490-120093/4	1107-04.D	11/07/2013 11:47
Trip Blank	490-39235-9	1107-09.D	11/07/2013 14:19
EB	490-39235-8	1107-10.D	11/07/2013 14:46
GP-6D-GW-001	490-39235-1	1107-11.D	11/07/2013 15:14
GP-7D-GW-001	490-39235-2	1107-12.D	11/07/2013 15:41
GP-10D-GW-001	490-39235-3	1107-13.D	11/07/2013 16:08
GP-11D-GW-001	490-39235-4	1107-14.D	11/07/2013 16:36
GP-13A-GW-001	490-39235-6	1107-16.D	11/07/2013 17:30
GP-13A-GW-002	490-39235-7	1107-17.D	11/07/2013 17:57
GP-11D-GW-001 MS	490-39235-4 MS	1107-26.D	11/07/2013 22:03
GP-11D-GW-001 MSD	490-39235-4 MSD	1107-27.D	11/07/2013 22:31

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Lab File ID: 1108-34.D Lab Sample ID: MB 490-120479/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP45 Date Analyzed: 11/09/2013 22:53

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 490-120479/3	1108-31.D	11/09/2013 21:32
	LCSD 490-120479/4	1108-32.D	11/09/2013 21:59
GP-12A-GW-001	490-39235-5	1108-35.D	11/09/2013 23:21
GP-11D-GW-001	490-39235-4	1108-36.D	11/09/2013 23:48

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Lab File ID: 1010-05.D BFB Injection Date: 10/10/2013

Instrument ID: HP45 BFB Injection Time: 13:21

Analysis Batch No.: 113395

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.2	
75	30.0 - 60.0 % of mass 95	47.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	103.1	
175	5.0 - 9.0 % of mass 174	7.7	(7.5)1
176	95.0 - 101.0 % of mass 174	101.6	(98.5)1
177	5.0 - 9.0 % of mass 176	6.6	(6.5)2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD0005 490-113395/3	1010-07.D	10/10/2013	14:15
	STD001 490-113395/4	1010-08.D	10/10/2013	14:43
	STD002 490-113395/5	1010-09.D	10/10/2013	15:10
	STD005 490-113395/6	1010-10.D	10/10/2013	15:38
	STD010 490-113395/7	1010-11.D	10/10/2013	16:05
	STD020 490-113395/8	1010-12.D	10/10/2013	16:33
	ICIS 490-113395/9	1010-13.D	10/10/2013	17:00
	STD100 490-113395/10	1010-14.D	10/10/2013	17:27
	STD200 490-113395/11	1010-15.D	10/10/2013	17:55
	ICV 490-113395/14	1010-18.D	10/10/2013	19:17

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Lab File ID: 1107-01.D BFB Injection Date: 11/07/2013

Instrument ID: HP45 BFB Injection Time: 10:25

Analysis Batch No.: 120093

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.7	
75	30.0 - 60.0 % of mass 95	46.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	98.5	
175	5.0 - 9.0 % of mass 174	5.8	(5.9)1
176	95.0 - 101.0 % of mass 174	95.3	(96.8)1
177	5.0 - 9.0 % of mass 176	6.5	(6.8)2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-120093/2	1107-02.D	11/07/2013	10:53
	LCS 490-120093/3	1107-03.D	11/07/2013	11:20
	LCSD 490-120093/4	1107-04.D	11/07/2013	11:47
	MB 490-120093/6	1107-06.D	11/07/2013	12:42
Trip Blank	490-39235-9	1107-09.D	11/07/2013	14:19
EB	490-39235-8	1107-10.D	11/07/2013	14:46
GP-6D-GW-001	490-39235-1	1107-11.D	11/07/2013	15:14
GP-7D-GW-001	490-39235-2	1107-12.D	11/07/2013	15:41
GP-10D-GW-001	490-39235-3	1107-13.D	11/07/2013	16:08
GP-11D-GW-001	490-39235-4	1107-14.D	11/07/2013	16:36
GP-13A-GW-001	490-39235-6	1107-16.D	11/07/2013	17:30
GP-13A-GW-002	490-39235-7	1107-17.D	11/07/2013	17:57
GP-11D-GW-001 MS	490-39235-4 MS	1107-26.D	11/07/2013	22:03
GP-11D-GW-001 MSD	490-39235-4 MSD	1107-27.D	11/07/2013	22:31

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Lab File ID: 1108-29.D BFB Injection Date: 11/09/2013

Instrument ID: HP45 BFB Injection Time: 20:37

Analysis Batch No.: 120479

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.6	
75	30.0 - 60.0 % of mass 95	45.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	107.0	
175	5.0 - 9.0 % of mass 174	8.2	(7.7)1
176	95.0 - 101.0 % of mass 174	105.2	(98.3)1
177	5.0 - 9.0 % of mass 176	7.0	(6.6)2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-120479/2	1108-30.D	11/09/2013	21:04
	LCS 490-120479/3	1108-31.D	11/09/2013	21:32
	LCSD 490-120479/4	1108-32.D	11/09/2013	21:59
	MB 490-120479/6	1108-34.D	11/09/2013	22:53
GP-12A-GW-001	490-39235-5	1108-35.D	11/09/2013	23:21
GP-11D-GW-001	490-39235-4	1108-36.D	11/09/2013	23:48

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Sample No.: ICIS 490-113395/9 Date Analyzed: 10/10/2013 17:00

Instrument ID: HP45 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 1010-13.D Heated Purge: (Y/N) N

Calibration ID: 19584

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		310298	3.78	248281	6.11	144725	8.24
UPPER LIMIT		620596	4.28	496562	6.61	289450	8.74
LOWER LIMIT		155149	3.28	124141	5.61	72363	7.74
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 490-113395/14		300011	3.78	247496	6.11	145164	8.24
CCVIS 490-120093/2		349249	3.79	298840	6.11	179277	8.25
CCVIS 490-120479/2		348516	3.79	300503	6.11	181754	8.25

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Sample No.: CCVIS 490-120093/2 Date Analyzed: 11/07/2013 10:53

Instrument ID: HP45 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 1107-02.D Heated Purge: (Y/N) N

Calibration ID: 19584

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		349249	3.79	298840	6.11	179277	8.25
UPPER LIMIT		698498	4.29	597680	6.61	358554	8.75
LOWER LIMIT		174625	3.29	149420	5.61	89639	7.75
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 490-120093/3		349247	3.79	297262	6.11	176344	8.25
LCSD 490-120093/4		348218	3.79	295960	6.11	175581	8.25
MB 490-120093/6		358578	3.79	298145	6.11	178245	8.24
490-39235-9	Trip Blank	358973	3.79	298092	6.11	176464	8.24
490-39235-8	EB	359924	3.79	294540	6.11	174329	8.24
490-39235-1	GP-6D-GW-001	353949	3.79	293646	6.11	176546	8.25
490-39235-2	GP-7D-GW-001	351661	3.79	291324	6.11	173663	8.25
490-39235-3	GP-10D-GW-001	354444	3.79	289517	6.11	173905	8.25
490-39235-4	GP-11D-GW-001	348768	3.79	290143	6.11	174096	8.25
490-39235-6	GP-13A-GW-001	352481	3.79	291617	6.11	175196	8.24
490-39235-7	GP-13A-GW-002	345184	3.79	284073	6.11	171601	8.25
490-39235-4 MS	GP-11D-GW-001 MS	338550	3.79	286901	6.11	174331	8.25
490-39235-4 MSD	GP-11D-GW-001 MSD	330355	3.79	280147	6.11	170068	8.25

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Sample No.: CCVIS 490-120479/2 Date Analyzed: 11/09/2013 21:04

Instrument ID: HP45 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 1108-30.D Heated Purge: (Y/N) N

Calibration ID: 19584

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		348516	3.79	300503	6.11	181754	8.25
UPPER LIMIT		697032	4.29	601006	6.61	363508	8.75
LOWER LIMIT		174258	3.29	150252	5.61	90877	7.75
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 490-120479/3		347548	3.79	301216	6.11	182482	8.25
LCSD 490-120479/4		347504	3.79	301960	6.11	181582	8.25
MB 490-120479/6		360100	3.79	301132	6.11	178650	8.25
490-39235-5	GP-12A-GW-001	358982	3.79	297773	6.11	180361	8.25
490-39235-4	GP-11D-GW-001	359230	3.79	299573	6.11	177514	8.24

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: GP-6D-GW-001 | Lab Sample ID: 490-39235-1

Matrix: Water | Lab File ID: 1107-11.D

Analysis Method: 8260B | Date Collected: 10/28/2013 12:26

Sample wt/vol: 5(mL) | Date Analyzed: 11/07/2013 15:14

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND		1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	ND		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: GP-6D-GW-001 | Lab Sample ID: 490-39235-1

Matrix: Water | Lab File ID: 1107-11.D

Analysis Method: 8260B | Date Collected: 10/28/2013 12:26

Sample wt/vol: 5(mL) | Date Analyzed: 11/07/2013 15:14

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND		5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND		1.00	0.200
75-69-4	Trichlorofluoromethane	ND	*	1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		1.00	0.330
75-01-4	Vinyl chloride	0.528	J	1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-11.D		
Lims ID:	490-39235-A-1	Client ID:	GP-6D-GW-001
Inject. Date:	07-Nov-2013 15:14:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	490-39235-A-1		
Misc. Info.:	490-0028020-011		
Operator:	BJM HP45	Instrument ID:	HP45
Purge Vol:	5.000 mL	ALS Bottle#:	11
Lims Batch ID:	120093	Lims Sample ID:	11
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP45\20131107-28020.b\8260HP45.m		
Method Label:	8260B Volatile Organics 8260/SA/NV05-90		
Last Update:	08-Nov-2013 10:40:22	Calib Date:	10-Oct-2013 17:55:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK053		
First Level Reviewer: matlockbe		Date:	08-Nov-2013 10:41:39

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.790	3.789	0.001	99	353949	50.0	
* 2 Chlorobenzene-d5	117	6.109	6.114	-0.005	83	293646	50.0	
* 3 1,4-Dichlorobenzene-d4	152	8.247	8.247	0.0	92	176546	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.343	3.348	-0.005	55	88180	49.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.569	3.569	0.0	89	102729	50.3	
$ 6 Toluene-d8 (Surr)	98	4.927	4.932	-0.005	83	359434	48.1	
$ 8 4-Bromofluorobenzene (Surr)	95	7.161	7.161	0.0	96	137051	46.0	
11 Vinyl chloride	62	1.391	1.391	0.0	12	1395	0.5281	

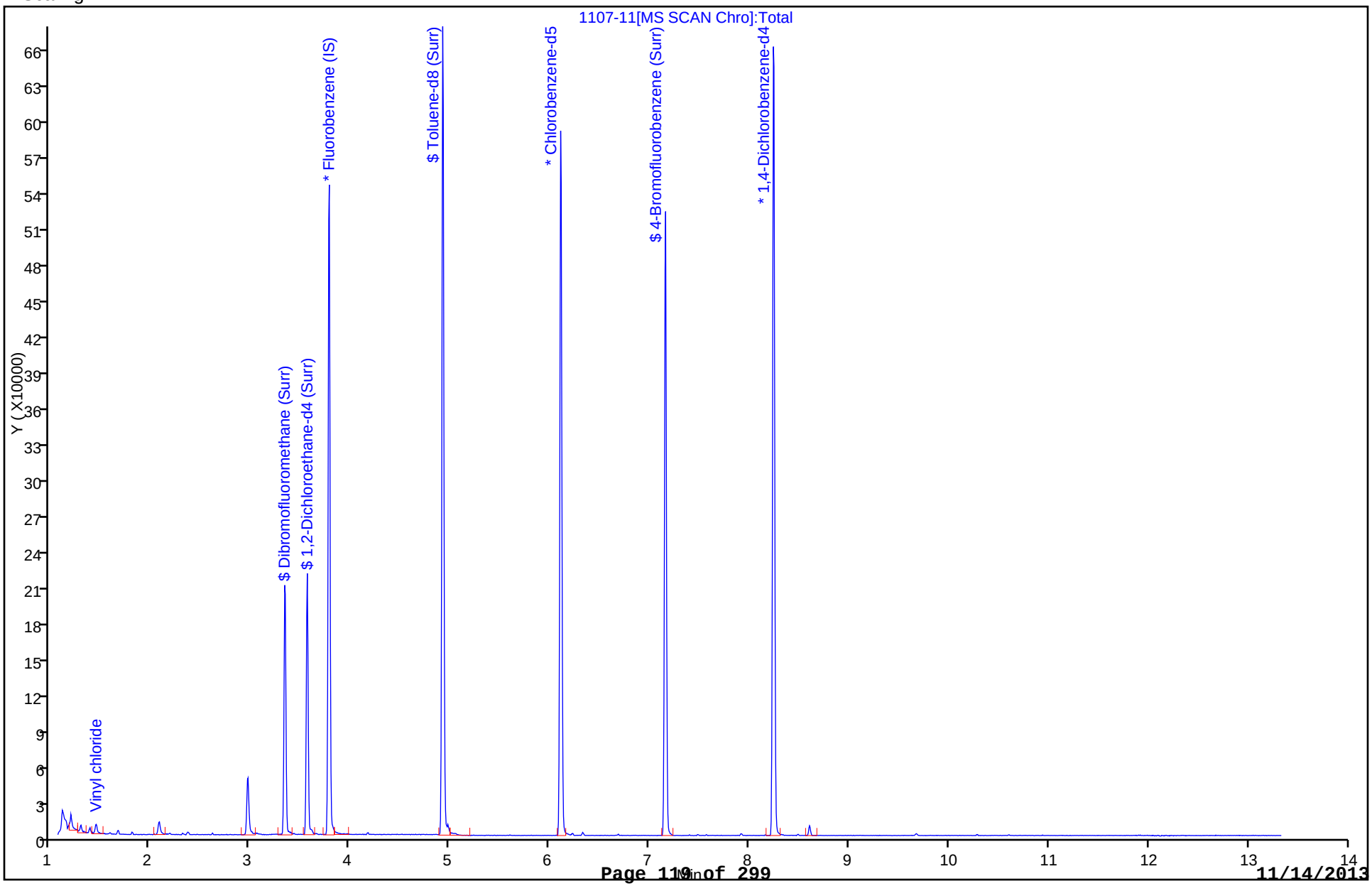
Report Date: 08-Nov-2013 10:41:40 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-11.D

Injection Date:	07-Nov-2013 15:14:30	Limit Group:	MSV 8260B ICAL
Client ID:	GP-6D-GW-001	Instrument ID:	HP45
Lims Batch ID:	120093	Lims Sample ID:	11
Operator ID:	BJM HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



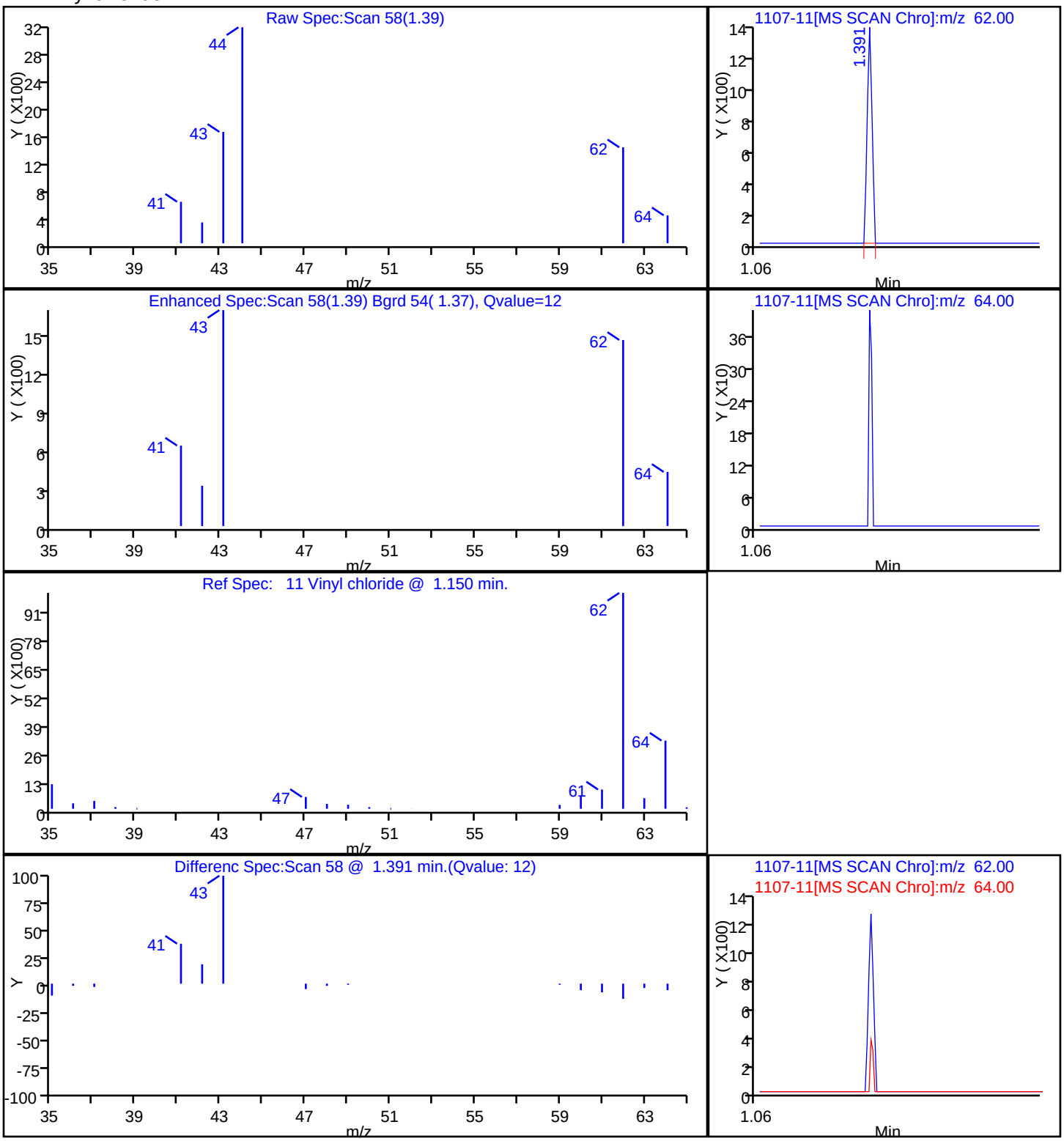
Report Date: 08-Nov-2013 10:41:40 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-11.D

Injection Date:	07-Nov-2013 15:14:30	Limit Group:	MSV 8260B ICAL
Client ID:	GP-6D-GW-001	Instrument ID:	HP45
Lims Batch ID:	120093	Lims Sample ID:	11
Operator ID:	BJM HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

11 Vinyl chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: GP-7D-GW-001 | Lab Sample ID: 490-39235-2

Matrix: Water | Lab File ID: 1107-12.D

Analysis Method: 8260B | Date Collected: 10/28/2013 11:07

Sample wt/vol: 5(mL) | Date Analyzed: 11/07/2013 15:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	0.405	J	1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND		1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	1.09		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: GP-7D-GW-001 | Lab Sample ID: 490-39235-2

Matrix: Water | Lab File ID: 1107-12.D

Analysis Method: 8260B | Date Collected: 10/28/2013 11:07

Sample wt/vol: 5(mL) | Date Analyzed: 11/07/2013 15:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND		5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND		1.00	0.200
75-69-4	Trichlorofluoromethane	ND	*	1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		1.00	0.330
75-01-4	Vinyl chloride	31.7		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-12.D		
Lims ID:	490-39235-A-2	Client ID:	GP-7D-GW-001
Inject. Date:	07-Nov-2013 15:41:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	490-39235-A-2		
Misc. Info.:	490-0028020-012		
Operator:	BJM HP45	Instrument ID:	HP45
Purge Vol:	5.000 mL	ALS Bottle#:	12
Lims Batch ID:	120093	Lims Sample ID:	12
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP45\20131107-28020.b\8260HP45.m		
Method Label:	8260B Volatile Organics 8260/SA/NV05-90		
Last Update:	08-Nov-2013 10:40:22	Calib Date:	10-Oct-2013 17:55:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK053		
First Level Reviewer: matlockbe		Date:	08-Nov-2013 10:42:12

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.790	3.789	0.001	99	351661	50.0	
* 2 Chlorobenzene-d5	117	6.109	6.114	-0.005	83	291324	50.0	
* 3 1,4-Dichlorobenzene-d4	152	8.247	8.247	0.0	92	173663	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.343	3.348	-0.005	55	87330	49.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.569	3.569	0.0	90	101193	49.9	
$ 6 Toluene-d8 (Surr)	98	4.927	4.932	-0.005	83	356650	48.1	
$ 8 4-Bromofluorobenzene (Surr)	95	7.155	7.161	-0.006	96	135421	46.2	
11 Vinyl chloride	62	1.391	1.391	0.0	84	83094	31.7	
25 Carbon disulfide	76	2.194	2.194	0.0	62	2628	0.4055	
41 cis-1,2-Dichloroethene	61	3.054	3.054	0.0	47	4397	1.09	
85 m-Xylene & p-Xylene	91	6.329	6.335	-0.006	19	2685	0.2749	
S 120 Xylenes, Total	1				0		0.2749	

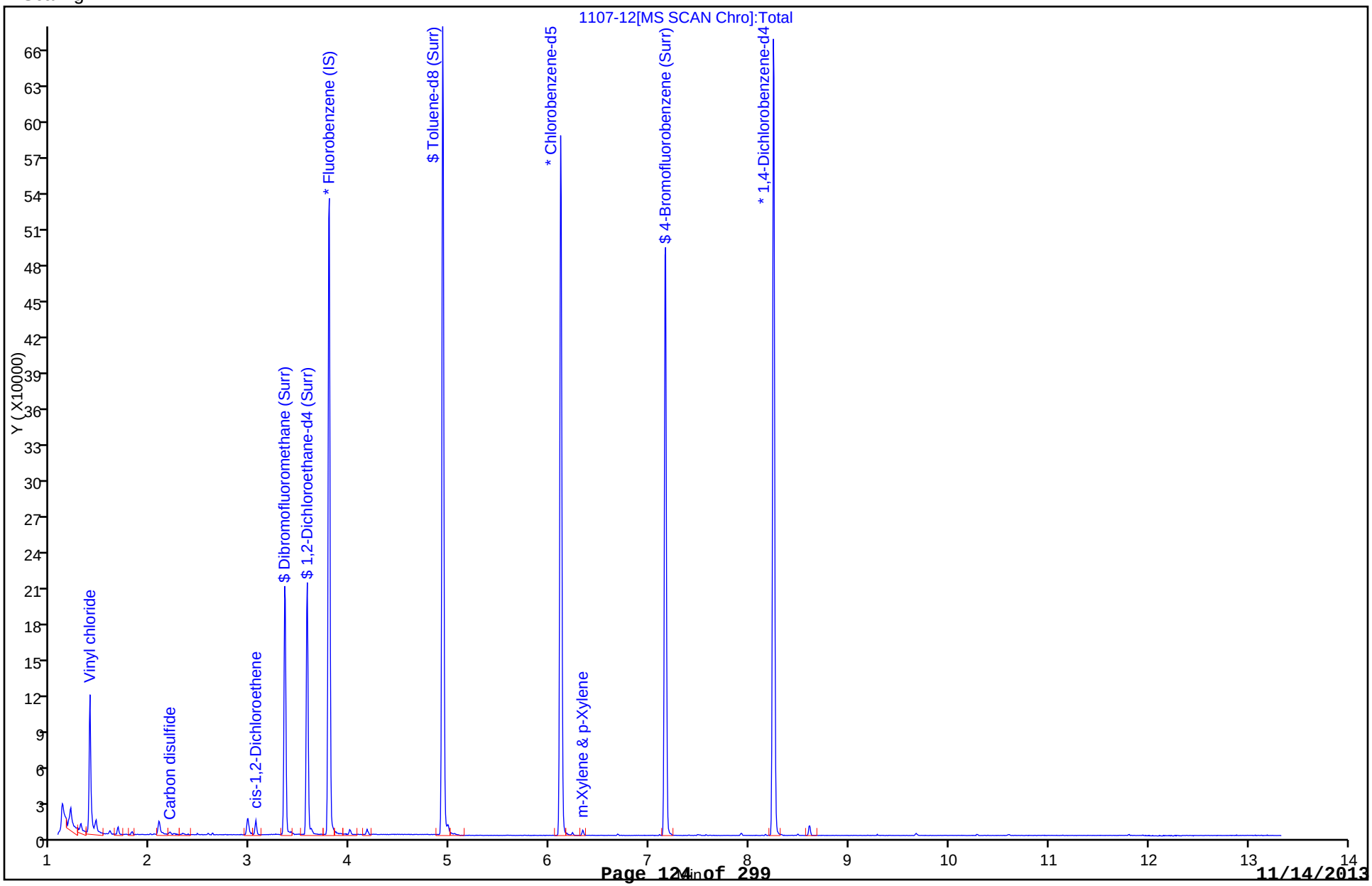
Report Date: 08-Nov-2013 10:42:13 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-12.D

Injection Date:	07-Nov-2013 15:41:30	Limit Group:	MSV 8260B ICAL
Client ID:	GP-7D-GW-001	Instrument ID:	HP45
Lims Batch ID:	120093	Lims Sample ID:	12
Operator ID:	BJM HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



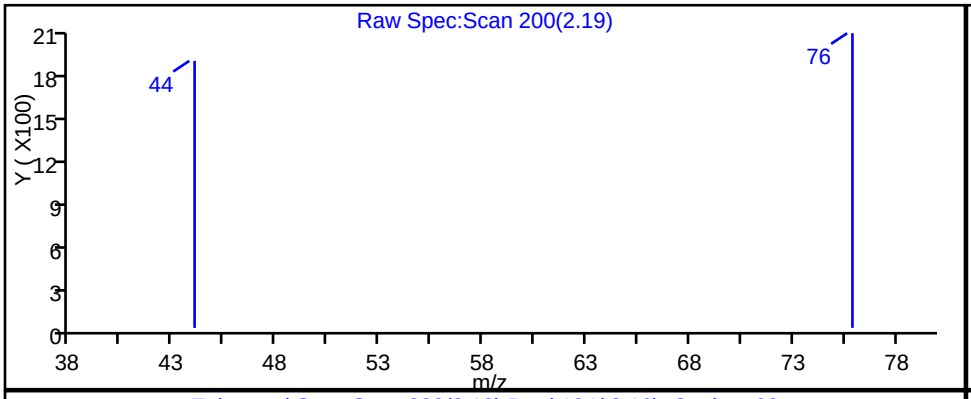
Report Date: 08-Nov-2013 10:42:13 Chrom Revision: 2.0 01-Apr-2013 21:16:10

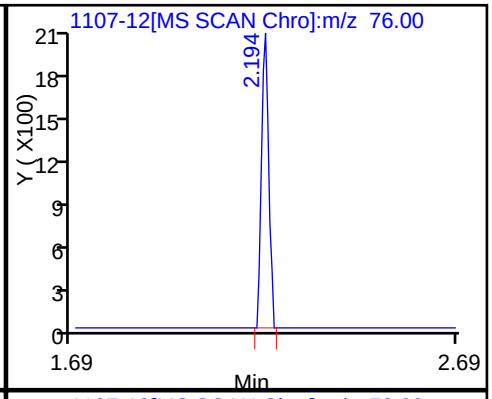
TestAmerica Nashville

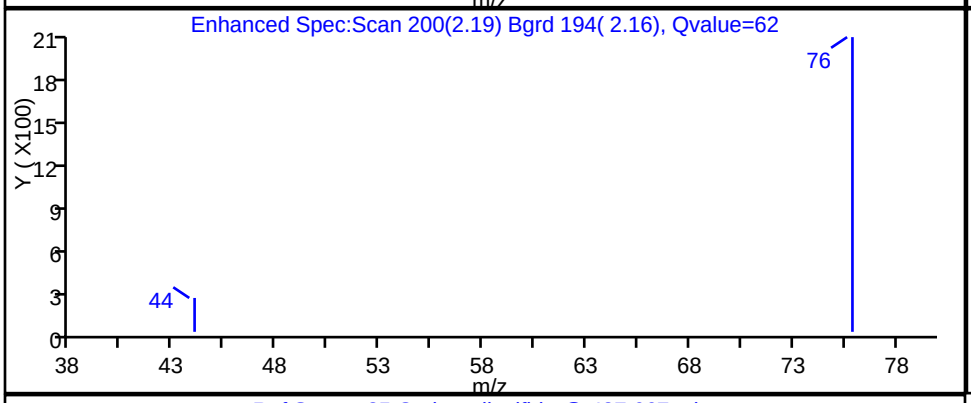
Data File: \\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-12.D

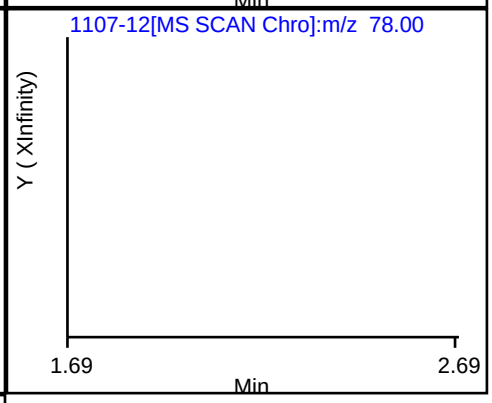
Injection Date:	07-Nov-2013 15:41:30	Limit Group:	MSV 8260B ICAL
Client ID:	GP-7D-GW-001	Instrument ID:	HP45
Lims Batch ID:	120093	Lims Sample ID:	12
Operator ID:	BJM HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

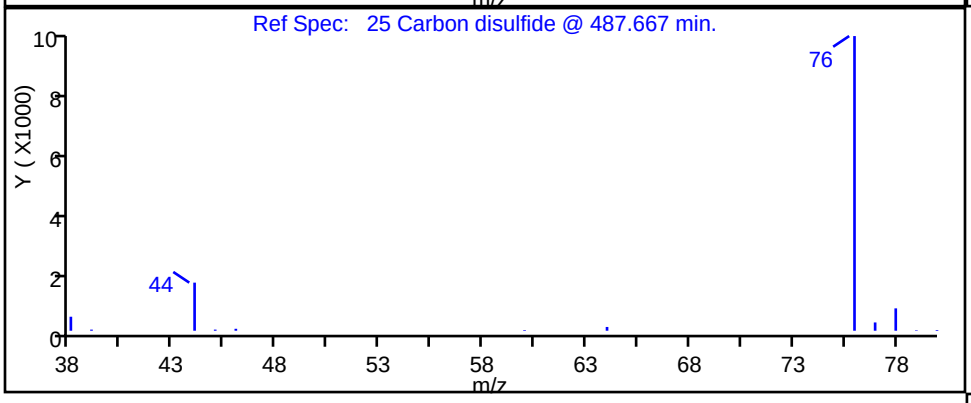
25 Carbon disulfide

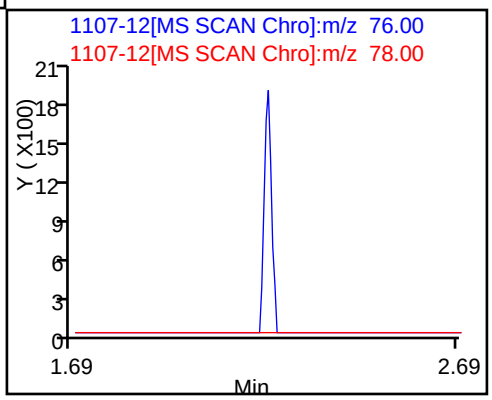












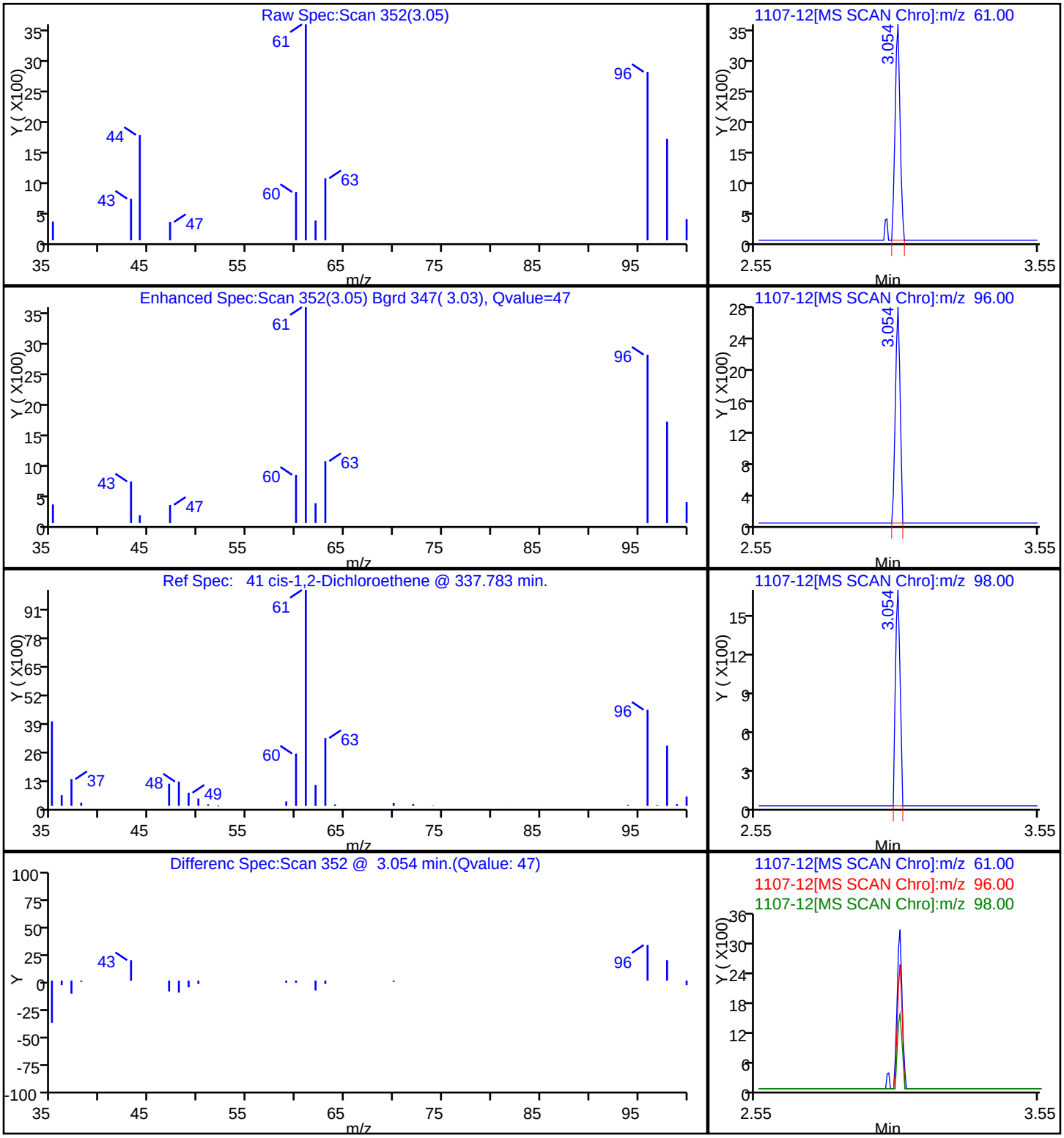
Report Date: 08-Nov-2013 10:42:13 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-12.D

Injection Date:	07-Nov-2013 15:41:30	Limit Group:	MSV 8260B ICAL
Client ID:	GP-7D-GW-001	Instrument ID:	HP45
Lims Batch ID:	120093	Lims Sample ID:	12
Operator ID:	BJM HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

41 cis-1,2-Dichloroethene



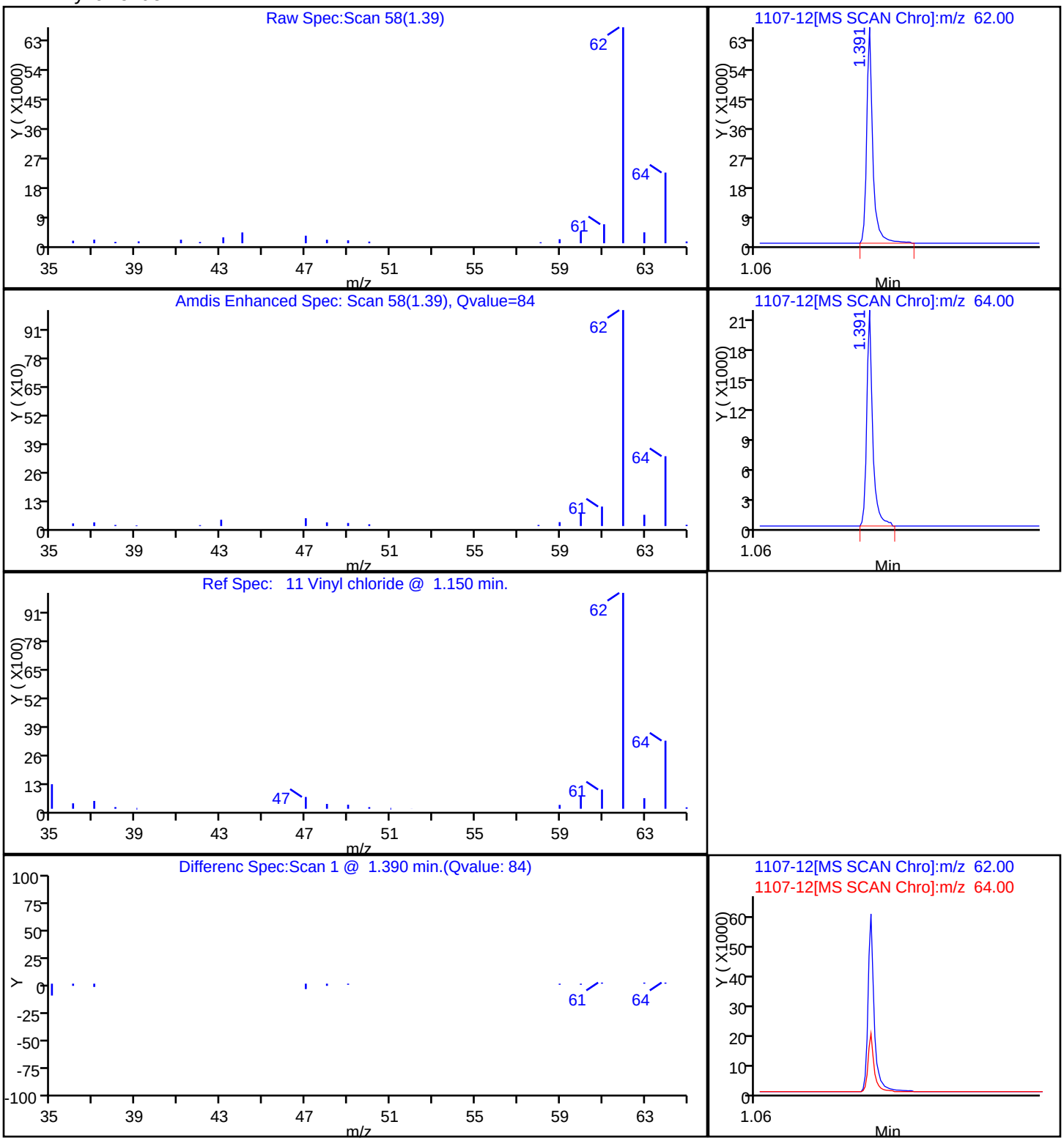
Report Date: 08-Nov-2013 10:42:13 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-12.D

Injection Date:	07-Nov-2013 15:41:30	Limit Group:	MSV 8260B ICAL
Client ID:	GP-7D-GW-001	Instrument ID:	HP45
Lims Batch ID:	120093	Lims Sample ID:	12
Operator ID:	BJM HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

11 Vinyl chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: GP-10D-GW-001 | Lab Sample ID: 490-39235-3

Matrix: Water | Lab File ID: 1107-13.D

Analysis Method: 8260B | Date Collected: 10/28/2013 14:40

Sample wt/vol: 5(mL) | Date Analyzed: 11/07/2013 16:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND		1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	ND		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: GP-10D-GW-001 | Lab Sample ID: 490-39235-3

Matrix: Water | Lab File ID: 1107-13.D

Analysis Method: 8260B | Date Collected: 10/28/2013 14:40

Sample wt/vol: 5(mL) | Date Analyzed: 11/07/2013 16:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND		5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND		1.00	0.200
75-69-4	Trichlorofluoromethane	ND	*	1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		1.00	0.330
75-01-4	Vinyl chloride	ND		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	97		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-13.D		
Lims ID:	490-39235-A-3	Client ID:	GP-10D-GW-001
Inject. Date:	07-Nov-2013 16:08:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	490-39235-A-3		
Misc. Info.:	490-0028020-013		
Operator:	BJM HP45	Instrument ID:	HP45
Purge Vol:	5.000 mL	ALS Bottle#:	13
Lims Batch ID:	120093	Lims Sample ID:	13
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP45\20131107-28020.b\8260HP45.m		
Method Label:	8260B Volatile Organics 8260/SA/NV05-90		
Last Update:	08-Nov-2013 10:40:22	Calib Date:	10-Oct-2013 17:55:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK053		
First Level Reviewer: matlockbe		Date:	08-Nov-2013 10:42:23

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.789	3.789	0.0	99	354444	50.0	
* 2 Chlorobenzene-d5	117	6.109	6.114	-0.005	83	289517	50.0	
* 3 1,4-Dichlorobenzene-d4	152	8.247	8.247	0.0	92	173905	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.342	3.348	-0.006	55	88529	50.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.569	3.569	0.0	89	101465	49.6	
$ 6 Toluene-d8 (Surr)	98	4.926	4.932	-0.006	83	357381	48.5	
$ 8 4-Bromofluorobenzene (Surr)	95	7.161	7.161	0.0	96	134370	45.8	

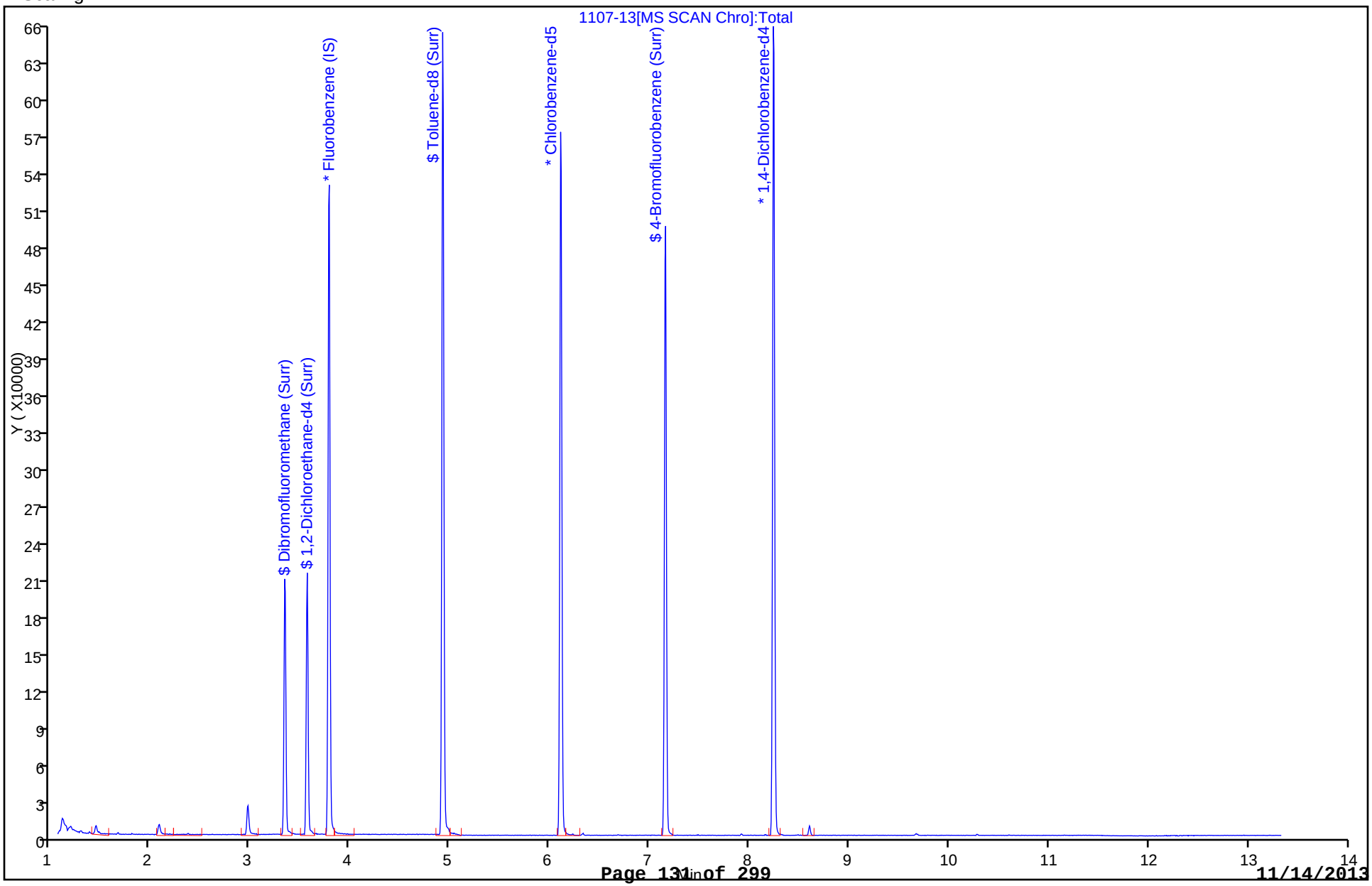
Report Date: 08-Nov-2013 10:42:23 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-13.D

Injection Date:	07-Nov-2013 16:08:30	Limit Group:	MSV 8260B ICAL
Client ID:	GP-10D-GW-001	Instrument ID:	HP45
Lims Batch ID:	120093	Lims Sample ID:	13
Operator ID:	BJM HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: GP-11D-GW-001 | Lab Sample ID: 490-39235-4

Matrix: Water | Lab File ID: 1107-14.D

Analysis Method: 8260B | Date Collected: 10/28/2013 15:51

Sample wt/vol: 5(mL) | Date Analyzed: 11/07/2013 16:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND		1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	7.04		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: GP-11D-GW-001 | Lab Sample ID: 490-39235-4

Matrix: Water | Lab File ID: 1107-14.D

Analysis Method: 8260B | Date Collected: 10/28/2013 15:51

Sample wt/vol: 5(mL) | Date Analyzed: 11/07/2013 16:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND		5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND		1.00	0.200
75-69-4	Trichlorofluoromethane	ND	*	1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		1.00	0.330
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	97		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-14.D
Lims ID: 490-39235-A-4 Client ID: GP-11D-GW-001
Inject. Date: 07-Nov-2013 16:36:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 490-39235-A-4
Misc. Info.: 490-0028020-014
Operator: BJM HP45 Instrument ID: HP45
Purge Vol: 5.000 mL ALS Bottle#: 14
Lims Batch ID: 120093 Lims Sample ID: 14
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP45\20131107-28020.b\8260HP45.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 08-Nov-2013 10:40:22 Calib Date: 10-Oct-2013 17:55:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK053

First Level Reviewer: matlockbe Date: 08-Nov-2013 10:43:53

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.789	3.789	0.0	99	348768	50.0	
* 2 Chlorobenzene-d5	117	6.109	6.114	-0.005	83	290143	50.0	
* 3 1,4-Dichlorobenzene-d4	152	8.247	8.247	0.0	92	174096	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.343	3.348	-0.005	56	85990	49.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.569	3.569	0.0	89	100476	49.9	
$ 6 Toluene-d8 (Surr)	98	4.927	4.932	-0.005	83	356756	48.3	
$ 8 4-Bromofluorobenzene (Surr)	95	7.161	7.161	0.0	96	135223	46.0	
11 Vinyl chloride	62	1.391	1.391	0.0	84	887566	341.0	E
41 cis-1,2-Dichloroethene	61	3.054	3.054	0.0	64	28265	7.04	
S 121 1,2-Dichloroethene, Total	1				0		7.04	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

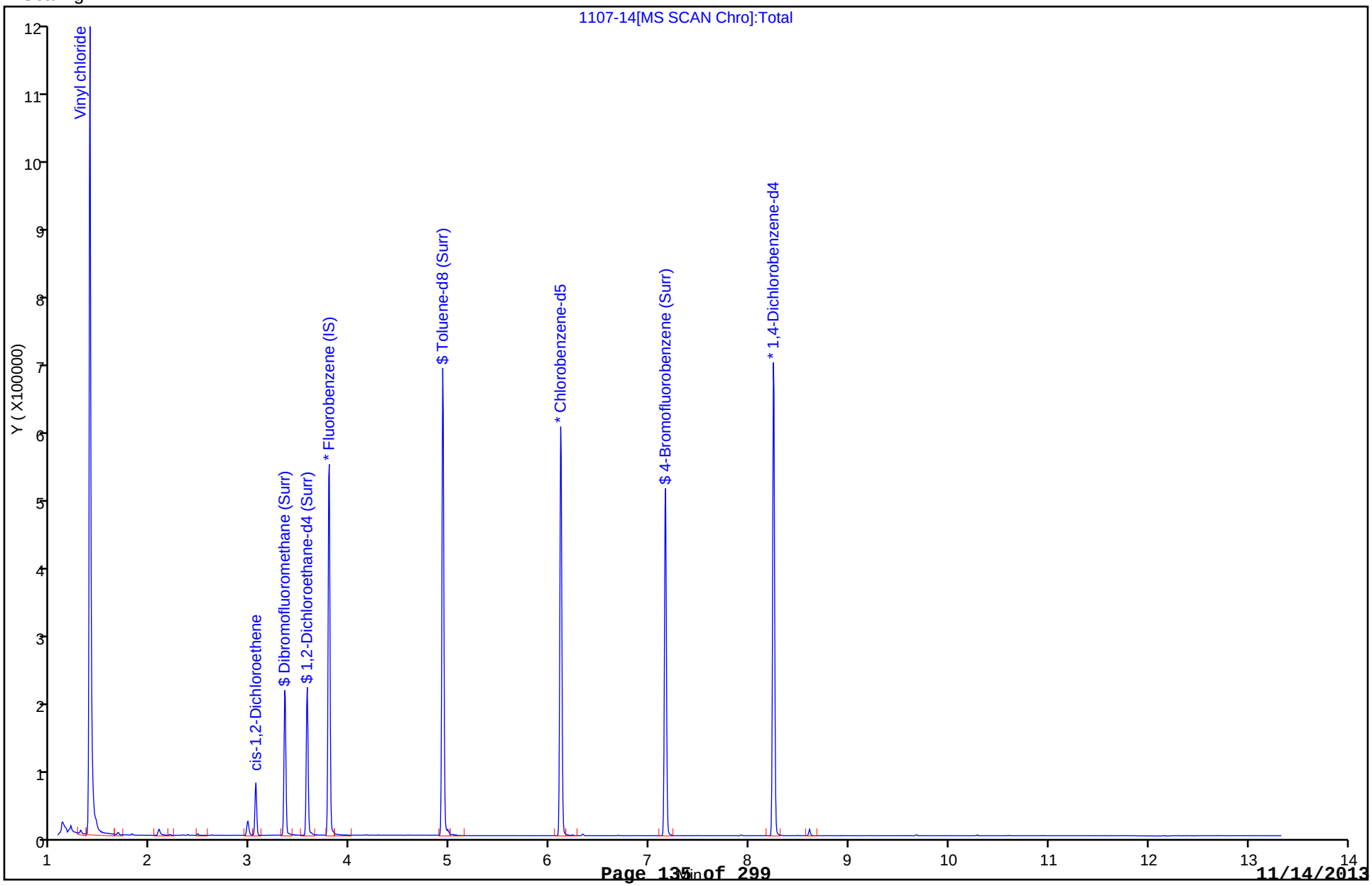
Report Date: 08-Nov-2013 10:43:54 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-14.D

Injection Date:	07-Nov-2013 16:36:30	Limit Group:	MSV 8260B ICAL
Client ID:	GP-11D-GW-001	Instrument ID:	HP45
Lims Batch ID:	120093	Lims Sample ID:	14
Operator ID:	BJM HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



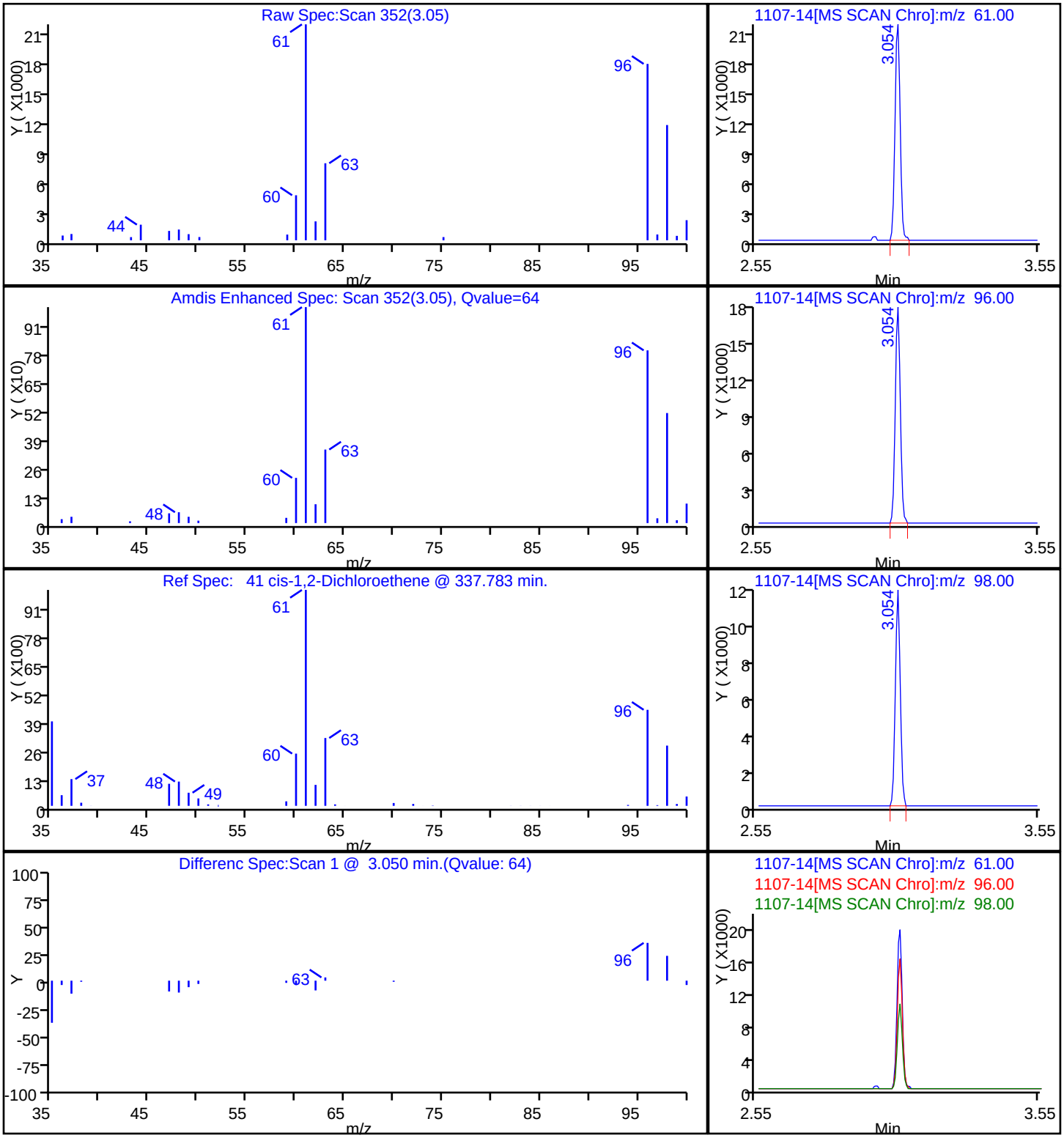
Report Date: 08-Nov-2013 10:43:54 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-14.D

Injection Date:	07-Nov-2013 16:36:30	Limit Group:	MSV 8260B ICAL
Client ID:	GP-11D-GW-001	Instrument ID:	HP45
Lims Batch ID:	120093	Lims Sample ID:	14
Operator ID:	BJM HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

41 cis-1,2-Dichloroethene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: GP-11D-GW-001 | Lab Sample ID: 490-39235-4

Matrix: Water | Lab File ID: 1108-36.D

Analysis Method: 8260B | Date Collected: 10/28/2013 15:51

Sample wt/vol: 5(mL) | Date Analyzed: 11/09/2013 23:48

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120479 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	301		5.00	0.900

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	95		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP45\20131108-28107.b\1108-36.D
Lims ID: 490-39235-B-4 Lab Sample ID:
Client ID: GP-11D-GW-001
Sample Type: Client
Inject. Date: 09-Nov-2013 23:48:30 ALS Bottle#: 36 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Sample Info: 490-39235-B-4
Misc. Info.: 490-0028107-008
Operator ID: BJM HP45 Instrument ID: HP45

Method: \\Nvlchrom\ChromData\HP45\20131108-28107.b\8260HP45.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 11-Nov-2013 13:20:16 Calib Date: 10-Oct-2013 17:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D

Column 1 : Detector MS SCAN
Process Host: XAWRK019

First Level Reviewer: matlockbe Date: 11-Nov-2013 13:20:53

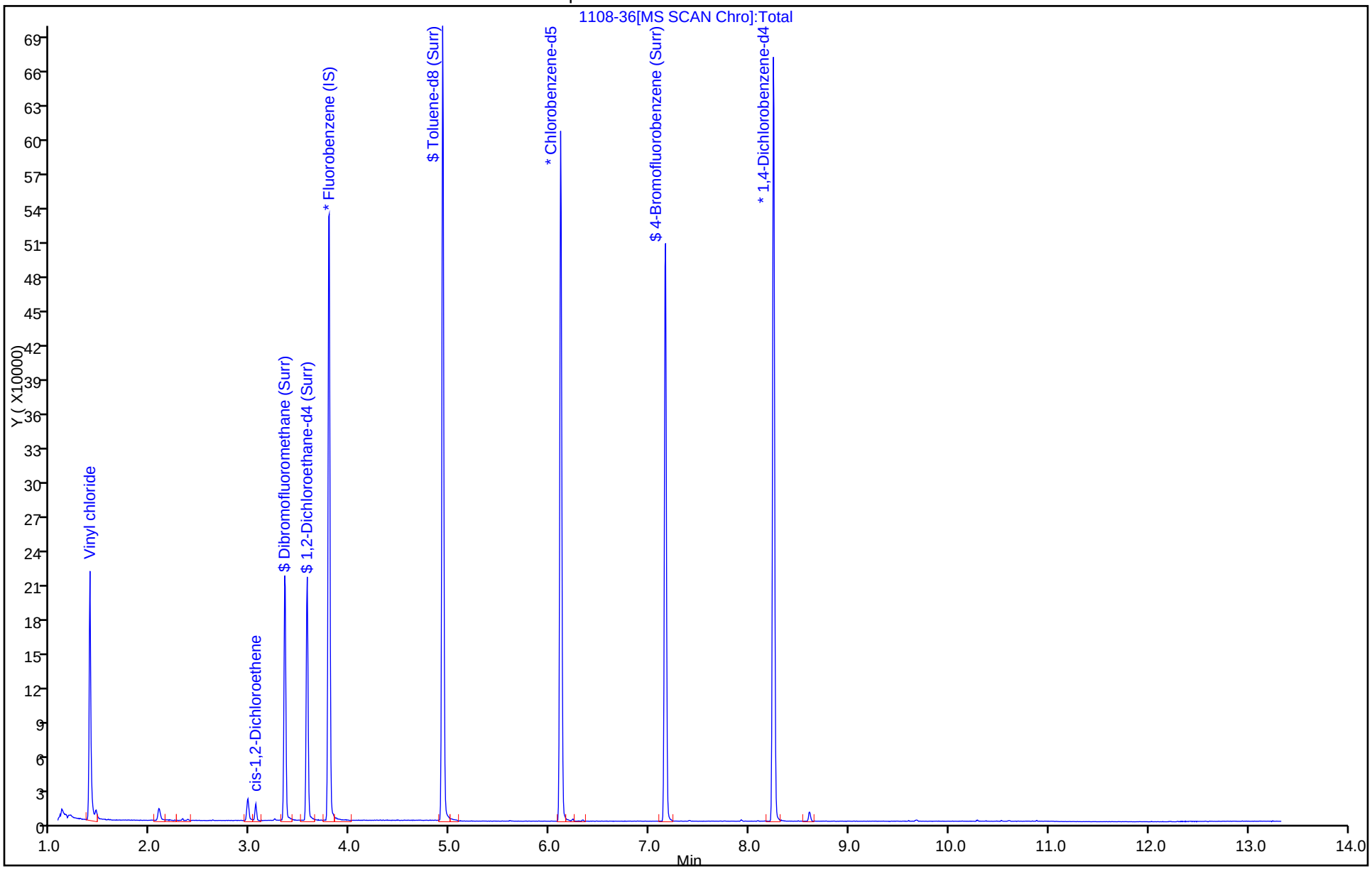
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.789	3.789	0.0	99	359230	50.0	
* 2 Chlorobenzene-d5	117	6.108	6.108	0.0	83	299573	50.0	
* 3 1,4-Dichlorobenzene-d4	152	8.241	8.247	-0.006	93	177514	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.342	3.342	0.0	56	89187	49.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.569	3.568	0.001	92	102169	49.3	
$ 6 Toluene-d8 (Surr)	98	4.926	4.926	0.0	83	362672	47.6	
$ 8 4-Bromofluorobenzene (Surr)	95	7.161	7.161	0.0	96	137763	46.0	
11 Vinyl chloride	62	1.391	1.391	0.0	84	161392	60.2	
41 cis-1,2-Dichloroethene	61	3.054	3.054	0.0	26	5798	1.40	

Report Date: 11-Nov-2013 13:20:53 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131108-28107.b\1108-36.D

Injection Date:	09-Nov-2013 23:48:30	Instrument ID:	HP45	Operator ID:	BJM HP45
Lims ID:	490-39235-B-4	Lab Sample ID:		Worklist Smp#:	8
Client ID:	GP-11D-GW-001				
Purge Vol:	5.000 mL	Dil. Factor:	5.0000	ALS Bottle#:	36
Method:	8260HP45	Limit Group:	MSV 8260B ICAL		



Report Date: 11-Nov-2013 13:20:53 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131108-28107.b\1108-36.D

Injection Date: 09-Nov-2013 23:48:30 Instrument ID: HP45

Lims ID: 490-39235-B-4 Lab Sample ID:

Client ID: GP-11D-GW-001

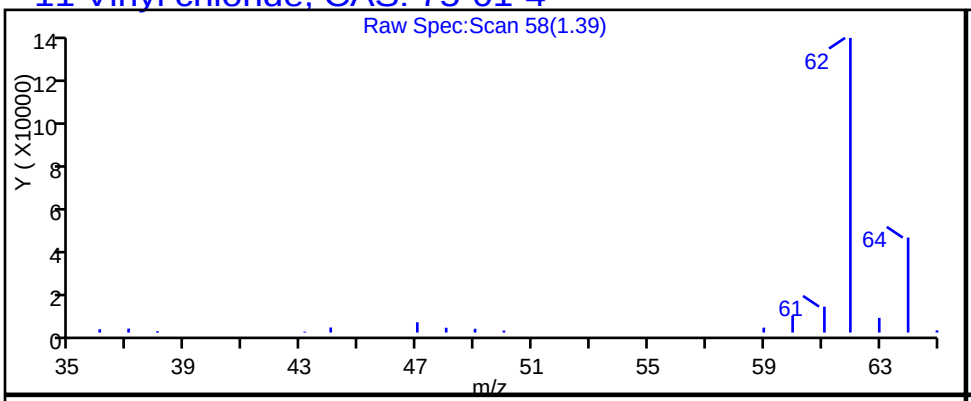
Operator ID: BJM HP45 ALS Bottle#: 36 Worklist Smp#: 8

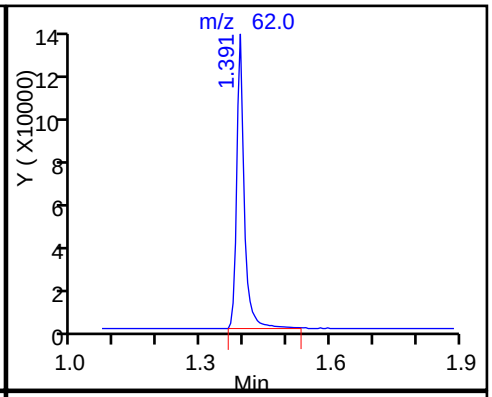
Purge Vol: 5.000 mL Dil. Factor: 5.0000

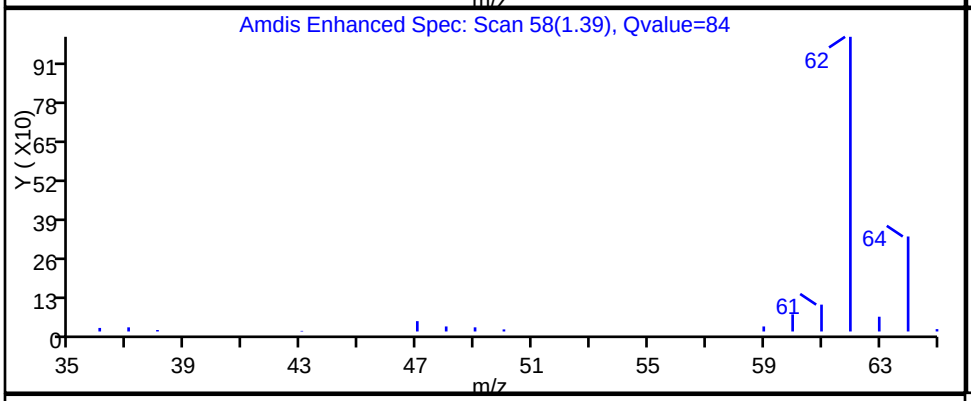
Method: 8260HP45 Limit Group: MSV 8260B ICAL

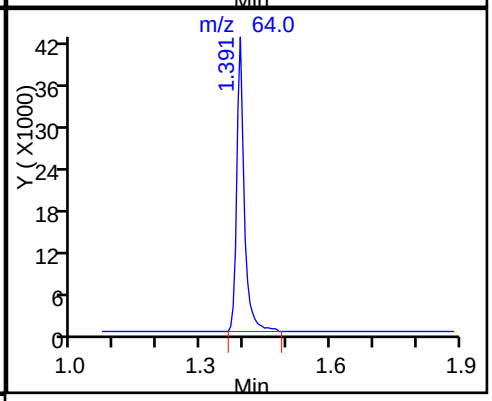
Column: Detector MS SCAN

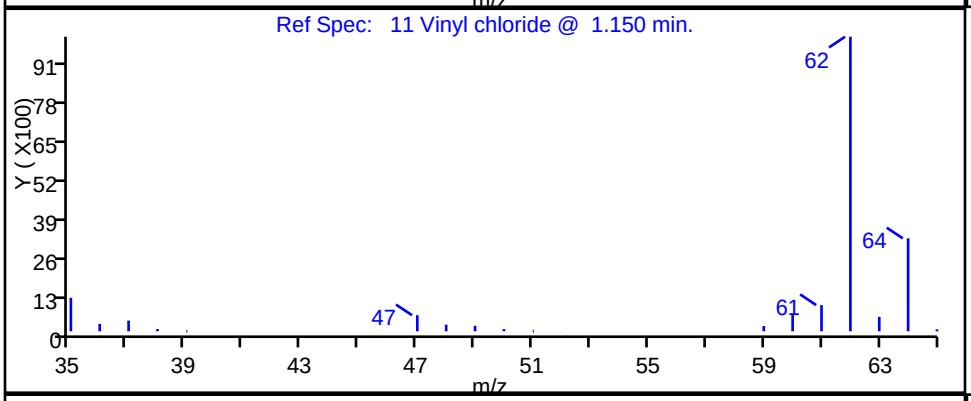
11 Vinyl chloride, CAS: 75-01-4

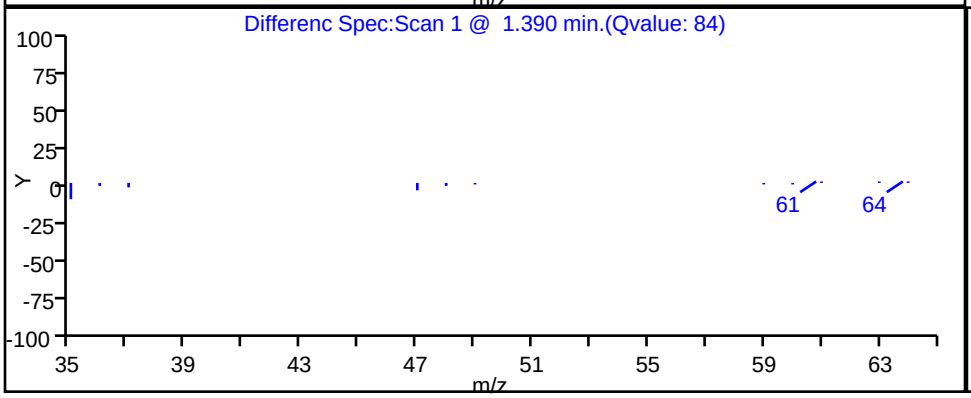


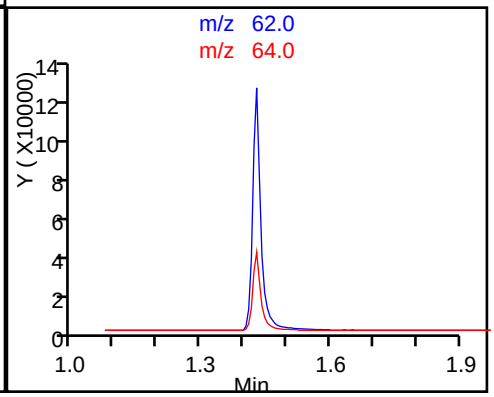












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: GP-12A-GW-001 | Lab Sample ID: 490-39235-5

Matrix: Water | Lab File ID: 1108-35.D

Analysis Method: 8260B | Date Collected: 10/29/2013 09:47

Sample wt/vol: 5(mL) | Date Analyzed: 11/09/2013 23:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120479 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	72.8		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	0.527	J	1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND		1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	2.21		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: GP-12A-GW-001 | Lab Sample ID: 490-39235-5

Matrix: Water | Lab File ID: 1108-35.D

Analysis Method: 8260B | Date Collected: 10/29/2013 09:47

Sample wt/vol: 5(mL) | Date Analyzed: 11/09/2013 23:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120479 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND		5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND	*	1.00	0.200
75-69-4	Trichlorofluoromethane	ND		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		1.00	0.330
75-01-4	Vinyl chloride	11.9		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP45\20131108-28107.b\1108-35.D
Lims ID: 490-39235-B-5 Lab Sample ID:
Client ID: GP-12A-GW-001
Sample Type: Client
Inject. Date: 09-Nov-2013 23:21:30 ALS Bottle#: 35 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 490-39235-B-5
Misc. Info.: 490-0028107-007
Operator ID: BJM HP45 Instrument ID: HP45

Method: \\Nvlchrom\ChromData\HP45\20131108-28107.b\8260HP45.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 11-Nov-2013 13:20:16 Calib Date: 10-Oct-2013 17:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D

Column 1 : Detector MS SCAN
Process Host: XAWRK019

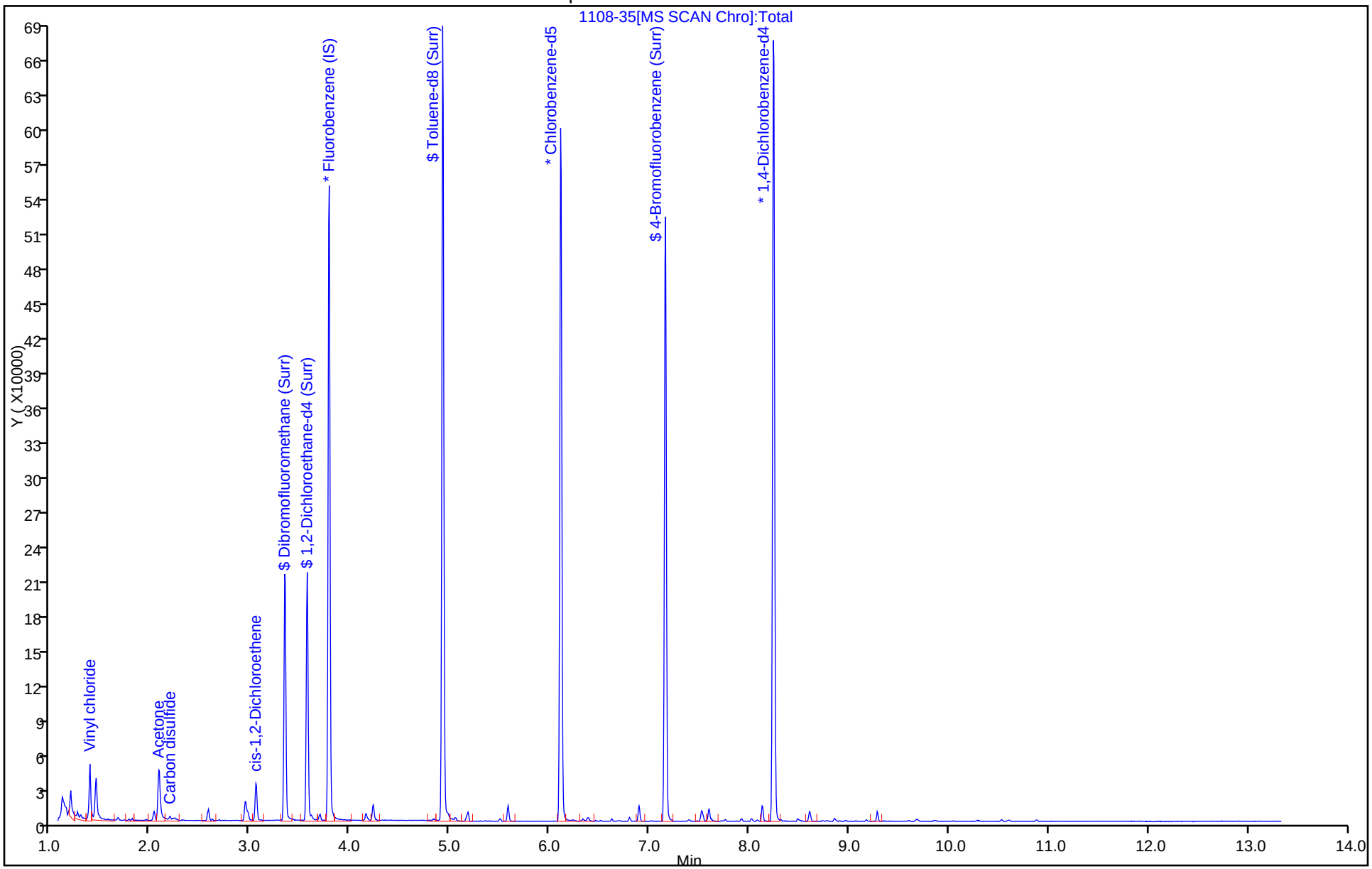
First Level Reviewer: matlockbe Date: 11-Nov-2013 13:20:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.789	3.789	0.0	99	358982	50.0	
* 2 Chlorobenzene-d5	117	6.108	6.108	0.0	82	297773	50.0	
* 3 1,4-Dichlorobenzene-d4	152	8.247	8.247	0.0	92	180361	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.342	3.342	0.0	55	89506	50.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.568	3.568	0.0	89	101450	49.0	
$ 6 Toluene-d8 (Surr)	98	4.926	4.926	0.0	84	362596	47.9	
$ 8 4-Bromofluorobenzene (Surr)	95	7.161	7.161	0.0	92	140278	46.1	
11 Vinyl chloride	62	1.391	1.391	0.0	96	31956	11.9	
22 Acetone	58	2.081	2.081	0.0	99	16349	72.8	
25 Carbon disulfide	76	2.194	2.194	0.0	77	3484	0.5266	
41 cis-1,2-Dichloroethene	61	3.054	3.054	0.0	55	9126	2.21	

Report Date: 11-Nov-2013 13:20:46 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP45\20131108-28107.b\1108-35.D				
Injection Date:	09-Nov-2013 23:21:30	Instrument ID:	HP45	Operator ID:	BJM HP45
Lims ID:	490-39235-B-5	Lab Sample ID:		Worklist Smp#:	7
Client ID:	GP-12A-GW-001				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	35
Method:	8260HP45	Limit Group:	MSV 8260B ICAL		



Report Date: 11-Nov-2013 13:20:46 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131108-28107.b\1108-35.D

Injection Date: 09-Nov-2013 23:21:30 Instrument ID: HP45

Lims ID: 490-39235-B-5 Lab Sample ID:

Client ID: GP-12A-GW-001

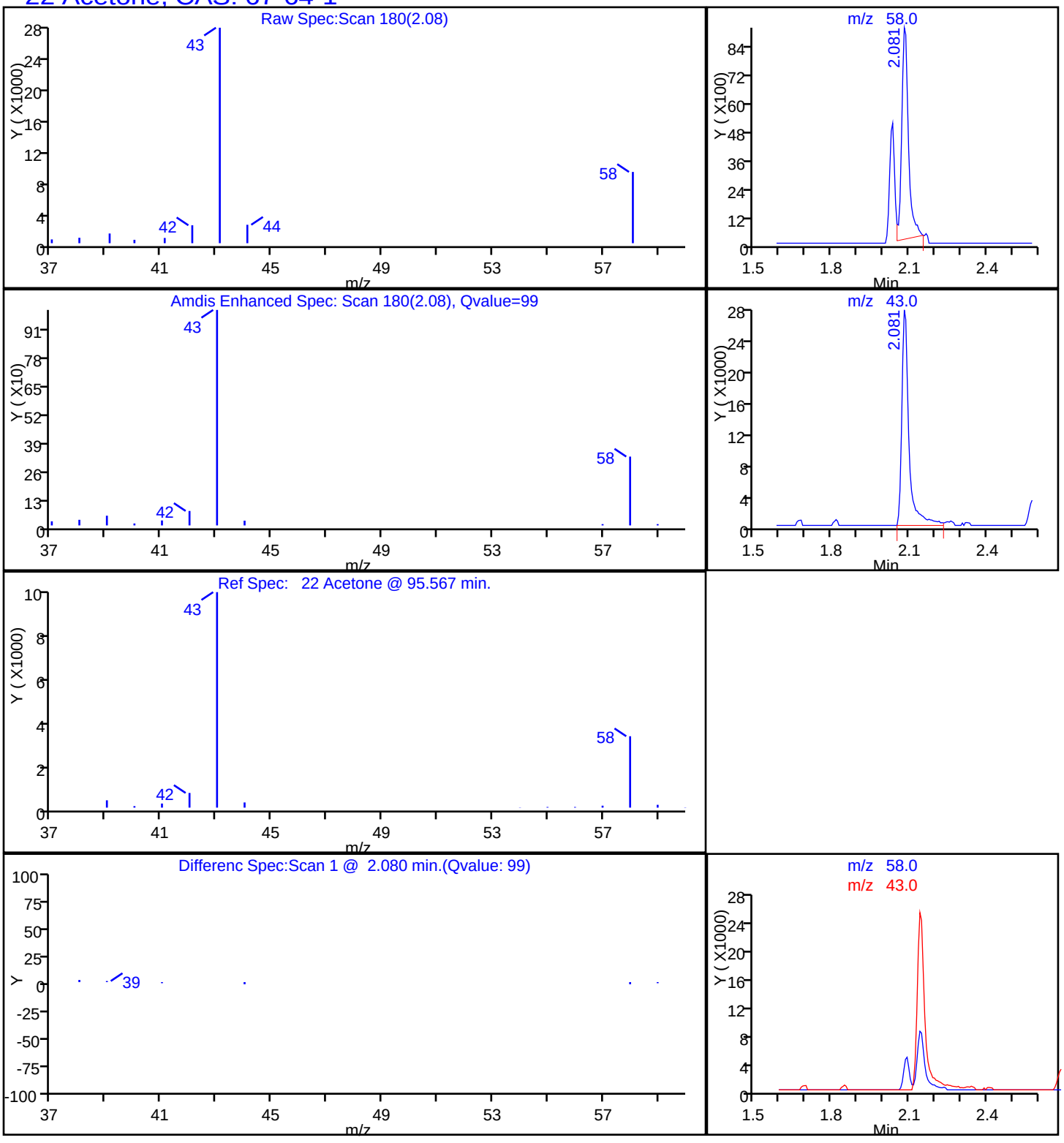
Operator ID: BJM HP45 ALS Bottle#: 35 Worklist Smp#: 7

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260HP45 Limit Group: MSV 8260B ICAL

Column: Detector MS SCAN

22 Acetone, CAS: 67-64-1



Report Date: 11-Nov-2013 13:20:46 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131108-28107.b\1108-35.D

Injection Date: 09-Nov-2013 23:21:30 Instrument ID: HP45

Lims ID: 490-39235-B-5 Lab Sample ID:

Client ID: GP-12A-GW-001

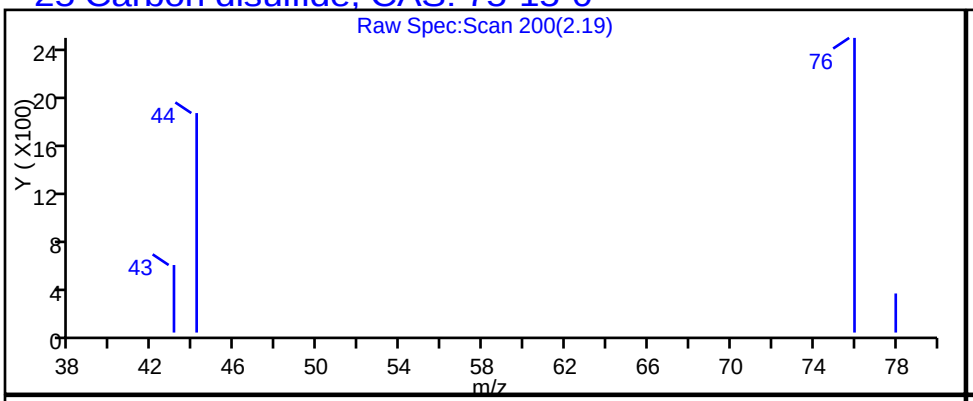
Operator ID: BJM HP45 ALS Bottle#: 35 Worklist Smp#: 7

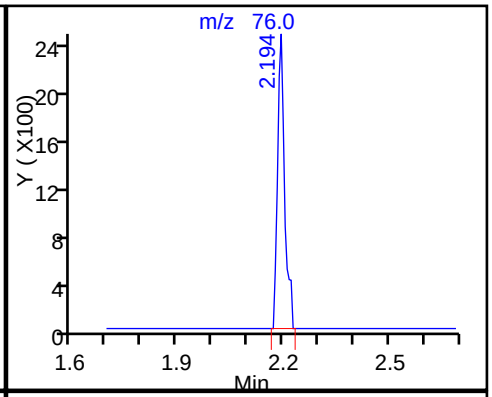
Purge Vol: 5.000 mL Dil. Factor: 1.0000

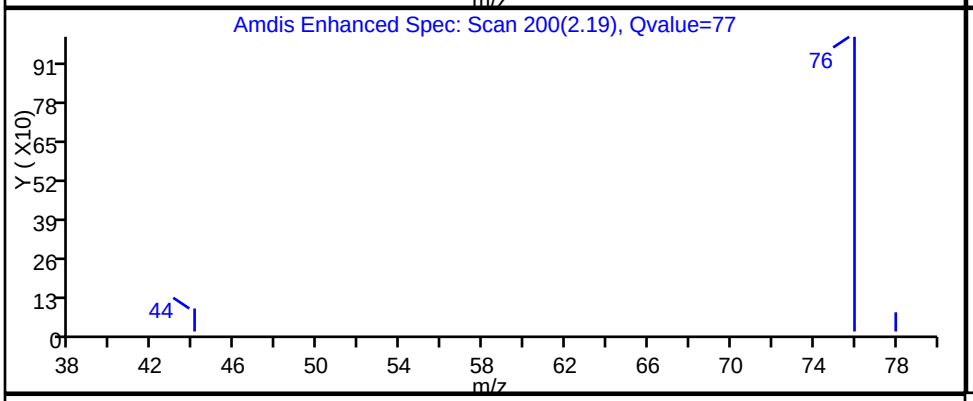
Method: 8260HP45 Limit Group: MSV 8260B ICAL

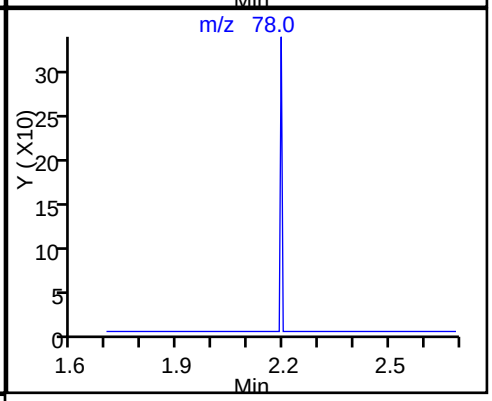
Column: Detector MS SCAN

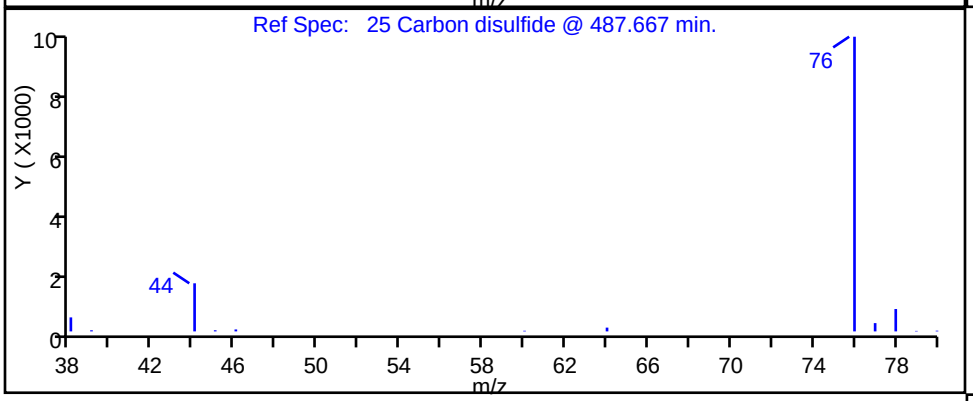
25 Carbon disulfide, CAS: 75-15-0

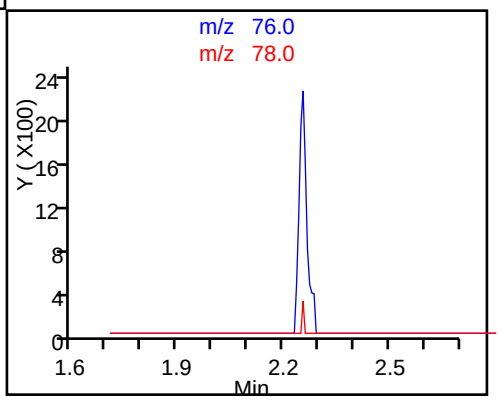












Report Date: 11-Nov-2013 13:20:46 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131108-28107.b\1108-35.D

Injection Date: 09-Nov-2013 23:21:30 Instrument ID: HP45

Lims ID: 490-39235-B-5 Lab Sample ID:

Client ID: GP-12A-GW-001

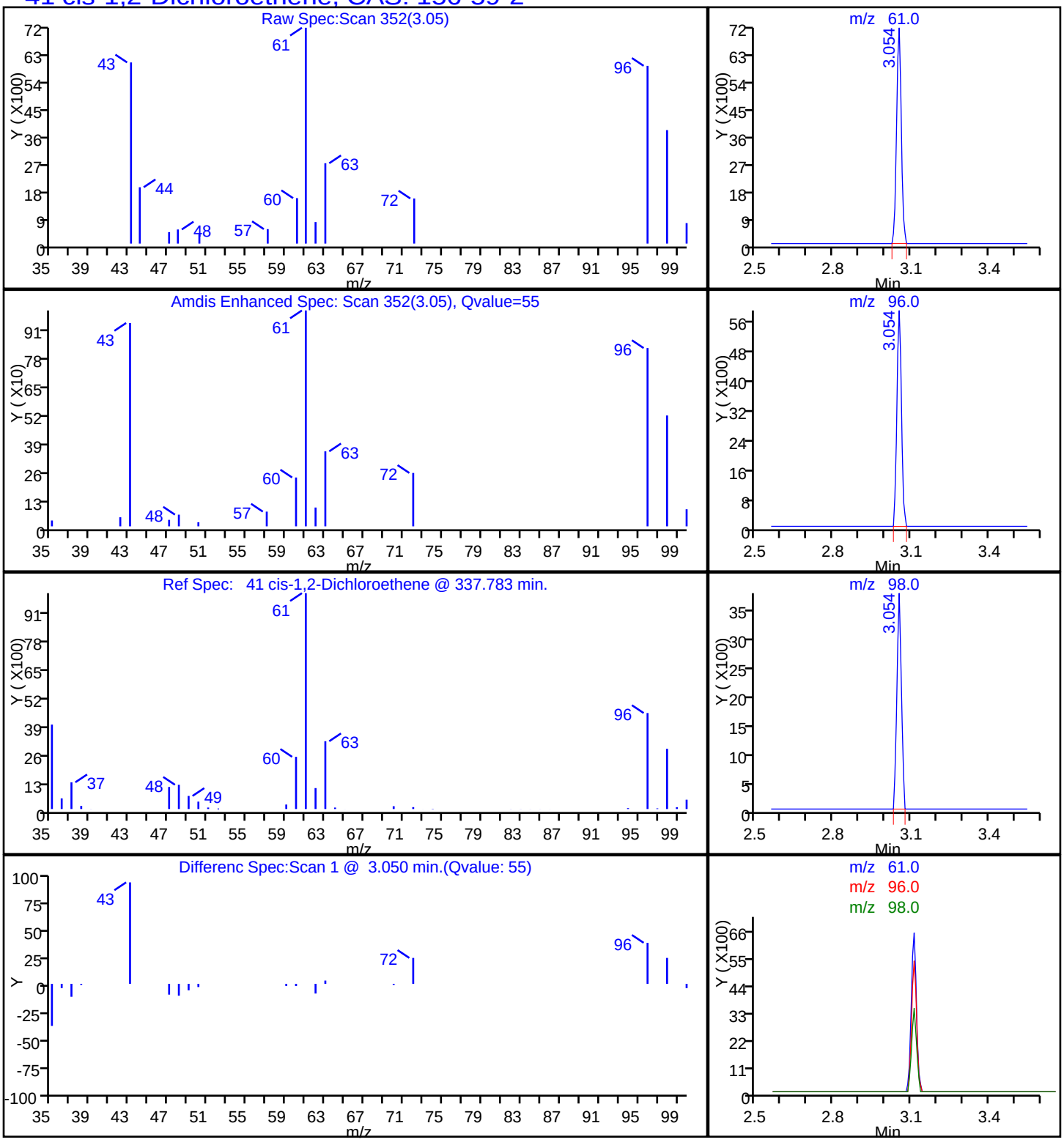
Operator ID: BJM HP45 ALS Bottle#: 35 Worklist Smp#: 7

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260HP45 Limit Group: MSV 8260B ICAL

Column: Detector MS SCAN

41 cis-1,2-Dichloroethene, CAS: 156-59-2



Report Date: 11-Nov-2013 13:20:46 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131108-28107.b\1108-35.D

Injection Date: 09-Nov-2013 23:21:30 Instrument ID: HP45

Lims ID: 490-39235-B-5 Lab Sample ID:

Client ID: GP-12A-GW-001

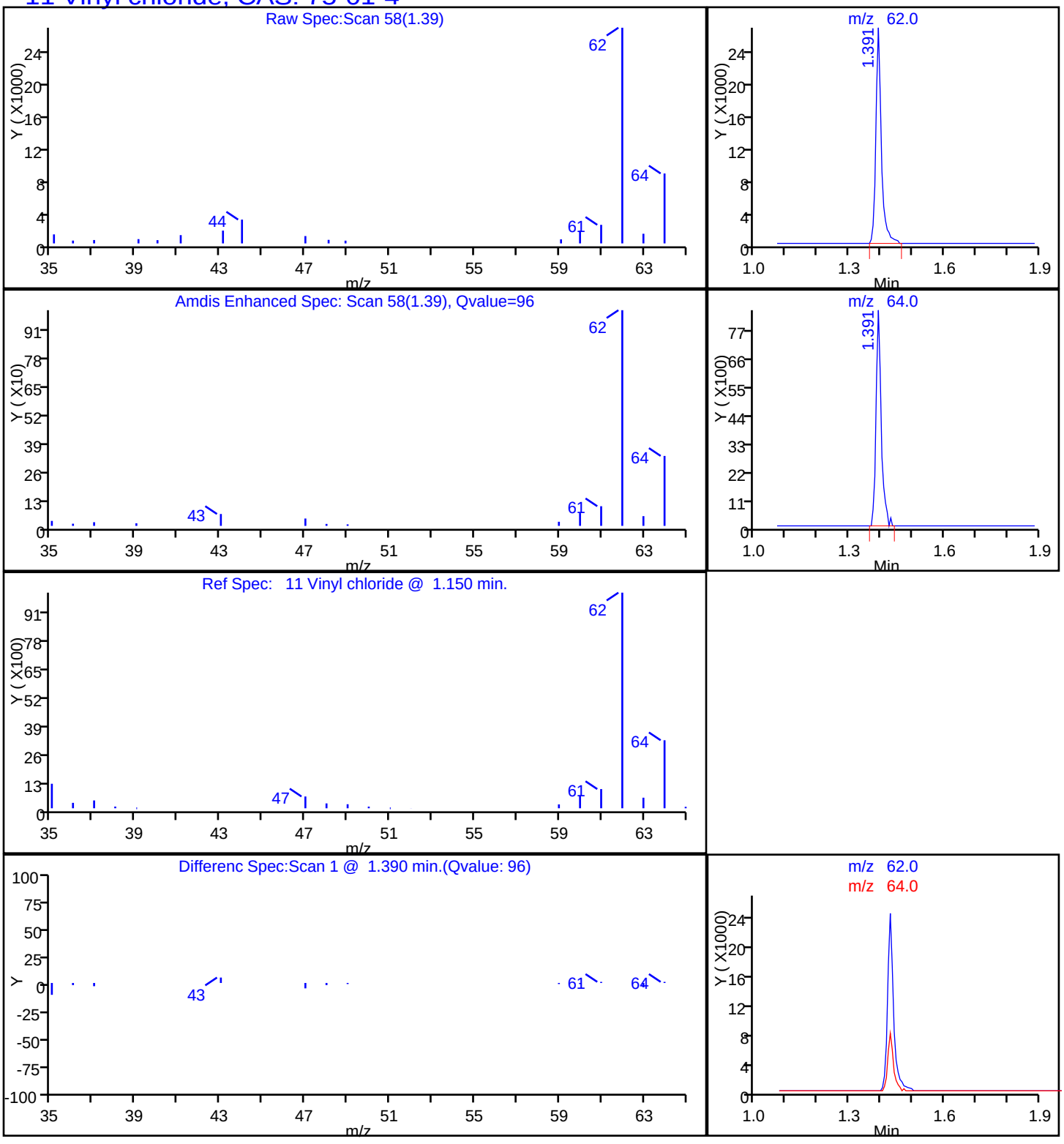
Operator ID: BJM HP45 ALS Bottle#: 35 Worklist Smp#: 7

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260HP45 Limit Group: MSV 8260B ICAL

Column: Detector MS SCAN

11 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: GP-13A-GW-001 | Lab Sample ID: 490-39235-6

Matrix: Water | Lab File ID: 1107-16.D

Analysis Method: 8260B | Date Collected: 10/30/2013 12:52

Sample wt/vol: 5(mL) | Date Analyzed: 11/07/2013 17:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	22.0		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	0.416	J	1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND		1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	ND		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: GP-13A-GW-001 | Lab Sample ID: 490-39235-6

Matrix: Water | Lab File ID: 1107-16.D

Analysis Method: 8260B | Date Collected: 10/30/2013 12:52

Sample wt/vol: 5(mL) | Date Analyzed: 11/07/2013 17:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND		5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND		1.00	0.200
75-69-4	Trichlorofluoromethane	ND	*	1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		1.00	0.330
75-01-4	Vinyl chloride	ND		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	91		70-130
1868-53-7	Dibromofluoromethane (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-16.D		
Lims ID:	490-39235-A-6	Client ID:	GP-13A-GW-001
Inject. Date:	07-Nov-2013 17:30:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	490-39235-A-6		
Misc. Info.:	490-0028020-016		
Operator:	BJM HP45	Instrument ID:	HP45
Purge Vol:	5.000 mL	ALS Bottle#:	16
Lims Batch ID:	120093	Lims Sample ID:	16
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP45\20131107-28020.b\8260HP45.m		
Method Label:	8260B Volatile Organics 8260/SA/NV05-90		
Last Update:	08-Nov-2013 10:40:22	Calib Date:	10-Oct-2013 17:55:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK053		
First Level Reviewer: matlockbe		Date:	08-Nov-2013 10:44:20

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.790	3.789	0.001	99	352481	50.0	
* 2 Chlorobenzene-d5	117	6.109	6.114	-0.005	83	291617	50.0	
* 3 1,4-Dichlorobenzene-d4	152	8.241	8.247	-0.006	93	175196	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.343	3.348	-0.005	55	88674	50.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.569	3.569	0.0	89	101118	49.7	
$ 6 Toluene-d8 (Surr)	98	4.927	4.932	-0.005	84	356606	48.1	
$ 8 4-Bromofluorobenzene (Surr)	95	7.161	7.161	0.0	96	135118	45.7	
22 Acetone	58	2.081	2.081	0.0	92	4852	22.0	
25 Carbon disulfide	76	2.194	2.194	0.0	61	2701	0.4158	

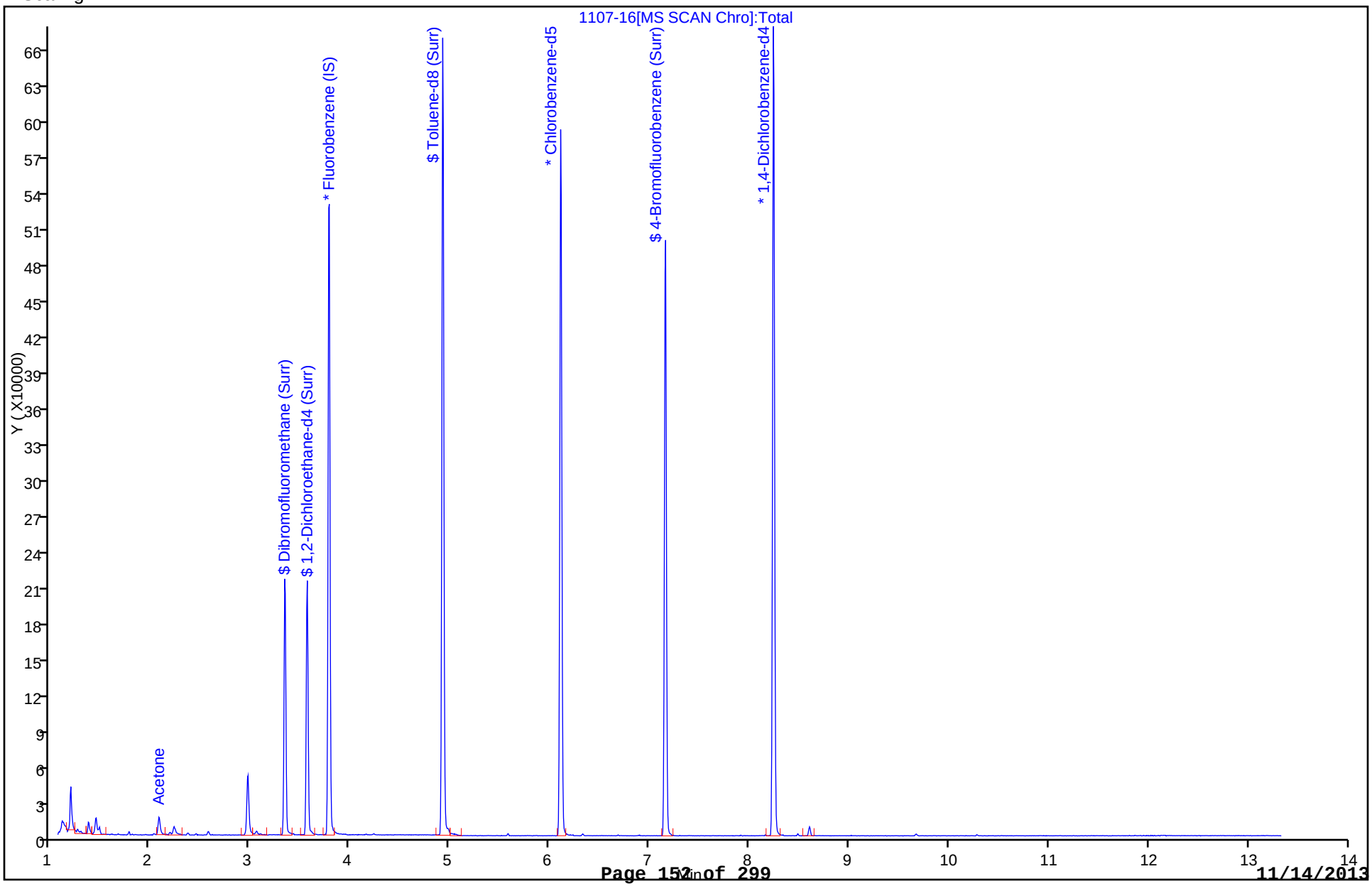
Report Date: 08-Nov-2013 10:44:21 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-16.D

Injection Date:	07-Nov-2013 17:30:30	Limit Group:	MSV 8260B ICAL
Client ID:	GP-13A-GW-001	Instrument ID:	HP45
Lims Batch ID:	120093	Lims Sample ID:	16
Operator ID:	BJM HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



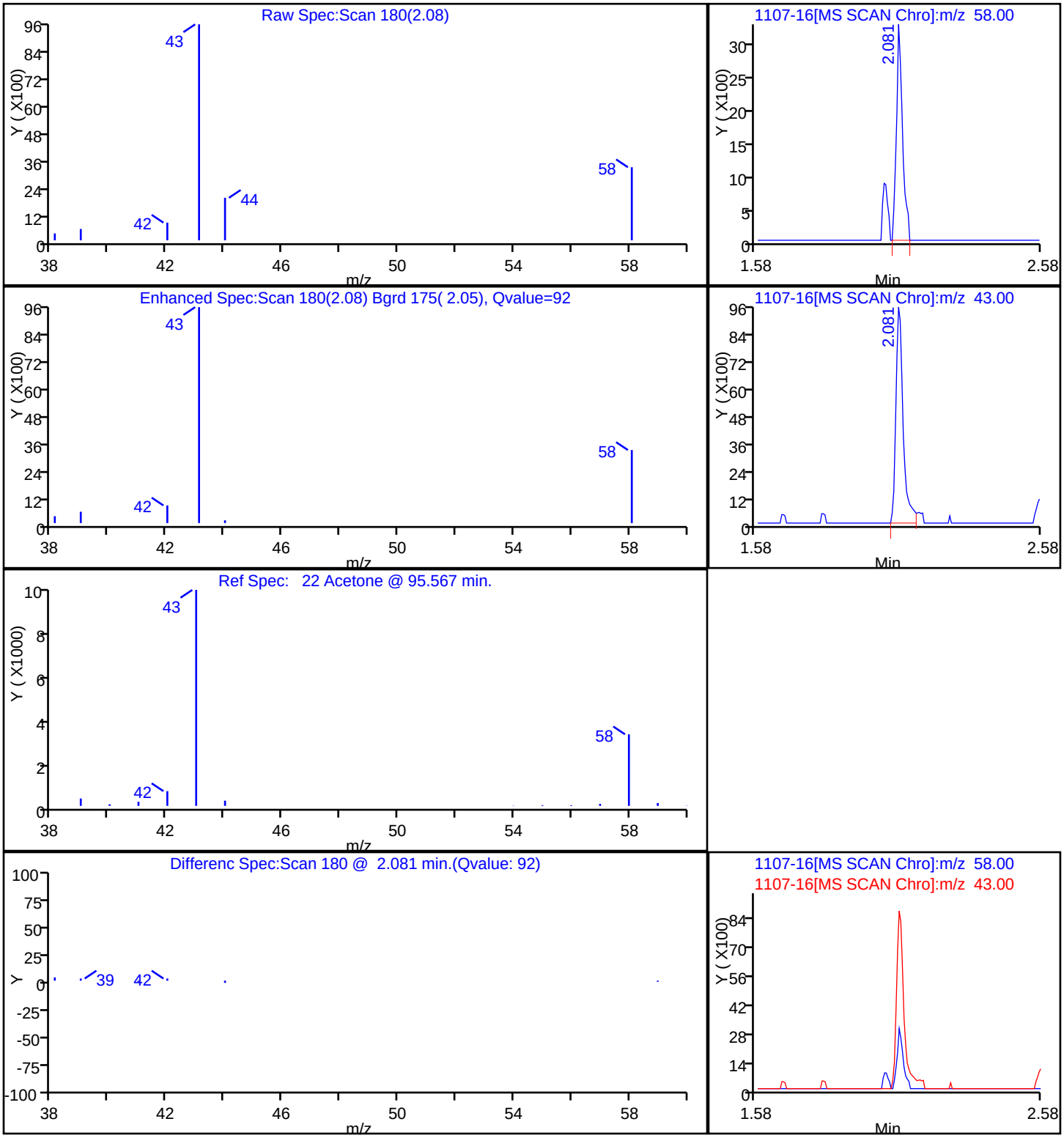
Report Date: 08-Nov-2013 10:44:21 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-16.D

Injection Date:	07-Nov-2013 17:30:30	Limit Group:	MSV 8260B ICAL
Client ID:	GP-13A-GW-001	Instrument ID:	HP45
Lims Batch ID:	120093	Lims Sample ID:	16
Operator ID:	BJM HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

22 Acetone



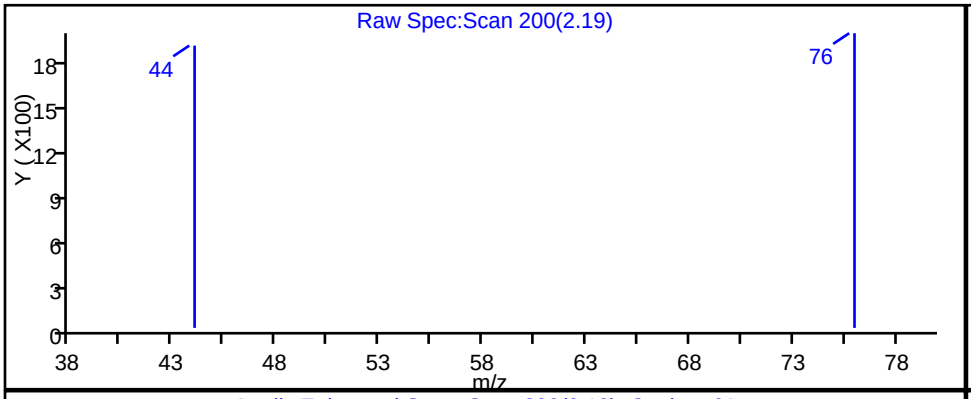
Report Date: 08-Nov-2013 10:44:21 Chrom Revision: 2.0 01-Apr-2013 21:16:10

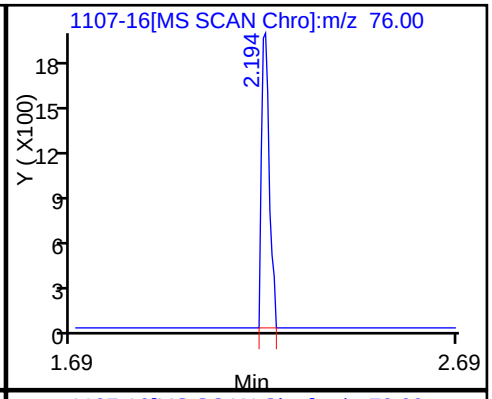
TestAmerica Nashville

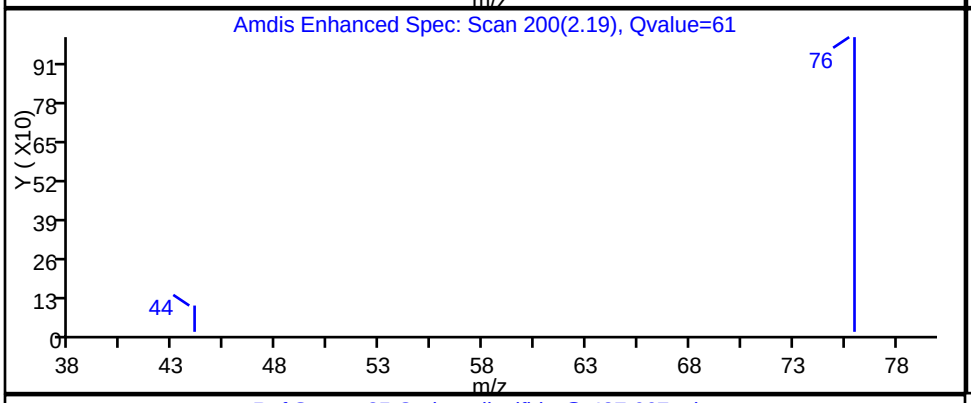
Data File: \\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-16.D

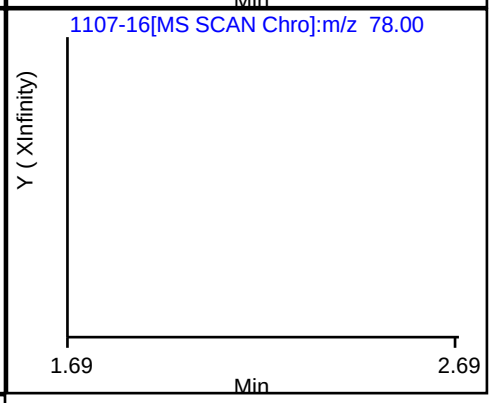
Injection Date:	07-Nov-2013 17:30:30	Limit Group:	MSV 8260B ICAL
Client ID:	GP-13A-GW-001	Instrument ID:	HP45
Lims Batch ID:	120093	Lims Sample ID:	16
Operator ID:	BJM HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

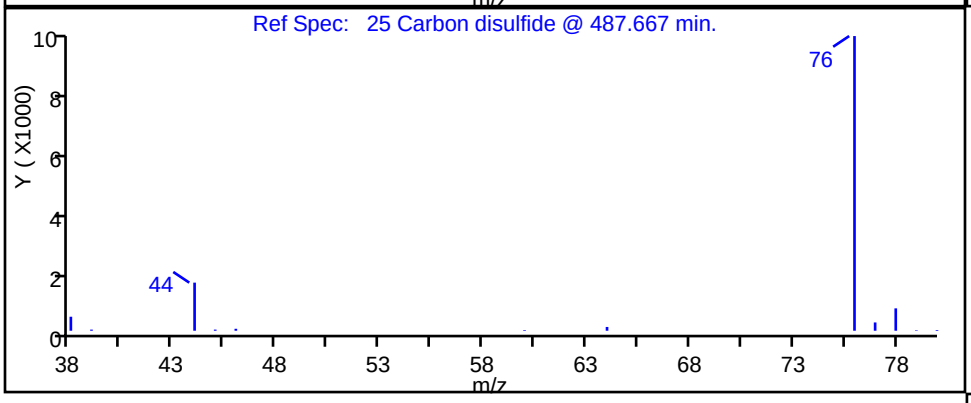
25 Carbon disulfide

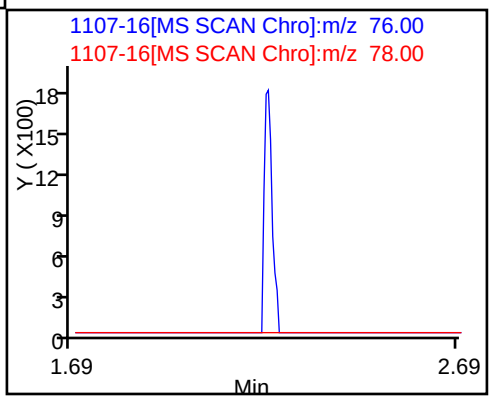












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: GP-13A-GW-002 | Lab Sample ID: 490-39235-7

Matrix: Water | Lab File ID: 1107-17.D

Analysis Method: 8260B | Date Collected: 10/30/2013 12:52

Sample wt/vol: 5(mL) | Date Analyzed: 11/07/2013 17:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	23.8		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	0.332	J	1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND		1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	ND		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: GP-13A-GW-002 | Lab Sample ID: 490-39235-7

Matrix: Water | Lab File ID: 1107-17.D

Analysis Method: 8260B | Date Collected: 10/30/2013 12:52

Sample wt/vol: 5(mL) | Date Analyzed: 11/07/2013 17:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND		5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND		1.00	0.200
75-69-4	Trichlorofluoromethane	ND	*	1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		1.00	0.330
75-01-4	Vinyl chloride	ND		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-17.D		
Lims ID:	490-39235-A-7	Client ID:	GP-13A-GW-002
Inject. Date:	07-Nov-2013 17:57:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	490-39235-A-7		
Misc. Info.:	490-0028020-017		
Operator:	BJM HP45	Instrument ID:	HP45
Purge Vol:	5.000 mL	ALS Bottle#:	17
Lims Batch ID:	120093	Lims Sample ID:	17
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP45\20131107-28020.b\8260HP45.m		
Method Label:	8260B Volatile Organics 8260/SA/NV05-90		
Last Update:	08-Nov-2013 10:40:22	Calib Date:	10-Oct-2013 17:55:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK053		
First Level Reviewer: matlockbe		Date:	08-Nov-2013 10:44:33

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.789	3.789	0.0	99	345184	50.0	
* 2 Chlorobenzene-d5	117	6.109	6.114	-0.005	83	284073	50.0	
* 3 1,4-Dichlorobenzene-d4	152	8.247	8.247	0.0	92	171601	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.342	3.348	-0.006	55	85948	49.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.569	3.569	0.0	89	100502	50.5	
$ 6 Toluene-d8 (Surr)	98	4.926	4.932	-0.006	83	347418	48.1	
$ 8 4-Bromofluorobenzene (Surr)	95	7.161	7.161	0.0	96	133535	46.1	
22 Acetone	58	2.081	2.081	0.0	92	5151	23.8	
25 Carbon disulfide	76	2.194	2.194	0.0	62	2115	0.3324	

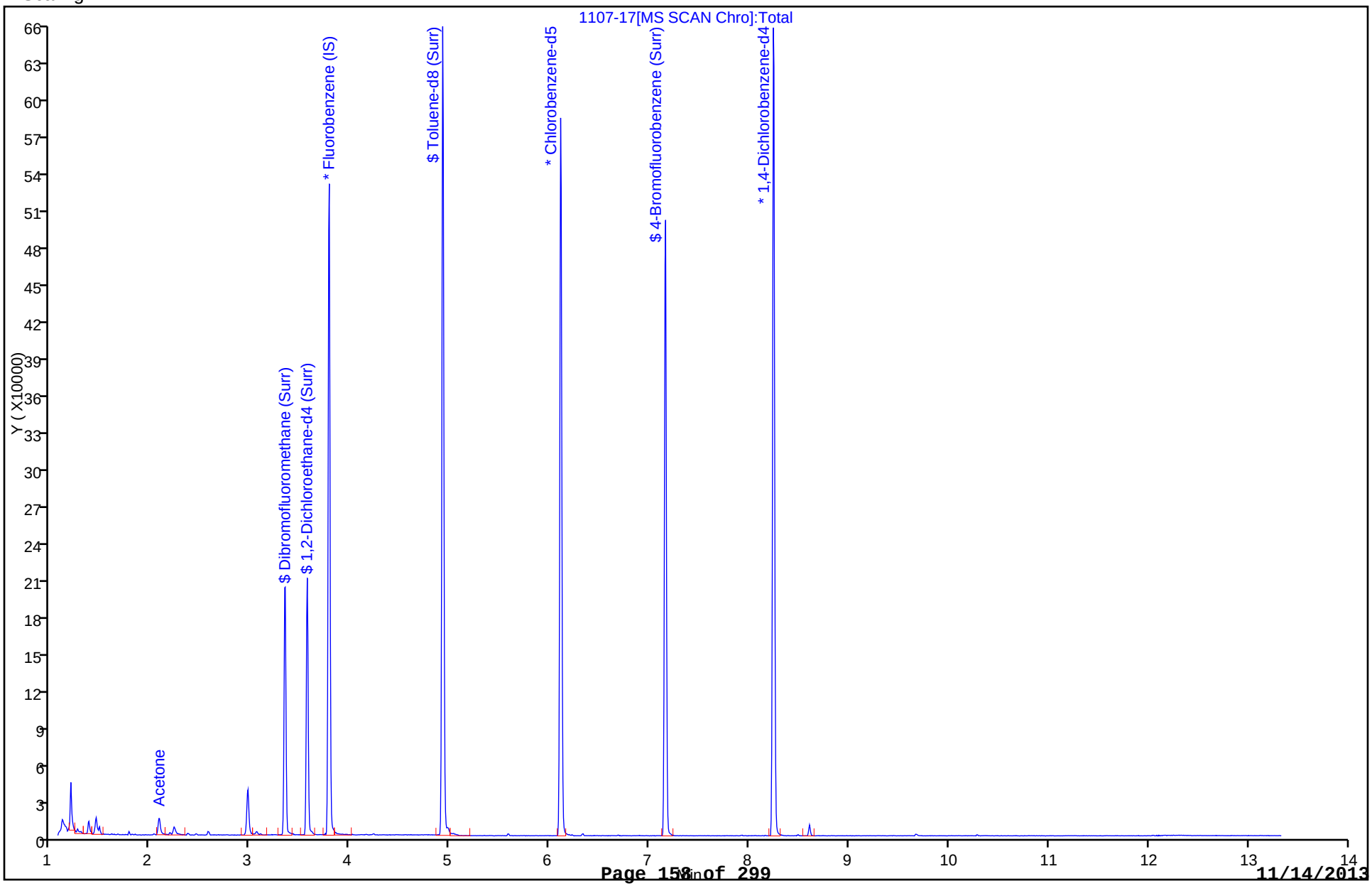
Report Date: 08-Nov-2013 10:44:33 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-17.D

Injection Date:	07-Nov-2013 17:57:30	Limit Group:	MSV 8260B ICAL
Client ID:	GP-13A-GW-002	Instrument ID:	HP45
Lims Batch ID:	120093	Lims Sample ID:	17
Operator ID:	BJM HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



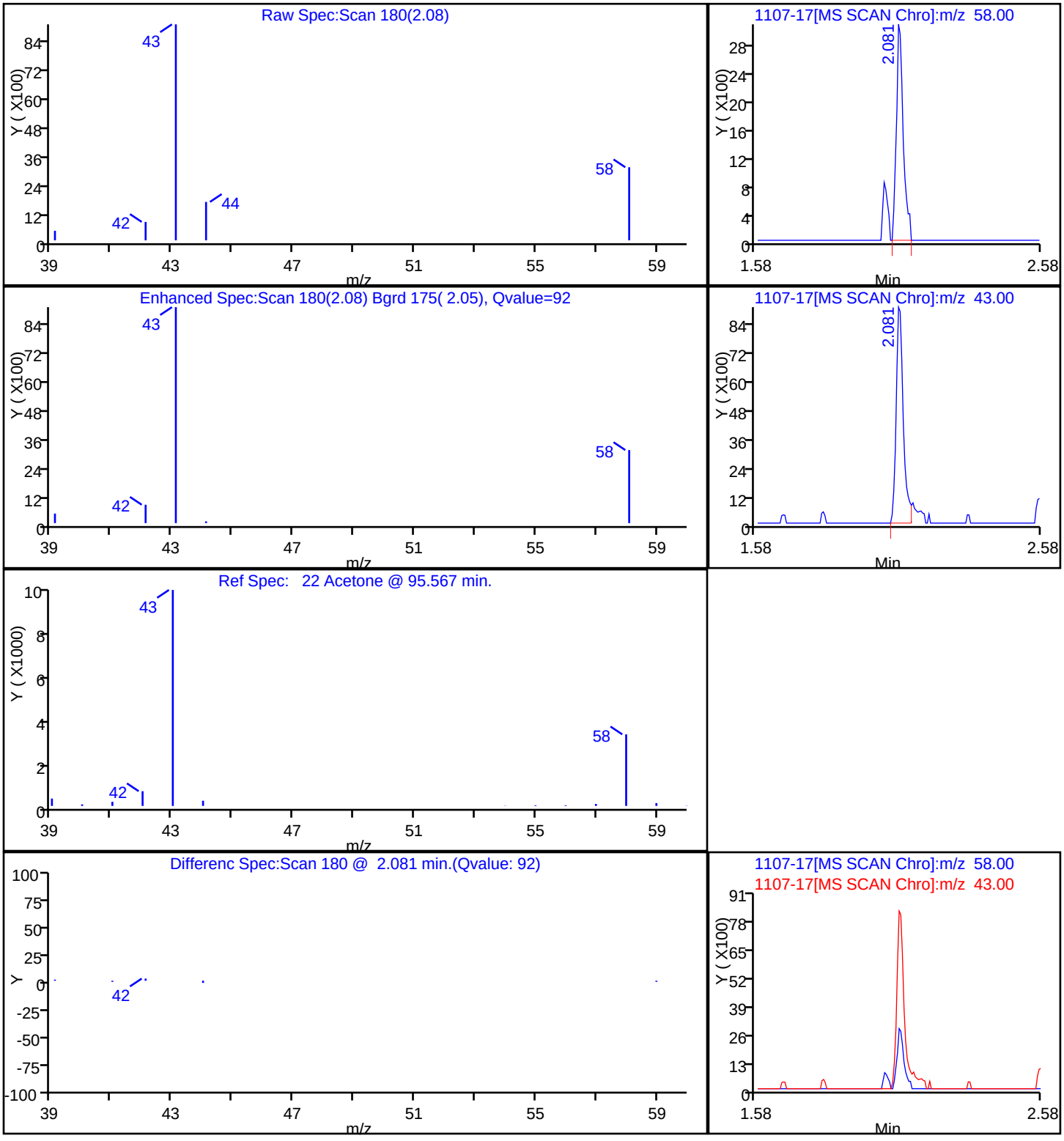
Report Date: 08-Nov-2013 10:44:33 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-17.D

Injection Date:	07-Nov-2013 17:57:30	Limit Group:	MSV 8260B ICAL
Client ID:	GP-13A-GW-002	Instrument ID:	HP45
Lims Batch ID:	120093	Lims Sample ID:	17
Operator ID:	BJM HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

22 Acetone



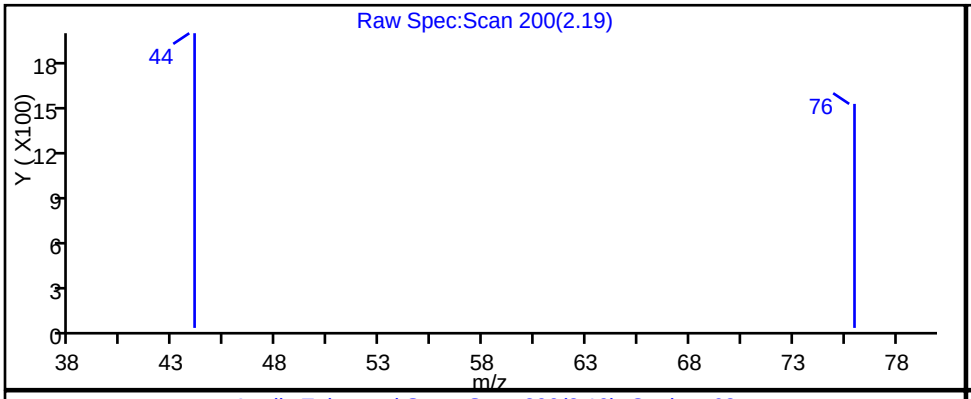
Report Date: 08-Nov-2013 10:44:33 Chrom Revision: 2.0 01-Apr-2013 21:16:10

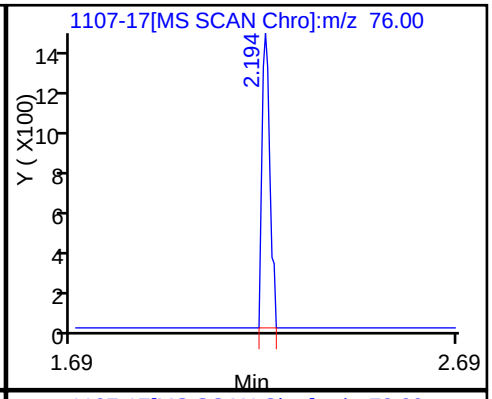
TestAmerica Nashville

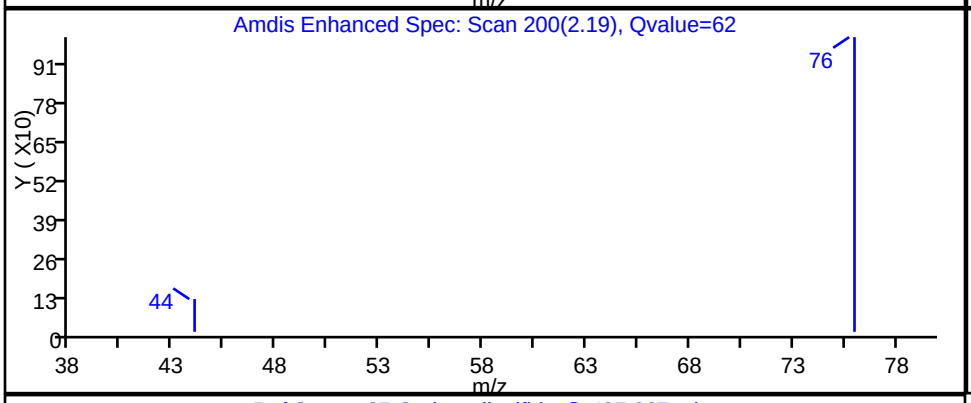
Data File: \\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-17.D

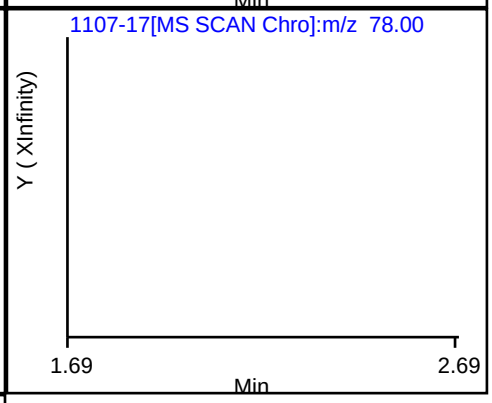
Injection Date:	07-Nov-2013 17:57:30	Limit Group:	MSV 8260B ICAL
Client ID:	GP-13A-GW-002	Instrument ID:	HP45
Lims Batch ID:	120093	Lims Sample ID:	17
Operator ID:	BJM HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

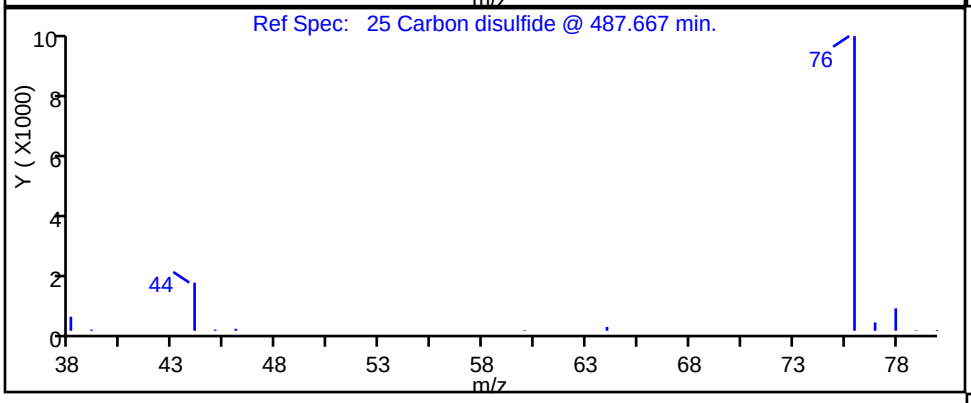
25 Carbon disulfide

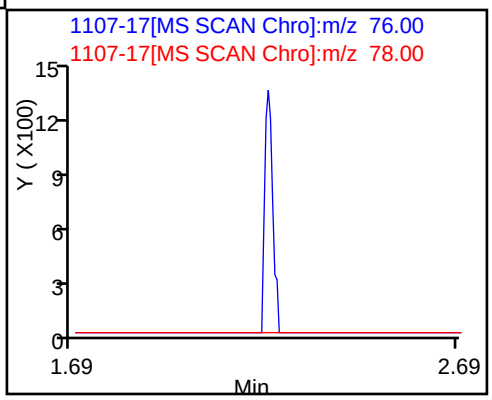












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: EB | Lab Sample ID: 490-39235-8

Matrix: Water | Lab File ID: 1107-10.D

Analysis Method: 8260B | Date Collected: 10/29/2013 10:11

Sample wt/vol: 5(mL) | Date Analyzed: 11/07/2013 14:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	0.418	J	1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND		1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	ND		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: EB | Lab Sample ID: 490-39235-8

Matrix: Water | Lab File ID: 1107-10.D

Analysis Method: 8260B | Date Collected: 10/29/2013 10:11

Sample wt/vol: 5(mL) | Date Analyzed: 11/07/2013 14:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND		5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND		1.00	0.200
75-69-4	Trichlorofluoromethane	ND	*	1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		1.00	0.330
75-01-4	Vinyl chloride	ND		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	97		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-10.D		
Lims ID:	490-39235-A-8	Client ID:	EB
Inject. Date:	07-Nov-2013 14:46:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	490-39235-A-8		
Misc. Info.:	490-0028020-010		
Operator:	BJM HP45	Instrument ID:	HP45
Purge Vol:	5.000 mL	ALS Bottle#:	10
Lims Batch ID:	120093	Lims Sample ID:	10
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP45\20131107-28020.b\8260HP45.m		
Method Label:	8260B Volatile Organics 8260/SA/NV05-90		
Last Update:	08-Nov-2013 10:40:22	Calib Date:	10-Oct-2013 17:55:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK053		
First Level Reviewer: matlockbe		Date:	08-Nov-2013 10:41:27

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.789	3.789	0.0	99	359924	50.0	
* 2 Chlorobenzene-d5	117	6.109	6.114	-0.005	83	294540	50.0	
* 3 1,4-Dichlorobenzene-d4	152	8.241	8.247	-0.006	93	174329	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.343	3.348	-0.005	56	88439	49.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.569	3.569	0.0	89	102637	49.4	
$ 6 Toluene-d8 (Surr)	98	4.927	4.932	-0.005	83	363948	48.6	
$ 8 4-Bromofluorobenzene (Surr)	95	7.155	7.161	-0.006	96	137601	46.8	
25 Carbon disulfide	76	2.194	2.194	0.0	63	2770	0.4176	

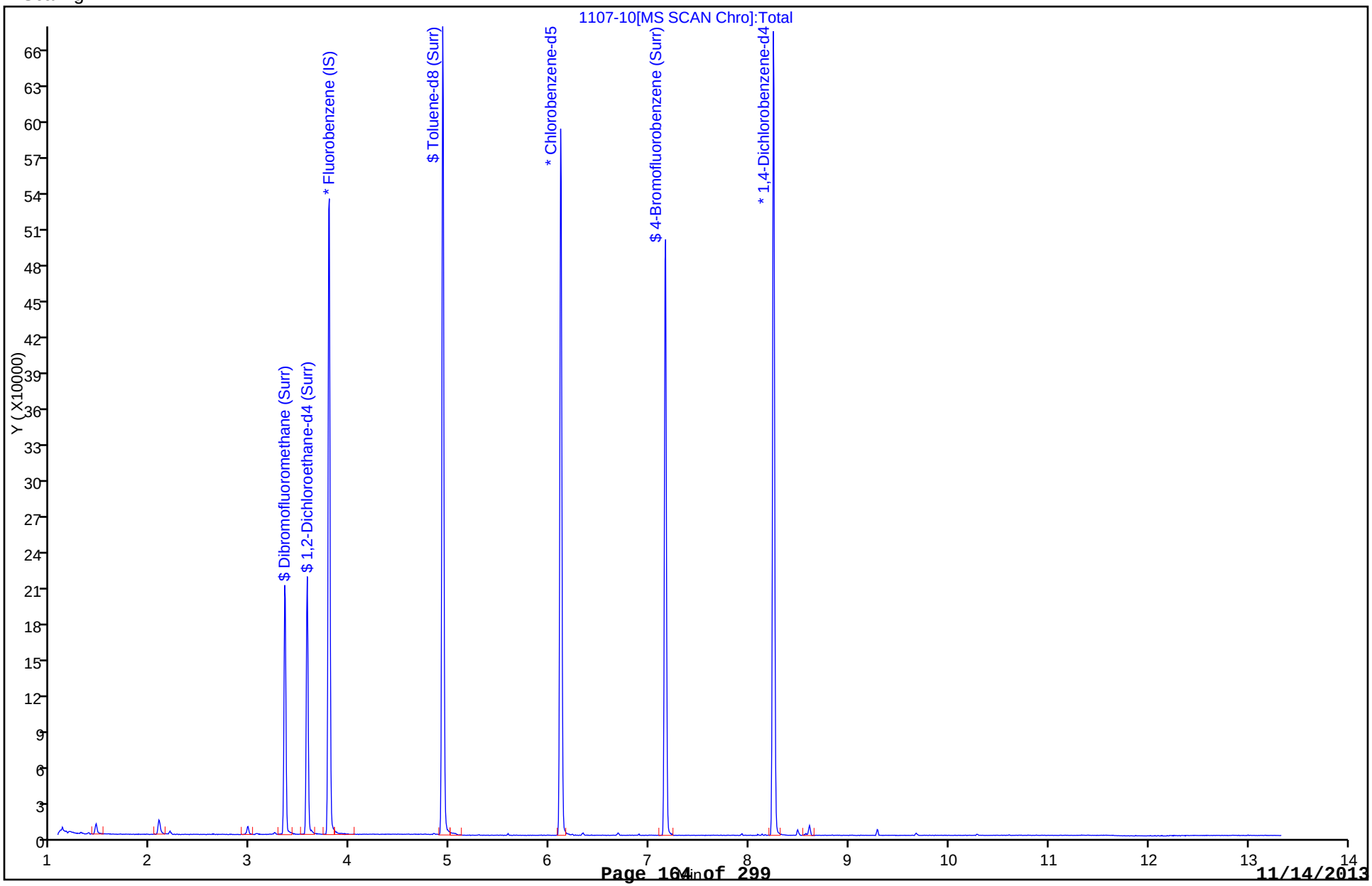
Report Date: 08-Nov-2013 10:41:27 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-10.D

Injection Date:	07-Nov-2013 14:46:30	Limit Group:	MSV 8260B ICAL
Client ID:	EB	Instrument ID:	HP45
Lims Batch ID:	120093	Lims Sample ID:	10
Operator ID:	BJM HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



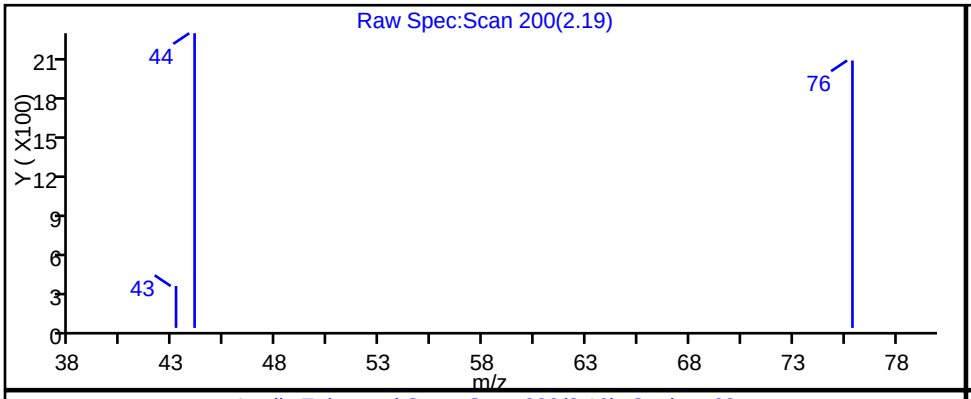
Report Date: 08-Nov-2013 10:41:28 Chrom Revision: 2.0 01-Apr-2013 21:16:10

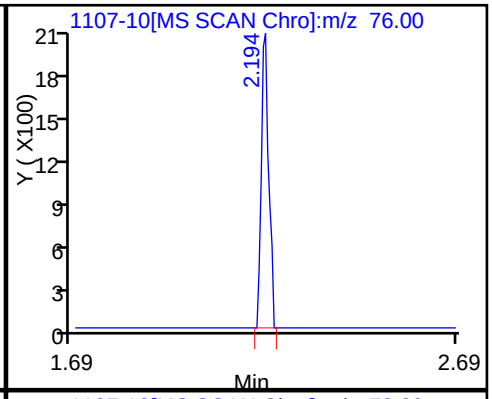
TestAmerica Nashville

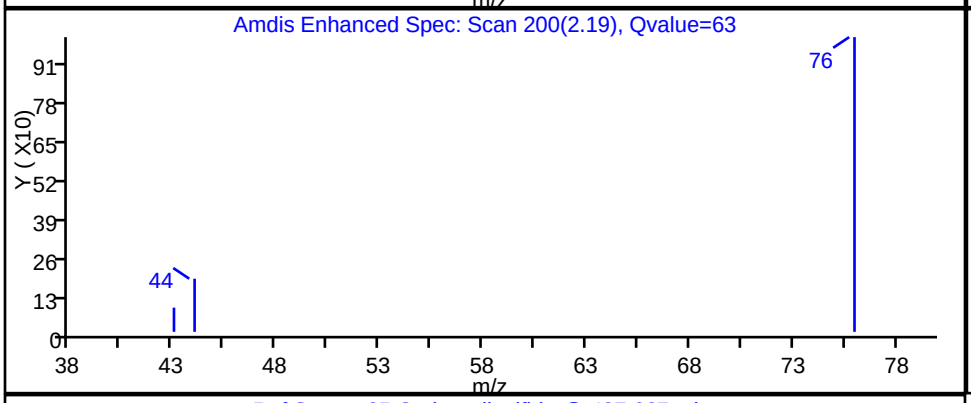
Data File: \\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-10.D

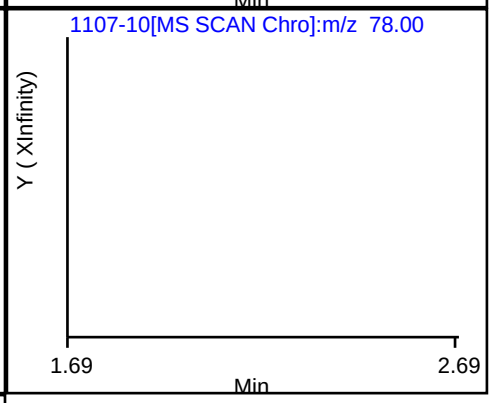
Injection Date:	07-Nov-2013 14:46:30	Limit Group:	MSV 8260B ICAL
Client ID:	EB	Instrument ID:	HP45
Lims Batch ID:	120093	Lims Sample ID:	10
Operator ID:	BJM HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

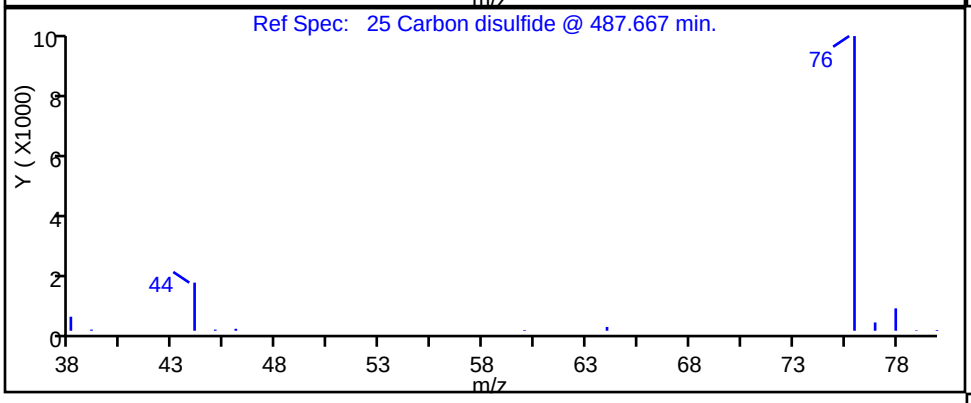
25 Carbon disulfide

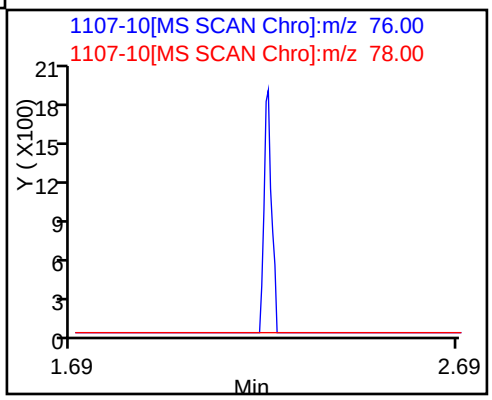












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: Trip Blank | Lab Sample ID: 490-39235-9

Matrix: Water | Lab File ID: 1107-09.D

Analysis Method: 8260B | Date Collected: 10/30/2013 00:01

Sample wt/vol: 5(mL) | Date Analyzed: 11/07/2013 14:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND		1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	ND		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: Trip Blank | Lab Sample ID: 490-39235-9

Matrix: Water | Lab File ID: 1107-09.D

Analysis Method: 8260B | Date Collected: 10/30/2013 00:01

Sample wt/vol: 5(mL) | Date Analyzed: 11/07/2013 14:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND		5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND		1.00	0.200
75-69-4	Trichlorofluoromethane	ND	*	1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		1.00	0.330
75-01-4	Vinyl chloride	ND		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	97		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-09.D		
Lims ID:	490-39235-A-9	Client ID:	Trip Blank
Inject. Date:	07-Nov-2013 14:19:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	490-39235-A-9		
Misc. Info.:	490-0028020-009		
Operator:	BJM HP45	Instrument ID:	HP45
Purge Vol:	5.000 mL	ALS Bottle#:	9
Lims Batch ID:	120093	Lims Sample ID:	9
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP45\20131107-28020.b\8260HP45.m		
Method Label:	8260B Volatile Organics 8260/SA/NV05-90		
Last Update:	08-Nov-2013 10:40:22	Calib Date:	10-Oct-2013 17:55:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK053		
First Level Reviewer: matlockbe		Date:	08-Nov-2013 10:41:11

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.789	3.789	0.0	99	358973	50.0	
* 2 Chlorobenzene-d5	117	6.109	6.114	-0.005	83	298092	50.0	
* 3 1,4-Dichlorobenzene-d4	152	8.241	8.247	-0.006	93	176464	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.342	3.348	-0.006	55	89176	49.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.569	3.569	0.0	89	103754	50.1	
$ 6 Toluene-d8 (Surr)	98	4.926	4.932	-0.006	83	367340	48.5	
$ 8 4-Bromofluorobenzene (Surr)	95	7.161	7.161	0.0	96	139765	47.0	

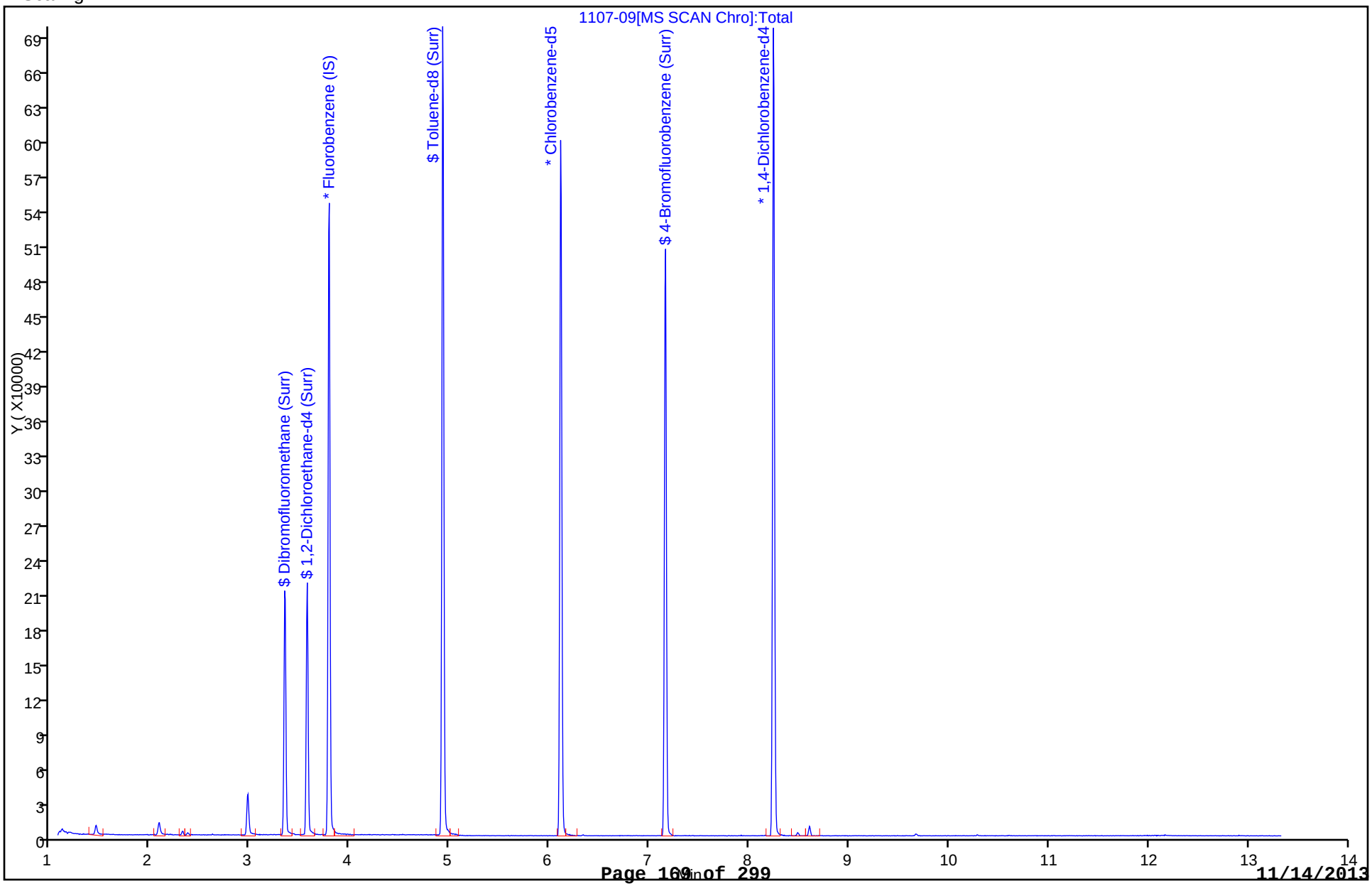
Report Date: 08-Nov-2013 10:41:11 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-09.D

Injection Date:	07-Nov-2013 14:19:30	Limit Group:	MSV 8260B ICAL
Client ID:	Trip Blank	Instrument ID:	HP45
Lims Batch ID:	120093	Lims Sample ID:	9
Operator ID:	BJM HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39235-1 Analy Batch No.: 113395

SDG No.:

Instrument ID: HP45 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2013 14:15 Calibration End Date: 10/10/2013 17:55 Calibration ID: 19584

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0005 490-113395/3	1010-07.D
Level 2	STD001 490-113395/4	1010-08.D
Level 3	STD002 490-113395/5	1010-09.D
Level 4	STD005 490-113395/6	1010-10.D
Level 5	STD010 490-113395/7	1010-11.D
Level 6	STD020 490-113395/8	1010-12.D
Level 7	ICIS 490-113395/9	1010-13.D
Level 8	STD100 490-113395/10	1010-14.D
Level 9	STD200 490-113395/11	1010-15.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.1785 0.2787	0.1901 0.2712	0.1997 0.2755	0.2275 0.2649	0.2717	Lin2	-0.052	0.2622							0.9920		0.9900
Chloromethane	0.3240 0.3631	0.3637 0.3706	0.3701 0.3867	0.3692 0.3609	0.3794	Ave		0.3653			0.1000	4.8		15.0			
Vinyl chloride	0.3430 0.4094	0.3122 0.3850	0.3524 0.3996	0.3614 0.3948	0.4006	Ave		0.3732				8.8		15.0			
Butadiene	0.2636 0.3772	0.2658 0.3318	0.2701 0.3416	0.3034 0.3416	0.3380	Ave		0.3148				13.0		15.0			
Bromomethane	0.0756 0.1267	0.0895 0.1301	0.1013 0.1525	0.1139 0.1230	0.1192	Lin2	-0.030	0.1275							0.9900		0.9900
Chloroethane	0.1820 0.2426	0.2188 0.2355	0.2306 0.2314	0.2348 0.1935	0.2461	Ave		0.2239				9.9		15.0			
Dichlorofluoromethane	0.6238 0.6431	0.5871 0.6057	0.5665 0.6149	0.6095 0.5805	0.6436	Ave		0.6083				4.4		15.0			
Trichlorofluoromethane	0.3748 0.4869	0.3380 0.4554	0.3672 0.4369	0.4006 0.4467	0.4841	Ave		0.4212				13.0		15.0			
Ethanol	+++++ 0.0025	0.0033 0.0025	0.0029 0.0024	0.0028 0.0022	0.0026	Ave		0.0027				12.0		15.0			
Diethyl ether	0.2811 0.2755	0.2626 0.2692	0.3000 0.2732	0.2995 0.2710	0.2806	Ave		0.2792				4.6		15.0			
Acrolein	0.0875 0.0531	0.0667 0.0497	0.0581 0.0503	0.0553 0.0478	0.0484	Lin2	0.0469	0.0494							0.9980		0.9900
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.2681 0.2698	0.2281 0.2583	0.2471 0.2614	0.2568 0.2460	0.2693	Ave		0.2561				5.4		15.0			
1,1-Dichloroethene	0.2249 0.2871	0.2802 0.2781	0.2768 0.2843	0.2732 0.2658	0.2852	Ave		0.2728				7.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39235-1 Analy Batch No.: 113395

SDG No.:

Instrument ID: HP45 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2013 14:15 Calibration End Date: 10/10/2013 17:55 Calibration ID: 19584

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Acetone	0.0350 0.0316	0.0332 0.0305	0.0289 0.0311	0.0316 0.0302	0.0295	Ave		0.0313				6.0		15.0			
Iodomethane	0.1715 0.2966	0.2151 0.3169	0.2192 0.3679	0.2637 0.3435	0.2766	Lin1	-0.160	0.3437							0.9960		0.9900
Isopropyl alcohol	0.0193 0.0203	0.0203 0.0188	0.0202 0.0178	0.0232 0.0176	0.0204	Ave		0.0197				8.6		15.0			
Carbon disulfide	1.0037 0.9121	0.9279 0.8843	0.9269 0.9141	0.9289 0.8728	0.9231	Ave		0.9215				4.0		15.0			
Acetonitrile	+++++ 0.0342	0.0613 0.0301	0.0467 0.0310	0.0408 0.0298	0.0350	Lin2	0.3064	0.0314							0.9960		0.9900
3-Chloro-1-propene	+++++ 0.2656	0.2159 0.2390	0.2295 0.2605	0.2680 0.2692	0.2404	Ave		0.2485				8.1		15.0			
Methyl acetate	0.3552 0.3298	0.3699 0.3111	0.3494 0.3177	0.3517 0.3043	0.3257	Ave		0.3350				6.7		15.0			
Methylene Chloride	0.5812 0.3336	0.4403 0.3138	0.3873 0.3190	0.3595 0.3078	0.3417	Lin2	0.1294	0.3202							0.9990		0.9900
tert-Butyl alcohol (TBA)	0.0272 0.0297	0.0256 0.0269	0.0285 0.0286	0.0307 0.0280	0.0283	Ave		0.0282				5.4		15.0			
Acrylonitrile	0.1421 0.1372	0.1397 0.1291	0.1402 0.1322	0.1456 0.1260	0.1357	Ave		0.1364				4.7		15.0			
Methyl tert-butyl ether	0.9967 0.9310	0.9633 0.8710	0.9913 0.8923	0.9921 0.8486	0.9441	Ave		0.9367				5.9		15.0			
trans-1,2-Dichloroethene	0.4418 0.4670	0.4464 0.4469	0.4471 0.4593	0.4733 0.4385	0.4696	Ave		0.4544				2.9		15.0			
Hexane	0.5072 0.3547	0.4397 0.3391	0.3818 0.3451	0.3726 0.3316	0.3696	Ave		0.3824				15.0		15.0			
1,1-Dichloroethane	0.5816 0.6266	0.5817 0.5996	0.6044 0.6244	0.5990 0.5984	0.5716	Ave		0.5986			0.1000	3.1		15.0			
Vinyl acetate	1.0005 0.8863	0.9492 0.7643	0.8987 0.7641	0.9317 0.7314	0.8291	Ave		0.8617				11.0		15.0			
Diisopropyl ether	1.4099 1.1818	1.3090 1.1164	1.3202 1.1471	1.2793 1.0885	1.2000	Ave		1.2280				8.7		15.0			
Chloroprene	0.5717 0.4882	0.4889 0.4622	0.5098 0.4705	0.5002 0.4501	0.5002	Ave		0.4935				7.1		15.0			
Ethyl tert-butyl ether	1.1231 1.0344	1.1283 1.0132	1.0900 1.0340	1.1076 1.0058	1.0438	Ave		1.0645				4.5		15.0			
cis-1,2-Dichloroethene	0.4942 0.5894	0.6016 0.5620	0.5845 0.5814	0.6047 0.5643	0.5960	Ave		0.5754				5.9		15.0			
2,2-Dichloropropane	0.5641 0.4603	0.4875 0.4351	0.4839 0.4496	0.4832 0.4302	0.4686	Ave		0.4736				8.4		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39235-1 Analy Batch No.: 113395

SDG No.:

Instrument ID: HP45 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2013 14:15 Calibration End Date: 10/10/2013 17:55 Calibration ID: 19584

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Butanone (MEK)	+++++ 0.0385	0.0335 0.0368	0.0362 0.0381	0.0391 0.0366	0.0370	Ave		0.0370				4.7		15.0			
Ethyl acetate	+++++ 0.0251	0.0261 0.0261	0.0250 0.0274	0.0282 0.0243	0.0248	Ave		0.0259				5.1		15.0			
Propionitrile	0.0500 0.0515	0.0538 0.0484	0.0537 0.0496	0.0548 0.0487	0.0499	Ave		0.0512				4.7		15.0			
Methacrylonitrile	0.2362 0.2194	0.2359 0.2049	0.2283 0.2103	0.2309 0.1979	0.2155	Ave		0.2199				6.3		15.0			
Bromochloromethane	0.1448 0.2104	0.1891 0.1967	0.2056 0.1995	0.2227 0.1856	0.2064	Ave		0.1956				11.0		15.0			
Chloroform	0.6610 0.5607	0.6107 0.5337	0.5788 0.5464	0.5881 0.5313	0.5650	Ave		0.5751				7.2		15.0			
Tetrahydrofuran	+++++ 0.1032	+++++ 0.1083	0.1424 0.1041	0.1226 0.1030	0.1062	Ave		0.1128				13.0		15.0			
1,1,1-Trichloroethane	0.4949 0.4791	0.4754 0.4569	0.4860 0.4773	0.4848 0.4628	0.4834	Ave		0.4778				2.5		15.0			
Cyclohexane	0.7950 0.5617	0.5670 0.5363	0.5688 0.5342	0.5450 0.5267	0.5668	Ave		0.5780				14.0		15.0			
1,1-Dichloropropene	0.4488 0.4038	0.4100 0.3924	0.4085 0.4059	0.4095 0.3931	0.4103	Ave		0.4091				4.0		15.0			
Carbon tetrachloride	0.4113 0.4096	0.3798 0.4017	0.4093 0.4203	0.4064 0.4062	0.4066	Ave		0.4057				2.7		15.0			
Isobutanol	0.0452 0.0386	0.0391 0.0364	0.0440 0.0378	0.0411 0.0374	0.0382	Ave		0.0397				7.7		15.0			
Benzene	1.4897 1.3338	1.3834 1.2684	1.4147 1.3137	1.4388 1.2662	1.3382	Ave		1.3608				5.6		15.0			
1,2-Dichloroethane	0.4390 0.4436	0.4516 0.4286	0.4611 0.4421	0.4652 0.4308	0.4348	Ave		0.4441				2.9		15.0			
Tert-amyl methyl ether	0.9923 0.9579	0.9492 0.9202	0.9812 0.9554	0.9868 0.9289	0.9556	Ave		0.9586				2.6		15.0			
Heptane	+++++ 0.3104	0.3606 0.2906	0.3121 0.3078	0.3138 0.3000	0.3020	Ave		0.3122				6.7		15.0			
n-Butanol	0.0160 0.0096	0.0125 0.0090	0.0107 0.0094	0.0110 0.0094	0.0098	Lin2	0.0809	0.0094							0.9980		0.9900
Trichloroethene	0.3494 0.3569	0.3583 0.3438	0.3486 0.3583	0.3592 0.3450	0.3554	Ave		0.3528				1.7		15.0			
Ethyl acrylate	+++++ 0.4382	+++++ 0.4126	0.5324 0.4327	0.4798 0.4274	0.4350	Ave		0.4511				9.2		15.0			
Methylcyclohexane	0.5095 0.4656	0.4322 0.4459	0.4598 0.4589	0.4436 0.4401	0.4578	Ave		0.4570				4.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39235-1 Analy Batch No.: 113395

SDG No.:

Instrument ID: HP45 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2013 14:15 Calibration End Date: 10/10/2013 17:55 Calibration ID: 19584

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,2-Dichloropropane	0.3970 0.3601	0.3557 0.3450	0.3764 0.3585	0.3722 0.3450	0.3600	Ave		0.3633				4.5		15.0			
Methyl methacrylate	0.3478 0.3238	0.3282 0.3169	0.3266 0.3282	0.3244 0.3248	0.3168	Ave		0.3264				2.8		15.0			
Dibromomethane	0.1896 0.1964	0.1581 0.1898	0.1925 0.1901	0.1935 0.1793	0.1924	Ave		0.1869				6.3		15.0			
1,4-Dioxane	+++++ 0.0032	+++++ 0.0032	+++++ 0.0034	0.0020 0.0034	0.0027	Lin2	-0.146	0.0034							0.9990		0.9900
Bromodichloromethane	0.4240 0.4349	0.4383 0.4300	0.4263 0.4545	0.4375 0.4480	0.4250	Ave		0.4354				2.4		15.0			
2-Nitropropane	0.1112 0.0933	0.1075 0.0950	0.0955 0.1026	0.0914 0.1048	0.0894	Ave		0.0990				7.8		15.0			
2-Chloroethyl vinyl ether	0.1930 0.2681	0.2653 0.2771	0.2848 0.2867	0.2751 0.2827	0.2582	Ave		0.2657				11.0		15.0			
cis-1,3-Dichloropropene	0.6157 0.6621	0.6793 0.6734	0.6735 0.6816	0.6887 0.6632	0.6429	Ave		0.6645				3.4		15.0			
4-Methyl-2-pentanone (MIBK)	0.1709 0.1649	0.1706 0.1635	0.1751 0.1614	0.1759 0.1552	0.1641	Ave		0.1669				4.1		15.0			
Toluene	2.3453 1.7405	2.1125 1.7222	1.9828 1.7115	1.9060 1.6324	1.7720	Ave		1.8806				12.0		15.0			
trans-1,3-Dichloropropene	0.5358 0.5597	0.5430 0.5790	0.5664 0.5950	0.5724 0.5878	0.5535	Ave		0.5658				3.5		15.0			
Ethyl methacrylate	0.6778 0.5638	0.5940 0.5585	0.6186 0.5667	0.6018 0.5562	0.5569	Ave		0.5883				6.9		15.0			
1,1,2-Trichloroethane	0.3654 0.3607	0.3748 0.3684	0.3789 0.3652	0.3917 0.3514	0.3623	Ave		0.3688				3.2		15.0			
Tetrachloroethene	0.4856 0.4958	0.5095 0.5004	0.5251 0.4945	0.5124 0.4697	0.4932	Ave		0.4985				3.2		15.0			
1,3-Dichloropropane	0.6193 0.6462	0.6684 0.6463	0.6936 0.6409	0.6897 0.6163	0.6511	Ave		0.6524				4.2		15.0			
2-Hexanone	0.1592 0.1623	0.1731 0.1607	0.1657 0.1585	0.1756 0.1529	0.1619	Ave		0.1633				4.4		15.0			
n-Butyl acetate	0.3735 0.2776	0.2917 0.2868	0.3074 0.2981	0.2808 0.2736	0.2911	Ave		0.2978				10.0		15.0			
Chlorodibromomethane	0.2713 0.3104	0.2714 0.3284	0.3001 0.3388	0.3100 0.3333	0.3004	Ave		0.3071				8.0		15.0			
1,2-Dibromoethane (EDB)	0.3966 0.3764	0.4087 0.3824	0.3734 0.3834	0.3979 0.3767	0.3715	Ave		0.3852				3.4		15.0			
Chlorobenzene	1.2587 1.1848	1.3156 1.1806	1.2473 1.1603	1.2450 1.1178	1.1962	Ave		1.2118			0.3000	4.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39235-1 Analy Batch No.: 113395

SDG No.:

Instrument ID: HP45 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2013 14:15 Calibration End Date: 10/10/2013 17:55 Calibration ID: 19584

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,1,1,2-Tetrachloroethane	0.3978 0.4068	0.4207 0.4183	0.3962 0.4262	0.4100 0.4091	0.4019	Ave		0.4097				2.5		15.0			
Ethylbenzene	2.4003 1.9395	2.3179 1.9326	2.1627 1.9312	2.0799 1.8450	1.9962	Ave		2.0672				9.2		15.0			
m,p-Xylene	2.0472 1.5590	1.8196 1.5473	1.7637 1.5394	1.7043 1.4922	1.6123	Ave		1.6761				11.0		15.0			
o-Xylene	1.8985 1.6429	1.8653 1.5875	1.7979 1.5898	1.7270 1.5268	1.6568	Ave		1.6992				7.7		15.0			
Styrene	1.5371 1.3732	1.4568 1.3712	1.4614 1.3516	1.4429 1.2751	1.3912	Ave		1.4067				5.4		15.0			
Bromoform	0.1997 0.3011	0.2837 0.3285	0.2774 0.3425	0.2898 0.3506	0.2839	Ave		0.2952			0.1000	15.0		15.0			
Isopropylbenzene	2.1365 1.9535	2.0945 1.9322	2.0849 1.9282	2.0554 1.8514	1.9664	Ave		2.0003				4.8		15.0			
Cyclohexanone	0.0320 0.0132	0.0228 0.0118	0.0185 0.0120	0.0156 0.0118	0.0148	Lin2	0.0989	0.0127							0.9940		0.9900
1,1,2,2-Tetrachloroethane	0.8451 0.8397	0.8820 0.8279	0.8485 0.8395	0.8777 0.8292	0.8160	Ave		0.8451			0.3000	2.6		15.0			
Bromobenzene	1.6170 1.3471	1.5158 1.3594	1.4837 1.3579	1.4213 1.3795	1.3373	Ave		1.4243				6.7		15.0			
1,2,3-Trichloropropane	+++++ 0.2502	0.2155 0.2515	0.2310 0.2566	0.2545 0.2494	0.2384	Ave		0.2434				5.8		15.0			
trans-1,4-Dichloro-2-butene	+++++ 0.2122	+++++ 0.2234	0.1979 0.2363	0.2030 0.2416	0.1973	Ave		0.2160				8.4		15.0			
N-Propylbenzene	4.1775 3.7235	4.2634 3.7749	4.0244 3.8071	3.9092 3.7479	3.7550	Ave		3.9092				5.1		15.0			
2-Chlorotoluene	2.7128 2.3476	2.7714 2.3451	2.6276 2.3811	2.5579 2.3379	2.3915	Ave		2.4970				6.9		15.0			
1,3,5-Trimethylbenzene	3.1179 2.7487	3.0220 2.7741	2.8249 2.7877	2.8479 2.7069	2.7463	Ave		2.8418				4.9		15.0			
4-Chlorotoluene	3.2954 2.7265	3.0949 2.6918	3.0792 2.7592	3.0229 2.6967	2.7241	Ave		2.8990				7.8		15.0			
tert-Butylbenzene	2.4813 2.3355	2.4151 2.3323	2.4498 2.3498	2.3968 2.3258	2.3000	Ave		2.3763				2.6		15.0			
1,2,4-Trimethylbenzene	3.3126 2.8593	3.2361 2.8759	3.0872 2.8993	3.0905 2.8652	2.8846	Ave		3.0123				5.8		15.0			
sec-Butylbenzene	3.4346 3.1408	3.3286 3.1871	3.3679 3.2173	3.2813 3.2086	3.2083	Ave		3.2638				2.9		15.0			
1,3-Dichlorobenzene	1.8328 1.8096	1.8745 1.7892	1.8531 1.8232	1.9075 1.7792	1.8051	Ave		1.8305				2.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39235-1 Analy Batch No.: 113395

SDG No.:

Instrument ID: HP45 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2013 14:15 Calibration End Date: 10/10/2013 17:55 Calibration ID: 19584

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
p-Isopropyltoluene	3.1456 2.8566	3.0429 2.8607	2.9748 2.8995	2.9611 2.8333	2.8687	Ave		2.9381				3.5		15.0			
1,4-Dichlorobenzene	1.8070 1.7991	1.9955 1.8425	1.9136 1.8078	1.9496 1.7910	1.8405	Ave		1.8607				4.0		15.0			
1,2,3-Trimethylbenzene	3.3792 2.9156	3.2428 2.9359	3.1477 2.9795	3.1475 2.9405	2.9454	Ave		3.0704				5.4		15.0			
Benzyl chloride	0.9289 0.8092	0.9022 0.8477	0.8900 0.8860	0.8776 0.8858	0.8259	Ave		0.8726				4.4		15.0			
n-Butylbenzene	2.7135 2.3135	2.5079 2.3311	2.4928 2.3440	2.4012 2.3267	2.2779	Ave		2.4121				5.7		15.0			
1,2-Dichlorobenzene	1.6883 1.7508	1.8078 1.7746	1.8425 1.7705	1.8394 1.7066	1.7589	Ave		1.7710				3.0		15.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1840	+++++ 0.2009	0.1441 0.2334	0.1766 0.2254	0.1797	Lin2	-0.146	0.2105							0.9920		0.9900
1,3,5-Trichlorobenzene	1.5761 1.3436	1.2970 1.5175	1.4649 1.5538	1.3670 1.5103	1.4456	Ave		1.4529				6.7		15.0			
1,2,4-Trichlorobenzene	1.4138 1.4418	1.4379 1.4246	1.3972 1.5072	1.4410 1.4771	1.4179	Ave		1.4398				2.3		15.0			
Hexachlorobutadiene	0.6149 0.5965	0.5867 0.6021	0.6234 0.6134	0.6041 0.6032	0.5949	Ave		0.6044				1.9		15.0			
Naphthalene	3.1199 3.1645	3.1019 3.1919	3.1402 3.2909	3.2764 3.1948	3.0702	Ave		3.1723				2.4		15.0			
1,2,3-Trichlorobenzene	1.2918 1.2627	1.2414 1.2947	1.2952 1.3069	1.2962 1.2889	1.2490	Ave		1.2808				1.8		15.0			
Dibromofluoromethane (Surr)	0.2553 0.2495	0.2476 0.2425	0.2460 0.2502	0.2529 0.2500	0.2506	Ave		0.2494				1.5		15.0			
1,2-Dichloroethane-d4 (Surr)	0.3026 0.2866	0.2892 0.2759	0.2917 0.2861	0.3030 0.2749	0.2868	Ave		0.2885				3.4		15.0			
Toluene-d8 (Surr)	1.2852 1.2551	1.2918 1.2653	1.2783 1.2562	1.2908 1.2421	1.2802	Ave		1.2717				1.4		15.0			
4-Bromofluorobenzene (Surr)	0.8346 0.8435	0.8358 0.8453	0.8276 0.8564	0.8459 0.8662	0.8360	Ave		0.8435				1.4		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39235-1 Analy Batch No.: 113395

SDG No.:

Instrument ID: HP45 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2013 14:15 Calibration End Date: 10/10/2013 17:55 Calibration ID: 19584

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0005 490-113395/3	1010-07.D
Level 2	STD001 490-113395/4	1010-08.D
Level 3	STD002 490-113395/5	1010-09.D
Level 4	STD005 490-113395/6	1010-10.D
Level 5	STD010 490-113395/7	1010-11.D
Level 6	STD020 490-113395/8	1010-12.D
Level 7	ICIS 490-113395/9	1010-13.D
Level 8	STD100 490-113395/10	1010-14.D
Level 9	STD200 490-113395/11	1010-15.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Dichlorodifluoromethane	FB	Lin2	562 33994	1241 84156	2577 163316	7143 315375	16602	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Chloromethane	FB	Ave	1020 44292	2374 114985	4777 229254	11591 429654	23182	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Vinyl chloride	FB	Ave	1080 49939	2038 119458	4549 236863	11346 470046	24474	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Butadiene	FB	Ave	830 46013	1735 102967	3486 202478	9526 406779	20650	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Bromomethane	FB	Lin2	238 15462	584 40359	1308 90378	3576 146435	7281	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Chloroethane	FB	Ave	573 29600	1428 73089	2976 137156	7373 230411	15036	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Dichlorofluoromethane	FB	Ave	1964 78450	3832 187958	7312 364533	19137 691129	39324	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Trichlorofluoromethane	FB	Ave	1180 59400	2206 141299	4739 259000	12577 531911	29574	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Ethanol	FB	Ave	+++++ 15442	1071 38365	1899 71480	4323 133433	7934	+++++ 1000	50.0 2500	100 5000	250 10000	500
Diethyl ether	FB	Ave	885 33612	1714 83534	3872 161930	9402 322711	17146	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Acrolein	FB	Lin2	689 16208	1089 38545	1875 74587	4338 142279	7392	1.25 50.0	2.50 125	5.00 250	12.5 500	25.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	FB	Ave	844 32914	1489 80158	3189 154961	8063 292954	16454	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,1-Dichloroethene	FB	Ave	708 35018	1829 86300	3572 168553	8578 316440	17424	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Acetone	FB	Ave	551 19299	1082 47256	1864 92324	4962 180077	9009	2.50 100	5.00 250	10.0 500	25.0 1000	50.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39235-1 Analy Batch No.: 113395

SDG No.:

Instrument ID: HP45 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2013 14:15 Calibration End Date: 10/10/2013 17:55 Calibration ID: 19584

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Iodomethane	FB	Lin1	540 36187	1404 98318	2829 218066	8280 408998	16898	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Isopropyl alcohol	FB	Ave	608 24748	1322 58219	2609 105243	7277 209006	12471	5.00 200	10.0 500	20.0 1000	50.0 2000	100
Carbon disulfide	FB	Ave	3160 111272	6057 274395	11963 541902	29162 1039270	56399	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Acetonitrile	FB	Lin2	+++++ 41731	4002 93305	6024 183598	12795 354334	21414	+++++ 200	10.0 500	20.0 1000	50.0 2000	100
3-Chloro-1-propene	FB	Ave	+++++ 32397	1409 74150	2962 154401	8413 320581	14690	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Methyl acetate	FB	Ave	5592 201146	12073 482670	22547 941805	55207 1811603	99494	2.50 100	5.00 250	10.0 500	25.0 1000	50.0
Methylene Chloride	FB	Lin2	1830 40700	2874 97377	4999 189093	11286 366484	20878	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
tert-Butyl alcohol (TBA)	FB	Ave	855 36217	1668 83574	3683 169685	9629 333572	17278	5.00 200	10.0 500	20.0 1000	50.0 2000	100
Acrylonitrile	FB	Ave	4473 167402	9118 400665	18097 783421	45700 1499781	82908	5.00 200	10.0 500	20.0 1000	50.0 2000	100
Methyl tert-butyl ether	FB	Ave	3138 113575	6288 270278	12795 528949	31148 1010391	57683	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
trans-1,2-Dichloroethene	FB	Ave	1391 56972	2914 138666	5770 272298	14860 522098	28689	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Hexane	FB	Ave	1597 43268	2870 105229	4928 204602	11697 394847	22582	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,1-Dichloroethane	FB	Ave	1831 76436	3797 186069	7801 370154	18805 712497	34924	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Vinyl acetate	FB	Ave	6300 216241	12392 474300	23199 905937	58502 1741699	101311	1.00 40.0	2.00 100	4.00 200	10.0 400	20.0
Diisopropyl ether	FB	Ave	4439 144173	8544 346430	17039 680010	40164 1296094	73313	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Chloroprene	FB	Ave	1800 59556	3191 143424	6580 278889	15705 535975	30560	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Ethyl tert-butyl ether	FB	Ave	3536 126183	7365 314388	14068 612968	34774 1197630	63770	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
cis-1,2-Dichloroethene	FB	Ave	1556 71905	3927 174385	7544 344669	18986 671937	36412	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
2,2-Dichloropropane	FB	Ave	1776 56155	3182 135022	6246 266506	15170 512195	28629	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
2-Butanone (MEK)	FB	Ave	+++++ 23485	1092 57054	2334 112948	6142 218122	11292	+++++ 100	5.00 250	10.0 500	25.0 1000	50.0
Ethyl acetate	FB	Ave	+++++ 6130	341 16181	646 32492	1768 57964	3036	+++++ 40.0	2.00 100	4.00 200	10.0 400	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39235-1 Analy Batch No.: 113395

SDG No.:

Instrument ID: HP45 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2013 14:15 Calibration End Date: 10/10/2013 17:55 Calibration ID: 19584

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Propionitrile	FB	Ave	1574 62816	3510 150042	6936 294239	17207 579346	30497	5.00 200	10.0 500	20.0 1000	50.0 2000	100
Methacrylonitrile	FB	Ave	7438 267708	15398 635947	29465 1246572	72490 2356497	131664	5.00 200	10.0 500	20.0 1000	50.0 2000	100
Bromochloromethane	FB	Ave	456 25668	1234 61027	2654 118281	6992 221008	12610	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Chloroform	FB	Ave	2081 68401	3986 165615	7470 323905	18464 632627	34519	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Tetrahydrofuran	FB	Ave	+++++ 25176	+++++ 67195	3677 123459	7700 245238	12978	+++++ 40.0	+++++ 100	4.00 200	10.0 400	20.0
1,1,1-Trichloroethane	FB	Ave	1558 58451	3103 141767	6273 282938	15222 551028	29531	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Cyclohexane	FB	Ave	2503 68519	3701 166420	7342 316667	17112 627171	34628	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,1-Dichloropropene	FB	Ave	1413 49261	2676 121763	5272 240646	12855 468001	25065	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Carbon tetrachloride	FB	Ave	1295 49967	2479 124644	5283 249165	12759 483647	24842	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Isobutanol	FB	Ave	1424 47100	2553 112923	5676 224140	12888 444894	23322	5.00 200	10.0 500	20.0 1000	50.0 2000	100
Benzene	FB	Ave	4690 162716	9030 393586	18259 778759	45172 1507667	81760	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2-Dichloroethane	FB	Ave	1382 54118	2948 132981	5951 262101	14605 512932	26567	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Tert-amyl methyl ether	FB	Ave	3124 116855	6196 285529	12664 566378	30981 1106051	58383	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Heptane	FB	Ave	+++++ 37867	2354 90185	4028 182479	9852 357242	18453	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0
n-Butanol	FB	Lin2	1258 29348	2037 69770	3444 139968	8608 280098	14949	12.5 500	25.0 1250	50.0 2500	125 5000	250
Trichloroethene	FB	Ave	1100 43541	2339 106688	4499 212382	11278 410789	21714	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Ethyl acrylate	FB	Ave	+++++ 53456	+++++ 128030	6871 256479	15063 508834	26576	+++++ 20.0	+++++ 50.0	2.00 100	5.00 200	10.0
Methylcyclohexane	FB	Ave	1604 56800	2821 138349	5934 272054	13926 523985	27968	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2-Dichloropropane	FB	Ave	1250 43928	2322 107054	4858 212528	11684 410727	21992	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Methyl methacrylate	FB	Ave	2190 79009	4284 196671	8431 389071	20369 773554	38712	1.00 40.0	2.00 100	4.00 200	10.0 400	20.0
Dibromomethane	FB	Ave	597 23958	1032 58895	2484 112720	6076 213538	11753	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39235-1 Analy Batch No.: 113395

SDG No.:

Instrument ID: HP45 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2013 14:15 Calibration End Date: 10/10/2013 17:55 Calibration ID: 19584

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,4-Dioxane	FB	Lin2	+++++ 7719	+++++ 19885	+++++ 40591	1263 81629	3244	+++++ 400	+++++ 1000	+++++ 2000	100 4000	200
Bromodichloromethane	FB	Ave	1335 53060	2861 133416	5502 269442	13735 533428	25964	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
2-Nitropropane	FB	Ave	700 22774	1403 58945	2465 121636	5738 249595	10923	1.00 40.0	2.00 100	4.00 200	10.0 400	20.0
2-Chloroethyl vinyl ether	CBZ	Ave	488 26990	1341 68788	2864 140656	6891 280784	12875	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
cis-1,3-Dichloropropene	CBZ	Ave	1557 66652	3434 167193	6772 334357	17254 658557	32053	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	2161 82982	4312 203026	8802 395970	22036 770633	40908	2.50 100	5.00 250	10.0 500	25.0 1000	50.0
Toluene	CBZ	Ave	5931 175198	10680 427598	19936 839509	47750 1621015	88350	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
trans-1,3-Dichloropropene	CBZ	Ave	1355 56345	2745 143743	5695 291854	14339 583745	27595	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Ethyl methacrylate	CBZ	Ave	1714 56758	3003 138675	6220 277995	15076 552307	27765	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,1,2-Trichloroethane	CBZ	Ave	924 36308	1895 91474	3810 179147	9814 348987	18065	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Tetrachloroethene	CBZ	Ave	1228 49904	2576 124244	5280 242555	12836 466434	24592	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,3-Dichloropropane	CBZ	Ave	1566 65045	3379 160454	6974 314375	17279 612060	32463	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
2-Hexanone	CBZ	Ave	2013 81705	4376 199471	8332 388829	21994 759298	40367	2.50 100	5.00 250	10.0 500	25.0 1000	50.0
n-Butyl acetate	FB	Ave	1176 33860	1904 88982	3967 176738	8815 325710	17785	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Chlorodibromomethane	CBZ	Ave	686 31243	1372 81543	3017 166188	7766 330981	14977	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2-Dibromoethane (EDB)	CBZ	Ave	1003 37887	2066 94932	3754 188054	9968 374070	18521	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Chlorobenzene	CBZ	Ave	3183 119267	6651 293116	12541 569170	31189 1110074	59640	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	1006 40948	2127 103859	3984 209065	10272 406227	20039	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Ethylbenzene	CBZ	Ave	6070 195235	11718 479835	21745 947298	52106 1832158	99529	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
m,p-Xylene	CBZ	Ave	5177 156936	9199 384163	17733 755113	42696 1481827	80389	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
o-Xylene	CBZ	Ave	4801 165380	9430 394140	18077 779840	43265 1516220	82608	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39235-1 Analy Batch No.: 113395

SDG No.:

Instrument ID: HP45 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2013 14:15 Calibration End Date: 10/10/2013 17:55 Calibration ID: 19584

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Styrene	CBZ	Ave	3887 138233	7365 340447	14694 662999	36148 1266263	69367	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Bromoform	CBZ	Ave	505 30308	1434 81560	2789 168011	7260 348113	14153	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Isopropylbenzene	CBZ	Ave	5403 196640	10589 479722	20963 945825	51493 1838524	98042	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Cyclohexanone	FB	Lin2	1007 16148	1491 36736	2382 71119	4900 140609	9070	5.00 200	10.0 500	20.0 1000	50.0 2000	100
1,1,2,2-Tetrachloroethane	DCB	Ave	1281 49715	2661 119816	5105 237136	13006 465985	24247	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Bromobenzene	DCB	Ave	2451 79753	4573 196740	8927 383585	21063 775271	39736	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2,3-Trichloropropane	DCB	Ave	+++++ 14812	650 36405	1390 72481	3772 140163	7084	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0
trans-1,4-Dichloro-2-butene	DCB	Ave	+++++ 12565	+++++ 32336	1191 66757	3009 135763	5862	+++++ 20.0	+++++ 50.0	2.00 100	5.00 200	10.0
N-Propylbenzene	DCB	Ave	6332 220443	12862 546323	24214 1075435	57931 2106224	111578	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
2-Chlorotoluene	DCB	Ave	4112 138989	8361 339396	15810 672608	37906 1313861	71061	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,3,5-Trimethylbenzene	DCB	Ave	4726 162731	9117 401486	16997 787465	42203 1521233	81605	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
4-Chlorotoluene	DCB	Ave	4995 161416	9337 389575	18527 779415	44796 1515486	80945	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
tert-Butylbenzene	DCB	Ave	3761 138272	7286 337536	14740 663778	35518 1307066	68343	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2,4-Trimethylbenzene	DCB	Ave	5021 169283	9763 416221	18575 818991	45799 1610205	85714	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
sec-Butylbenzene	DCB	Ave	5206 185949	10042 461257	20264 908826	48626 1803188	95334	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,3-Dichlorobenzene	DCB	Ave	2778 107132	5655 258949	11150 515033	28267 999853	53637	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
p-Isopropyltoluene	DCB	Ave	4768 169123	9180 414016	17899 819064	43881 1592267	85241	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,4-Dichlorobenzene	DCB	Ave	2739 106511	6020 266661	11514 510685	28892 1006511	54690	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2,3-Trimethylbenzene	DCB	Ave	5122 172612	9783 424897	18939 841665	46643 1652498	87522	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Benzyl chloride	CBZ	Ave	2349 81458	4561 210464	8949 434592	21985 879680	41179	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
n-Butylbenzene	DCB	Ave	4113 136967	7566 337366	14999 662129	35583 1307580	67686	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0

FORM VI

GC/MS VOA INITIAL CALIBRATION DATA

INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39235-1 Analy Batch No.: 113395

SDG No.:

Instrument ID: HP45 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2013 14:15 Calibration End Date: 10/10/2013 17:55 Calibration ID: 19584

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,2-Dichlorobenzene	DCB	Ave	2559 103655	5454 256828	11086 500124	27258 959080	52266	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2-Dibromo-3-Chloropropane	DCB	Lin2	+++++ 10894	+++++ 29080	867 65932	2617 126697	5339	+++++ 20.0	+++++ 50.0	2.00 100	5.00 200	10.0
1,3,5-Trichlorobenzene	DCB	Ave	2389 79544	3913 219627	8814 438917	20257 848780	42956	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2,4-Trichlorobenzene	DCB	Ave	2143 85358	4338 206178	8407 425752	21355 830089	42131	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Hexachlorobutadiene	DCB	Ave	932 35315	1770 87139	3751 173275	8952 338973	17677	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Naphthalene	DCB	Ave	4729 187349	9358 461941	18894 929630	48553 1795412	91229	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2,3-Trichlorobenzene	DCB	Ave	1958 74757	3745 187378	7793 369183	19209 724326	37114	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Dibromofluoromethane (Surr)	FB	Ave	80389 76083	80821 75255	79381 74160	79396 74403	76566	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	95286 87418	94377 85615	94130 84791	95135 81823	87611	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
Toluene-d8 (Surr)	CBZ	Ave	325004 315861	326540 314143	321320 308103	323381 308361	319143	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
4-Bromofluorobenzene (Surr)	DCB	Ave	126509 124846	126070 122341	124488 120957	125349 121700	124203	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-07.D
Lims ID: STD0005 Client ID:
Inject. Date: 10-Oct-2013 14:15:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: STD0005
Misc. Info.: 490-0026494-003
Operator: MJH HP45 Instrument ID: HP45
Purge Vol: 5.000 mL ALS Bottle#: 7
Lims Batch ID: 113395 Lims Sample ID: 3
Sublist: chrom-8260HP45*sub15
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP45\20131010-26494.b\8260HP45.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 11-Oct-2013 12:18:40 Calib Date: 10-Oct-2013 17:55:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK021

First Level Reviewer: matlockbe Date: 11-Oct-2013 12:18:40

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.784	3.784	0.0	98	314839	50.0	
* 2 Chlorobenzene-d5	117	6.109	6.109	0.0	84	252885	50.0	
* 3 1,4-Dichlorobenzene-d4	152	8.236	8.241	-0.005	93	151575	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.342	3.343	-0.001	57	80389	51.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.563	3.563	0.0	91	95286	52.4	
$ 6 Toluene-d8 (Surr)	98	4.926	4.927	-0.001	84	325004	50.5	
$ 8 4-Bromofluorobenzene (Surr)	95	7.155	7.155	0.0	95	126509	49.5	
9 Dichlorodifluoromethane	85	1.216	1.216	0.0	1	562	0.5386	M
10 Chloromethane	50	1.329	1.329	0.0	37	1020	0.4434	
11 Vinyl chloride	62	1.385	1.385	0.0	19	1080	0.4596	
12 Butadiene	54	1.408	1.408	0.0	38	830	0.4187	
13 Bromomethane	96	1.578	1.578	0.0	8	238	0.5305	
14 Chloroethane	64	1.628	1.629	-0.001	15	573	0.4064	
15 Dichlorofluoromethane	67	1.736	1.730	0.006	4	1964	0.5127	
16 Trichlorofluoromethane	101	1.770	1.770	0.0	18	1180	0.4449	
18 Ethyl ether	59	1.923	1.923	0.0	73	885	0.5034	
19 Acrolein	56	2.002	1.996	0.006	31	689	1.27	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.047	2.047	0.0	7	844	0.5234	
21 1,1-Dichloroethene	96	2.058	2.053	0.005	40	708	0.4121	
22 Acetone	58	2.075	2.081	-0.006	71	551	2.80	
23 Iodomethane	142	2.143	2.143	0.0	16	540	0.7156	
24 Isopropyl alcohol	45	2.143	2.149	-0.006	1	608	4.89	
25 Carbon disulfide	76	2.188	2.189	-0.001	79	3160	0.5446	
26 Acetonitrile	40	2.239	2.245	-0.006	74	2353	2.14	
27 3-Chloro-1-propene	76	2.251	2.251	0.0	72	436	0.2786	
28 Methyl acetate	43	2.256	2.256	0.0	95	5592	2.65	
29 Methylene Chloride	84	2.319	2.313	0.006	55	1830	0.5035	
30 2-Methyl-2-propanol	59	2.370	2.370	0.0	57	855	4.82	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
31 Acrylonitrile	53	2.449	2.449	0.0	73	4473	5.21	
32 Methyl tert-butyl ether	73	2.466	2.466	0.0	70	3138	0.5320	
33 trans-1,2-Dichloroethene	61	2.466	2.471	-0.005	29	1391	0.4861	
34 Hexane	57	2.613	2.619	-0.005	62	1597	0.6633	
35 1,1-Dichloroethane	63	2.715	2.709	0.006	1	1831	0.4858	
36 Vinyl acetate	43	2.726	2.726	0.0	77	6300	1.16	
37 Isopropyl ether	45	2.737	2.737	0.0	74	4439	0.5741	
38 2-Chloro-1,3-butadiene	53	2.760	2.760	0.0	52	1800	0.5792	
39 Tert-butyl ethyl ether	59	2.947	2.952	-0.006	80	3536	0.5275	
40 cis-1,2-Dichloroethene	61	3.048	3.054	-0.006	14	1556	0.4295	
41 2,2-Dichloropropane	77	3.054	3.054	0.0	31	1776	0.5955	
44 Propionitrile	54	3.105	3.099	0.006	0	1574	4.89	
45 Methacrylonitrile	41	3.190	3.190	0.0	78	7438	5.37	
46 Chlorobromomethane	130	3.201	3.201	0.0	4	456	0.3701	
48 Chloroform	83	3.241	3.241	0.0	20	2081	0.5747	
49 1,1,1-Trichloroethane	97	3.365	3.365	0.0	12	1558	0.5178	
50 Cyclohexane	56	3.405	3.405	0.0	59	2503	0.6878	
51 1,1-Dichloropropene	75	3.467	3.467	0.0	1	1413	0.5485	
52 Carbon tetrachloride	117	3.473	3.473	0.0	30	1295	0.5069	
53 Isobutyl alcohol	43	3.529	3.524	0.005	53	1424	5.69	
54 Benzene	78	3.608	3.608	0.0	61	4690	0.5474	
55 1,2-Dichloroethane	62	3.614	3.614	0.0	7	1382	0.4942	
56 Tert-amyl methyl ether	73	3.671	3.671	0.0	70	3124	0.5175	
57 n-Heptane	43	3.761	3.761	0.0	25	1558	0.7926	
58 n-Butanol	56	3.970	3.971	0.0	43	1258	12.6	
59 Trichloroethene	130	4.033	4.033	0.0	36	1100	0.4952	
60 Ethyl acrylate	55	4.095	4.095	0.0	15	2373	0.8354	
61 Methylcyclohexane	83	4.168	4.174	-0.006	41	1604	0.5574	
62 1,2-Dichloropropane	63	4.197	4.197	0.0	27	1250	0.5464	
63 Methyl methacrylate	41	4.265	4.259	0.006	38	2190	1.07	
64 Dibromomethane	93	4.282	4.276	0.006	55	597	0.5074	
66 Dichlorobromomethane	83	4.383	4.383	0.0	1	1335	0.4869	
67 2-Nitropropane	43	4.553	4.553	0.0	56	700	1.12	
68 2-Chloroethyl vinyl ether	63	4.604	4.598	0.006	1	488	0.3632	
69 cis-1,3-Dichloropropene	75	4.711	4.712	-0.001	5	1557	0.4633	
70 4-Methyl-2-pentanone (MIBK)	58	4.836	4.836	0.0	85	2161	2.56	
71 Toluene	91	4.977	4.977	0.0	62	5931	0.6236	
72 trans-1,3-Dichloropropene	75	5.141	5.141	0.0	3	1355	0.4735	
73 Ethyl methacrylate	69	5.215	5.215	0.0	13	1714	0.5761	
74 1,1,2-Trichloroethane	97	5.288	5.294	-0.006	2	924	0.4954	
75 Tetrachloroethene	166	5.413	5.413	0.0	38	1228	0.4871	
76 1,3-Dichloropropane	76	5.430	5.430	0.0	19	1566	0.4746	
77 2-Hexanone	58	5.498	5.498	0.0	57	2013	2.44	
78 n-Butyl acetate	43	5.600	5.600	0.0	1	1176	0.6271	
79 Chlorodibromomethane	127	5.617	5.617	0.0	1	686	0.4416	
80 Ethylene Dibromide	107	5.713	5.718	-0.005	36	1003	0.5148	
81 Chlorobenzene	112	6.131	6.131	0.0	50	3183	0.5193	
82 1,1,1,2-Tetrachloroethane	131	6.199	6.199	0.0	4	1006	0.4855	
83 Ethylbenzene	91	6.228	6.222	0.006	38	6070	0.5806	
84 m-Xylene & p-Xylene	91	6.329	6.329	0.0	50	5177	0.6107	
85 o-Xylene	91	6.680	6.680	0.0	54	4801	0.5587	
86 Styrene	104	6.691	6.691	0.0	51	3887	0.5463	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
87 Bromoform	173	6.855	6.856	-0.001	1	505	0.3382	
88 Isopropylbenzene	105	7.014	7.014	0.0	51	5403	0.5340	
89 Cyclohexanone	55	7.104	7.104	0.0	1	1007	4.81	
90 Bromobenzene	77	7.291	7.291	0.0	31	2451	0.5676	
91 1,1,2,2-Tetrachloroethane	83	7.291	7.291	0.0	1	1281	0.5000	
94 N-Propylbenzene	91	7.393	7.393	0.0	58	6332	0.5343	
95 2-Chlorotoluene	91	7.472	7.472	0.0	24	4112	0.5432	
96 1,3,5-Trimethylbenzene	105	7.563	7.563	0.0	36	4726	0.5486	
97 4-Chlorotoluene	91	7.574	7.574	0.0	30	4995	0.5684	
98 tert-Butylbenzene	119	7.868	7.868	0.0	19	3761	0.5221	
100 1,2,4-Trimethylbenzene	105	7.913	7.913	0.0	33	5021	0.5498	
101 sec-Butylbenzene	105	8.077	8.077	0.0	24	5206	0.5262	
102 1,3-Dichlorobenzene	146	8.179	8.174	0.005	21	2778	0.5006	
103 4-Isopropyltoluene	119	8.219	8.219	0.0	32	4768	0.5353	
104 1,4-Dichlorobenzene	146	8.264	8.264	0.0	1	2739	0.4856	
105 1,2,3-Trimethylbenzene	105	8.315	8.315	0.0	0	5122	0.5503	
106 Benzyl chloride	91	8.394	8.394	0.0	4	2349	0.5323	
107 n-Butylbenzene	91	8.615	8.615	0.0	43	4113	0.5625	
108 1,2-Dichlorobenzene	146	8.615	8.615	0.0	17	2559	0.4766	
110 1,3,5-Trichlorobenzene	180	9.593	9.593	0.0	1	2389	0.5424	
111 1,2,4-Trichlorobenzene	180	10.301	10.295	0.005	1	2143	0.4910	
112 Hexachlorobutadiene	225	10.521	10.521	0.0	1	932	0.5087	
113 Naphthalene	128	10.595	10.595	0.0	1	4729	0.4917	
114 1,2,3-Trichlorobenzene	180	10.872	10.872	0.0	1	1958	0.5043	
S 119 Xylenes, Total	1				0		1.17	
S 120 1,2-Dichloroethene, Total	1				0		0.9156	

QC Flag Legend

Review Flags
M - Manually Integrated

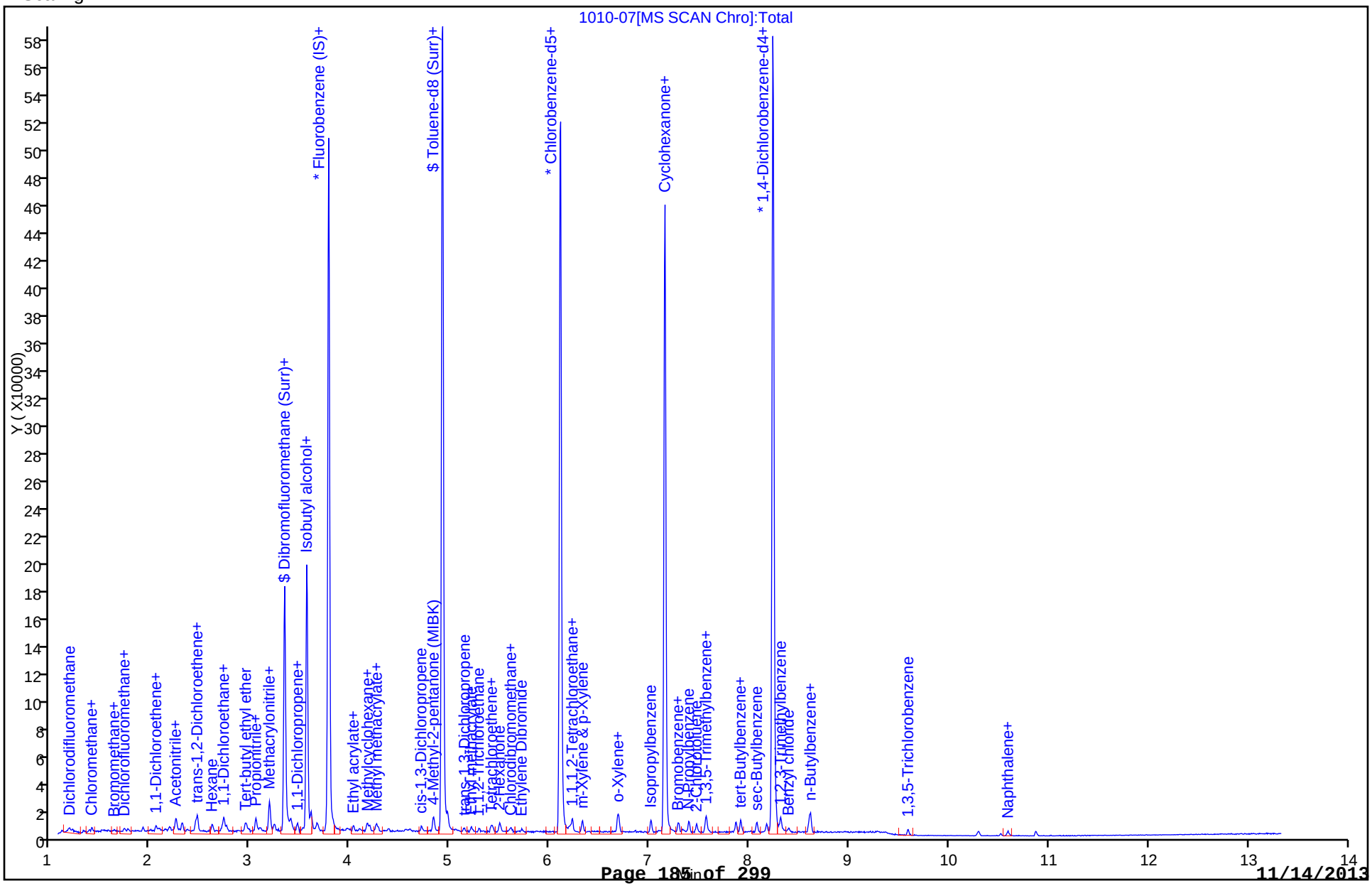
Report Date: 11-Oct-2013 12:18:40 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-07.D

Injection Date:	10-Oct-2013 14:15:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP45
Lims Batch ID:	113395	Lims Sample ID:	3
Operator ID:	MJH HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Manual Integration/User Assign Peak Report

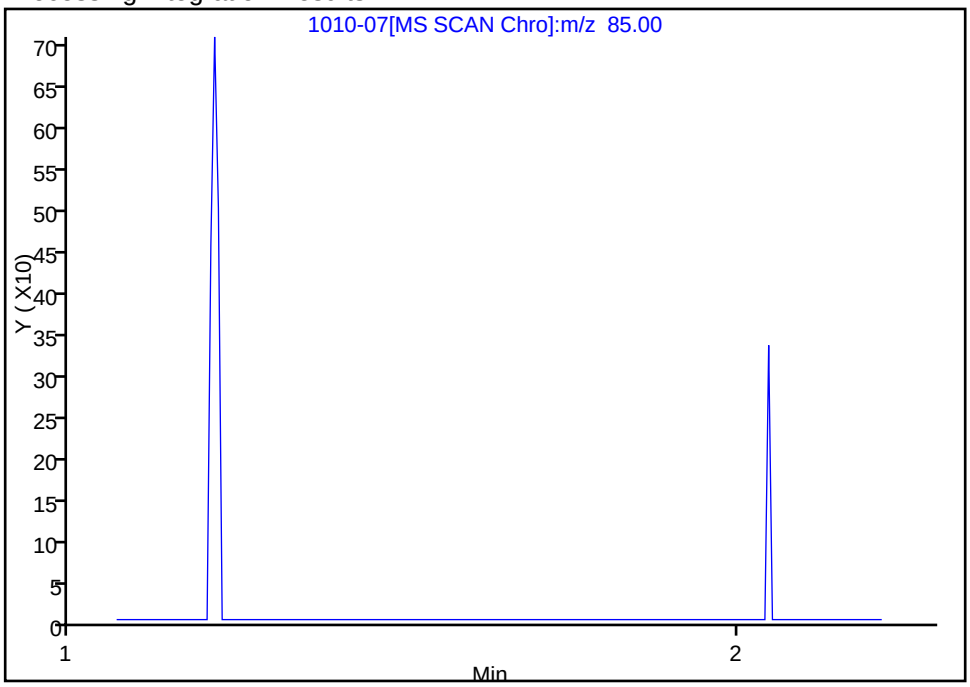
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-07.D		
Injection Date:	10-Oct-2013 14:15:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP45
Lims Batch ID:	113395	Lims Sample ID:	3
Operator ID:	MJH HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

9 Dichlorodifluoromethane, Signal: 1, m/z: 85.0 Type: quant, RT: 1.22

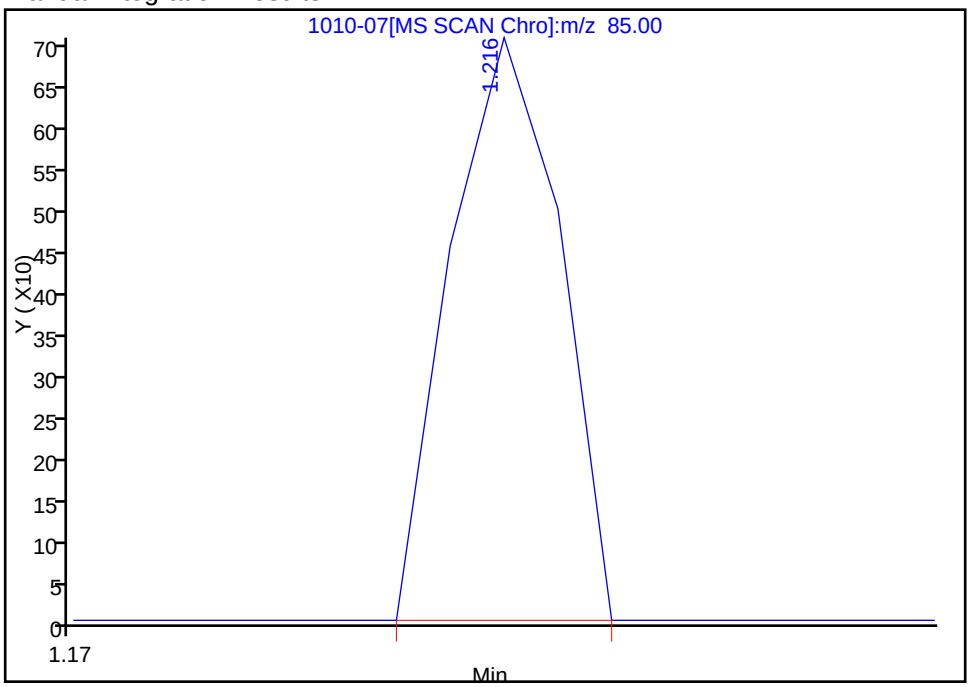
Processing Integration Results

Not Detected
Expected RT: 1.22



Manual Integration Results

RT: 1.22
Response: 562
Amount: 0.538568



Reviewer: matlockbe, 11-Oct-2013 10:45:24
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-08.D
Lims ID: STD001 Client ID:
Inject. Date: 10-Oct-2013 14:43:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: STD001
Misc. Info.: 490-0026494-004
Operator: MJH HP45 Instrument ID: HP45
Purge Vol: 5.000 mL ALS Bottle#: 8
Lims Batch ID: 113395 Lims Sample ID: 4
Sublist: chrom-8260HP45*sub15
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP45\20131010-26494.b\8260HP45.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 11-Oct-2013 12:03:55 Calib Date: 10-Oct-2013 17:55:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK021

First Level Reviewer: matlockbe Date: 11-Oct-2013 12:03:55

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.784	3.784	0.0	99	326365	50.0	
* 2 Chlorobenzene-d5	117	6.109	6.109	0.0	83	252776	50.0	
* 3 1,4-Dichlorobenzene-d4	152	8.241	8.241	0.0	93	150843	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.342	3.343	-0.001	74	80821	49.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.563	3.563	0.0	90	94377	50.1	
$ 6 Toluene-d8 (Surr)	98	4.926	4.927	-0.001	84	326540	50.8	
$ 8 4-Bromofluorobenzene (Surr)	95	7.155	7.155	0.0	95	126070	49.5	
9 Dichlorodifluoromethane	85	1.215	1.216	-0.001	29	1241	0.9227	
10 Chloromethane	50	1.329	1.329	0.0	40	2374	1.00	
11 Vinyl chloride	62	1.385	1.385	0.0	21	2038	0.8305	
12 Butadiene	54	1.408	1.408	0.0	55	1735	0.8283	
13 Bromomethane	96	1.578	1.578	0.0	11	584	0.9359	
14 Chloroethane	64	1.634	1.629	0.005	16	1428	0.9754	
15 Dichlorofluoromethane	67	1.736	1.730	0.006	20	3832	0.9651	
16 Trichlorofluoromethane	101	1.770	1.770	0.0	18	2206	0.7891	
17 Ethanol	45	1.855	1.866	-0.011	40	1071	61.8	
18 Ethyl ether	59	1.923	1.923	0.0	79	1714	0.9405	
19 Acrolein	56	1.996	1.996	0.0	41	1089	2.44	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.047	2.047	0.0	11	1489	0.8907	
21 1,1-Dichloroethene	96	2.053	2.053	0.0	52	1829	1.03	
22 Acetone	58	2.081	2.081	0.0	89	1082	5.30	
23 Iodomethane	142	2.143	2.143	0.0	53	1404	1.08	
24 Isopropyl alcohol	45	2.143	2.149	-0.006	17	1322	10.3	
25 Carbon disulfide	76	2.188	2.189	-0.001	77	6057	1.01	
26 Acetonitrile	40	2.245	2.245	0.0	68	4002	9.77	
27 3-Chloro-1-propene	76	2.251	2.251	0.0	90	1409	0.8687	
28 Methyl acetate	43	2.256	2.256	0.0	95	12073	5.52	
29 Methylene Chloride	84	2.319	2.313	0.006	66	2874	0.9710	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
30 2-Methyl-2-propanol	59	2.369	2.370	-0.001	53	1668	9.07	
31 Acrylonitrile	53	2.454	2.449	0.005	93	9118	10.2	
32 Methyl tert-butyl ether	73	2.466	2.466	0.0	82	6288	1.02	
33 trans-1,2-Dichloroethene	61	2.471	2.471	0.0	27	2914	0.9825	
34 Hexane	57	2.618	2.619	0.0	73	2870	1.14	
35 1,1-Dichloroethane	63	2.709	2.709	0.0	1	3797	0.9718	
36 Vinyl acetate	43	2.726	2.726	0.0	97	12392	2.20	
37 Isopropyl ether	45	2.737	2.737	0.0	76	8544	1.07	
38 2-Chloro-1,3-butadiene	53	2.760	2.760	0.0	67	3191	0.99	
39 Tert-butyl ethyl ether	59	2.952	2.952	0.0	84	7365	1.06	
40 cis-1,2-Dichloroethene	61	3.054	3.054	0.0	20	3927	1.05	
41 2,2-Dichloropropane	77	3.054	3.054	0.0	43	3182	1.03	
42 2-Butanone (MEK)	72	3.065	3.060	0.005	93	1092	4.54	
43 Ethyl acetate	45	3.088	3.088	0.0	1	341	1.98	
44 Propionitrile	54	3.099	3.099	0.0	0	3510	10.5	
45 Methacrylonitrile	41	3.190	3.190	0.0	93	15398	10.7	
46 Chlorobromomethane	130	3.207	3.201	0.006	37	1234	0.9663	
48 Chloroform	83	3.241	3.241	0.0	52	3986	1.06	
47 Tetrahydrofuran	42	3.241	3.241	0.0	22	2671	3.63	
49 1,1,1-Trichloroethane	97	3.365	3.365	0.0	47	3103	0.99	
50 Cyclohexane	56	3.405	3.405	0.0	62	3701	0.9810	
51 1,1-Dichloropropene	75	3.473	3.467	0.006	41	2676	1.00	
52 Carbon tetrachloride	117	3.473	3.473	0.0	65	2479	0.9362	
53 Isobutyl alcohol	43	3.524	3.524	0.0	65	2553	9.84	
54 Benzene	78	3.608	3.608	0.0	89	9030	1.02	
55 1,2-Dichloroethane	62	3.614	3.614	0.0	39	2948	1.02	
56 Tert-amyl methyl ether	73	3.671	3.671	0.0	76	6196	0.99	
57 n-Heptane	43	3.755	3.761	-0.006	69	2354	1.15	
58 n-Butanol	56	3.965	3.971	-0.005	61	2037	24.5	
59 Trichloroethene	130	4.033	4.033	0.0	49	2339	1.02	
60 Ethyl acrylate	55	4.095	4.095	0.0	35	4017	1.36	
61 Methylcyclohexane	83	4.174	4.174	0.0	48	2821	0.9456	
62 1,2-Dichloropropane	63	4.197	4.197	0.0	37	2322	0.9796	
63 Methyl methacrylate	41	4.265	4.259	0.006	58	4284	2.01	
64 Dibromomethane	93	4.276	4.276	0.0	63	1032	0.8461	
66 Dichlorobromomethane	83	4.383	4.383	0.0	28	2861	1.01	
67 2-Nitropropane	43	4.553	4.553	0.0	64	1403	2.17	
68 2-Chloroethyl vinyl ether	63	4.598	4.598	0.0	32	1341	1.00	
69 cis-1,3-Dichloropropene	75	4.717	4.712	0.005	45	3434	1.02	
70 4-Methyl-2-pentanone (MIBK)	58	4.836	4.836	0.0	83	4312	5.11	
71 Toluene	91	4.977	4.977	0.0	71	10680	1.12	
72 trans-1,3-Dichloropropene	75	5.141	5.141	0.0	39	2745	0.9596	
73 Ethyl methacrylate	69	5.215	5.215	0.0	53	3003	1.01	
74 1,1,2-Trichloroethane	97	5.294	5.294	0.0	26	1895	1.02	
75 Tetrachloroethene	166	5.413	5.413	0.0	63	2576	1.02	
76 1,3-Dichloropropane	76	5.430	5.430	0.0	50	3379	1.02	
77 2-Hexanone	58	5.498	5.498	0.0	86	4376	5.30	
78 n-Butyl acetate	43	5.600	5.600	0.0	1	1904	1.00	
79 Chlorodibromomethane	127	5.617	5.617	0.0	1	1372	0.8853	
80 Ethylene Dibromide	107	5.718	5.718	0.0	39	2066	1.06	
81 Chlorobenzene	112	6.131	6.131	0.0	70	6651	1.09	
82 1,1,1,2-Tetrachloroethane	131	6.199	6.199	0.0	37	2127	1.03	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
83 Ethylbenzene	91	6.222	6.222	0.0	73	11718	1.12	
84 m-Xylene & p-Xylene	91	6.329	6.329	0.0	86	9199	1.09	
85 o-Xylene	91	6.680	6.680	0.0	74	9430	1.10	
86 Styrene	104	6.691	6.691	0.0	73	7365	1.04	
87 Bromoform	173	6.855	6.856	-0.001	14	1434	0.9608	
88 Isopropylbenzene	105	7.014	7.014	0.0	60	10589	1.05	
89 Cyclohexanone	55	7.110	7.104	0.006	16	1491	10.2	
90 Bromobenzene	77	7.291	7.291	0.0	57	4573	1.06	
91 1,1,2,2-Tetrachloroethane	83	7.291	7.291	0.0	1	2661	1.04	
92 1,2,3-Trichloropropane	110	7.331	7.331	0.0	17	650	1.17	
93 trans-1,4-Dichloro-2-butene	53	7.348	7.347	0.001	1	429	0.6564	
94 N-Propylbenzene	91	7.393	7.393	0.0	68	12862	1.09	
95 2-Chlorotoluene	91	7.472	7.472	0.0	63	8361	1.11	
96 1,3,5-Trimethylbenzene	105	7.563	7.563	0.0	64	9117	1.06	
97 4-Chlorotoluene	91	7.574	7.574	0.0	60	9337	1.07	
98 tert-Butylbenzene	119	7.868	7.868	0.0	53	7286	1.02	
100 1,2,4-Trimethylbenzene	105	7.913	7.913	0.0	53	9763	1.07	
101 sec-Butylbenzene	105	8.077	8.077	0.0	41	10042	1.02	
102 1,3-Dichlorobenzene	146	8.173	8.174	-0.001	49	5655	1.02	
103 4-Isopropyltoluene	119	8.219	8.219	0.0	69	9180	1.04	
104 1,4-Dichlorobenzene	146	8.264	8.264	0.0	48	6020	1.07	
105 1,2,3-Trimethylbenzene	105	8.315	8.315	0.0	0	9783	1.06	
106 Benzyl chloride	91	8.394	8.394	0.0	44	4561	1.03	
107 n-Butylbenzene	91	8.615	8.615	0.0	67	7566	1.04	
108 1,2-Dichlorobenzene	146	8.615	8.615	0.0	38	5454	1.02	
109 1,2-Dibromo-3-Chloropropane	157	9.373	9.373	0.0	1	372	1.28	
110 1,3,5-Trichlorobenzene	180	9.593	9.593	0.0	36	3913	0.8927	
111 1,2,4-Trichlorobenzene	180	10.300	10.295	0.005	4	4338	1.00	
112 Hexachlorobutadiene	225	10.515	10.521	-0.006	1	1770	0.9708	
113 Naphthalene	128	10.595	10.595	0.0	16	9358	0.9778	
114 1,2,3-Trichlorobenzene	180	10.872	10.872	0.0	30	3745	0.9692	
S 119 Xylenes, Total	1				0		2.18	
S 120 1,2-Dichloroethene, Total	1				0		2.03	

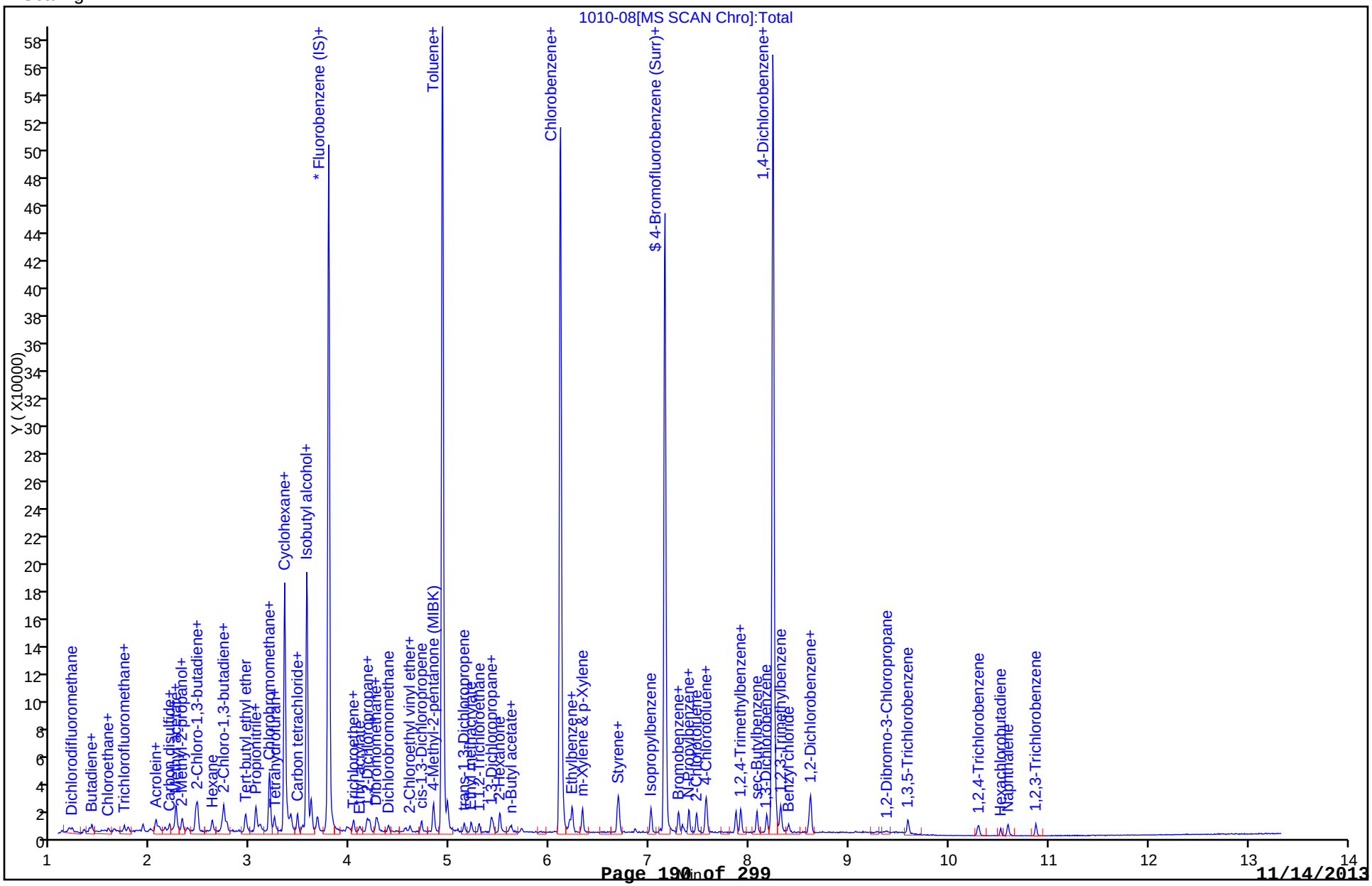
Report Date: 11-Oct-2013 12:03:55 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-08.D

Injection Date:	10-Oct-2013 14:43:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP45
Lims Batch ID:	113395	Lims Sample ID:	4
Operator ID:	MJH HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-09.D
Lims ID: STD002 Client ID:
Inject. Date: 10-Oct-2013 15:10:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: STD002
Misc. Info.: 490-0026494-005
Operator: MJH HP45 Instrument ID: HP45
Purge Vol: 5.000 mL ALS Bottle#: 9
Lims Batch ID: 113395 Lims Sample ID: 5
Sublist: chrom-8260HP45*sub15
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP45\20131010-26494.b\8260HP45.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 11-Oct-2013 11:11:35 Calib Date: 10-Oct-2013 17:55:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK021

First Level Reviewer: matlockbe Date: 11-Oct-2013 11:11:35

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.784	3.784	0.0	99	322670	50.0	
* 2 Chlorobenzene-d5	117	6.109	6.109	0.0	84	251365	50.0	
* 3 1,4-Dichlorobenzene-d4	152	8.236	8.241	-0.005	93	150421	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.343	3.343	0.0	58	79381	49.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.563	3.563	0.0	91	94130	50.6	
$ 6 Toluene-d8 (Surr)	98	4.927	4.927	0.0	84	321320	50.3	
$ 8 4-Bromofluorobenzene (Surr)	95	7.155	7.155	0.0	96	124488	49.1	
9 Dichlorodifluoromethane	85	1.216	1.216	0.0	28	2577	1.72	
10 Chloromethane	50	1.329	1.329	0.0	40	4777	2.03	
11 Vinyl chloride	62	1.385	1.385	0.0	34	4549	1.87	
12 Butadiene	54	1.408	1.408	0.0	73	3486	1.68	
13 Bromomethane	96	1.578	1.578	0.0	24	1308	1.82	
14 Chloroethane	64	1.634	1.629	0.005	42	2976	2.05	
15 Dichlorofluoromethane	67	1.736	1.730	0.006	36	7312	1.86	
16 Trichlorofluoromethane	101	1.776	1.770	0.006	44	4739	1.71	
17 Ethanol	45	1.861	1.866	-0.006	67	1899	111.8	
18 Ethyl ether	59	1.923	1.923	0.0	75	3872	2.15	
19 Acrolein	56	2.002	1.996	0.006	39	1875	5.01	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.047	2.047	0.0	41	3189	1.93	
21 1,1-Dichloroethene	96	2.059	2.053	0.005	68	3572	2.04	
22 Acetone	58	2.081	2.081	0.0	91	1864	9.23	
23 Iodomethane	142	2.143	2.143	0.0	53	2829	1.72	
24 Isopropyl alcohol	45	2.149	2.149	0.0	11	2609	20.5	
25 Carbon disulfide	76	2.189	2.189	0.0	89	11963	2.01	
26 Acetonitrile	40	2.240	2.245	-0.005	81	6024	21.4	
27 3-Chloro-1-propene	76	2.251	2.251	0.0	96	2962	1.98	
28 Methyl acetate	43	2.256	2.256	0.0	97	22547	10.4	
29 Methylene Chloride	84	2.313	2.313	0.0	75	4999	2.02	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
30 2-Methyl-2-propanol	59	2.370	2.370	0.0	76	3683	20.3	
31 Acrylonitrile	53	2.454	2.449	0.005	98	18097	20.7	
32 Methyl tert-butyl ether	73	2.466	2.466	0.0	86	12795	2.09	
33 trans-1,2-Dichloroethene	61	2.471	2.471	0.0	73	5770	1.97	
34 Hexane	57	2.619	2.619	0.001	80	4928	1.98	
35 1,1-Dichloroethane	63	2.709	2.709	0.0	48	7801	2.02	
36 Vinyl acetate	43	2.726	2.726	0.0	95	23199	4.17	
37 Isopropyl ether	45	2.737	2.737	0.0	82	17039	2.15	
38 2-Chloro-1,3-butadiene	53	2.760	2.760	0.0	77	6580	2.07	
39 Tert-butyl ethyl ether	59	2.952	2.952	0.0	92	14068	2.05	
40 cis-1,2-Dichloroethene	61	3.054	3.054	0.0	45	7544	2.03	
41 2,2-Dichloropropane	77	3.054	3.054	0.0	60	6246	2.05	
42 2-Butanone (MEK)	72	3.060	3.060	0.0	95	2334	9.85	
43 Ethyl acetate	45	3.088	3.088	0.0	1	646	7.23	
44 Propionitrile	54	3.099	3.099	0.0	0	6936	21.0	
45 Methacrylonitrile	41	3.190	3.190	0.0	96	29465	20.8	
46 Chlorobromomethane	130	3.201	3.201	0.0	67	2654	2.10	
48 Chloroform	83	3.241	3.241	0.0	68	7470	2.01	
47 Tetrahydrofuran	42	3.241	3.241	0.0	43	3677	3.68	
49 1,1,1-Trichloroethane	97	3.365	3.365	0.0	61	6273	2.03	
50 Cyclohexane	56	3.405	3.405	0.0	79	7342	1.97	
51 1,1-Dichloropropene	75	3.467	3.467	0.0	58	5272	1.99	
52 Carbon tetrachloride	117	3.473	3.473	0.0	64	5283	2.02	
53 Isobutyl alcohol	43	3.529	3.524	0.005	79	5676	22.1	
54 Benzene	78	3.608	3.608	0.0	92	18259	2.08	
55 1,2-Dichloroethane	62	3.614	3.614	0.0	58	5951	2.08	
56 Tert-amyl methyl ether	73	3.671	3.671	0.0	89	12664	2.05	
57 n-Heptane	43	3.761	3.761	0.0	70	4028	1.82	
58 n-Butanol	56	3.971	3.971	0.001	64	3444	48.1	
59 Trichloroethene	130	4.033	4.033	0.0	73	4499	1.98	
60 Ethyl acrylate	55	4.095	4.095	0.0	58	6871	2.08	
61 Methylcyclohexane	83	4.174	4.174	0.0	71	5934	2.01	
62 1,2-Dichloropropane	63	4.197	4.197	0.0	64	4858	2.07	
63 Methyl methacrylate	41	4.259	4.259	0.0	79	8431	4.00	
64 Dibromomethane	93	4.276	4.276	0.0	71	2484	2.06	
66 Dichlorobromomethane	83	4.383	4.383	0.0	59	5502	1.96	
67 2-Nitropropane	43	4.553	4.553	0.0	75	2465	3.86	
68 2-Chloroethyl vinyl ether	63	4.598	4.598	0.0	47	2864	2.14	
69 cis-1,3-Dichloropropene	75	4.712	4.712	0.0	54	6772	2.03	
70 4-Methyl-2-pentanone (MIBK)	58	4.836	4.836	0.0	90	8802	10.5	
71 Toluene	91	4.977	4.977	0.0	88	19936	2.11	
72 trans-1,3-Dichloropropene	75	5.142	5.141	0.001	57	5695	2.00	
73 Ethyl methacrylate	69	5.215	5.215	0.0	60	6220	2.10	
74 1,1,2-Trichloroethane	97	5.294	5.294	0.0	33	3810	2.06	
75 Tetrachloroethene	166	5.413	5.413	0.0	76	5280	2.11	
76 1,3-Dichloropropane	76	5.430	5.430	0.0	66	6974	2.13	
77 2-Hexanone	58	5.498	5.498	0.0	93	8332	10.1	
78 n-Butyl acetate	43	5.600	5.600	0.0	30	3967	2.10	
79 Chlorodibromomethane	127	5.611	5.617	-0.006	34	3017	1.96	
80 Ethylene Dibromide	107	5.719	5.718	0.001	42	3754	1.94	
81 Chlorobenzene	112	6.131	6.131	0.0	87	12541	2.06	
82 1,1,1,2-Tetrachloroethane	131	6.199	6.199	0.0	52	3984	1.93	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
83 Ethylbenzene	91	6.228	6.222	0.006	81	21745	2.09	
84 m-Xylene & p-Xylene	91	6.329	6.329	0.0	90	17733	2.10	
85 o-Xylene	91	6.680	6.680	0.0	88	18077	2.12	
86 Styrene	104	6.692	6.691	0.001	82	14694	2.08	
87 Bromoform	173	6.856	6.856	0.0	49	2789	1.88	
88 Isopropylbenzene	105	7.014	7.014	0.0	72	20963	2.08	
89 Cyclohexanone	55	7.104	7.104	0.0	48	2382	21.3	
90 Bromobenzene	77	7.291	7.291	0.0	74	8927	2.08	
91 1,1,2,2-Tetrachloroethane	83	7.291	7.291	0.0	22	5105	2.01	
92 1,2,3-Trichloropropane	110	7.331	7.331	0.0	39	1390	2.15	
93 trans-1,4-Dichloro-2-butene	53	7.348	7.347	0.001	13	1191	1.91	
94 N-Propylbenzene	91	7.393	7.393	0.0	89	24214	2.06	
95 2-Chlorotoluene	91	7.472	7.472	0.0	85	15810	2.10	
96 1,3,5-Trimethylbenzene	105	7.563	7.563	0.0	77	16997	1.99	
97 4-Chlorotoluene	91	7.574	7.574	0.0	82	18527	2.12	
98 tert-Butylbenzene	119	7.868	7.868	0.0	68	14740	2.06	
100 1,2,4-Trimethylbenzene	105	7.913	7.913	0.0	80	18575	2.05	
101 sec-Butylbenzene	105	8.077	8.077	0.0	62	20264	2.06	
102 1,3-Dichlorobenzene	146	8.174	8.174	0.0	79	11150	2.02	
103 4-Isopropyltoluene	119	8.219	8.219	0.0	86	17899	2.02	
104 1,4-Dichlorobenzene	146	8.258	8.264	-0.006	68	11514	2.06	
105 1,2,3-Trimethylbenzene	105	8.315	8.315	0.0	0	18939	2.05	
106 Benzyl chloride	91	8.394	8.394	0.0	76	8949	2.04	
107 n-Butylbenzene	91	8.615	8.615	0.0	85	14999	2.07	
108 1,2-Dichlorobenzene	146	8.615	8.615	0.0	76	11086	2.08	
109 1,2-Dibromo-3-Chloropropane	157	9.373	9.373	0.0	1	867	1.86	
110 1,3,5-Trichlorobenzene	180	9.594	9.593	0.001	53	8814	2.02	
111 1,2,4-Trichlorobenzene	180	10.295	10.295	0.0	30	8407	1.94	
112 Hexachlorobutadiene	225	10.521	10.521	0.0	12	3751	2.06	
113 Naphthalene	128	10.595	10.595	0.0	62	18894	1.98	
114 1,2,3-Trichlorobenzene	180	10.872	10.872	0.0	42	7793	2.02	
S 119 Xylenes, Total	1				0		4.22	
S 120 1,2-Dichloroethene, Total	1				0		4.00	

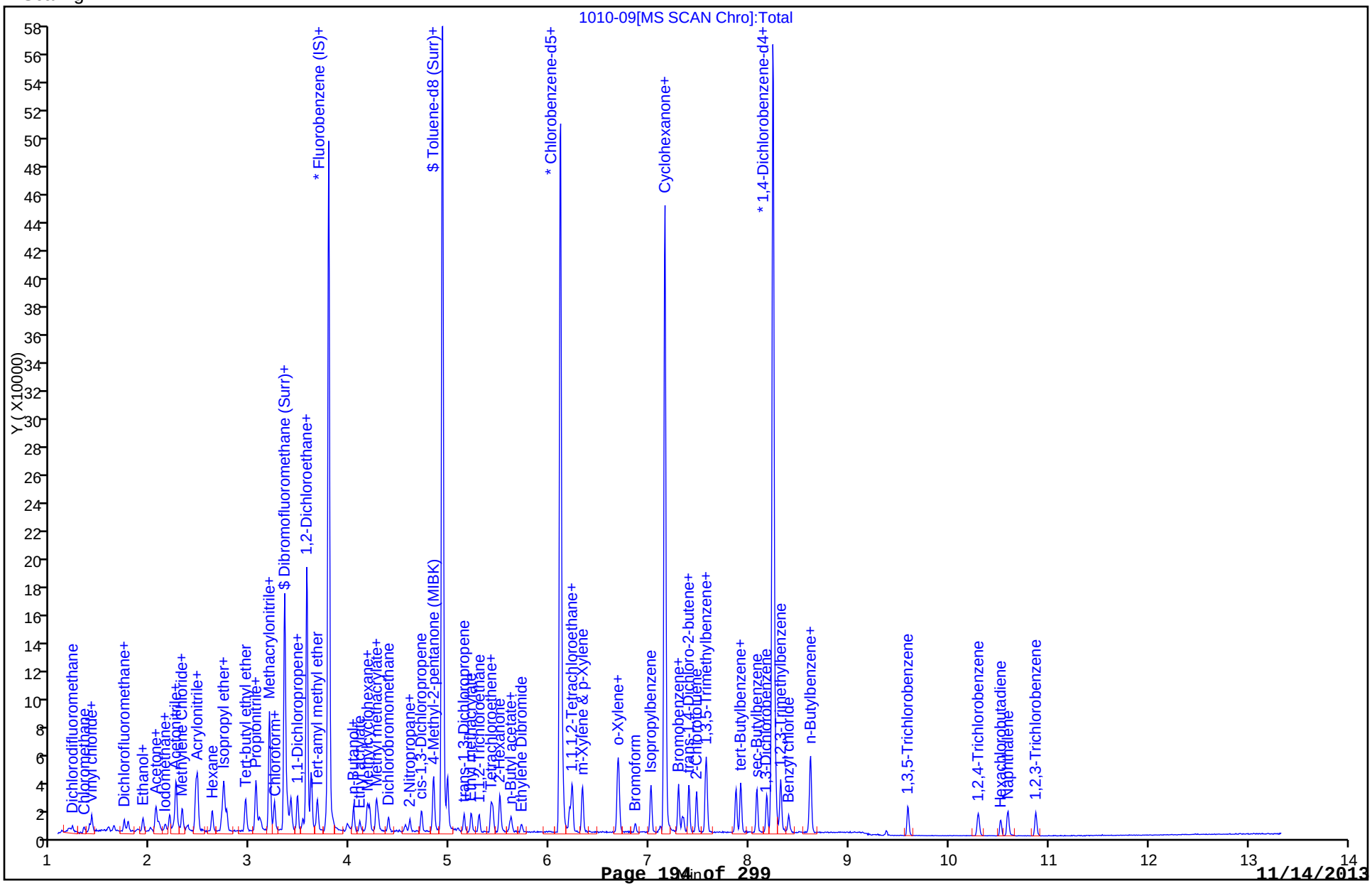
Report Date: 11-Oct-2013 11:11:35 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-09.D

Injection Date:	10-Oct-2013 15:10:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP45
Lims Batch ID:	113395	Lims Sample ID:	5
Operator ID:	MJH HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-10.D
Lims ID: STD005 Client ID:
Inject. Date: 10-Oct-2013 15:38:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: STD005
Misc. Info.: 490-0026494-006
Operator: MJH HP45 Instrument ID: HP45
Purge Vol: 5.000 mL ALS Bottle#: 10
Lims Batch ID: 113395 Lims Sample ID: 6
Sublist: chrom-8260HP45*sub15
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP45\20131010-26494.b\8260HP45.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 11-Oct-2013 11:56:41 Calib Date: 10-Oct-2013 17:55:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK021

First Level Reviewer: matlockbe Date: 11-Oct-2013 11:13:12

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.784	3.784	0.0	98	313953	50.0	
* 2 Chlorobenzene-d5	117	6.109	6.109	0.0	83	250522	50.0	
* 3 1,4-Dichlorobenzene-d4	152	8.236	8.241	-0.005	93	148191	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.343	3.343	0.0	64	79396	50.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.563	3.563	0.0	91	95135	52.5	
$ 6 Toluene-d8 (Surr)	98	4.926	4.927	-0.001	84	323381	50.8	
$ 8 4-Bromofluorobenzene (Surr)	95	7.155	7.155	0.0	96	125349	50.1	
9 Dichlorodifluoromethane	85	1.216	1.216	0.0	58	7143	4.53	
10 Chloromethane	50	1.329	1.329	0.0	83	11591	5.05	
11 Vinyl chloride	62	1.385	1.385	0.0	61	11346	4.81	
12 Butadiene	54	1.408	1.408	0.0	84	9526	4.73	
13 Bromomethane	96	1.578	1.578	0.0	75	3576	4.71	
14 Chloroethane	64	1.634	1.629	0.005	62	7373	5.24	
15 Dichlorofluoromethane	67	1.736	1.730	0.006	66	19137	5.01	
16 Trichlorofluoromethane	101	1.770	1.770	0.0	72	12577	4.68	
17 Ethanol	45	1.860	1.866	-0.006	87	4323	259.4	
18 Ethyl ether	59	1.923	1.923	0.0	84	9402	5.36	
19 Acrolein	56	1.996	1.996	0.0	47	4338	13.2	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.047	2.047	0.0	66	8063	5.01	
21 1,1-Dichloroethene	96	2.058	2.053	0.005	80	8578	5.01	
22 Acetone	58	2.081	2.081	0.0	96	4962	25.3	
23 Iodomethane	142	2.143	2.143	0.0	84	8280	4.20	
24 Isopropyl alcohol	45	2.143	2.149	-0.006	4	7277	58.7	
25 Carbon disulfide	76	2.189	2.189	0.0	97	29162	5.04	
26 Acetonitrile	40	2.245	2.245	0.0	68	12795	55.2	
27 3-Chloro-1-propene	76	2.251	2.251	0.0	99	8413	5.39	
28 Methyl acetate	43	2.256	2.256	0.0	98	55207	26.2	
29 Methylene Chloride	84	2.313	2.313	0.0	86	11286	5.21	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
30 2-Methyl-2-propanol	59	2.364	2.370	-0.006	84	9629	54.5	
31 Acrylonitrile	53	2.449	2.449	0.0	100	45700	53.3	
32 Methyl tert-butyl ether	73	2.466	2.466	0.0	90	31148	5.27	
33 trans-1,2-Dichloroethene	61	2.471	2.471	0.0	90	14860	5.21	
34 Hexane	57	2.618	2.619	0.0	88	11697	4.85	
35 1,1-Dichloroethane	63	2.709	2.709	0.0	59	18805	5.00	
36 Vinyl acetate	43	2.726	2.726	0.0	96	58502	10.8	
37 Isopropyl ether	45	2.737	2.737	0.0	81	40164	5.21	
38 2-Chloro-1,3-butadiene	53	2.760	2.760	0.0	97	15705	5.07	
39 Tert-butyl ethyl ether	59	2.952	2.952	0.0	97	34774	5.20	
40 cis-1,2-Dichloroethene	61	3.048	3.054	-0.006	71	18986	5.26	
41 2,2-Dichloropropane	77	3.054	3.054	0.0	71	15170	5.10	
42 2-Butanone (MEK)	72	3.060	3.060	0.0	97	6142	26.5	
43 Ethyl acetate	45	3.088	3.088	0.0	2	1768	11.1	
44 Propionitrile	54	3.099	3.099	0.0	0	17207	53.6	
45 Methacrylonitrile	41	3.190	3.190	0.0	97	72490	52.5	
46 Chlorobromomethane	130	3.201	3.201	0.0	78	6992	5.69	
48 Chloroform	83	3.241	3.241	0.0	75	18464	5.11	
47 Tetrahydrofuran	42	3.241	3.241	0.0	50	7700	10.9	
49 1,1,1-Trichloroethane	97	3.365	3.365	0.0	79	15222	5.07	
50 Cyclohexane	56	3.405	3.405	0.0	89	17112	4.72	
51 1,1-Dichloropropene	75	3.467	3.467	0.0	87	12855	4.99	
52 Carbon tetrachloride	117	3.473	3.473	0.0	72	12759	5.01	
53 Isobutyl alcohol	43	3.524	3.524	0.0	95	12888	51.6	
54 Benzene	78	3.608	3.608	0.0	95	45172	5.29	
55 1,2-Dichloroethane	62	3.614	3.614	0.0	84	14605	5.24	
56 Tert-amyl methyl ether	73	3.671	3.671	0.0	95	30981	5.15	
57 n-Heptane	43	3.761	3.761	0.0	85	9852	5.02	
58 n-Butanol	56	3.976	3.971	0.006	82	8608	136.9	
59 Trichloroethene	130	4.033	4.033	0.0	82	11278	5.09	
60 Ethyl acrylate	55	4.095	4.095	0.0	96	15063	5.32	
61 Methylcyclohexane	83	4.174	4.174	0.0	85	13926	4.85	
62 1,2-Dichloropropane	63	4.197	4.197	0.0	82	11684	5.12	
63 Methyl methacrylate	41	4.259	4.259	0.0	93	20369	9.94	
64 Dibromomethane	93	4.276	4.276	0.0	79	6076	5.18	
65 1,4-Dioxane	88	4.299	4.299	0.0	43	1263	100.6	
66 Dichlorobromomethane	83	4.383	4.383	0.0	83	13735	5.02	
67 2-Nitropropane	43	4.553	4.553	0.0	83	5738	9.23	
68 2-Chloroethyl vinyl ether	63	4.598	4.598	0.0	67	6891	5.18	
69 cis-1,3-Dichloropropene	75	4.717	4.712	0.005	71	17254	5.18	
70 4-Methyl-2-pentanone (MIBK)	58	4.836	4.836	0.0	96	22036	26.4	
71 Toluene	91	4.977	4.977	0.0	90	47750	5.07	
72 trans-1,3-Dichloropropene	75	5.141	5.141	0.0	78	14339	5.06	
73 Ethyl methacrylate	69	5.215	5.215	0.0	79	15076	5.11	
74 1,1,2-Trichloroethane	97	5.294	5.294	0.0	74	9814	5.31	
75 Tetrachloroethene	166	5.413	5.413	0.0	87	12836	5.14	
76 1,3-Dichloropropane	76	5.430	5.430	0.0	86	17279	5.29	
77 2-Hexanone	58	5.498	5.498	0.0	97	21994	26.9	
78 n-Butyl acetate	43	5.600	5.600	0.0	59	8815	4.80	
79 Chlorodibromomethane	127	5.617	5.617	0.0	67	7766	5.06	
80 Ethylene Dibromide	107	5.718	5.718	0.0	72	9968	5.16	
81 Chlorobenzene	112	6.131	6.131	0.0	92	31189	5.14	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
82 1,1,1,2-Tetrachloroethane	131	6.199	6.199	0.0	72	10272	5.00	
83 Ethylbenzene	91	6.222	6.222	0.0	96	52106	5.03	
84 m-Xylene & p-Xylene	91	6.329	6.329	0.0	98	42696	5.08	
85 o-Xylene	91	6.680	6.680	0.0	91	43265	5.08	
86 Styrene	104	6.691	6.691	0.0	90	36148	5.13	
87 Bromoform	173	6.855	6.856	-0.001	79	7260	4.91	
88 Isopropylbenzene	105	7.014	7.014	0.0	92	51493	5.14	
89 Cyclohexanone	55	7.110	7.104	0.006	67	4900	53.7	
90 Bromobenzene	77	7.291	7.291	0.0	86	21063	4.99	
91 1,1,2,2-Tetrachloroethane	83	7.291	7.291	0.0	53	13006	5.19	
92 1,2,3-Trichloropropane	110	7.331	7.331	0.0	55	3772	5.35	
93 trans-1,4-Dichloro-2-butene	53	7.348	7.347	0.001	59	3009	4.69	
94 N-Propylbenzene	91	7.393	7.393	0.0	94	57931	5.00	
95 2-Chlorotoluene	91	7.472	7.472	0.0	93	37906	5.12	
96 1,3,5-Trimethylbenzene	105	7.563	7.563	0.0	83	42203	5.01	
97 4-Chlorotoluene	91	7.574	7.574	0.0	95	44796	5.21	
98 tert-Butylbenzene	119	7.868	7.868	0.0	83	35518	5.04	
100 1,2,4-Trimethylbenzene	105	7.913	7.913	0.0	90	45799	5.13	
101 sec-Butylbenzene	105	8.077	8.077	0.0	81	48626	5.03	
102 1,3-Dichlorobenzene	146	8.174	8.174	0.0	92	28267	5.21	
103 4-Isopropyltoluene	119	8.219	8.219	0.0	89	43881	5.04	
104 1,4-Dichlorobenzene	146	8.258	8.264	-0.006	87	28892	5.24	
105 1,2,3-Trimethylbenzene	105	8.315	8.315	0.0	0	46643	5.13	
106 Benzyl chloride	91	8.394	8.394	0.0	97	21985	5.03	
107 n-Butylbenzene	91	8.615	8.615	0.0	93	35583	4.98	
108 1,2-Dichlorobenzene	146	8.615	8.615	0.0	92	27258	5.19	
109 1,2-Dibromo-3-Chloropropane	157	9.373	9.373	0.0	22	2617	4.89	
110 1,3,5-Trichlorobenzene	180	9.593	9.593	0.0	88	20257	4.70	
111 1,2,4-Trichlorobenzene	180	10.295	10.295	0.0	74	21355	5.00	
112 Hexachlorobutadiene	225	10.521	10.521	0.0	43	8952	5.00	
113 Naphthalene	128	10.595	10.595	0.0	83	48553	5.16	
114 1,2,3-Trichlorobenzene	180	10.872	10.872	0.0	74	19209	5.06	
S 119 Xylenes, Total	1				0		10.2	
S 120 1,2-Dichloroethene, Total	1				0		10.5	

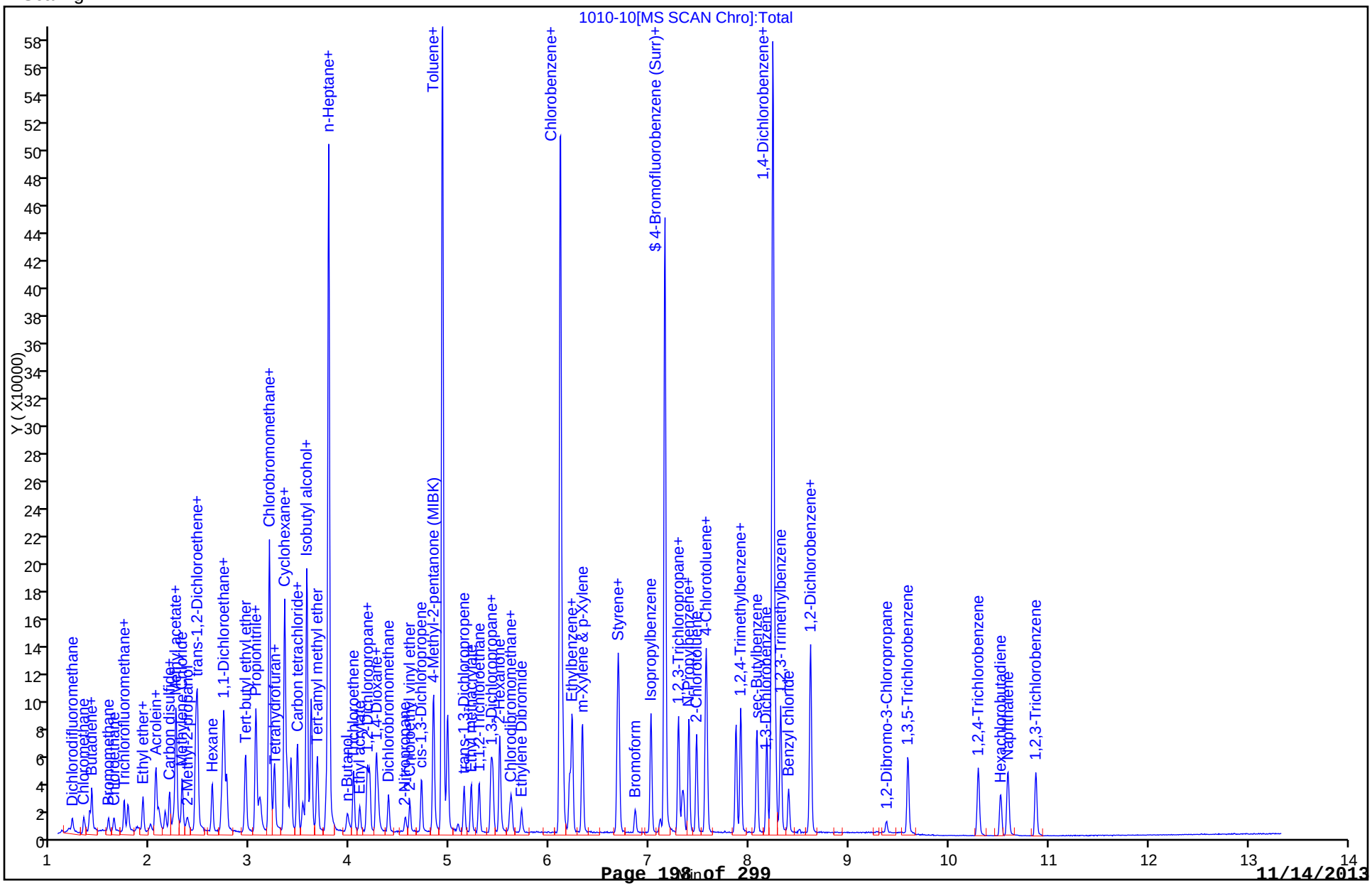
Report Date: 11-Oct-2013 11:56:42 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-10.D

Injection Date:	10-Oct-2013 15:38:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP45
Lims Batch ID:	113395	Lims Sample ID:	6
Operator ID:	MJH HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-11.D
Lims ID: STD010 Client ID:
Inject. Date: 10-Oct-2013 16:05:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: STD010
Misc. Info.: 490-0026494-007
Operator: MJH HP45 Instrument ID: HP45
Purge Vol: 5.000 mL ALS Bottle#: 11
Lims Batch ID: 113395 Lims Sample ID: 7
Sublist: chrom-8260HP45*sub15
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP45\20131010-26494.b\8260HP45.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 11-Oct-2013 12:05:01 Calib Date: 10-Oct-2013 17:55:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK021

First Level Reviewer: matlockbe Date: 11-Oct-2013 12:05:01

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.784	3.784	0.0	99	305481	50.0	
* 2 Chlorobenzene-d5	117	6.109	6.109	0.0	84	249299	50.0	
* 3 1,4-Dichlorobenzene-d4	152	8.241	8.241	0.0	92	148573	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.342	3.343	-0.001	63	76566	50.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.563	3.563	0.0	90	87611	49.7	
$ 6 Toluene-d8 (Surr)	98	4.926	4.927	-0.001	83	319143	50.3	
$ 8 4-Bromofluorobenzene (Surr)	95	7.155	7.155	0.0	96	124203	49.6	
9 Dichlorodifluoromethane	85	1.215	1.216	-0.001	78	16602	10.5	
10 Chloromethane	50	1.329	1.329	0.0	83	23182	10.4	
11 Vinyl chloride	62	1.391	1.385	0.006	74	24474	10.7	
12 Butadiene	54	1.408	1.408	0.0	84	20650	10.5	
13 Bromomethane	96	1.577	1.578	-0.001	79	7281	9.59	
14 Chloroethane	64	1.634	1.629	0.005	87	15036	11.0	
15 Dichlorofluoromethane	67	1.736	1.730	0.006	79	39324	10.6	
16 Trichlorofluoromethane	101	1.775	1.770	0.005	81	29574	11.3	
17 Ethanol	45	1.866	1.866	0.0	93	7934	489.3	
18 Ethyl ether	59	1.923	1.923	-0.001	91	17146	10.1	
19 Acrolein	56	1.996	1.996	0.0	74	7392	23.9	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.047	2.047	0.0	80	16454	10.5	
21 1,1-Dichloroethene	96	2.058	2.053	0.005	85	17424	10.5	
22 Acetone	58	2.081	2.081	0.0	97	9009	47.1	
23 Iodomethane	142	2.143	2.143	0.0	96	16898	8.28	
24 Isopropyl alcohol	45	2.149	2.149	0.0	11	12471	103.4	
25 Carbon disulfide	76	2.188	2.189	-0.001	98	56399	10.0	
26 Acetonitrile	40	2.239	2.245	-0.006	81	21414	101.9	
27 3-Chloro-1-propene	76	2.251	2.251	0.0	99	14690	9.68	
28 Methyl acetate	43	2.256	2.256	0.0	98	99494	48.6	
29 Methylene Chloride	84	2.318	2.313	0.005	90	20878	10.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
30 2-Methyl-2-propanol	59	2.369	2.370	-0.001	94	17278	100.4	
31 Acrylonitrile	53	2.449	2.449	0.0	99	82908	99.5	
32 Methyl tert-butyl ether	73	2.466	2.466	0.0	91	57683	10.0	
33 trans-1,2-Dichloroethene	61	2.471	2.471	0.0	90	28689	10.3	
34 Hexane	57	2.618	2.619	0.0	92	22582	9.62	
35 1,1-Dichloroethane	63	2.709	2.709	0.0	78	34924	9.55	
36 Vinyl acetate	43	2.726	2.726	0.0	96	101311	19.2	
37 Isopropyl ether	45	2.737	2.737	0.0	82	73313	9.77	
38 2-Chloro-1,3-butadiene	53	2.760	2.760	0.0	98	30560	10.1	
39 Tert-butyl ethyl ether	59	2.952	2.952	0.0	98	63770	9.81	
40 cis-1,2-Dichloroethene	61	3.054	3.054	0.0	72	36412	10.4	
41 2,2-Dichloropropane	77	3.054	3.054	0.0	75	28629	9.89	
42 2-Butanone (MEK)	72	3.060	3.060	0.0	99	11292	50.2	
43 Ethyl acetate	45	3.088	3.088	0.0	7	3036	19.6	
44 Propionitrile	54	3.099	3.099	0.0	0	30497	97.6	
45 Methacrylonitrile	41	3.190	3.190	0.0	97	131664	98.0	
46 Chlorobromomethane	130	3.201	3.201	0.0	76	12610	10.5	
48 Chloroform	83	3.241	3.241	0.0	80	34519	9.82	
47 Tetrahydrofuran	42	3.241	3.241	0.0	52	12978	18.8	
49 1,1,1-Trichloroethane	97	3.365	3.365	0.0	87	29531	10.1	
50 Cyclohexane	56	3.405	3.405	0.0	91	34628	9.81	
51 1,1-Dichloropropene	75	3.467	3.467	0.0	89	25065	10.0	
52 Carbon tetrachloride	117	3.473	3.473	-0.001	78	24842	10.0	
53 Isobutyl alcohol	43	3.523	3.524	-0.001	96	23322	96.0	
54 Benzene	78	3.608	3.608	0.0	95	81760	9.83	
55 1,2-Dichloroethane	62	3.614	3.614	0.0	89	26567	9.80	
56 Tert-amyl methyl ether	73	3.670	3.671	-0.001	97	58383	9.97	
57 n-Heptane	43	3.761	3.761	0.0	95	18453	9.67	
58 n-Butanol	56	3.976	3.971	0.006	85	14949	251.1	
59 Trichloroethene	130	4.033	4.033	0.0	89	21714	10.1	
60 Ethyl acrylate	55	4.095	4.095	0.0	97	26576	9.64	
61 Methylcyclohexane	83	4.174	4.174	0.0	90	27968	10.0	
62 1,2-Dichloropropane	63	4.191	4.197	-0.006	91	21992	9.91	
63 Methyl methacrylate	41	4.259	4.259	0.0	94	38712	19.4	
64 Dibromomethane	93	4.276	4.276	0.0	85	11753	10.3	
65 1,4-Dioxane	88	4.298	4.299	-0.001	43	3244	196.2	
66 Dichlorobromomethane	83	4.383	4.383	0.0	87	25964	9.76	
67 2-Nitropropane	43	4.553	4.553	0.0	88	10923	18.1	
68 2-Chloroethyl vinyl ether	63	4.598	4.598	0.0	68	12875	9.72	
69 cis-1,3-Dichloropropene	75	4.711	4.712	-0.001	80	32053	9.67	
70 4-Methyl-2-pentanone (MIBK)	58	4.836	4.836	0.0	97	40908	49.2	
71 Toluene	91	4.977	4.977	0.0	92	88350	9.42	
72 trans-1,3-Dichloropropene	75	5.141	5.141	0.0	88	27595	9.78	
73 Ethyl methacrylate	69	5.215	5.215	0.0	88	27765	9.47	
74 1,1,2-Trichloroethane	97	5.294	5.294	0.0	84	18065	9.82	
75 Tetrachloroethene	166	5.413	5.413	0.0	89	24592	9.89	
76 1,3-Dichloropropane	76	5.430	5.430	0.0	87	32463	9.98	
77 2-Hexanone	58	5.498	5.498	0.0	97	40367	49.6	
78 n-Butyl acetate	43	5.600	5.600	0.0	69	17785	9.95	
79 Chlorodibromomethane	127	5.616	5.617	-0.001	78	14977	9.80	
80 Ethylene Dibromide	107	5.718	5.718	0.0	83	18521	9.64	
81 Chlorobenzene	112	6.131	6.131	0.0	93	59640	9.88	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
82 1,1,1,2-Tetrachloroethane	131	6.199	6.199	0.0	84	20039	9.81	
83 Ethylbenzene	91	6.222	6.222	0.0	97	99529	9.66	
84 m-Xylene & p-Xylene	91	6.329	6.329	0.0	99	80389	9.62	
85 o-Xylene	91	6.680	6.680	0.0	94	82608	9.75	
86 Styrene	104	6.691	6.691	0.0	94	69367	9.89	
87 Bromoform	173	6.861	6.856	0.005	90	14153	9.61	
88 Isopropylbenzene	105	7.014	7.014	0.0	94	98042	9.83	
89 Cyclohexanone	55	7.104	7.104	0.0	72	9070	109.2	
90 Bromobenzene	77	7.291	7.291	0.0	89	39736	9.39	
91 1,1,2,2-Tetrachloroethane	83	7.291	7.291	0.0	60	24247	9.66	
92 1,2,3-Trichloropropane	110	7.331	7.331	-0.001	67	7084	9.75	
93 trans-1,4-Dichloro-2-butene	53	7.342	7.347	-0.005	75	5862	9.11	
94 N-Propylbenzene	91	7.393	7.393	0.0	97	111578	9.61	
95 2-Chlorotoluene	91	7.472	7.472	0.0	96	71061	9.58	
96 1,3,5-Trimethylbenzene	105	7.562	7.563	-0.001	86	81605	9.66	
97 4-Chlorotoluene	91	7.574	7.574	0.0	97	80945	9.40	
98 tert-Butylbenzene	119	7.868	7.868	0.0	88	68343	9.68	
100 1,2,4-Trimethylbenzene	105	7.913	7.913	0.0	95	85714	9.58	
101 sec-Butylbenzene	105	8.077	8.077	0.0	92	95334	9.83	
102 1,3-Dichlorobenzene	146	8.173	8.174	-0.001	97	53637	9.86	
103 4-Isopropyltoluene	119	8.219	8.219	0.0	92	85241	9.76	
104 1,4-Dichlorobenzene	146	8.264	8.264	0.0	94	54690	9.89	
105 1,2,3-Trimethylbenzene	105	8.315	8.315	0.0	0	87522	9.59	
106 Benzyl chloride	91	8.394	8.394	0.0	99	41179	9.46	
107 n-Butylbenzene	91	8.615	8.615	0.0	94	67686	9.44	
108 1,2-Dichlorobenzene	146	8.615	8.615	0.0	94	52266	9.93	
109 1,2-Dibromo-3-Chloropropane	157	9.378	9.373	0.005	44	5339	9.23	
110 1,3,5-Trichlorobenzene	180	9.593	9.593	0.0	92	42956	9.95	
111 1,2,4-Trichlorobenzene	180	10.295	10.295	0.0	81	42131	9.85	
112 Hexachlorobutadiene	225	10.521	10.521	0.0	71	17677	9.84	
113 Naphthalene	128	10.595	10.595	0.0	93	91229	9.68	
114 1,2,3-Trichlorobenzene	180	10.872	10.872	0.0	86	37114	9.75	
S 119 Xylenes, Total	1				0		19.4	
S 120 1,2-Dichloroethene, Total	1				0		20.7	

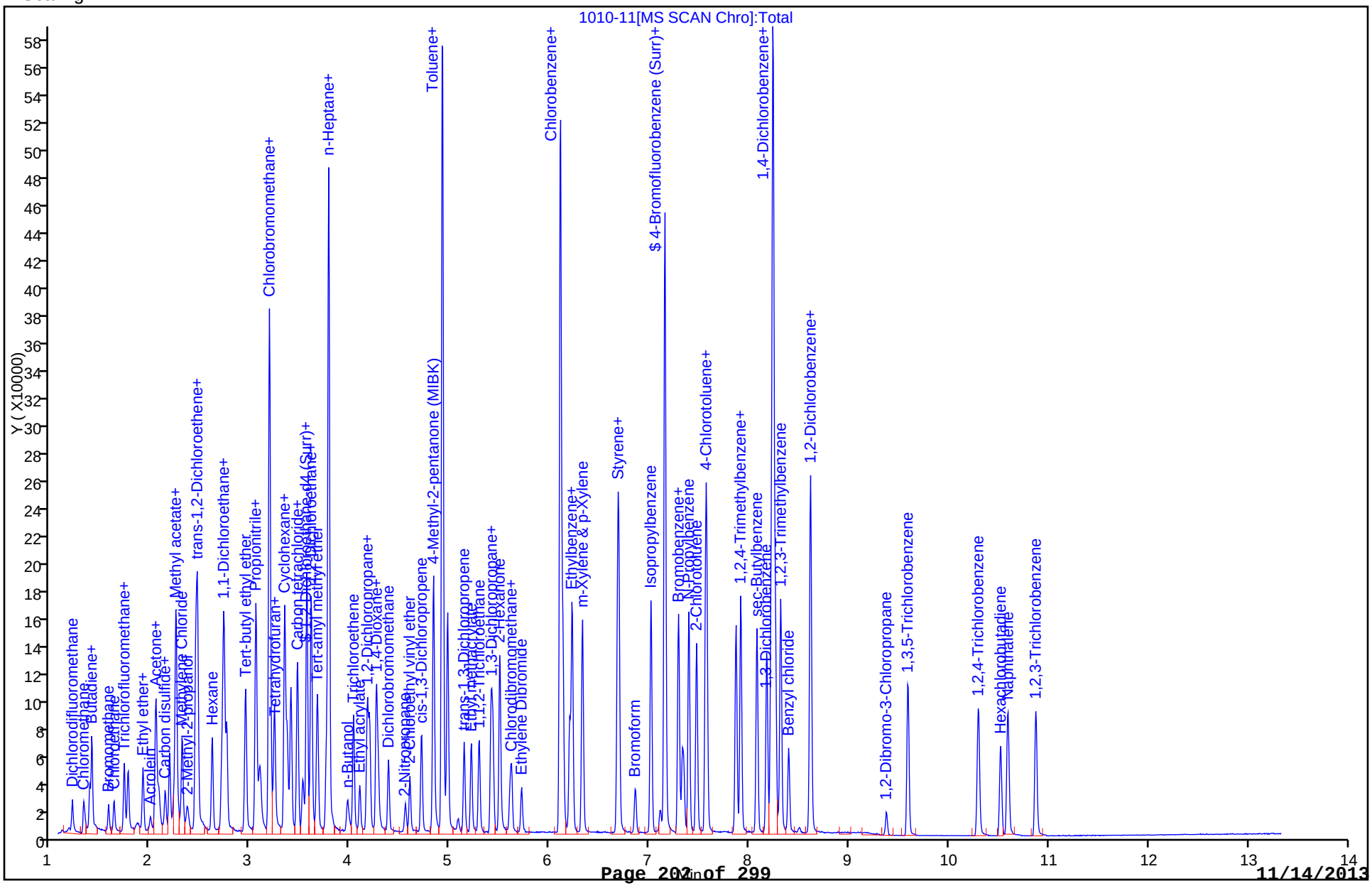
Report Date: 11-Oct-2013 12:05:01 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-11.D

Injection Date:	10-Oct-2013 16:05:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP45
Lims Batch ID:	113395	Lims Sample ID:	7
Operator ID:	MJH HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



11/14/2013

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-12.D
Lims ID: STD020 Client ID:
Inject. Date: 10-Oct-2013 16:33:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: STD020
Misc. Info.: 490-0026494-008
Operator: MJH HP45 Instrument ID: HP45
Purge Vol: 5.000 mL ALS Bottle#: 12
Lims Batch ID: 113395 Lims Sample ID: 8
Sublist: chrom-8260HP45*sub15
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP45\20131010-26494.b\8260HP45.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 11-Oct-2013 11:15:57 Calib Date: 10-Oct-2013 17:55:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK021

First Level Reviewer: matlockbe Date: 11-Oct-2013 11:15:57

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.784	3.784	0.0	98	304978	50.0	
* 2 Chlorobenzene-d5	117	6.109	6.109	0.0	84	251656	50.0	
* 3 1,4-Dichlorobenzene-d4	152	8.236	8.241	-0.005	93	148009	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.342	3.343	-0.001	57	76083	50.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.563	3.563	0.0	91	87418	49.7	
$ 6 Toluene-d8 (Surr)	98	4.926	4.927	-0.001	84	315861	49.3	
$ 8 4-Bromofluorobenzene (Surr)	95	7.155	7.155	0.0	95	124846	50.0	
9 Dichlorodifluoromethane	85	1.215	1.216	-0.001	85	33994	21.4	
10 Chloromethane	50	1.329	1.329	0.0	88	44292	19.9	
11 Vinyl chloride	62	1.391	1.385	0.006	83	49939	21.8	
12 Butadiene	54	1.413	1.408	0.005	86	46013	23.5	
13 Bromomethane	96	1.577	1.578	-0.001	86	15462	20.2	
14 Chloroethane	64	1.634	1.629	0.005	93	29600	21.6	
15 Dichlorofluoromethane	67	1.736	1.730	0.006	82	78450	21.1	
16 Trichlorofluoromethane	101	1.775	1.770	0.005	81	59400	22.7	
17 Ethanol	45	1.872	1.866	0.006	96	15442	953.9	
18 Ethyl ether	59	1.923	1.923	0.0	92	33612	19.7	
19 Acrolein	56	1.996	1.996	0.0	86	16208	53.7	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.047	2.047	0.0	81	32914	21.1	
21 1,1-Dichloroethene	96	2.058	2.053	0.005	90	35018	21.0	
22 Acetone	58	2.081	2.081	0.0	97	19299	101.1	
23 Iodomethane	142	2.149	2.143	0.006	97	36187	16.6	
24 Isopropyl alcohol	45	2.149	2.149	0.0	25	24748	205.5	
25 Carbon disulfide	76	2.188	2.189	-0.001	98	111272	19.8	
26 Acetonitrile	40	2.239	2.245	-0.006	83	41731	217.2	
27 3-Chloro-1-propene	76	2.251	2.251	0.0	96	32397	20.5	
28 Methyl acetate	43	2.256	2.256	0.0	98	201146	98.4	
29 Methylene Chloride	84	2.319	2.313	0.006	91	40700	20.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
30 2-Methyl-2-propanol	59	2.369	2.370	-0.001	96	36217	210.8	
31 Acrylonitrile	53	2.454	2.449	0.005	99	167402	201.2	
32 Methyl tert-butyl ether	73	2.466	2.466	0.0	89	113575	19.7	
33 trans-1,2-Dichloroethene	61	2.471	2.471	0.0	93	56972	20.6	
34 Hexane	57	2.618	2.619	0.0	94	43268	18.5	
35 1,1-Dichloroethane	63	2.709	2.709	0.0	84	76436	20.9	
36 Vinyl acetate	43	2.726	2.726	0.0	96	216241	41.1	
37 Isopropyl ether	45	2.737	2.737	0.0	80	144173	19.2	
38 2-Chloro-1,3-butadiene	53	2.760	2.760	0.0	96	59556	19.8	
39 Tert-butyl ethyl ether	59	2.952	2.952	0.0	98	126183	19.4	
40 cis-1,2-Dichloroethene	61	3.054	3.054	0.0	72	71905	20.5	
41 2,2-Dichloropropane	77	3.054	3.054	0.0	75	56155	19.4	
42 2-Butanone (MEK)	72	3.060	3.060	0.0	99	23485	104.9	
43 Ethyl acetate	45	3.082	3.088	-0.006	0	6130	39.7	
44 Propionitrile	54	3.099	3.099	0.0	0	62816	201.3	
45 Methacrylonitrile	41	3.190	3.190	0.0	97	267708	199.6	
46 Chlorobromomethane	130	3.201	3.201	0.0	77	25668	21.5	
48 Chloroform	83	3.241	3.241	0.0	70	68401	19.5	
47 Tetrahydrofuran	42	3.241	3.241	0.0	55	25176	39.0	
49 1,1,1-Trichloroethane	97	3.365	3.365	0.0	89	58451	20.1	
50 Cyclohexane	56	3.405	3.405	0.0	92	68519	19.4	
51 1,1-Dichloropropene	75	3.467	3.467	0.0	92	49261	19.7	
52 Carbon tetrachloride	117	3.473	3.473	0.0	79	49967	20.2	
53 Isobutyl alcohol	43	3.523	3.524	-0.001	98	47100	194.3	
54 Benzene	78	3.608	3.608	0.0	96	162716	19.6	
55 1,2-Dichloroethane	62	3.614	3.614	0.0	91	54118	20.0	
56 Tert-amyl methyl ether	73	3.671	3.671	0.0	98	116855	20.0	
57 n-Heptane	43	3.761	3.761	0.0	97	37867	21.0	
58 n-Butanol	56	3.976	3.971	0.006	87	29348	502.1	
59 Trichloroethene	130	4.033	4.033	0.0	92	43541	20.2	
60 Ethyl acrylate	55	4.095	4.095	0.0	99	53456	20.0	
61 Methylcyclohexane	83	4.174	4.174	0.0	91	56800	20.4	
62 1,2-Dichloropropane	63	4.197	4.197	0.0	93	43928	19.8	
63 Methyl methacrylate	41	4.259	4.259	0.0	96	79009	39.7	
64 Dibromomethane	93	4.276	4.276	0.0	86	23958	21.0	
65 1,4-Dioxane	88	4.298	4.299	-0.001	76	7719	409.2	
66 Dichlorobromomethane	83	4.383	4.383	0.0	92	53060	20.0	
67 2-Nitropropane	43	4.553	4.553	0.0	97	22774	37.7	
68 2-Chloroethyl vinyl ether	63	4.598	4.598	0.0	79	26990	20.2	
69 cis-1,3-Dichloropropene	75	4.711	4.712	-0.001	85	66652	19.9	
70 4-Methyl-2-pentanone (MIBK)	58	4.836	4.836	0.0	97	82982	98.8	
71 Toluene	91	4.977	4.977	0.0	91	175198	18.5	
72 trans-1,3-Dichloropropene	75	5.141	5.141	0.0	89	56345	19.8	
73 Ethyl methacrylate	69	5.215	5.215	0.0	89	56758	19.2	
74 1,1,2-Trichloroethane	97	5.294	5.294	0.0	86	36308	19.6	
75 Tetrachloroethene	166	5.413	5.413	0.0	90	49904	19.9	
76 1,3-Dichloropropane	76	5.430	5.430	0.0	90	65045	19.8	
77 2-Hexanone	58	5.498	5.498	0.0	97	81705	99.4	
78 n-Butyl acetate	43	5.600	5.600	0.0	80	33860	19.0	
79 Chlorodibromomethane	127	5.617	5.617	0.0	86	31243	20.3	
80 Ethylene Dibromide	107	5.718	5.718	0.0	97	37887	19.5	
81 Chlorobenzene	112	6.131	6.131	0.0	93	119267	19.6	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
82 1,1,1,2-Tetrachloroethane	131	6.199	6.199	0.0	86	40948	19.9	
83 Ethylbenzene	91	6.227	6.222	0.005	98	195235	18.8	
84 m-Xylene & p-Xylene	91	6.329	6.329	0.0	99	156936	18.6	
85 o-Xylene	91	6.680	6.680	0.0	94	165380	19.3	
86 Styrene	104	6.691	6.691	0.0	94	138233	19.5	
87 Bromoform	173	6.855	6.856	-0.001	95	30308	20.4	
88 Isopropylbenzene	105	7.014	7.014	0.0	96	196640	19.5	
89 Cyclohexanone	55	7.110	7.104	0.006	83	16148	200.8	
90 Bromobenzene	77	7.291	7.291	0.0	89	79753	18.9	
91 1,1,2,2-Tetrachloroethane	83	7.291	7.291	0.0	66	49715	19.9	
92 1,2,3-Trichloropropane	110	7.331	7.331	0.0	73	14812	20.1	
93 trans-1,4-Dichloro-2-butene	53	7.348	7.347	0.001	80	12565	20.5	
94 N-Propylbenzene	91	7.393	7.393	0.0	97	220443	19.0	
95 2-Chlorotoluene	91	7.472	7.472	0.0	96	138989	18.8	
96 1,3,5-Trimethylbenzene	105	7.562	7.563	-0.001	94	162731	19.3	
97 4-Chlorotoluene	91	7.574	7.574	0.0	98	161416	18.8	
98 tert-Butylbenzene	119	7.868	7.868	0.0	85	138272	19.7	
100 1,2,4-Trimethylbenzene	105	7.913	7.913	0.0	96	169283	19.0	
101 sec-Butylbenzene	105	8.077	8.077	0.0	92	185949	19.2	
102 1,3-Dichlorobenzene	146	8.173	8.174	-0.001	98	107132	19.8	
103 4-Isopropyltoluene	119	8.219	8.219	0.0	89	169123	19.4	
104 1,4-Dichlorobenzene	146	8.264	8.264	0.0	80	106511	19.3	
105 1,2,3-Trimethylbenzene	105	8.315	8.315	0.0	0	172612	19.0	
106 Benzyl chloride	91	8.394	8.394	0.0	99	81458	18.5	
107 n-Butylbenzene	91	8.615	8.615	0.0	95	136967	19.2	
108 1,2-Dichlorobenzene	146	8.615	8.615	0.0	96	103655	19.8	
109 1,2-Dibromo-3-Chloropropane	157	9.378	9.373	0.005	66	10894	18.4	
110 1,3,5-Trichlorobenzene	180	9.588	9.593	-0.005	97	79544	18.5	
111 1,2,4-Trichlorobenzene	180	10.295	10.295	0.0	90	85358	20.0	
112 Hexachlorobutadiene	225	10.521	10.521	0.0	83	35315	19.7	
113 Naphthalene	128	10.595	10.595	0.0	95	187349	20.0	
114 1,2,3-Trichlorobenzene	180	10.872	10.872	0.0	92	74757	19.7	
S 119 Xylenes, Total	1				0		37.9	
S 120 1,2-Dichloroethene, Total	1				0		41.0	

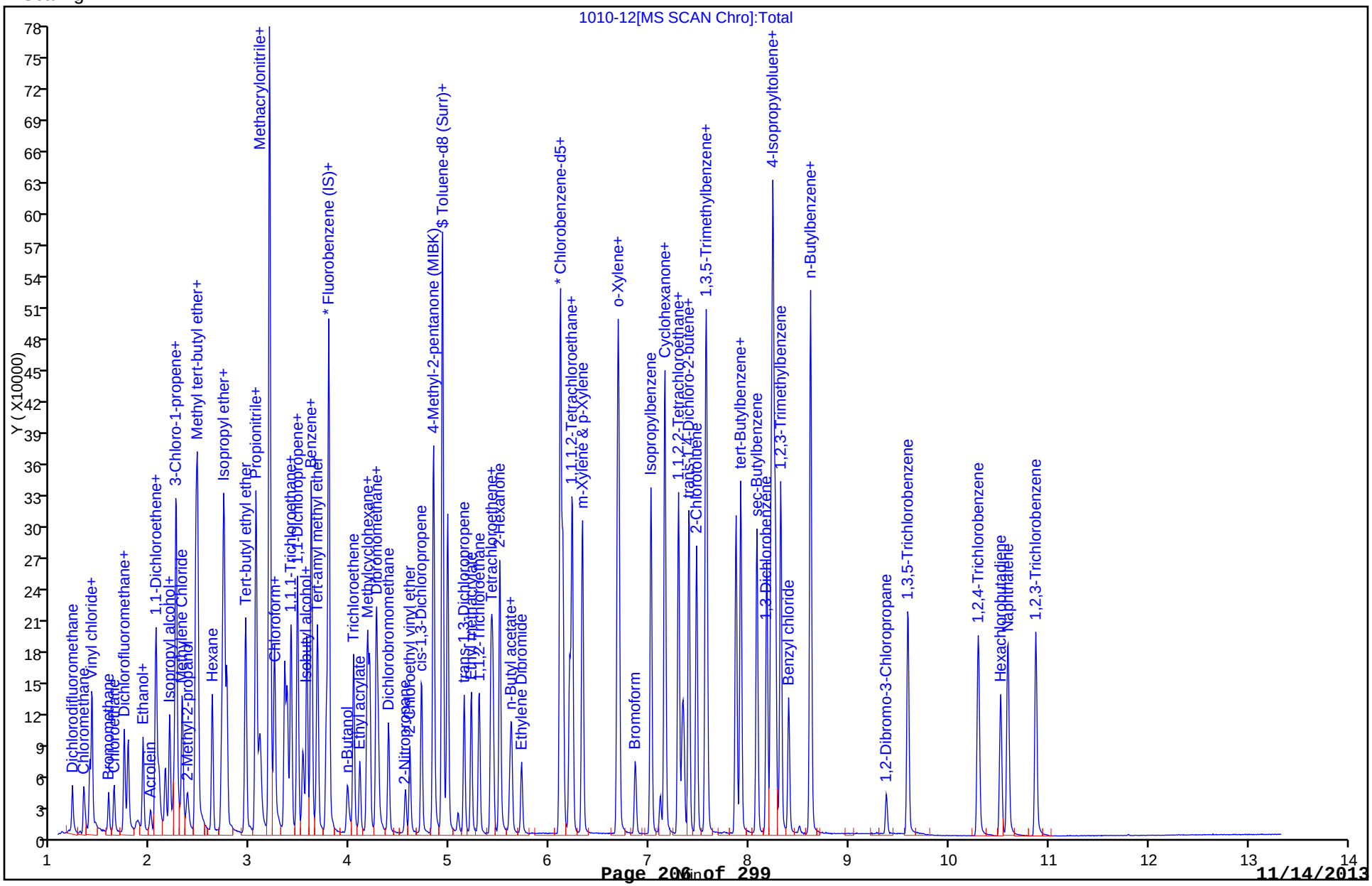
Report Date: 11-Oct-2013 11:15:58 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-12.D

Injection Date:	10-Oct-2013 16:33:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP45
Lims Batch ID:	113395	Lims Sample ID:	8
Operator ID:	MJH HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-13.D
Lims ID: ICIS Client ID:
Inject. Date: 10-Oct-2013 17:00:30 Dil. Factor: 1.0000
Sample Type: ICIS Calib Level: 7
Sample ID: ICIS
Misc. Info.: 490-0026494-009
Operator: MJH HP45 Instrument ID: HP45
Purge Vol: 5.000 mL ALS Bottle#: 13
Lims Batch ID: 113395 Lims Sample ID: 9
Sublist: chrom-8260HP45*sub15
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP45\20131010-26494.b\8260HP45.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 11-Oct-2013 12:05:57 Calib Date: 10-Oct-2013 17:55:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK021

First Level Reviewer: matlockbe Date: 10-Oct-2013 19:12:38

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.784	3.784	0.0	98	310298	50.0	
* 2 Chlorobenzene-d5	117	6.109	6.109	0.0	83	248281	50.0	
* 3 1,4-Dichlorobenzene-d4	152	8.241	8.241	0.0	90	144725	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.343	3.343	0.0	64	75255	48.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.563	3.563	0.0	92	85615	47.8	
$ 6 Toluene-d8 (Surr)	98	4.927	4.927	0.0	84	314143	49.7	
$ 8 4-Bromofluorobenzene (Surr)	95	7.155	7.155	0.0	96	122341	50.1	
9 Dichlorodifluoromethane	85	1.216	1.216	0.0	88	84156	51.8	
10 Chloromethane	50	1.329	1.329	0.0	89	114985	50.7	
11 Vinyl chloride	62	1.385	1.385	0.0	79	119458	51.4	
12 Butadiene	54	1.408	1.408	0.0	98	102967	52.3	
13 Bromomethane	96	1.578	1.578	0.0	89	40359	51.7	
14 Chloroethane	64	1.629	1.629	0.0	95	73089	52.6	
15 Dichlorofluoromethane	67	1.730	1.730	0.0	83	187958	49.8	
16 Trichlorofluoromethane	101	1.770	1.770	0.0	83	141299	53.4	
17 Ethanol	45	1.866	1.866	0.0	97	38365	2329.2	
18 Ethyl ether	59	1.923	1.923	0.0	93	83534	48.2	
19 Acrolein	56	1.996	1.996	0.0	95	38545	125.1	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.047	2.047	0.0	82	80158	50.4	
21 1,1-Dichloroethene	96	2.053	2.053	0.0	88	86300	51.0	
22 Acetone	58	2.081	2.081	0.0	99	47256	243.3	
23 Iodomethane	142	2.143	2.143	0.0	98	98318	45.9	
24 Isopropyl alcohol	45	2.149	2.149	0.0	80	58219	475.1	
25 Carbon disulfide	76	2.189	2.189	0.0	98	274395	48.0	
26 Acetonitrile	40	2.245	2.245	0.0	77	93305	469.3	
27 3-Chloro-1-propene	76	2.251	2.251	0.0	97	74150	48.1	
28 Methyl acetate	43	2.256	2.256	0.0	98	482670	232.2	
29 Methylene Chloride	84	2.313	2.313	0.0	86	97377	48.6	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
30 2-Methyl-2-propanol	59	2.370	2.370	0.0	98	83574	478.2	
31 Acrylonitrile	53	2.449	2.449	0.0	99	400665	473.3	
32 Methyl tert-butyl ether	73	2.466	2.466	0.0	91	270278	46.4	
33 trans-1,2-Dichloroethene	61	2.471	2.471	0.0	94	138666	49.2	
34 Hexane	57	2.619	2.619	0.0	94	105229	44.3	
35 1,1-Dichloroethane	63	2.709	2.709	0.0	85	186069	50.1	
36 Vinyl acetate	43	2.726	2.726	0.0	96	474300	88.7	
37 Isopropyl ether	45	2.737	2.737	0.0	84	346430	45.5	
38 2-Chloro-1,3-butadiene	53	2.760	2.760	0.0	98	143424	46.8	
39 Tert-butyl ethyl ether	59	2.952	2.952	0.0	96	314388	47.6	
40 cis-1,2-Dichloroethene	61	3.054	3.054	0.0	70	174385	48.8	
41 2,2-Dichloropropane	77	3.054	3.054	0.0	73	135022	45.9	
42 2-Butanone (MEK)	72	3.060	3.060	0.0	99	57054	248.7	
43 Ethyl acetate	45	3.088	3.088	0.0	98	16181	102.7	
44 Propionitrile	54	3.099	3.099	0.0	0	150042	472.6	
45 Methacrylonitrile	41	3.190	3.190	0.0	97	635947	465.9	
46 Chlorobromomethane	130	3.201	3.201	0.0	81	61027	50.3	
48 Chloroform	83	3.241	3.241	0.0	71	165615	46.4	
47 Tetrahydrofuran	42	3.241	3.241	0.0	60	67195	96.0	
49 1,1,1-Trichloroethane	97	3.365	3.365	0.0	90	141767	47.8	
50 Cyclohexane	56	3.405	3.405	0.0	92	166420	46.4	
51 1,1-Dichloropropene	75	3.467	3.467	0.0	94	121763	47.9	
52 Carbon tetrachloride	117	3.473	3.473	0.0	79	124644	49.5	
53 Isobutyl alcohol	43	3.524	3.524	0.0	98	112923	457.8	
54 Benzene	78	3.608	3.608	0.0	96	393586	46.6	
55 1,2-Dichloroethane	62	3.614	3.614	0.0	89	132981	48.3	
56 Tert-amyl methyl ether	73	3.671	3.671	0.0	97	285529	48.0	
57 n-Heptane	43	3.761	3.761	0.0	99	90185	46.6	
58 n-Butanol	56	3.971	3.971	0.0	89	69770	1184.7	
59 Trichloroethene	130	4.033	4.033	0.0	93	106688	48.7	
60 Ethyl acrylate	55	4.095	4.095	0.0	100	128030	45.7	
61 Methylcyclohexane	83	4.174	4.174	0.0	90	138349	48.8	
62 1,2-Dichloropropane	63	4.197	4.197	0.0	95	107054	47.5	
63 Methyl methacrylate	41	4.259	4.259	0.0	94	196671	97.1	
64 Dibromomethane	93	4.276	4.276	0.0	88	58895	50.8	
65 1,4-Dioxane	88	4.299	4.299	0.0	89	19885	971.5	
66 Dichlorobromomethane	83	4.383	4.383	0.0	93	133416	49.4	
67 2-Nitropropane	43	4.553	4.553	0.0	99	58945	96.0	
68 2-Chloroethyl vinyl ether	63	4.598	4.598	0.0	84	68788	52.1	
69 cis-1,3-Dichloropropene	75	4.712	4.712	0.0	88	167193	50.7	
70 4-Methyl-2-pentanone (MIBK)	58	4.836	4.836	0.0	97	203026	245.0	
71 Toluene	91	4.977	4.977	0.0	92	427598	45.8	
72 trans-1,3-Dichloropropene	75	5.141	5.141	0.0	91	143743	51.2	
73 Ethyl methacrylate	69	5.215	5.215	0.0	91	138675	47.5	
74 1,1,2-Trichloroethane	97	5.294	5.294	0.0	87	91474	50.0	
75 Tetrachloroethene	166	5.413	5.413	0.0	91	124244	50.2	
76 1,3-Dichloropropane	76	5.430	5.430	0.0	92	160454	49.5	
77 2-Hexanone	58	5.498	5.498	0.0	97	199471	245.9	
78 n-Butyl acetate	43	5.600	5.600	0.0	86	88982	48.6	
79 Chlorodibromomethane	127	5.617	5.617	0.0	85	81543	53.5	
80 Ethylene Dibromide	107	5.718	5.718	0.0	98	94932	49.6	
81 Chlorobenzene	112	6.131	6.131	0.0	94	293116	48.7	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
82 1,1,1,2-Tetrachloroethane	131	6.199	6.199	0.0	88	103859	51.1	
83 Ethylbenzene	91	6.222	6.222	0.0	98	479835	46.7	
84 m-Xylene & p-Xylene	91	6.329	6.329	0.0	99	384163	46.2	
85 o-Xylene	91	6.680	6.680	0.0	94	394140	46.7	
86 Styrene	104	6.691	6.691	0.0	94	340447	48.7	
87 Bromoform	173	6.856	6.856	0.0	97	81560	55.6	
88 Isopropylbenzene	105	7.014	7.014	0.0	96	479722	48.3	
89 Cyclohexanone	55	7.104	7.104	0.0	92	36736	458.7	
90 Bromobenzene	77	7.291	7.291	0.0	89	196740	47.7	
91 1,1,2,2-Tetrachloroethane	83	7.291	7.291	0.0	67	119816	49.0	
92 1,2,3-Trichloropropane	110	7.331	7.331	0.0	78	36405	50.1	
93 trans-1,4-Dichloro-2-butene	53	7.348	7.347	0.001	73	32336	51.7	
94 N-Propylbenzene	91	7.393	7.393	0.0	97	546323	48.3	
95 2-Chlorotoluene	91	7.472	7.472	0.0	96	339396	47.0	
96 1,3,5-Trimethylbenzene	105	7.563	7.563	0.0	92	401486	48.8	
97 4-Chlorotoluene	91	7.574	7.574	0.0	98	389575	46.4	
98 tert-Butylbenzene	119	7.868	7.868	0.0	90	337536	49.1	
100 1,2,4-Trimethylbenzene	105	7.913	7.913	0.0	97	416221	47.7	
101 sec-Butylbenzene	105	8.077	8.077	0.0	94	461257	48.8	
102 1,3-Dichlorobenzene	146	8.174	8.174	0.0	98	258949	48.9	
103 4-Isopropyltoluene	119	8.219	8.219	0.0	89	414016	48.7	
104 1,4-Dichlorobenzene	146	8.264	8.264	0.0	94	266661	49.5	
105 1,2,3-Trimethylbenzene	105	8.315	8.315	0.0	0	424897	47.8	
106 Benzyl chloride	91	8.394	8.394	0.0	94	210464	48.6	
107 n-Butylbenzene	91	8.615	8.615	0.0	95	337366	48.3	
108 1,2-Dichlorobenzene	146	8.615	8.615	0.0	97	256828	50.1	
109 1,2-Dibromo-3-Chloropropane	157	9.373	9.373	0.0	78	29080	48.4	
110 1,3,5-Trichlorobenzene	180	9.593	9.593	0.0	96	219627	52.2	
111 1,2,4-Trichlorobenzene	180	10.295	10.295	0.0	92	206178	49.5	
112 Hexachlorobutadiene	225	10.521	10.521	0.0	86	87139	49.8	
113 Naphthalene	128	10.595	10.595	0.0	97	461941	50.3	
114 1,2,3-Trichlorobenzene	180	10.872	10.872	0.0	92	187378	50.5	
S 119 Xylenes, Total	1				0		92.9	
S 120 1,2-Dichloroethene, Total	1				0		98.0	

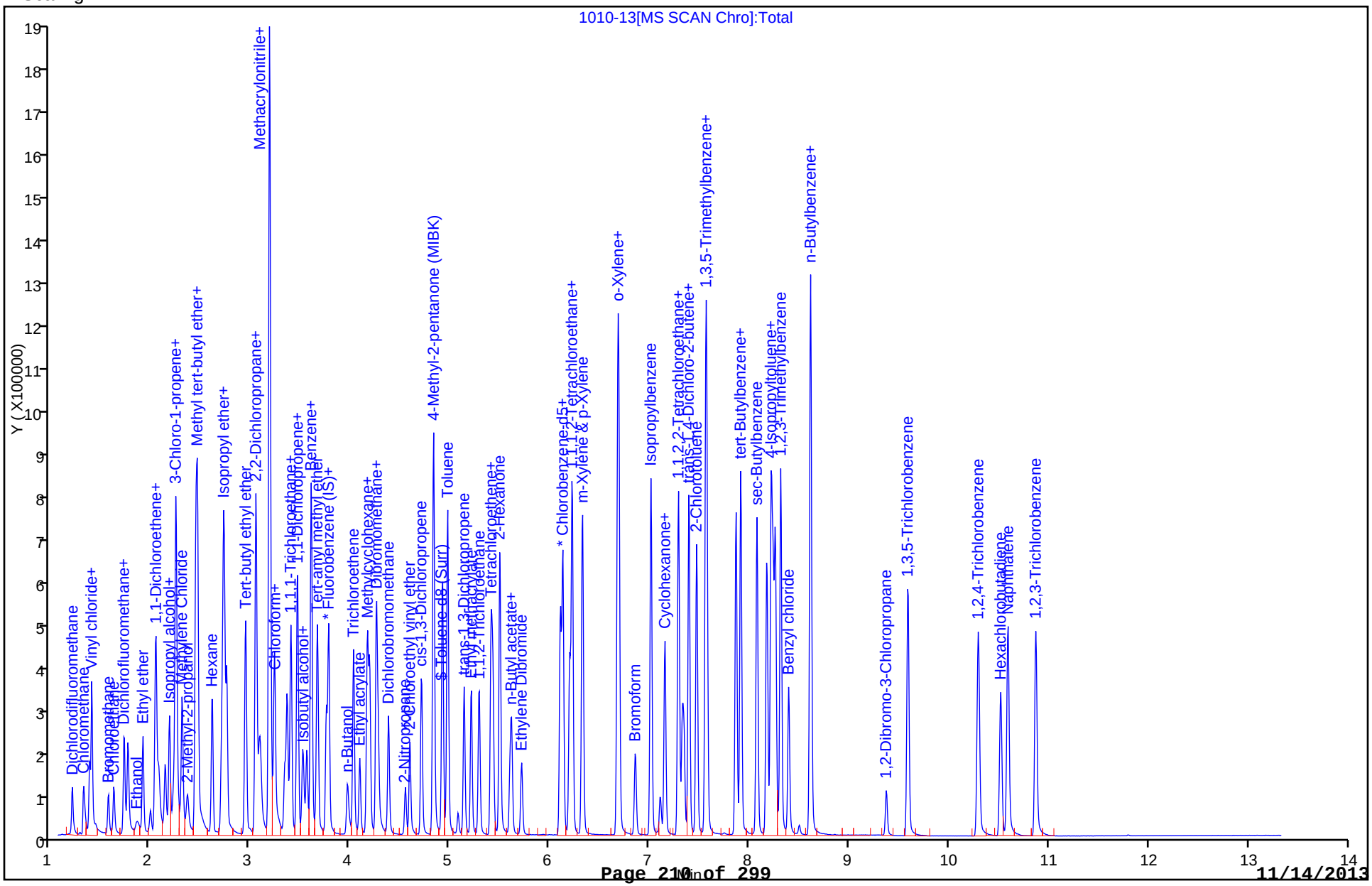
Report Date: 11-Oct-2013 12:05:57 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-13.D

Injection Date:	10-Oct-2013 17:00:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP45
Lims Batch ID:	113395	Lims Sample ID:	9
Operator ID:	MJH HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-14.D
Lims ID: STD100 Client ID:
Inject. Date: 10-Oct-2013 17:27:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 8
Sample ID: STD100
Misc. Info.: 490-0026494-010
Operator: MJH HP45 Instrument ID: HP45
Purge Vol: 5.000 mL ALS Bottle#: 14
Lims Batch ID: 113395 Lims Sample ID: 10
Sublist: chrom-8260HP45*sub15
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP45\20131010-26494.b\8260HP45.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 11-Oct-2013 12:07:02 Calib Date: 10-Oct-2013 17:55:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK021

First Level Reviewer: matlockbe Date: 11-Oct-2013 10:27:30

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.784	3.784	0.0	99	296399	50.0	
* 2 Chlorobenzene-d5	117	6.109	6.109	0.0	84	245262	50.0	
* 3 1,4-Dichlorobenzene-d4	152	8.241	8.241	0.0	88	141241	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.343	3.343	0.0	56	74160	50.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.563	3.563	0.0	91	84791	49.6	
$ 6 Toluene-d8 (Surr)	98	4.926	4.927	-0.001	83	308103	49.4	
$ 8 4-Bromofluorobenzene (Surr)	95	7.155	7.155	0.0	95	120957	50.8	
9 Dichlorodifluoromethane	85	1.210	1.216	-0.006	88	163316	105.3	
10 Chloromethane	50	1.329	1.329	0.0	89	229254	105.9	
11 Vinyl chloride	62	1.385	1.385	0.0	80	236863	107.1	
12 Butadiene	54	1.408	1.408	0.0	99	202478	108.5	
13 Bromomethane	96	1.572	1.578	-0.006	91	90378	119.8	
14 Chloroethane	64	1.629	1.629	-0.001	95	137156	103.3	
15 Dichlorofluoromethane	67	1.730	1.730	0.0	83	364533	101.1	
16 Trichlorofluoromethane	101	1.770	1.770	0.0	83	259000	103.7	
17 Ethanol	45	1.866	1.866	0.0	100	71480	4543.2	
18 Ethyl ether	59	1.923	1.923	0.0	93	161930	97.8	
19 Acrolein	56	1.996	1.996	0.0	91	74587	254.0	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.047	2.047	0.0	80	154961	102.1	
21 1,1-Dichloroethene	96	2.053	2.053	0.0	88	168553	104.2	
22 Acetone	58	2.081	2.081	0.0	100	92324	497.7	
23 Iodomethane	142	2.143	2.143	0.0	98	218066	107.5	
24 Isopropyl alcohol	45	2.149	2.149	0.0	96	105243	899.0	
25 Carbon disulfide	76	2.189	2.189	0.0	98	541902	99.2	
26 Acetonitrile	40	2.239	2.245	-0.006	78	183598	977.2	
27 3-Chloro-1-propene	76	2.251	2.251	0.0	97	154401	104.8	
28 Methyl acetate	43	2.256	2.256	0.0	98	941805	474.3	
29 Methylene Chloride	84	2.313	2.313	0.0	89	189093	99.2	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
30 2-Methyl-2-propanol	59	2.370	2.370	0.0	98	169685	1016.4	
31 Acrylonitrile	53	2.454	2.449	0.005	99	783421	968.8	
32 Methyl tert-butyl ether	73	2.466	2.466	0.0	91	528949	95.3	
33 trans-1,2-Dichloroethene	61	2.471	2.471	0.0	94	272298	101.1	
34 Hexane	57	2.613	2.619	-0.005	94	204602	90.3	
35 1,1-Dichloroethane	63	2.709	2.709	0.0	85	370154	104.3	
36 Vinyl acetate	43	2.726	2.726	0.0	96	905937	177.4	
37 Isopropyl ether	45	2.737	2.737	0.0	85	680010	93.4	
38 2-Chloro-1,3-butadiene	53	2.760	2.760	0.0	98	278889	95.3	
39 Tert-butyl ethyl ether	59	2.952	2.952	0.0	98	612968	97.1	
40 cis-1,2-Dichloroethene	61	3.054	3.054	0.0	70	344669	101.1	
41 2,2-Dichloropropane	77	3.054	3.054	0.0	76	266506	94.9	
42 2-Butanone (MEK)	72	3.060	3.060	0.0	99	112948	515.4	
43 Ethyl acetate	45	3.082	3.088	-0.006	82	32492	211.7	
44 Propionitrile	54	3.099	3.099	0.0	0	294239	970.4	
45 Methacrylonitrile	41	3.190	3.190	0.0	96	1246572	956.1	
46 Chlorobromomethane	130	3.201	3.201	0.0	76	118281	102.0	
48 Chloroform	83	3.241	3.241	0.0	70	323905	95.0	
47 Tetrahydrofuran	42	3.241	3.241	0.0	58	123459	184.6	
49 1,1,1-Trichloroethane	97	3.365	3.365	0.0	89	282938	99.9	
50 Cyclohexane	56	3.405	3.405	0.0	92	316667	92.4	
51 1,1-Dichloropropene	75	3.467	3.467	0.0	95	240646	99.2	
52 Carbon tetrachloride	117	3.473	3.473	0.0	78	249165	103.6	
53 Isobutyl alcohol	43	3.529	3.524	0.005	99	224140	951.3	
54 Benzene	78	3.608	3.608	0.0	96	778759	96.5	
55 1,2-Dichloroethane	62	3.614	3.614	0.0	89	262101	99.6	
56 Tert-amyl methyl ether	73	3.671	3.671	0.0	98	566378	99.7	
57 n-Heptane	43	3.761	3.761	0.0	99	182479	98.6	
58 n-Butanol	56	3.976	3.971	0.006	89	139968	2497.5	
59 Trichloroethene	130	4.033	4.033	0.0	92	212382	101.6	
60 Ethyl acrylate	55	4.095	4.095	0.0	100	256479	95.9	
61 Methylcyclohexane	83	4.174	4.174	0.0	91	272054	100.4	
62 1,2-Dichloropropane	63	4.197	4.197	0.0	95	212528	98.7	
63 Methyl methacrylate	41	4.259	4.259	0.0	94	389071	201.1	
64 Dibromomethane	93	4.276	4.276	0.0	88	112720	101.8	
65 1,4-Dioxane	88	4.299	4.299	0.0	89	40591	2028.0	
66 Dichlorobromomethane	83	4.383	4.383	0.0	91	269442	104.4	
67 2-Nitropropane	43	4.553	4.553	0.0	99	121636	207.3	
68 2-Chloroethyl vinyl ether	63	4.598	4.598	0.0	82	140656	107.9	
69 cis-1,3-Dichloropropene	75	4.717	4.712	0.005	90	334357	102.6	
70 4-Methyl-2-pentanone (MIBK)	58	4.836	4.836	0.0	97	395970	483.8	
71 Toluene	91	4.977	4.977	0.0	92	839509	91.0	
72 trans-1,3-Dichloropropene	75	5.141	5.141	0.0	90	291854	105.2	
73 Ethyl methacrylate	69	5.215	5.215	0.0	91	277995	96.3	
74 1,1,2-Trichloroethane	97	5.294	5.294	0.0	87	179147	99.0	
75 Tetrachloroethene	166	5.413	5.413	0.0	92	242555	99.2	
76 1,3-Dichloropropane	76	5.430	5.430	0.0	93	314375	98.2	
77 2-Hexanone	58	5.498	5.498	0.0	98	388829	485.3	
78 n-Butyl acetate	43	5.600	5.600	0.0	87	176738	100.1	
79 Chlorodibromomethane	127	5.617	5.617	0.0	86	166188	110.3	
80 Ethylene Dibromide	107	5.718	5.718	0.0	98	188054	99.5	
81 Chlorobenzene	112	6.131	6.131	0.0	93	569170	95.8	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
82 1,1,1,2-Tetrachloroethane	131	6.199	6.199	0.0	88	209065	104.0	
83 Ethylbenzene	91	6.228	6.222	0.006	97	947298	93.4	
84 m-Xylene & p-Xylene	91	6.329	6.329	0.0	99	755113	91.8	
85 o-Xylene	91	6.680	6.680	0.0	94	779840	93.6	
86 Styrene	104	6.691	6.691	0.0	95	662999	96.1	
87 Bromoform	173	6.855	6.856	-0.001	96	168011	116.0	
88 Isopropylbenzene	105	7.014	7.014	0.0	96	945825	96.4	
89 Cyclohexanone	55	7.110	7.104	0.006	92	71119	937.6	
90 Bromobenzene	77	7.291	7.291	0.0	90	383585	95.3	
91 1,1,2,2-Tetrachloroethane	83	7.291	7.291	0.0	68	237136	99.3	
92 1,2,3-Trichloropropane	110	7.331	7.331	0.0	78	72481	101.8	
93 trans-1,4-Dichloro-2-butene	53	7.348	7.347	0.001	90	66757	109.4	
94 N-Propylbenzene	91	7.399	7.393	0.006	97	1075435	97.4	
95 2-Chlorotoluene	91	7.472	7.472	0.0	96	672608	95.4	
96 1,3,5-Trimethylbenzene	105	7.563	7.563	0.0	91	787465	98.1	
97 4-Chlorotoluene	91	7.574	7.574	0.0	98	779415	95.2	
98 tert-Butylbenzene	119	7.868	7.868	0.0	90	663778	98.9	
100 1,2,4-Trimethylbenzene	105	7.919	7.913	0.006	97	818991	96.2	
101 sec-Butylbenzene	105	8.077	8.077	0.0	94	908826	98.6	
102 1,3-Dichlorobenzene	146	8.179	8.174	0.005	98	515033	99.6	
103 4-Isopropyltoluene	119	8.219	8.219	0.0	89	819064	98.7	
104 1,4-Dichlorobenzene	146	8.264	8.264	0.0	95	510685	97.2	
105 1,2,3-Trimethylbenzene	105	8.315	8.315	0.0	0	841665	97.0	
106 Benzyl chloride	91	8.394	8.394	0.0	95	434592	101.5	
107 n-Butylbenzene	91	8.615	8.615	0.0	95	662129	97.2	
108 1,2-Dichlorobenzene	146	8.615	8.615	0.0	98	500124	100.0	
109 1,2-Dibromo-3-Chloropropane	157	9.373	9.373	0.0	84	65932	111.6	
110 1,3,5-Trichlorobenzene	180	9.593	9.593	0.0	96	438917	106.9	
111 1,2,4-Trichlorobenzene	180	10.295	10.295	0.0	92	425752	104.7	
112 Hexachlorobutadiene	225	10.521	10.521	0.0	87	173275	101.5	
113 Naphthalene	128	10.595	10.595	0.0	97	929630	103.7	
114 1,2,3-Trichlorobenzene	180	10.872	10.872	0.0	94	369183	102.0	
S 119 Xylenes, Total	1				0		185.4	
S 120 1,2-Dichloroethene, Total	1				0		202.1	

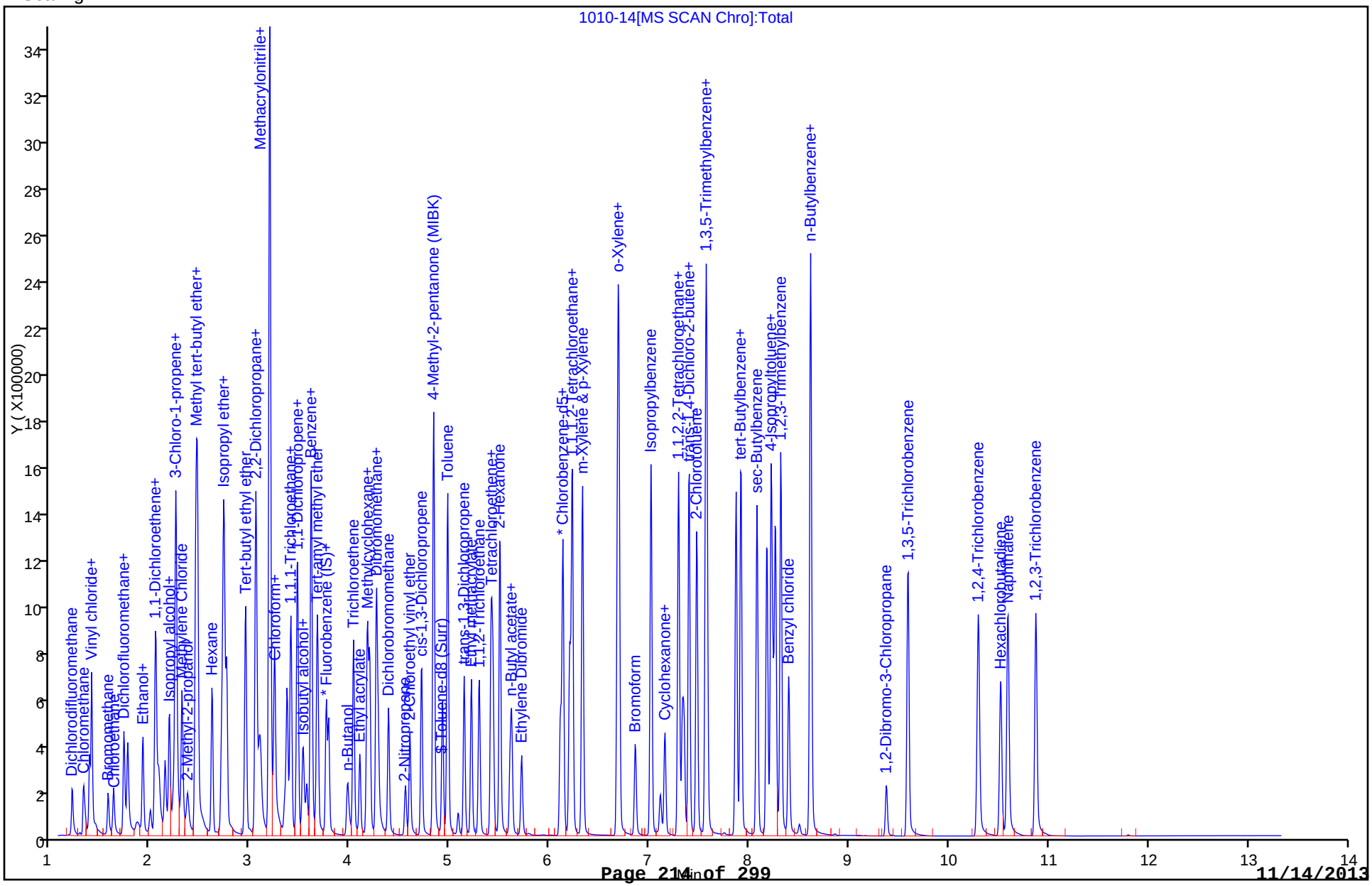
Report Date: 11-Oct-2013 12:07:02 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-14.D

Injection Date:	10-Oct-2013 17:27:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP45
Lims Batch ID:	113395	Lims Sample ID:	10
Operator ID:	MJH HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D
Lims ID: STD200 Client ID:
Inject. Date: 10-Oct-2013 17:55:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 9
Sample ID: STD200
Misc. Info.: 490-0026494-011
Operator: MJH HP45 Instrument ID: HP45
Purge Vol: 5.000 mL ALS Bottle#: 15
Lims Batch ID: 113395 Lims Sample ID: 11
Sublist: chrom-8260HP45*sub15
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP45\20131010-26494.b\8260HP45.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 11-Oct-2013 11:24:26 Calib Date: 10-Oct-2013 17:55:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK021

First Level Reviewer: matlockbe Date: 11-Oct-2013 11:24:26

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.784	3.784	0.0	98	297668	50.0	
* 2 Chlorobenzene-d5	117	6.109	6.109	0.0	85	248262	50.0	
* 3 1,4-Dichlorobenzene-d4	152	8.241	8.241	0.0	93	140495	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.342	3.343	-0.001	56	74403	50.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.569	3.563	0.006	91	81823	47.6	
$ 6 Toluene-d8 (Surr)	98	4.926	4.927	-0.001	83	308361	48.8	
$ 8 4-Bromofluorobenzene (Surr)	95	7.155	7.155	0.0	92	121700	51.3	
9 Dichlorodifluoromethane	85	1.210	1.216	-0.006	88	315375	201.6	
10 Chloromethane	50	1.323	1.329	-0.006	89	429654	197.6	
11 Vinyl chloride	62	1.385	1.385	0.0	80	470046	210.0	
12 Butadiene	54	1.408	1.408	0.0	97	406779	212.9	
13 Bromomethane	96	1.566	1.578	-0.012	91	146435	193.4	
14 Chloroethane	64	1.623	1.629	-0.006	95	230411	172.5	
15 Dichlorofluoromethane	67	1.730	1.730	0.0	83	691129	190.8	
16 Trichlorofluoromethane	101	1.764	1.770	-0.006	80	531911	208.6	
17 Ethanol	45	1.877	1.866	0.011	96	133433	8444.7	
18 Ethyl ether	59	1.923	1.923	0.0	92	322711	194.2	
19 Acrolein	56	1.996	1.996	0.0	91	142279	490.4	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.041	2.047	-0.006	83	292954	192.1	
21 1,1-Dichloroethene	96	2.053	2.053	0.0	88	316440	194.8	
22 Acetone	58	2.081	2.081	0.0	100	180077	966.6	
23 Iodomethane	142	2.143	2.143	0.0	97	408998	194.4	
24 Isopropyl alcohol	45	2.154	2.149	0.005	80	209006	1777.8	
25 Carbon disulfide	76	2.183	2.189	-0.006	99	1039270	189.4	
26 Acetonitrile	40	2.239	2.245	-0.006	90	354334	1886.9	
27 3-Chloro-1-propene	76	2.245	2.251	-0.006	97	320581	216.7	
28 Methyl acetate	43	2.256	2.256	0.0	98	1811603	908.4	
29 Methylene Chloride	84	2.313	2.313	0.0	87	366484	191.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
30 2-Methyl-2-propanol	59	2.375	2.370	0.005	95	333572	1989.6	
31 Acrylonitrile	53	2.454	2.449	0.005	100	1499781	1846.5	
32 Methyl tert-butyl ether	73	2.466	2.466	0.0	89	1010391	180.2	
33 trans-1,2-Dichloroethene	61	2.466	2.471	-0.005	55	522098	193.0	
34 Hexane	57	2.613	2.619	-0.005	94	394847	172.7	
35 1,1-Dichloroethane	63	2.709	2.709	0.0	85	712497	199.9	
36 Vinyl acetate	43	2.726	2.726	0.0	96	1741699	339.5	
37 Isopropyl ether	45	2.737	2.737	0.0	84	1296094	177.3	
38 2-Chloro-1,3-butadiene	53	2.760	2.760	0.0	98	535975	182.4	
39 Tert-butyl ethyl ether	59	2.952	2.952	0.0	96	1197630	189.0	
40 cis-1,2-Dichloroethene	61	3.054	3.054	0.0	71	671937	196.2	
41 2,2-Dichloropropane	77	3.054	3.054	0.0	78	512195	181.7	
42 2-Butanone (MEK)	72	3.060	3.060	0.0	98	218122	994.2	
43 Ethyl acetate	45	3.088	3.088	0.0	88	57964	384.6	
44 Propionitrile	54	3.105	3.099	0.006	0	579346	1902.4	
45 Methacrylonitrile	41	3.195	3.190	0.005	96	2356497	1799.7	
46 Chlorobromomethane	130	3.207	3.201	0.006	89	221008	189.7	
48 Chloroform	83	3.241	3.241	0.0	81	632627	184.8	
47 Tetrahydrofuran	42	3.241	3.241	0.0	59	245238	365.1	
49 1,1,1-Trichloroethane	97	3.365	3.365	0.0	90	551028	193.7	
50 Cyclohexane	56	3.405	3.405	0.0	92	627171	182.3	
51 1,1-Dichloropropene	75	3.467	3.467	0.0	93	468001	191.7	
52 Carbon tetrachloride	117	3.473	3.473	0.0	79	483647	200.2	
53 Isobutyl alcohol	43	3.529	3.524	0.005	99	444894	1880.2	
54 Benzene	78	3.608	3.608	0.0	96	1507667	186.1	
55 1,2-Dichloroethane	62	3.614	3.614	0.0	86	512932	194.2	
56 Tert-amyl methyl ether	73	3.671	3.671	-0.001	97	1106051	193.8	
57 n-Heptane	43	3.761	3.761	0.0	99	357242	192.1	
58 n-Butanol	56	3.976	3.971	0.006	89	280098	4985.0	
59 Trichloroethene	130	4.033	4.033	0.0	92	410789	195.6	
60 Ethyl acrylate	55	4.095	4.095	0.0	100	508834	198.2	
61 Methylcyclohexane	83	4.174	4.174	0.0	90	523985	192.6	
62 1,2-Dichloropropane	63	4.197	4.197	0.0	94	410727	190.0	
63 Methyl methacrylate	41	4.264	4.259	0.005	95	773554	398.1	
64 Dibromomethane	93	4.281	4.276	0.005	86	213538	192.0	
65 1,4-Dioxane	88	4.304	4.299	0.005	92	81629	4018.6	
66 Dichlorobromomethane	83	4.383	4.383	0.0	91	533428	205.8	
67 2-Nitropropane	43	4.553	4.553	0.0	99	249595	423.7	
68 2-Chloroethyl vinyl ether	63	4.598	4.598	0.0	83	280784	212.9	
69 cis-1,3-Dichloropropene	75	4.717	4.712	0.005	90	658557	199.6	
70 4-Methyl-2-pentanone (MIBK)	58	4.836	4.836	0.0	98	770633	930.2	
71 Toluene	91	4.977	4.977	0.0	92	1621015	173.6	
72 trans-1,3-Dichloropropene	75	5.141	5.141	0.0	91	583745	207.8	
73 Ethyl methacrylate	69	5.215	5.215	0.0	91	552307	189.1	
74 1,1,2-Trichloroethane	97	5.294	5.294	0.0	87	348987	190.6	
75 Tetrachloroethene	166	5.413	5.413	0.0	93	466434	188.5	
76 1,3-Dichloropropane	76	5.430	5.430	0.0	93	612060	188.9	
77 2-Hexanone	58	5.503	5.498	0.005	98	759298	936.2	
78 n-Butyl acetate	43	5.600	5.600	0.0	84	325710	187.0	
79 Chlorodibromomethane	127	5.616	5.617	-0.001	86	330981	217.5	
80 Ethylene Dibromide	107	5.718	5.718	0.0	99	374070	195.6	
81 Chlorobenzene	112	6.131	6.131	0.0	93	1110074	184.7	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
82 1,1,1,2-Tetrachloroethane	131	6.199	6.199	0.0	88	406227	199.7	
83 Ethylbenzene	91	6.227	6.222	0.005	98	1832158	178.5	
84 m-Xylene & p-Xylene	91	6.329	6.329	0.0	99	1481827	178.1	
85 o-Xylene	91	6.680	6.680	0.0	95	1516220	179.7	
86 Styrene	104	6.697	6.691	0.006	95	1266263	181.3	
87 Bromoform	173	6.861	6.856	0.005	97	348113	237.5	
88 Isopropylbenzene	105	7.019	7.014	0.005	95	1838524	185.1	
89 Cyclohexanone	55	7.110	7.104	0.006	93	140609	1853.3	
90 Bromobenzene	77	7.291	7.291	0.0	91	775271	193.7	
91 1,1,2,2-Tetrachloroethane	83	7.291	7.291	0.0	66	465985	196.2	
92 1,2,3-Trichloropropane	110	7.331	7.331	0.0	78	140163	197.7	
93 trans-1,4-Dichloro-2-butene	53	7.348	7.347	0.001	70	135763	233.0	
94 N-Propylbenzene	91	7.398	7.393	0.005	92	2106224	191.7	
95 2-Chlorotoluene	91	7.478	7.472	0.006	97	1313861	187.3	
96 1,3,5-Trimethylbenzene	105	7.568	7.563	0.005	90	1521233	190.5	
97 4-Chlorotoluene	91	7.574	7.574	0.0	99	1515486	186.0	
98 tert-Butylbenzene	119	7.868	7.868	0.0	91	1307066	195.8	
100 1,2,4-Trimethylbenzene	105	7.919	7.913	0.006	87	1610205	190.2	
101 sec-Butylbenzene	105	8.077	8.077	0.0	94	1803188	196.6	
102 1,3-Dichlorobenzene	146	8.179	8.174	0.005	98	999853	194.4	
103 4-Isopropyltoluene	119	8.224	8.219	0.005	88	1592267	192.9	
104 1,4-Dichlorobenzene	146	8.264	8.264	0.0	90	1006511	192.5	
105 1,2,3-Trimethylbenzene	105	8.320	8.315	0.005	0	1652498	191.5	
106 Benzyl chloride	91	8.400	8.394	0.006	95	879680	203.0	
107 n-Butylbenzene	91	8.615	8.615	0.0	95	1307580	192.9	
108 1,2-Dichlorobenzene	146	8.620	8.615	0.005	93	959080	192.7	
109 1,2-Dibromo-3-Chloropropane	157	9.378	9.373	0.005	87	126697	219.9	
110 1,3,5-Trichlorobenzene	180	9.593	9.593	0.0	96	848780	207.9	
111 1,2,4-Trichlorobenzene	180	10.300	10.295	0.005	92	830089	205.2	
112 Hexachlorobutadiene	225	10.521	10.521	0.0	87	338973	199.6	
113 Naphthalene	128	10.595	10.595	0.0	97	1795412	201.4	
114 1,2,3-Trichlorobenzene	180	10.877	10.872	0.005	94	724326	201.3	
S 119 Xylenes, Total	1				0		357.8	
S 120 1,2-Dichloroethene, Total	1				0		389.2	

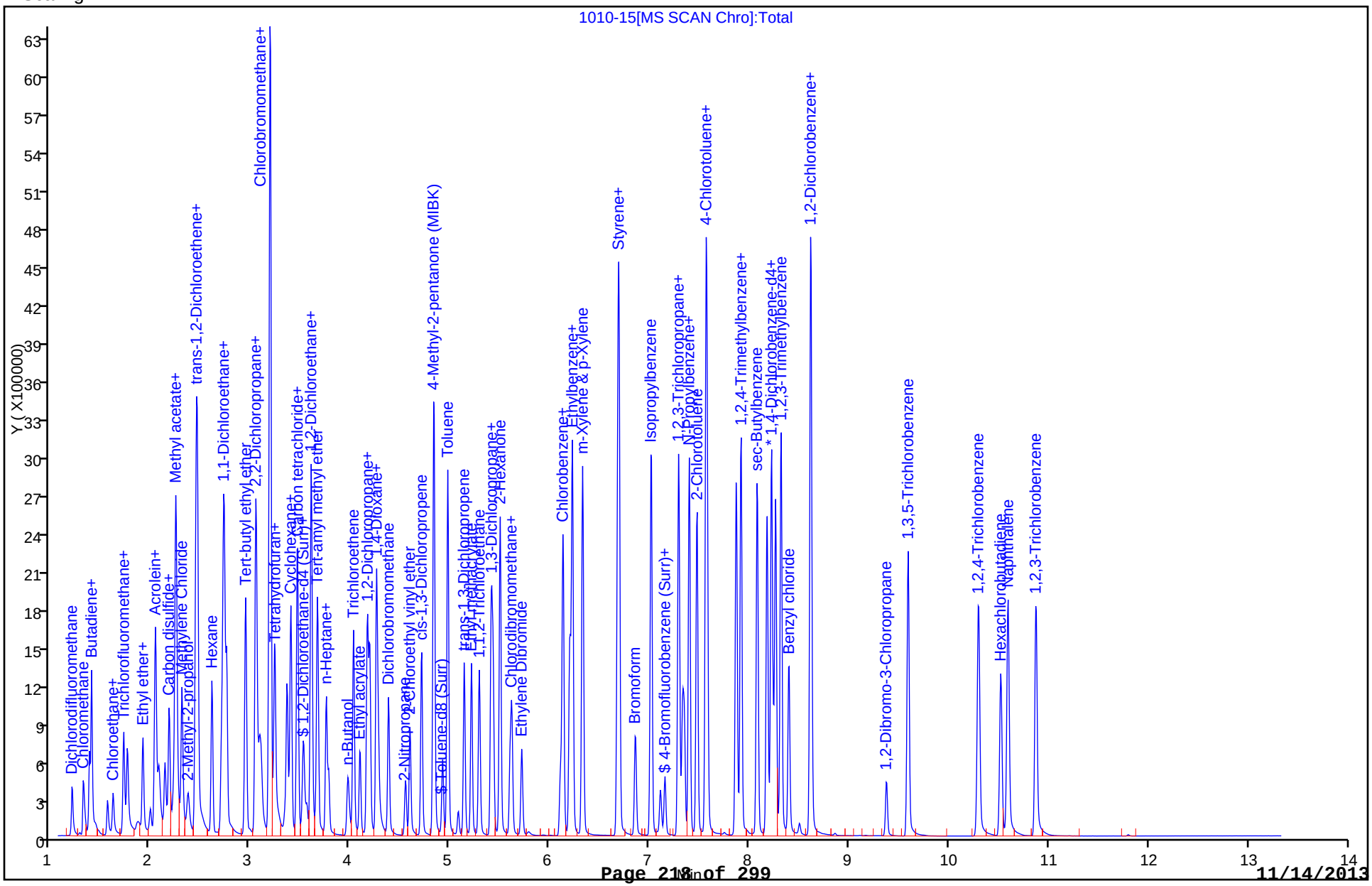
Report Date: 11-Oct-2013 11:24:26 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D

Injection Date:	10-Oct-2013 17:55:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP45
Lims Batch ID:	113395	Lims Sample ID:	11
Operator ID:	MJH HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Lab Sample ID: ICV 490-113395/14 Calibration Date: 10/10/2013 19:17

Instrument ID: HP45 Calib Start Date: 10/10/2013 14:15

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/10/2013 17:55

Lab File ID: 1010-18.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin2		0.4241		81.1	50.0	62.1*	30.0
Chloromethane	Ave	0.3653	0.4394	0.1000	60.1	50.0	20.3	30.0
Vinyl chloride	Ave	0.3732	0.4636		62.1	50.0	24.2	30.0
Butadiene	Ave	0.3148	0.3965		63.0	50.0	26.0	30.0
Bromomethane	Lin2		0.1572		61.9	50.0	23.8	30.0
Chloroethane	Ave	0.2239	0.2522		56.3	50.0	12.6	30.0
Dichlorofluoromethane	Ave	0.6083	0.6356		52.2	50.0	4.5	30.0
Trichlorofluoromethane	Ave	0.4212	0.4977		59.1	50.0	18.2	30.0
Ethanol	Ave	0.0027	0.0021		2002	2500	-19.9	30.0
Diethyl ether	Ave	0.2792	0.2695		48.3	50.0	-3.5	30.0
Acrolein	Lin2		0.0480		121	125	-3.4	30.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2561	0.2373		46.3	50.0	-7.3	30.0
1,1-Dichloroethene	Ave	0.2728	0.2553		46.8	50.0	-6.4	30.0
Acetone	Ave	0.0313	0.0308		246	250	-1.5	30.0
Iodomethane	Lin1		0.3181		46.8	50.0	-6.5	30.0
Isopropyl alcohol	Ave	0.0197	0.0176		445	500	-11.1	30.0
Carbon disulfide	Ave	0.9215	0.8041		43.6	50.0	-12.7	30.0
Acetonitrile	Lin2		0.0292		456	500	-8.8	30.0
3-Chloro-1-propene	Ave	0.2485	0.2212		44.5	50.0	-11.0	30.0
Methyl acetate	Ave	0.3350	0.2889		216	250	-13.8	30.0
Methylene Chloride	Lin2		0.3125		48.4	50.0	-3.2	30.0
tert-Butyl alcohol (TBA)	Ave	0.0282	0.0262		465	500	-7.0	30.0
Acrylonitrile	Ave	0.1364	0.1298		476	500	-4.8	30.0
Methyl tert-butyl ether	Ave	0.9367	0.8801		47.0	50.0	-6.0	30.0
trans-1,2-Dichloroethene	Ave	0.4544	0.4471		49.2	50.0	-1.6	30.0
Hexane	Ave	0.3824	0.3224		42.2	50.0	-15.7	30.0
1,1-Dichloroethane	Ave	0.5986	0.6089	0.1000	50.9	50.0	1.7	30.0
Vinyl acetate	Ave	0.8617	0.9516		110	100	10.4	30.0
Diisopropyl ether	Ave	1.228	1.162		47.3	50.0	-5.4	30.0
Chloroprene	Ave	0.4935	0.4475		45.3	50.0	-9.3	30.0
Ethyl tert-butyl ether	Ave	1.064	1.026		48.2	50.0	-3.7	30.0
2,2-Dichloropropane	Ave	0.4736	0.4458		47.1	50.0	-5.9	30.0
cis-1,2-Dichloroethene	Ave	0.5754	0.5810		50.5	50.0	1.0	30.0
2-Butanone (MEK)	Ave	0.0370	0.0376		254	250	1.6	30.0
Ethyl acetate	Ave	0.0259	0.0324		125	100	25.1	30.0
Propionitrile	Ave	0.0512	0.0498		487	500	-2.6	30.0
Methacrylonitrile	Ave	0.2199	0.2106		479	500	-4.2	30.0
Bromochloromethane	Ave	0.1956	0.1983		50.7	50.0	1.4	30.0
Chloroform	Ave	0.5751	0.5355		46.6	50.0	-6.9	30.0
Tetrahydrofuran	Ave	0.1128	0.0989		87.6	100	-12.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Lab Sample ID: ICV 490-113395/14 Calibration Date: 10/10/2013 19:17

Instrument ID: HP45 Calib Start Date: 10/10/2013 14:15

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/10/2013 17:55

Lab File ID: 1010-18.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Ave	0.4778	0.4502		47.1	50.0	-5.8	30.0
Cyclohexane	Ave	0.5780	0.4952		42.8	50.0	-14.3	30.0
1,1-Dichloropropene	Ave	0.4091	0.4159		50.8	50.0	1.7	30.0
Carbon tetrachloride	Ave	0.4057	0.4006		49.4	50.0	-1.3	30.0
Isobutanol	Ave	0.0397	0.0358		450	500	-10.0	30.0
Benzene	Ave	1.361	1.271		46.7	50.0	-6.6	30.0
1,2-Dichloroethane	Ave	0.4441	0.4362		49.1	50.0	-1.8	30.0
Tert-amyl methyl ether	Ave	0.9586	0.9359		48.8	50.0	-2.4	30.0
Heptane	Ave	0.3122	0.2867		45.9	50.0	-8.2	30.0
n-Butanol	Lin2		0.0087		1145	1250	-8.4	30.0
Trichloroethene	Ave	0.3528	0.3417		48.4	50.0	-3.1	30.0
Ethyl acrylate	Ave	0.4511	0.4296		47.6	50.0	-4.8	
Methylcyclohexane	Ave	0.4570	0.4351		47.6	50.0	-4.8	30.0
1,2-Dichloropropane	Ave	0.3633	0.3516		48.4	50.0	-3.2	30.0
Methyl methacrylate	Ave	0.3264	0.3253		99.7	100	-0.3	30.0
Dibromomethane	Ave	0.1869	0.1926		51.5	50.0	3.1	30.0
1,4-Dioxane	Lin2		0.0028		848	1000	-15.2	30.0
Bromodichloromethane	Ave	0.4354	0.4256		48.9	50.0	-2.3	30.0
2-Nitropropane	Ave	0.0990	0.0954		96.4	100	-3.6	30.0
2-Chloroethyl vinyl ether	Ave	0.2657	0.2729		51.4	50.0	2.7	30.0
cis-1,3-Dichloropropene	Ave	0.6645	0.6801		51.2	50.0	2.3	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1669	0.1606		241	250	-3.7	30.0
Toluene	Ave	1.881	1.694		45.0	50.0	-9.9	30.0
trans-1,3-Dichloropropene	Ave	0.5658	0.6321		55.9	50.0	11.7	30.0
Ethyl methacrylate	Ave	0.5883	0.5670		48.2	50.0	-3.6	30.0
1,1,2-Trichloroethane	Ave	0.3688	0.3615		49.0	50.0	-2.0	30.0
Tetrachloroethene	Ave	0.4985	0.4863		48.8	50.0	-2.5	30.0
1,3-Dichloropropane	Ave	0.6524	0.6333		48.5	50.0	-2.9	30.0
2-Hexanone	Ave	0.1633	0.1582		242	250	-3.2	30.0
n-Butyl acetate	Ave	0.2978	0.3659		61.4	50.0	22.9	30.0
Chlorodibromomethane	Ave	0.3071	0.3246		52.9	50.0	5.7	30.0
1,2-Dibromoethane (EDB)	Ave	0.3852	0.3776		49.0	50.0	-2.0	30.0
Chlorobenzene	Ave	1.212	1.163	0.3000	48.0	50.0	-4.1	30.0
1,1,1,2-Tetrachloroethane	Ave	0.4097	0.4125		50.4	50.0	0.7	30.0
Ethylbenzene	Ave	2.067	1.890		45.7	50.0	-8.6	30.0
m,p-Xylene	Ave	1.676	1.528		45.6	50.0	-8.8	30.0
o-Xylene	Ave	1.699	1.572		46.3	50.0	-7.5	30.0
Styrene	Ave	1.407	1.333		47.4	50.0	-5.2	30.0
Bromoform	Ave	0.2952	0.3209	0.1000	54.3	50.0	8.7	30.0
Isopropylbenzene	Ave	2.000	1.905		47.6	50.0	-4.8	30.0
Cyclohexanone	Lin2		0.0111		431	500	-13.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Lab Sample ID: ICV 490-113395/14 Calibration Date: 10/10/2013 19:17

Instrument ID: HP45 Calib Start Date: 10/10/2013 14:15

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/10/2013 17:55

Lab File ID: 1010-18.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,2,2-Tetrachloroethane	Ave	0.8451	0.8419	0.3000	49.8	50.0	-0.4	30.0
Bromobenzene	Ave	1.424	1.340		47.0	50.0	-5.9	30.0
1,2,3-Trichloropropane	Ave	0.2434	0.2518		50.1	50.0	3.5	30.0
trans-1,4-Dichloro-2-butene	Ave	0.2160	0.2366		54.8	50.0	9.5	30.0
N-Propylbenzene	Ave	3.909	3.693		47.2	50.0	-5.5	30.0
2-Chlorotoluene	Ave	2.497	2.331		46.7	50.0	-6.6	30.0
1,3,5-Trimethylbenzene	Ave	2.842	2.712		47.7	50.0	-4.6	30.0
4-Chlorotoluene	Ave	2.899	2.703		46.6	50.0	-6.8	30.0
tert-Butylbenzene	Ave	2.376	2.279		48.0	50.0	-4.1	30.0
1,2,4-Trimethylbenzene	Ave	3.012	2.790		46.3	50.0	-7.4	30.0
sec-Butylbenzene	Ave	3.264	3.114		47.7	50.0	-4.6	30.0
1,3-Dichlorobenzene	Ave	1.830	1.776		48.5	50.0	-3.0	30.0
p-Isopropyltoluene	Ave	2.938	2.768		47.1	50.0	-5.8	30.0
1,4-Dichlorobenzene	Ave	1.861	1.799		48.4	50.0	-3.3	30.0
1,2,3-Trimethylbenzene	Ave	3.070	2.881		46.9	50.0	-6.2	30.0
Benzyl chloride	Ave	0.8726	0.9094		52.1	50.0	4.2	30.0
1,2-Dichlorobenzene	Ave	1.771	1.742		49.2	50.0	-1.7	30.0
n-Butylbenzene	Ave	2.412	2.294		47.6	50.0	-4.9	30.0
1,2-Dibromo-3-Chloropropane	Lin2		0.2194		52.8	50.0	5.6	30.0
1,3,5-Trichlorobenzene	Ave	1.453	1.494		51.4	50.0	2.8	30.0
1,2,4-Trichlorobenzene	Ave	1.440	1.459		50.7	50.0	1.3	30.0
Hexachlorobutadiene	Ave	0.6044	0.5979		49.5	50.0	-1.1	30.0
Naphthalene	Ave	3.172	3.166		49.9	50.0	-0.2	30.0
1,2,3-Trichlorobenzene	Ave	1.281	1.271		49.6	50.0	-0.8	30.0
Dibromofluoromethane (Surr)	Ave	0.2494	0.2499		50.1	50.0	0.2	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2885	0.2852		49.4	50.0	-1.2	30.0
Toluene-d8 (Surr)	Ave	1.272	1.258		49.5	50.0	-1.0	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8435	0.8451		50.1	50.0	0.2	30.0

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-18.D
Lims ID: ICV Client ID:
Inject. Date: 10-Oct-2013 19:17:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: ICV
Misc. Info.: 490-0026494-014
Operator: MJH HP45 Instrument ID: HP45
Purge Vol: 5.000 mL ALS Bottle#: 18
Lims Batch ID: 113395 Lims Sample ID: 14
Sublist:
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP45\20131010-26494.b\8260HP45.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 11-Oct-2013 12:10:14 Calib Date: 10-Oct-2013 17:55:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK021

First Level Reviewer: matlockbe Date: 11-Oct-2013 12:10:14

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.784	3.784	0.0	99	300011	50.0	
* 2 Chlorobenzene-d5	117	6.109	6.109	0.0	83	247496	50.0	
* 3 1,4-Dichlorobenzene-d4	152	8.241	8.241	0.0	90	145164	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.342	3.342	-0.001	56	74968	50.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.563	3.563	0.0	91	85552	49.4	
$ 6 Toluene-d8 (Surr)	98	4.926	4.926	-0.001	83	311429	49.5	
$ 8 4-Bromofluorobenzene (Surr)	95	7.155	7.155	0.0	96	122677	50.1	
9 Dichlorodifluoromethane	85	1.215	1.216	-0.001	88	127223	81.1	
10 Chloromethane	50	1.329	1.329	0.0	89	131828	60.1	
11 Vinyl chloride	62	1.385	1.385	0.0	80	139094	62.1	
12 Butadiene	54	1.408	1.408	0.0	99	118967	63.0	
13 Bromomethane	96	1.577	1.578	-0.001	90	47170	61.9	
14 Chloroethane	64	1.628	1.628	-0.001	95	75664	56.3	
15 Dichlorofluoromethane	67	1.736	1.730	0.006	79	190676	52.2	
16 Trichlorofluoromethane	101	1.770	1.770	0.0	83	149303	59.1	
17 Ethanol	45	1.866	1.866	0.0	96	31878	2001.7	
18 Ethyl ether	59	1.923	1.923	0.0	93	80860	48.3	
19 Acrolein	56	1.996	1.996	0.0	95	36022	120.7	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.047	2.047	0.0	83	71204	46.3	
21 1,1-Dichloroethene	96	2.058	2.053	0.005	89	76597	46.8	
22 Acetone	58	2.081	2.081	0.0	100	46229	246.2	
23 Iodomethane	142	2.143	2.143	0.0	98	95441	46.7	
24 Isopropyl alcohol	45	2.149	2.149	0.0	31	52678	444.6	
25 Carbon disulfide	76	2.188	2.188	-0.001	98	241228	43.6	
26 Acetonitrile	40	2.239	2.245	-0.006	81	87669	455.8	
27 3-Chloro-1-propene	76	2.251	2.251	0.0	97	66364	44.5	
28 Methyl acetate	43	2.256	2.256	0.0	98	433344	215.6	
29 Methylene Chloride	84	2.313	2.313	0.0	92	93742	48.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
30 2-Methyl-2-propanol	59	2.369	2.369	-0.001	97	78613	465.2	
31 Acrylonitrile	53	2.449	2.449	0.0	99	389546	475.9	
32 Methyl tert-butyl ether	73	2.466	2.466	0.0	91	264043	47.0	
33 trans-1,2-Dichloroethene	61	2.471	2.471	0.0	94	134120	49.2	
34 Hexane	57	2.618	2.618	0.0	94	96733	42.2	
35 1,1-Dichloroethane	63	2.709	2.709	0.0	85	182667	50.9	
36 Vinyl acetate	43	2.726	2.726	0.0	96	570948	110.4	
37 Isopropyl ether	45	2.737	2.737	0.0	80	348625	47.3	
38 2-Chloro-1,3-butadiene	53	2.760	2.760	0.0	98	134246	45.3	
39 Tert-butyl ethyl ether	59	2.952	2.952	0.0	98	307678	48.2	
40 cis-1,2-Dichloroethene	61	3.054	3.054	0.0	71	174290	50.5	
41 2,2-Dichloropropane	77	3.054	3.054	0.0	77	133747	47.1	
42 2-Butanone (MEK)	72	3.060	3.060	0.0	99	56336	254.0	
43 Ethyl acetate	45	3.082	3.088	-0.006	82	19435	125.1	
44 Propionitrile	54	3.099	3.099	0.0	0	149436	486.9	
45 Methacrylonitrile	41	3.190	3.190	0.0	97	631795	478.8	
46 Chlorobromomethane	130	3.201	3.201	0.0	80	59503	50.7	
48 Chloroform	83	3.241	3.241	0.0	82	160649	46.6	
47 Tetrahydrofuran	42	3.241	3.241	0.0	64	59333	87.6	
49 1,1,1-Trichloroethane	97	3.365	3.365	0.0	91	135051	47.1	
50 Cyclohexane	56	3.405	3.405	0.0	92	148570	42.8	
51 1,1-Dichloropropene	75	3.467	3.467	0.0	94	124777	50.8	
52 Carbon tetrachloride	117	3.473	3.473	0.0	78	120179	49.4	
53 Isobutyl alcohol	43	3.523	3.523	-0.001	99	107287	449.9	
54 Benzene	78	3.608	3.608	0.0	96	381246	46.7	
55 1,2-Dichloroethane	62	3.614	3.614	0.0	89	130852	49.1	
56 Tert-amyl methyl ether	73	3.671	3.671	0.0	98	280785	48.8	
57 n-Heptane	43	3.761	3.761	0.0	99	86005	45.9	
58 n-Butanol	56	3.970	3.970	0.0	89	65239	1145.4	
59 Trichloroethene	130	4.033	4.033	0.0	92	102517	48.4	
60 Ethyl acrylate	55	4.095	4.095	0.0	100	128884	47.6	
61 Methylcyclohexane	83	4.174	4.174	0.0	90	130539	47.6	
62 1,2-Dichloropropane	63	4.197	4.197	0.0	94	105478	48.4	
63 Methyl methacrylate	41	4.259	4.259	0.0	94	195169	99.7	
64 Dibromomethane	93	4.276	4.276	0.0	88	57779	51.5	
65 1,4-Dioxane	88	4.298	4.298	-0.001	93	16672	848.0	
66 Dichlorobromomethane	83	4.383	4.383	0.0	90	127676	48.9	
67 2-Nitropropane	43	4.553	4.553	0.0	99	57250	96.4	
68 2-Chloroethyl vinyl ether	63	4.598	4.598	0.0	84	67534	51.4	
69 cis-1,3-Dichloropropene	75	4.711	4.711	-0.001	89	168316	51.2	
70 4-Methyl-2-pentanone (MIBK)	58	4.836	4.836	0.0	97	198745	240.6	
71 Toluene	91	4.977	4.977	0.0	92	419254	45.0	
72 trans-1,3-Dichloropropene	75	5.141	5.141	0.0	90	156439	55.9	
73 Ethyl methacrylate	69	5.215	5.215	0.0	91	140317	48.2	
74 1,1,2-Trichloroethane	97	5.294	5.294	0.0	86	89472	49.0	
75 Tetrachloroethene	166	5.413	5.413	0.0	91	120346	48.8	
76 1,3-Dichloropropane	76	5.430	5.430	0.0	92	156737	48.5	
77 2-Hexanone	58	5.498	5.498	0.0	97	195758	242.1	
78 n-Butyl acetate	43	5.600	5.599	0.0	83	109779	61.4	
79 Chlorodibromomethane	127	5.617	5.617	0.0	85	80348	52.9	
80 Ethylene Dibromide	107	5.718	5.718	0.0	98	93445	49.0	
81 Chlorobenzene	112	6.131	6.131	0.0	94	287713	48.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
82 1,1,1,2-Tetrachloroethane	131	6.199	6.199	0.0	90	102094	50.3	
83 Ethylbenzene	91	6.227	6.222	0.005	98	467811	45.7	
84 m-Xylene & p-Xylene	91	6.329	6.329	0.0	99	378256	45.6	
85 o-Xylene	91	6.680	6.680	0.0	94	388977	46.2	
86 Styrene	104	6.691	6.691	0.0	94	329890	47.4	
87 Bromoform	173	6.855	6.855	-0.001	97	79409	54.3	
88 Isopropylbenzene	105	7.014	7.014	0.0	95	471487	47.6	
89 Cyclohexanone	55	7.110	7.104	0.006	90	33409	431.0	
90 Bromobenzene	77	7.291	7.291	0.0	89	194503	47.0	
91 1,1,2,2-Tetrachloroethane	83	7.291	7.291	0.0	69	122217	49.8	
92 1,2,3-Trichloropropane	110	7.331	7.331	0.0	81	36558	50.1	
93 trans-1,4-Dichloro-2-butene	53	7.348	7.347	0.001	89	34339	54.8	
94 N-Propylbenzene	91	7.393	7.393	0.0	97	536111	47.2	
95 2-Chlorotoluene	91	7.472	7.472	0.0	96	338410	46.7	
96 1,3,5-Trimethylbenzene	105	7.562	7.563	-0.001	94	393679	47.7	
97 4-Chlorotoluene	91	7.574	7.574	0.0	99	392335	46.6	
98 tert-Butylbenzene	119	7.868	7.868	0.0	90	330797	47.9	
100 1,2,4-Trimethylbenzene	105	7.913	7.913	0.0	97	405035	46.3	
101 sec-Butylbenzene	105	8.077	8.077	0.0	93	452012	47.7	
102 1,3-Dichlorobenzene	146	8.173	8.173	-0.001	98	257870	48.5	
103 4-Isopropyltoluene	119	8.219	8.219	0.0	87	401882	47.1	
104 1,4-Dichlorobenzene	146	8.264	8.264	0.0	90	261202	48.4	
105 1,2,3-Trimethylbenzene	105	8.315	8.315	0.0	0	418150	46.9	
106 Benzyl chloride	91	8.394	8.394	0.0	94	225066	52.1	
107 n-Butylbenzene	91	8.615	8.615	0.0	95	333026	47.6	
108 1,2-Dichlorobenzene	146	8.615	8.615	0.0	98	252813	49.2	
109 1,2-Dibromo-3-Chloropropane	157	9.373	9.373	0.0	81	31850	52.8	
110 1,3,5-Trichlorobenzene	180	9.593	9.593	0.0	96	216835	51.4	
111 1,2,4-Trichlorobenzene	180	10.295	10.295	0.0	92	211778	50.7	
112 Hexachlorobutadiene	225	10.521	10.521	0.0	86	86794	49.5	
113 Naphthalene	128	10.595	10.595	0.0	96	459576	49.9	
114 1,2,3-Trichlorobenzene	180	10.872	10.872	0.0	93	184508	49.6	
S 119 Xylenes, Total	1				0		91.8	
S 120 1,2-Dichloroethene, Total	1				0		99.7	

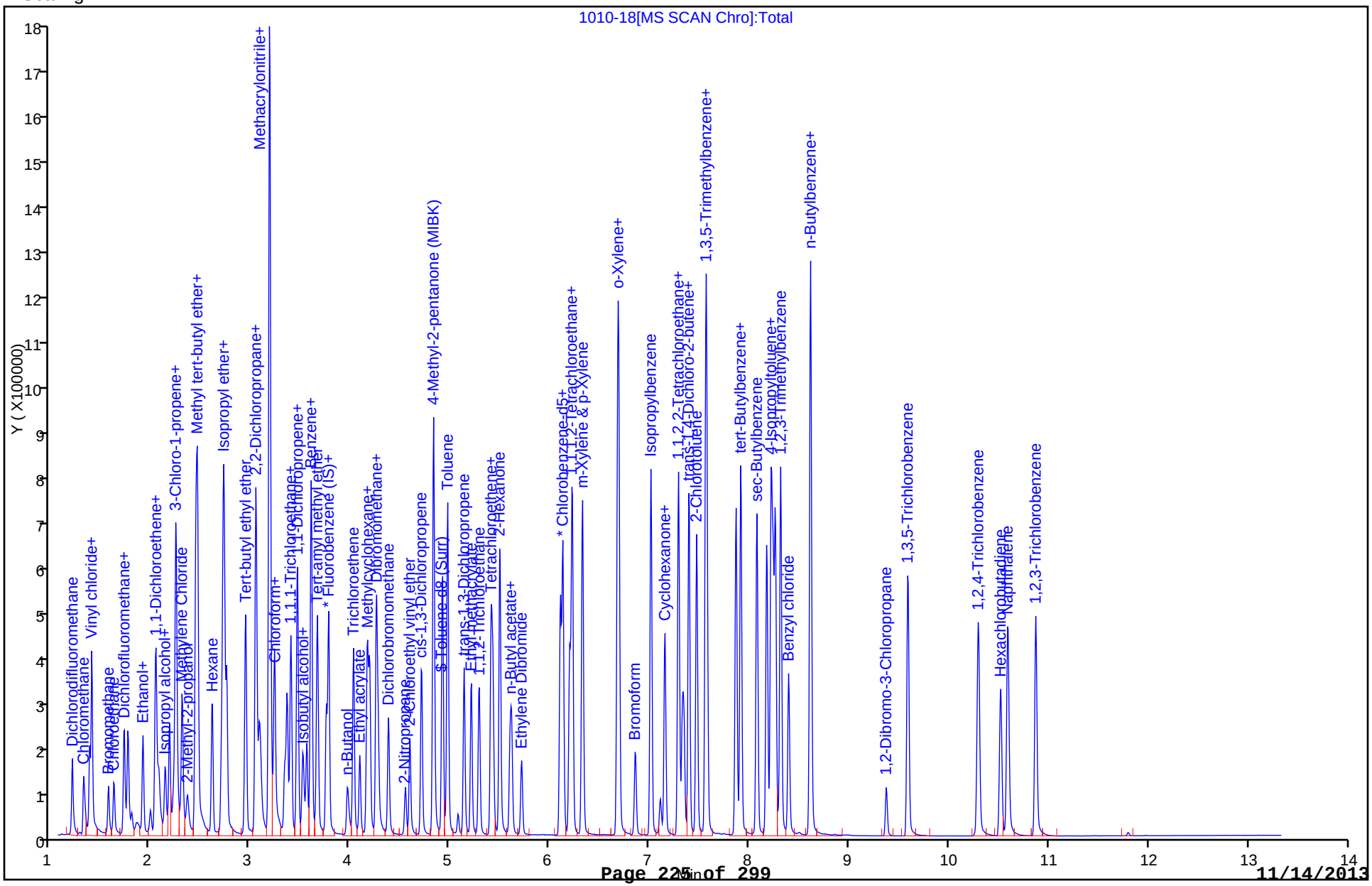
Report Date: 11-Oct-2013 12:10:14 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-18.D

Injection Date:	10-Oct-2013 19:17:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP45
Lims Batch ID:	113395	Lims Sample ID:	14
Operator ID:	MJH HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Lab Sample ID: CCVIS 490-120093/2 Calibration Date: 11/07/2013 10:53

Instrument ID: HP45 Calib Start Date: 10/10/2013 14:15

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/10/2013 17:55

Lab File ID: 1107-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin2		0.3009		57.6	50.0	15.2	20.0
Chloromethane	Ave	0.3653	0.3957	0.1000	54.2	50.0	8.3	20.0
Vinyl chloride	Ave	0.3732	0.4110		55.1	50.0	10.1	20.0
Butadiene	Ave	0.3148	0.4360		69.3	50.0	38.5*	20.0
Bromomethane	Lin2		0.0553		21.9	50.0	-56.2*	20.0
Chloroethane	Ave	0.2239	0.2400		53.6	50.0	7.2	20.0
Dichlorofluoromethane	Ave	0.6083	0.6557		53.9	50.0	7.8	20.0
Trichlorofluoromethane	Ave	0.4212	0.5356		63.6	50.0	27.2*	20.0
Ethanol	Ave	0.0027	0.0034		3165	2500	26.6	40.0
Diethyl ether	Ave	0.2792	0.2840		50.9	50.0	1.7	20.0
Acrolein	Lin2		0.0512		129	125	2.9	40.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2561	0.3161		61.7	50.0	23.4*	20.0
1,1-Dichloroethene	Ave	0.2728	0.3199		58.6	50.0	17.3	20.0
Acetone	Ave	0.0313	0.0374		299	250	19.6	20.0
Iodomethane	Lin1		0.3535		51.9	50.0	3.8	20.0
Isopropyl alcohol	Ave	0.0197	0.0204		517	500	3.5	20.0
Carbon disulfide	Ave	0.9215	0.9656		52.4	50.0	4.8	20.0
Acetonitrile	Lin2		0.0335		523	500	4.6	20.0
3-Chloro-1-propene	Ave	0.2485	0.2883		58.0	50.0	16.0	20.0
Methyl acetate	Ave	0.3350	0.2903		217	250	-13.3	20.0
Methylene Chloride	Lin2		0.3480		53.9	50.0	7.9	20.0
tert-Butyl alcohol (TBA)	Ave	0.0282	0.0322		572	500	14.4	40.0
Acrylonitrile	Ave	0.1364	0.1521		558	500	11.5	20.0
Methyl tert-butyl ether	Ave	0.9367	0.9455		50.5	50.0	0.9	20.0
trans-1,2-Dichloroethene	Ave	0.4544	0.4481		49.3	50.0	-1.4	20.0
Hexane	Ave	0.3824	0.4538		59.3	50.0	18.7	20.0
1,1-Dichloroethane	Ave	0.5986	0.5830	0.1000	48.7	50.0	-2.6	20.0
Vinyl acetate	Ave	0.8617	0.9490		110	100	10.1	40.0
Diisopropyl ether	Ave	1.228	1.053		42.9	50.0	-14.2	20.0
Chloroprene	Ave	0.4935	0.4689		47.5	50.0	-5.0	20.0
Ethyl tert-butyl ether	Ave	1.064	1.010		47.5	50.0	-5.1	20.0
cis-1,2-Dichloroethene	Ave	0.5754	0.5303		46.1	50.0	-7.8	20.0
2,2-Dichloropropane	Ave	0.4736	0.5095		53.8	50.0	7.6	20.0
2-Butanone (MEK)	Ave	0.0370	0.0449		303	250	21.3*	20.0
Ethyl acetate	Ave	0.0259	0.0477		184	100	84.3*	20.0
Propionitrile	Ave	0.0512	0.0570		557	500	11.4	20.0
Methacrylonitrile	Ave	0.2199	0.2166		492	500	-1.5	20.0
Bromochloromethane	Ave	0.1956	0.1886		48.2	50.0	-3.6	20.0
Tetrahydrofuran	Ave	0.1128	0.1055		93.5	100	-6.5	20.0
Chloroform	Ave	0.5751	0.5611		48.8	50.0	-2.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Lab Sample ID: CCVIS 490-120093/2 Calibration Date: 11/07/2013 10:53

Instrument ID: HP45 Calib Start Date: 10/10/2013 14:15

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/10/2013 17:55

Lab File ID: 1107-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Ave	0.4778	0.5093		53.3	50.0	6.6	20.0
Cyclohexane	Ave	0.5780	0.5699		49.3	50.0	-1.4	20.0
1,1-Dichloropropene	Ave	0.4091	0.4248		51.9	50.0	3.8	20.0
Carbon tetrachloride	Ave	0.4057	0.4187		51.6	50.0	3.2	20.0
Isobutanol	Ave	0.0397	0.0393		494	500	-1.2	20.0
Benzene	Ave	1.361	1.398		51.4	50.0	2.7	20.0
1,2-Dichloroethane	Ave	0.4441	0.4604		51.8	50.0	3.7	20.0
Tert-amyl methyl ether	Ave	0.9586	0.9578		50.0	50.0	-0.0	20.0
Heptane	Ave	0.3122	0.4155		66.6	50.0	33.1*	20.0
n-Butanol	Lin2		0.0102		1342	1250	7.4	20.0
Trichloroethene	Ave	0.3528	0.3933		55.8	50.0	11.5	20.0
Ethyl acrylate	Ave	0.4511	0.4778		53.0	50.0	5.9	20.0
Methylcyclohexane	Ave	0.4570	0.5644		61.7	50.0	23.5*	20.0
1,2-Dichloropropane	Ave	0.3633	0.3539		48.7	50.0	-2.6	20.0
Methyl methacrylate	Ave	0.3264	0.3329		102	100	2.0	20.0
Dibromomethane	Ave	0.1869	0.2185		58.5	50.0	16.9	20.0
1,4-Dioxane	Lin2		0.0042		1252	1000	25.2*	20.0
Bromodichloromethane	Ave	0.4354	0.4606		52.9	50.0	5.8	20.0
2-Nitropropane	Ave	0.0990	0.1206		122	100	21.9*	20.0
2-Chloroethyl vinyl ether	Ave	0.2657	0.3072		57.8	50.0	15.6	20.0
cis-1,3-Dichloropropene	Ave	0.6645	0.6771		51.0	50.0	1.9	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1669	0.1769		265	250	6.0	20.0
Toluene	Ave	1.881	1.808		48.1	50.0	-3.9	20.0
trans-1,3-Dichloropropene	Ave	0.5658	0.5936		52.5	50.0	4.9	20.0
Ethyl methacrylate	Ave	0.5883	0.5720		48.6	50.0	-2.8	20.0
1,1,2-Trichloroethane	Ave	0.3688	0.4072		55.2	50.0	10.4	20.0
Tetrachloroethene	Ave	0.4985	0.5369		53.9	50.0	7.7	20.0
1,3-Dichloropropane	Ave	0.6524	0.6670		51.1	50.0	2.2	20.0
2-Hexanone	Ave	0.1633	0.1713		262	250	4.9	20.0
n-Butyl acetate	Ave	0.2978	0.5216		87.6	50.0	75.1*	20.0
Chlorodibromomethane	Ave	0.3071	0.3334		54.3	50.0	8.6	20.0
1,2-Dibromoethane (EDB)	Ave	0.3852	0.4264		55.3	50.0	10.7	20.0
Chlorobenzene	Ave	1.212	1.241	0.3000	51.2	50.0	2.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4097	0.4371		53.3	50.0	6.7	20.0
Ethylbenzene	Ave	2.067	2.033		49.2	50.0	-1.6	20.0
m,p-Xylene	Ave	1.676	1.613		48.1	50.0	-3.8	20.0
o-Xylene	Ave	1.699	1.679		49.4	50.0	-1.2	20.0
Styrene	Ave	1.407	1.401		49.8	50.0	-0.4	20.0
Bromoform	Ave	0.2952	0.3179	0.1000	53.8	50.0	7.7	20.0
Isopropylbenzene	Ave	2.000	2.097		52.4	50.0	4.8	20.0
Cyclohexanone	Lin2		0.0128		498	500	-0.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Lab Sample ID: CCVIS 490-120093/2 Calibration Date: 11/07/2013 10:53

Instrument ID: HP45 Calib Start Date: 10/10/2013 14:15

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/10/2013 17:55

Lab File ID: 1107-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,2,2-Tetrachloroethane	Ave	0.8451	0.9353	0.3000	55.3	50.0	10.7	20.0
Bromobenzene	Ave	1.424	1.370		48.1	50.0	-3.8	20.0
1,2,3-Trichloropropane	Ave	0.2434	0.2862		58.8	50.0	17.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2160	0.1261		29.2	50.0	-41.6*	20.0
N-Propylbenzene	Ave	3.909	4.038		51.7	50.0	3.3	20.0
2-Chlorotoluene	Ave	2.497	2.411		48.3	50.0	-3.5	20.0
1,3,5-Trimethylbenzene	Ave	2.842	2.944		51.8	50.0	3.6	20.0
4-Chlorotoluene	Ave	2.899	2.848		49.1	50.0	-1.8	20.0
tert-Butylbenzene	Ave	2.376	2.579		54.3	50.0	8.5	20.0
1,2,4-Trimethylbenzene	Ave	3.012	3.048		50.6	50.0	1.2	20.0
sec-Butylbenzene	Ave	3.264	3.672		56.3	50.0	12.5	20.0
1,3-Dichlorobenzene	Ave	1.830	1.936		52.9	50.0	5.8	20.0
p-Isopropyltoluene	Ave	2.938	3.341		56.9	50.0	13.7	20.0
1,4-Dichlorobenzene	Ave	1.861	1.930		51.9	50.0	3.7	20.0
1,2,3-Trimethylbenzene	Ave	3.070	3.094		50.4	50.0	0.8	20.0
Benzyl chloride	Ave	0.8726	1.173		67.2	50.0	34.4*	20.0
1,2-Dichlorobenzene	Ave	1.771	1.876		53.0	50.0	5.9	20.0
n-Butylbenzene	Ave	2.412	2.845		59.0	50.0	17.9	20.0
1,2-Dibromo-3-Chloropropane	Lin2		0.2141		51.6	50.0	3.1	20.0
1,3,5-Trichlorobenzene	Ave	1.453	1.603		55.2	50.0	10.3	20.0
1,2,4-Trichlorobenzene	Ave	1.440	1.498		52.0	50.0	4.0	20.0
Hexachlorobutadiene	Ave	0.6044	0.7264		60.1	50.0	20.2*	20.0
Naphthalene	Ave	3.172	3.218		50.7	50.0	1.5	20.0
1,2,3-Trichlorobenzene	Ave	1.281	1.324		51.7	50.0	3.4	20.0
Dibromofluoromethane (Surr)	Ave	0.2494	0.2454		49.2	50.0	-1.6	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2885	0.2796		48.5	50.0	-3.1	30.0
Toluene-d8 (Surr)	Ave	1.272	1.207		47.5	50.0	-5.1	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8435	0.8119		48.1	50.0	-3.7	30.0

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-02.D
Lims ID: CCVIS Client ID:
Inject. Date: 07-Nov-2013 10:53:30 Dil. Factor: 1.0000
Sample Type: CCVIS
Sample ID: CCVIS
Misc. Info.: 490-0028020-002
Operator: BJM HP45 Instrument ID: HP45
Purge Vol: 5.000 mL ALS Bottle#: 2
Lims Batch ID: 120093 Lims Sample ID: 2
Sublist: chrom-8260HP45*sub15
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP45\20131107-28020.b\8260HP45.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 08-Nov-2013 10:40:22 Calib Date: 10-Oct-2013 17:55:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK053

First Level Reviewer: matlockbe Date: 08-Nov-2013 10:40:22

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.789	3.789	0.0	99	349249	50.0	
* 2 Chlorobenzene-d5	117	6.114	6.114	0.0	83	298840	50.0	
* 3 1,4-Dichlorobenzene-d4	152	8.247	8.247	0.0	74	179277	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.348	3.348	0.0	55	85688	49.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.569	3.569	0.0	90	97641	48.4	
$ 6 Toluene-d8 (Surr)	98	4.932	4.932	0.0	83	360646	47.5	
$ 8 4-Bromofluorobenzene (Surr)	95	7.161	7.161	0.0	95	145553	48.1	
9 Dichlorodifluoromethane	85	1.215	1.215	0.0	86	105094	57.6	
10 Chloromethane	50	1.329	1.329	0.0	89	138196	54.2	
11 Vinyl chloride	62	1.391	1.391	0.0	80	143528	55.1	
12 Butadiene	54	1.413	1.413	0.0	87	152260	69.2	
13 Bromomethane	96	1.578	1.578	0.0	86	19298	21.9	
14 Chloroethane	64	1.634	1.634	0.0	95	83830	53.6	
15 Dichlorofluoromethane	67	1.736	1.736	0.0	77	228987	53.9	
16 Trichlorofluoromethane	101	1.776	1.776	0.0	81	187073	63.6	
17 Ethanol	45	1.866	1.866	0.0	97	58681	3165.3	
18 Ethyl ether	59	1.923	1.923	0.0	89	99170	50.9	
19 Acrolein	56	2.002	2.002	0.0	94	44664	128.6	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.047	2.047	0.0	80	110399	61.7	
21 1,1-Dichloroethene	96	2.058	2.058	0.0	90	111733	58.6	
22 Acetone	58	2.081	2.081	0.0	98	65380	299.1	
24 Isopropyl alcohol	45	2.149	2.149	0.0	82	71371	517.4	
23 Iodomethane	142	2.149	2.149	0.0	97	123467	51.9	
25 Carbon disulfide	76	2.194	2.194	0.0	98	337230	52.4	
26 Acetonitrile	40	2.234	2.234	0.0	99	116810	523.1	
27 3-Chloro-1-propene	76	2.251	2.251	0.0	99	100700	58.0	
28 Methyl acetate	43	2.256	2.256	0.0	97	506992	216.7	
29 Methylene Chloride	84	2.319	2.319	0.0	80	121538	53.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
30 2-Methyl-2-propanol	59	2.369	2.369	0.0	97	112553	572.2	
31 Acrylonitrile	53	2.454	2.454	0.0	99	531309	557.6	
32 Methyl tert-butyl ether	73	2.471	2.471	0.0	89	330219	50.5	
33 trans-1,2-Dichloroethene	61	2.471	2.471	0.0	90	156493	49.3	
34 Hexane	57	2.618	2.618	0.0	89	158490	59.3	
35 1,1-Dichloroethane	63	2.715	2.715	0.0	85	203598	48.7	
36 Vinyl acetate	43	2.732	2.732	0.0	96	662839	110.1	
37 Isopropyl ether	45	2.737	2.737	0.0	78	367852	42.9	
38 2-Chloro-1,3-butadiene	53	2.765	2.765	0.0	95	163768	47.5	
39 Tert-butyl ethyl ether	59	2.952	2.952	0.0	96	352839	47.5	
41 cis-1,2-Dichloroethene	61	3.054	3.054	0.0	70	185218	46.1	
40 2,2-Dichloropropane	77	3.060	3.060	0.0	75	177946	53.8	
42 2-Butanone (MEK)	72	3.060	3.060	0.0	97	78326	303.3	
43 Ethyl acetate	45	3.088	3.088	0.0	71	33333	184.3	
44 Propionitrile	54	3.105	3.105	0.0	0	199094	557.2	
45 Methacrylonitrile	41	3.195	3.195	0.0	99	756343	492.3	
46 Chlorobromomethane	130	3.207	3.207	0.0	70	65863	48.2	
47 Tetrahydrofuran	42	3.241	3.241	0.0	81	73691	93.5	
48 Chloroform	83	3.246	3.246	0.0	73	195966	48.8	
49 1,1,1-Trichloroethane	97	3.371	3.371	0.0	86	177875	53.3	
50 Cyclohexane	56	3.410	3.410	0.0	90	199051	49.3	
51 1,1-Dichloropropene	75	3.473	3.473	0.0	93	148373	51.9	
52 Carbon tetrachloride	117	3.478	3.478	0.0	79	146231	51.6	
53 Isobutyl alcohol	43	3.529	3.529	0.0	98	137101	493.8	
55 Benzene	78	3.614	3.614	0.0	95	488082	51.4	
56 1,2-Dichloroethane	62	3.620	3.620	0.0	90	160788	51.8	
57 Tert-amyl methyl ether	73	3.676	3.676	0.0	98	334502	50.0	
58 n-Heptane	43	3.761	3.761	0.0	97	145109	66.5	
59 n-Butanol	56	3.976	3.976	0.0	88	88906	1342.3	
60 Trichloroethene	130	4.038	4.038	0.0	92	137367	55.7	
61 Ethyl acrylate	55	4.100	4.100	0.0	92	166859	53.0	
62 Methylcyclohexane	83	4.174	4.174	0.0	91	197104	61.7	
63 1,2-Dichloropropane	63	4.197	4.197	0.0	96	123606	48.7	
64 Methyl methacrylate	41	4.265	4.265	0.0	97	232509	102.0	
65 Dibromomethane	93	4.282	4.282	0.0	84	76300	58.5	
66 1,4-Dioxane	88	4.298	4.298	0.0	90	29143	1252.2	
67 Dichlorobromomethane	83	4.389	4.389	0.0	89	160858	52.9	
68 2-Nitropropane	43	4.559	4.559	0.0	99	84262	121.9	
69 2-Chloroethyl vinyl ether	63	4.604	4.604	0.0	91	91791	57.8	
70 cis-1,3-Dichloropropene	75	4.717	4.717	0.0	90	202352	51.0	
71 4-Methyl-2-pentanone (MIBK)	58	4.842	4.842	0.0	96	264247	265.0	
72 Toluene	91	4.983	4.983	0.0	92	540341	48.1	
73 trans-1,3-Dichloropropene	75	5.147	5.147	0.0	89	177401	52.5	
74 Ethyl methacrylate	69	5.215	5.215	0.0	90	170940	48.6	
75 1,1,2-Trichloroethane	97	5.294	5.294	0.0	86	121683	55.2	
76 Tetrachloroethene	166	5.419	5.419	0.0	91	160459	53.9	
77 1,3-Dichloropropane	76	5.436	5.436	0.0	87	199322	51.1	
78 2-Hexanone	58	5.503	5.503	0.0	91	255973	262.2	
79 n-Butyl acetate	43	5.605	5.605	0.0	79	182160	87.6	
80 Chlorodibromomethane	127	5.622	5.622	0.0	85	99638	54.3	
81 Ethylene Dibromide	107	5.724	5.724	0.0	98	127413	55.3	
82 Chlorobenzene	112	6.137	6.137	0.0	95	370814	51.2	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
83 1,1,1,2-Tetrachloroethane	131	6.205	6.205	0.0	86	130611	53.3	
84 Ethylbenzene	91	6.227	6.227	0.0	98	607586	49.2	
85 m-Xylene & p-Xylene	91	6.335	6.335	0.0	99	482039	48.1	
86 o-Xylene	91	6.686	6.686	0.0	94	501702	49.4	
87 Styrene	104	6.697	6.697	0.0	94	418612	49.8	
88 Bromoform	173	6.861	6.861	0.0	95	94989	53.8	
89 Isopropylbenzene	105	7.019	7.019	0.0	95	626577	52.4	
90 Cyclohexanone	55	7.110	7.110	0.0	91	44819	497.8	
92 1,1,2,2-Tetrachloroethane	83	7.297	7.297	0.0	73	167677	55.3	
91 Bromobenzene	77	7.297	7.297	0.0	95	245530	48.1	
93 1,2,3-Trichloropropane	110	7.336	7.336	0.0	78	51304	58.8	
94 trans-1,4-Dichloro-2-butene	53	7.353	7.353	0.0	76	22597	29.2	
95 N-Propylbenzene	91	7.398	7.398	0.0	97	723912	51.6	
96 2-Chlorotoluene	91	7.478	7.478	0.0	97	432160	48.3	
97 1,3,5-Trimethylbenzene	105	7.568	7.568	0.0	91	527780	51.8	
98 4-Chlorotoluene	91	7.579	7.579	0.0	98	510521	49.1	
99 tert-Butylbenzene	119	7.874	7.874	0.0	89	462352	54.3	
101 1,2,4-Trimethylbenzene	105	7.919	7.919	0.0	89	546525	50.6	
102 sec-Butylbenzene	105	8.083	8.083	0.0	94	658302	56.3	
103 1,3-Dichlorobenzene	146	8.179	8.179	0.0	98	347088	52.9	
104 4-Isopropyltoluene	119	8.224	8.224	0.0	88	598884	56.8	
105 1,4-Dichlorobenzene	146	8.270	8.270	0.0	90	345978	51.9	
106 1,2,3-Trimethylbenzene	105	8.321	8.321	0.0	0	554745	50.4	
107 Benzyl chloride	91	8.400	8.400	0.0	95	350423	67.2	
109 1,2-Dichlorobenzene	146	8.620	8.620	0.0	97	336298	53.0	
108 n-Butylbenzene	91	8.620	8.620	0.0	95	510028	59.0	
110 1,2-Dibromo-3-Chloropropane	157	9.384	9.384	0.0	79	38386	51.6	
111 1,3,5-Trichlorobenzene	180	9.599	9.599	0.0	96	287336	55.2	
112 1,2,4-Trichlorobenzene	180	10.306	10.306	0.0	92	268541	52.0	
113 Hexachlorobutadiene	225	10.527	10.527	0.0	85	130218	60.1	
114 Naphthalene	128	10.600	10.600	0.0	97	576994	50.7	
115 1,2,3-Trichlorobenzene	180	10.883	10.883	0.0	94	237431	51.7	
S 120 Xylenes, Total	1				0		97.5	
S 121 1,2-Dichloroethene, Total	1				0		95.4	

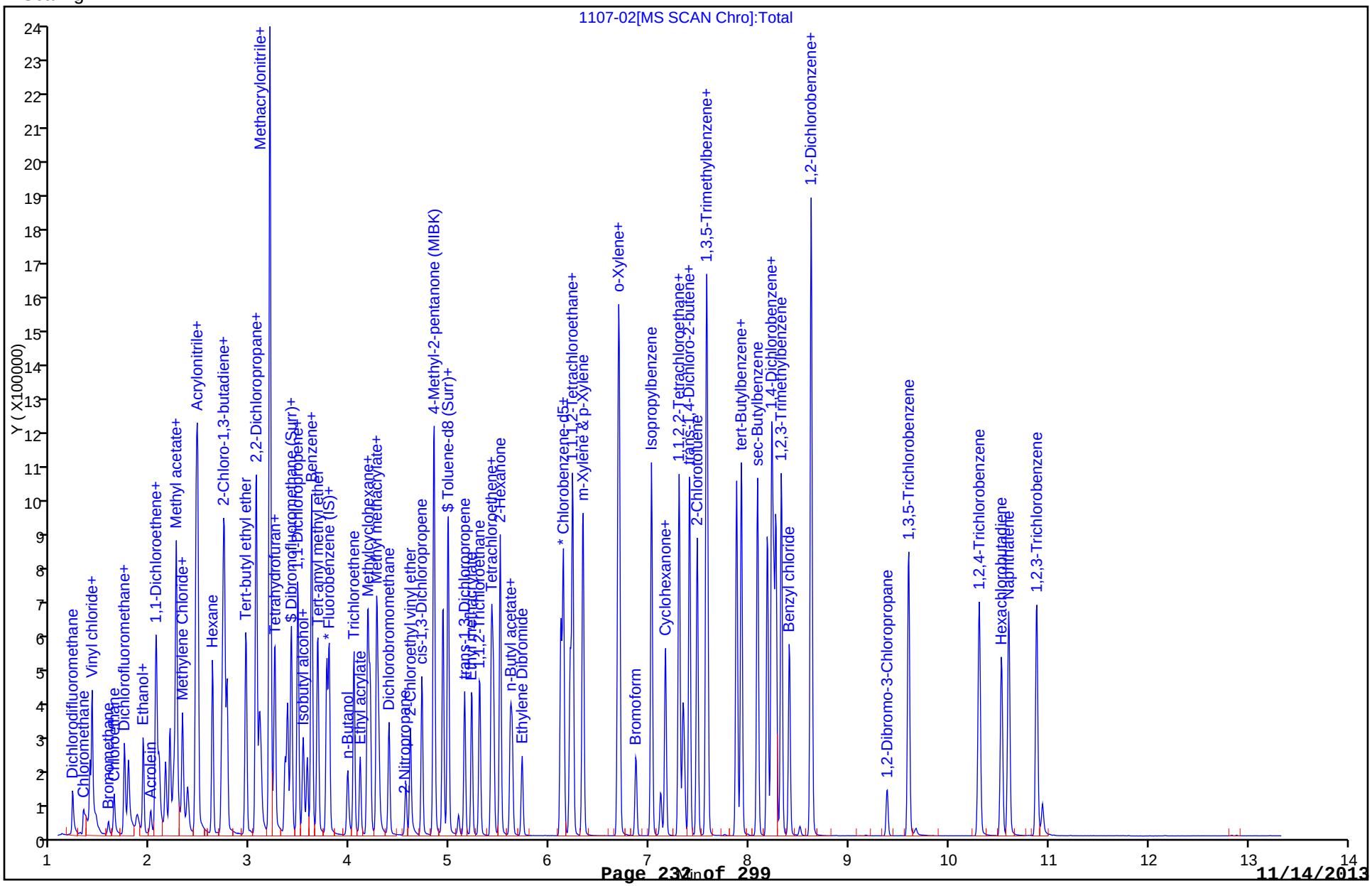
Report Date: 08-Nov-2013 10:40:24 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-02.D

Injection Date:	07-Nov-2013 10:53:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP45
Lims Batch ID:	120093	Lims Sample ID:	2
Operator ID:	BJM HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Lab Sample ID: CCVIS 490-120479/2 Calibration Date: 11/09/2013 21:04

Instrument ID: HP45 Calib Start Date: 10/10/2013 14:15

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/10/2013 17:55

Lab File ID: 1108-30.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin2		0.3071		58.8	50.0	17.5	20.0
Chloromethane	Ave	0.3653	0.2560	0.1000	35.0	50.0	-29.9*	20.0
Vinyl chloride	Ave	0.3732	0.4025		53.9	50.0	7.9	20.0
Butadiene	Ave	0.3148	0.4146		65.9	50.0	31.7*	20.0
Bromomethane	Lin2		0.1176		46.3	50.0	-7.4	20.0
Chloroethane	Ave	0.2239	0.2436		54.4	50.0	8.8	20.0
Dichlorofluoromethane	Ave	0.6083	0.6461		53.1	50.0	6.2	20.0
Trichlorofluoromethane	Ave	0.4212	0.4875		57.9	50.0	15.8	20.0
Ethanol	Ave	0.0027	0.0026		2407	2500	-3.7	40.0
Diethyl ether	Ave	0.2792	0.2791		50.0	50.0	-0.0	20.0
Acrolein	Lin2		0.0296		74.0	125	-40.8*	40.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2561	0.3023		59.0	50.0	18.0	20.0
1,1-Dichloroethene	Ave	0.2728	0.2886		52.9	50.0	5.8	20.0
Acetone	Ave	0.0313	0.0316		252	250	0.9	20.0
Iodomethane	Lin1		0.3486		51.2	50.0	2.3	20.0
Isopropyl alcohol	Ave	0.0197	0.0164		414	500	-17.1	20.0
Carbon disulfide	Ave	0.9215	0.9558		51.9	50.0	3.7	20.0
Acetonitrile	Lin2		0.0304		474	500	-5.1	20.0
3-Chloro-1-propene	Ave	0.2485	0.2735		55.0	50.0	10.1	20.0
Methyl acetate	Ave	0.3350	0.2546		190	250	-24.0*	20.0
Methylene Chloride	Lin2		0.3491		54.1	50.0	8.2	20.0
tert-Butyl alcohol (TBA)	Ave	0.0282	0.0254		451	500	-9.9	40.0
Acrylonitrile	Ave	0.1364	0.1391		510	500	1.9	20.0
Methyl tert-butyl ether	Ave	0.9367	0.8868		47.3	50.0	-5.3	20.0
trans-1,2-Dichloroethene	Ave	0.4544	0.4408		48.5	50.0	-3.0	20.0
Hexane	Ave	0.3824	0.3366		44.0	50.0	-12.0	20.0
1,1-Dichloroethane	Ave	0.5986	0.5770	0.1000	48.2	50.0	-3.6	20.0
Vinyl acetate	Ave	0.8617	0.4008		46.5	100	-53.5*	40.0
Diisopropyl ether	Ave	1.228	1.017		41.4	50.0	-17.2	20.0
Chloroprene	Ave	0.4935	0.4653		47.1	50.0	-5.7	20.0
Ethyl tert-butyl ether	Ave	1.064	0.9498		44.6	50.0	-10.8	20.0
2,2-Dichloropropane	Ave	0.4736	0.3172		33.5	50.0	-33.0*	20.0
cis-1,2-Dichloroethene	Ave	0.5754	0.4980		43.3	50.0	-13.5	20.0
2-Butanone (MEK)	Ave	0.0370	0.0398		269	250	7.7	20.0
Ethyl acetate	Ave	0.0259	0.0423		163	100	63.4*	20.0
Propionitrile	Ave	0.0512	0.0519		507	500	1.4	20.0
Methacrylonitrile	Ave	0.2199	0.2002		455	500	-9.0	20.0
Bromochloromethane	Ave	0.1956	0.2119		54.2	50.0	8.3	20.0
Chloroform	Ave	0.5751	0.5604		48.7	50.0	-2.6	20.0
Tetrahydrofuran	Ave	0.1128	0.0913		80.9	100	-19.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Lab Sample ID: CCVIS 490-120479/2 Calibration Date: 11/09/2013 21:04

Instrument ID: HP45 Calib Start Date: 10/10/2013 14:15

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/10/2013 17:55

Lab File ID: 1108-30.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Ave	0.4778	0.4975		52.1	50.0	4.1	20.0
Cyclohexane	Ave	0.5780	0.5444		47.1	50.0	-5.8	20.0
1,1-Dichloropropene	Ave	0.4091	0.4167		50.9	50.0	1.9	20.0
Carbon tetrachloride	Ave	0.4057	0.4228		52.1	50.0	4.2	20.0
Isobutanol	Ave	0.0397	0.0335		421	500	-15.7	20.0
Benzene	Ave	1.361	1.387		51.0	50.0	1.9	20.0
1,2-Dichloroethane	Ave	0.4441	0.4503		50.7	50.0	1.4	20.0
Tert-amyl methyl ether	Ave	0.9586	0.8944		46.7	50.0	-6.7	20.0
Heptane	Ave	0.3122	0.2492		39.9	50.0	-20.2*	20.0
n-Butanol	Lin2		0.0082		1075	1250	-14.0	20.0
Trichloroethene	Ave	0.3528	0.4429		62.8	50.0	25.6*	20.0
Ethyl acrylate	Ave	0.4511	0.4081		45.2	50.0	-9.5	20.0
Methylcyclohexane	Ave	0.4570	0.5180		56.7	50.0	13.3	20.0
1,2-Dichloropropane	Ave	0.3633	0.3460		47.6	50.0	-4.8	20.0
Methyl methacrylate	Ave	0.3264	0.2945		90.2	100	-9.8	20.0
Dibromomethane	Ave	0.1869	0.2159		57.8	50.0	15.5	20.0
1,4-Dioxane	Lin2		0.0032		980	1000	-2.0	20.0
Bromodichloromethane	Ave	0.4354	0.4507		51.8	50.0	3.5	20.0
2-Nitropropane	Ave	0.0990	0.0937		94.7	100	-5.3	20.0
2-Chloroethyl vinyl ether	Ave	0.2657	0.2771		52.2	50.0	4.3	20.0
cis-1,3-Dichloropropene	Ave	0.6645	0.5883		44.3	50.0	-11.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1669	0.1584		237	250	-5.1	20.0
Toluene	Ave	1.881	1.764		46.9	50.0	-6.2	20.0
trans-1,3-Dichloropropene	Ave	0.5658	0.5071		44.8	50.0	-10.4	20.0
Ethyl methacrylate	Ave	0.5883	0.5113		43.5	50.0	-13.1	20.0
1,1,2-Trichloroethane	Ave	0.3688	0.3913		53.1	50.0	6.1	20.0
Tetrachloroethene	Ave	0.4985	0.5204		52.2	50.0	4.4	20.0
1,3-Dichloropropane	Ave	0.6524	0.6460		49.5	50.0	-1.0	20.0
2-Hexanone	Ave	0.1633	0.1514		232	250	-7.3	20.0
n-Butyl acetate	Ave	0.2978	0.4587		77.0	50.0	54.0*	20.0
Chlorodibromomethane	Ave	0.3071	0.3188		51.9	50.0	3.8	20.0
1,2-Dibromoethane (EDB)	Ave	0.3852	0.4055		52.6	50.0	5.3	20.0
Chlorobenzene	Ave	1.212	1.221	0.3000	50.4	50.0	0.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4097	0.4246		51.8	50.0	3.6	20.0
Ethylbenzene	Ave	2.067	1.956		47.3	50.0	-5.4	20.0
m,p-Xylene	Ave	1.676	1.537		45.8	50.0	-8.3	20.0
o-Xylene	Ave	1.699	1.631		48.0	50.0	-4.0	20.0
Styrene	Ave	1.407	1.364		48.5	50.0	-3.1	20.0
Bromoform	Ave	0.2952	0.3000	0.1000	50.8	50.0	1.6	20.0
Isopropylbenzene	Ave	2.000	1.991		49.8	50.0	-0.5	20.0
Cyclohexanone	Lin2		0.0103		396	500	-20.7*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Lab Sample ID: CCVIS 490-120479/2 Calibration Date: 11/09/2013 21:04

Instrument ID: HP45 Calib Start Date: 10/10/2013 14:15

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/10/2013 17:55

Lab File ID: 1108-30.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,2,2-Tetrachloroethane	Ave	0.8451	0.7214	0.3000	42.7	50.0	-14.6	20.0
Bromobenzene	Ave	1.424	1.306		45.9	50.0	-8.3	20.0
1,2,3-Trichloropropane	Ave	0.2434	0.2662		54.7	50.0	9.4	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2160	0.0876		20.3	50.0	-59.5*	20.0
N-Propylbenzene	Ave	3.909	3.755		48.0	50.0	-3.9	20.0
2-Chlorotoluene	Ave	2.497	2.312		46.3	50.0	-7.4	20.0
1,3,5-Trimethylbenzene	Ave	2.842	2.784		49.0	50.0	-2.0	20.0
4-Chlorotoluene	Ave	2.899	2.684		46.3	50.0	-7.4	20.0
tert-Butylbenzene	Ave	2.376	2.460		51.8	50.0	3.5	20.0
1,2,4-Trimethylbenzene	Ave	3.012	2.933		48.7	50.0	-2.6	20.0
sec-Butylbenzene	Ave	3.264	3.426		52.5	50.0	5.0	20.0
1,3-Dichlorobenzene	Ave	1.830	1.871		51.1	50.0	2.2	20.0
p-Isopropyltoluene	Ave	2.938	3.049		51.9	50.0	3.8	20.0
1,4-Dichlorobenzene	Ave	1.861	1.874		50.4	50.0	0.7	20.0
1,2,3-Trimethylbenzene	Ave	3.070	2.989		48.7	50.0	-2.6	20.0
Benzyl chloride	Ave	0.8726	0.4649		26.6	50.0	-46.7*	20.0
1,2-Dichlorobenzene	Ave	1.771	1.844		52.1	50.0	4.1	20.0
n-Butylbenzene	Ave	2.412	2.475		51.3	50.0	2.6	20.0
1,2-Dibromo-3-Chloropropane	Lin2		0.1906		46.0	50.0	-8.1	20.0
1,3,5-Trichlorobenzene	Ave	1.453	1.465		50.4	50.0	0.8	20.0
1,2,4-Trichlorobenzene	Ave	1.440	1.360		47.2	50.0	-5.5	20.0
Hexachlorobutadiene	Ave	0.6044	0.6325		52.3	50.0	4.7	20.0
Naphthalene	Ave	3.172	2.887		45.5	50.0	-9.0	20.0
1,2,3-Trichlorobenzene	Ave	1.281	1.217		47.5	50.0	-4.9	20.0
Dibromofluoromethane (Surr)	Ave	0.2494	0.2448		49.1	50.0	-1.8	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2885	0.2744		47.6	50.0	-4.9	30.0
Toluene-d8 (Surr)	Ave	1.272	1.181		46.4	50.0	-7.2	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8435	0.7783		46.1	50.0	-7.7	30.0

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP45\20131108-28107.b\1108-30.D
Lims ID: CCVIS Lab Sample ID:
Client ID:
Sample Type: CCVIS
Inject. Date: 09-Nov-2013 21:04:30 ALS Bottle#: 30 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 490-0028107-002
Operator ID: BJM HP45 Instrument ID: HP45
Sublist: chrom-8260HP45*sub15

Method: \\Nvlchrom\ChromData\HP45\20131108-28107.b\8260HP45.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 11-Nov-2013 13:14:20 Calib Date: 10-Oct-2013 17:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D

Column 1 : Detector MS SCAN
Process Host: XAWRK019

First Level Reviewer: matlockbe Date: 11-Nov-2013 13:14:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.789	3.789	0.0	99	348516	50.0	
* 2 Chlorobenzene-d5	117	6.108	6.108	0.0	83	300503	50.0	
* 3 1,4-Dichlorobenzene-d4	152	8.247	8.247	0.0	76	181754	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.342	3.342	0.0	56	85329	49.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.568	3.568	0.0	89	95626	47.5	
$ 6 Toluene-d8 (Surr)	98	4.926	4.926	0.0	83	354773	46.4	
$ 8 4-Bromofluorobenzene (Surr)	95	7.161	7.161	0.0	92	141457	46.1	
9 Dichlorodifluoromethane	85	1.215	1.215	0.0	85	107021	58.8	
10 Chloromethane	50	1.334	1.334	0.0	89	89209	35.0	
11 Vinyl chloride	62	1.391	1.391	0.0	83	140285	53.9	
12 Butadiene	54	1.413	1.413	0.0	85	144486	65.8	
13 Bromomethane	96	1.577	1.577	0.0	88	40970	46.3	
14 Chloroethane	64	1.634	1.634	0.0	95	84909	54.4	
15 Dichlorofluoromethane	67	1.736	1.736	0.0	79	225190	53.1	
16 Trichlorofluoromethane	101	1.775	1.775	0.0	83	169909	57.9	
17 Ethanol	45	1.866	1.866	0.0	98	44523	2406.7	
18 Ethyl ether	59	1.922	1.922	0.0	92	97275	50.0	
19 Acrolein	56	2.001	2.001	0.0	91	25775	74.0	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.047	2.047	0.0	80	105340	59.0	
21 1,1-Dichloroethene	96	2.058	2.058	0.0	90	100566	52.9	
22 Acetone	58	2.081	2.081	0.0	96	55037	252.3	
24 Isopropyl alcohol	45	2.149	2.149	0.0	35	57024	414.3	
23 Iodomethane	142	2.149	2.149	0.0	97	121481	51.2	
25 Carbon disulfide	76	2.194	2.194	0.0	98	333094	51.9	
26 Acetonitrile	40	2.239	2.239	0.0	89	105887	474.3	
27 3-Chloro-1-propene	76	2.250	2.250	0.0	99	95322	55.0	
28 Methyl acetate	43	2.256	2.256	0.0	97	443735	190.0	
29 Methylene Chloride	84	2.318	2.318	0.0	80	121655	54.1	
30 2-Methyl-2-propanol	59	2.369	2.369	0.0	97	88460	450.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
31 Acrylonitrile	53	2.454	2.454	0.0	99	484679	509.7	
32 Methyl tert-butyl ether	73	2.471	2.471	0.0	89	309049	47.3	
33 trans-1,2-Dichloroethene	61	2.471	2.471	0.0	65	153636	48.5	
34 Hexane	57	2.618	2.618	0.0	89	117326	44.0	
35 1,1-Dichloroethane	63	2.709	2.709	0.0	85	201075	48.2	
36 Vinyl acetate	43	2.731	2.731	0.0	94	279393	46.5	
37 Isopropyl ether	45	2.737	2.737	0.0	86	354333	41.4	
38 2-Chloro-1,3-butadiene	53	2.765	2.765	0.0	99	162164	47.1	
39 Tert-butyl ethyl ether	59	2.952	2.952	0.0	95	331018	44.6	
41 cis-1,2-Dichloroethene	61	3.054	3.054	0.0	70	173550	43.3	
40 2,2-Dichloropropane	77	3.054	3.054	0.0	71	110555	33.5	
42 2-Butanone (MEK)	72	3.059	3.059	0.0	97	69376	269.2	
43 Ethyl acetate	45	3.088	3.088	0.0	72	29491	163.4	
44 Propionitrile	54	3.105	3.105	0.0	0	180745	506.9	
45 Methacrylonitrile	41	3.195	3.195	0.0	99	697603	455.0	
46 Chlorobromomethane	130	3.206	3.206	0.0	64	73844	54.1	
47 Tetrahydrofuran	42	3.240	3.240	0.0	55	63618	80.9	
48 Chloroform	83	3.240	3.240	0.0	73	195305	48.7	
49 1,1,1-Trichloroethane	97	3.370	3.370	0.0	86	173389	52.1	
50 Cyclohexane	56	3.410	3.410	0.0	89	189729	47.1	
51 1,1-Dichloropropene	75	3.472	3.472	0.0	96	145235	50.9	
52 Carbon tetrachloride	117	3.478	3.478	0.0	79	147355	52.1	
53 Isobutyl alcohol	43	3.529	3.529	0.0	97	116724	421.3	
55 Benzene	78	3.608	3.608	0.0	95	483269	51.0	
56 1,2-Dichloroethane	62	3.619	3.619	0.0	90	156923	50.7	
57 Tert-amyl methyl ether	73	3.676	3.676	0.0	97	311703	46.6	
58 n-Heptane	43	3.761	3.761	0.0	98	86851	39.9	
59 n-Butanol	56	3.976	3.976	0.0	88	71138	1074.6	
60 Trichloroethene	130	4.038	4.038	0.0	92	154367	62.8	
61 Ethyl acrylate	55	4.100	4.100	0.0	92	142227	45.2	
62 Methylcyclohexane	83	4.174	4.174	0.0	90	180518	56.7	
63 1,2-Dichloropropane	63	4.196	4.196	0.0	94	120568	47.6	
64 Methyl methacrylate	41	4.264	4.264	0.0	97	205276	90.2	
65 Dibromomethane	93	4.281	4.281	0.0	83	75246	57.8	
66 1,4-Dioxane	88	4.304	4.304	0.0	93	22542	980.1	
67 Dichlorobromomethane	83	4.389	4.389	0.0	89	157091	51.8	
68 2-Nitropropane	43	4.558	4.558	0.0	99	65329	94.7	
69 2-Chloroethyl vinyl ether	63	4.604	4.604	0.0	90	83269	52.2	
70 cis-1,3-Dichloropropene	75	4.717	4.717	0.0	90	176794	44.3	
71 4-Methyl-2-pentanone (MIBK)	58	4.841	4.841	0.0	96	237920	237.3	
72 Toluene	91	4.983	4.983	0.0	93	529984	46.9	
73 trans-1,3-Dichloropropene	75	5.147	5.147	0.0	89	152393	44.8	
74 Ethyl methacrylate	69	5.215	5.215	0.0	89	153634	43.5	
75 1,1,2-Trichloroethane	97	5.294	5.294	0.0	86	117577	53.0	
76 Tetrachloroethene	166	5.418	5.418	0.0	91	156383	52.2	
77 1,3-Dichloropropane	76	5.435	5.435	0.0	86	194109	49.5	
78 2-Hexanone	58	5.503	5.503	0.0	96	227416	231.7	
79 n-Butyl acetate	43	5.605	5.605	0.0	81	159856	77.0	
80 Chlorodibromomethane	127	5.622	5.622	0.0	85	95798	51.9	
81 Ethylene Dibromide	107	5.724	5.724	0.0	98	121853	52.6	
82 Chlorobenzene	112	6.137	6.137	0.0	94	367006	50.4	
83 1,1,1,2-Tetrachloroethane	131	6.205	6.205	0.0	85	127590	51.8	

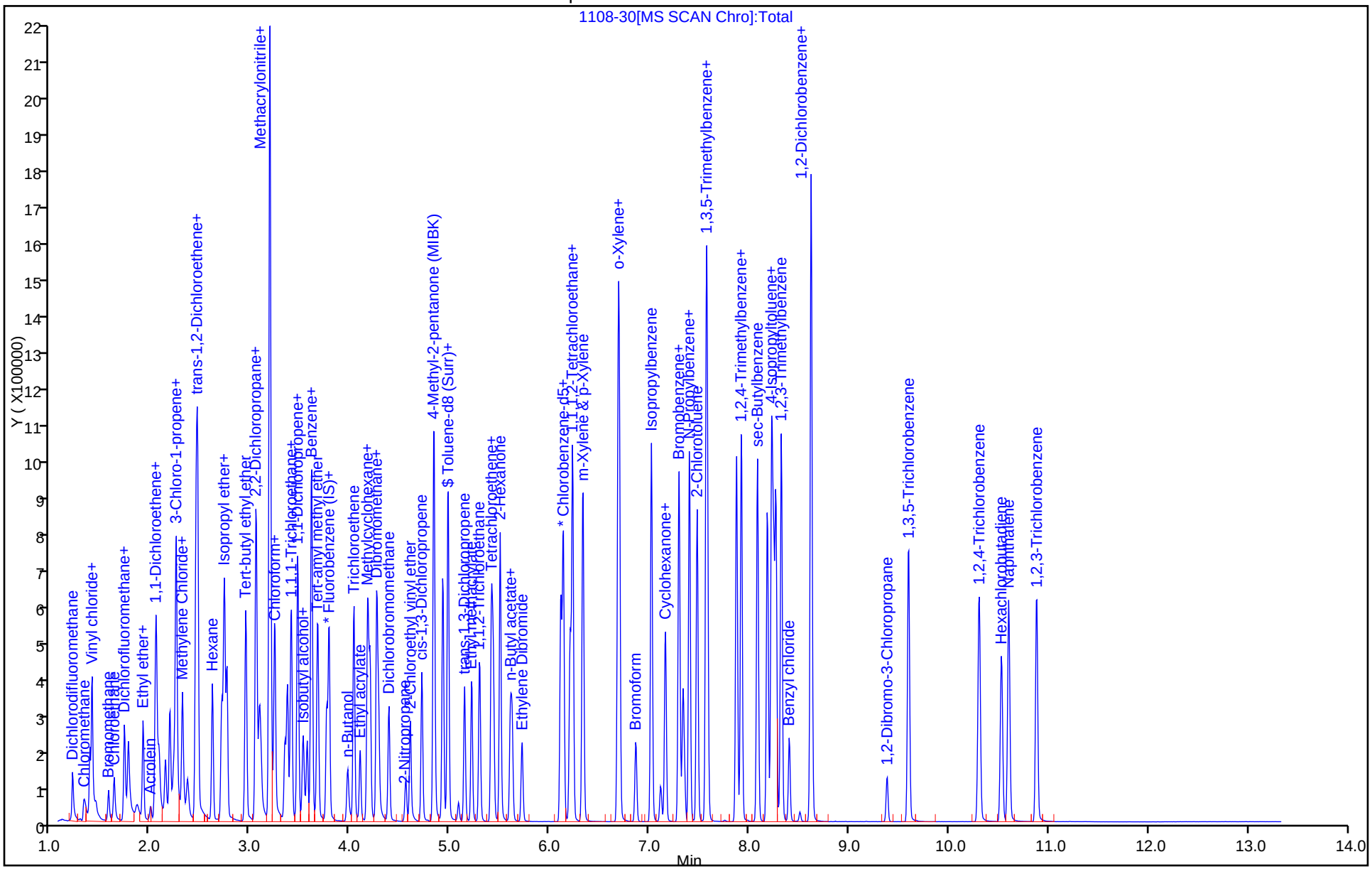
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
84 Ethylbenzene	91	6.227	6.227	0.0	98	587825	47.3	
85 m-Xylene & p-Xylene	91	6.335	6.335	0.0	100	461722	45.8	
86 o-Xylene	91	6.685	6.685	0.0	94	490251	48.0	
87 Styrene	104	6.697	6.697	0.0	94	409773	48.5	
88 Bromoform	173	6.861	6.861	0.0	96	90137	50.8	
89 Isopropylbenzene	105	7.019	7.019	0.0	95	598384	49.8	
90 Cyclohexanone	55	7.110	7.110	0.0	88	35753	396.4	
92 1,1,2,2-Tetrachloroethane	83	7.296	7.296	0.0	66	131124	42.7	
91 Bromobenzene	77	7.296	7.296	0.0	95	237373	45.8	
93 1,2,3-Trichloropropane	110	7.336	7.336	0.0	78	48374	54.7	
94 trans-1,4-Dichloro-2-butene	53	7.353	7.353	0.0	60	15912	20.3	
95 N-Propylbenzene	91	7.398	7.398	0.0	97	682504	48.0	
96 2-Chlorotoluene	91	7.477	7.477	0.0	97	420250	46.3	
97 1,3,5-Trimethylbenzene	105	7.568	7.568	0.0	90	506074	49.0	
98 4-Chlorotoluene	91	7.579	7.579	0.0	98	487852	46.3	
99 tert-Butylbenzene	119	7.873	7.873	0.0	89	447051	51.8	
101 1,2,4-Trimethylbenzene	105	7.919	7.919	0.0	90	533165	48.7	
102 sec-Butylbenzene	105	8.083	8.083	0.0	94	622680	52.5	
103 1,3-Dichlorobenzene	146	8.179	8.179	0.0	98	340141	51.1	
104 4-Isopropyltoluene	119	8.224	8.224	0.0	88	554090	51.9	
105 1,4-Dichlorobenzene	146	8.269	8.269	0.0	90	340621	50.4	
106 1,2,3-Trimethylbenzene	105	8.320	8.320	0.0	0	543326	48.7	
107 Benzyl chloride	91	8.399	8.399	0.0	95	139699	26.6	
109 1,2-Dichlorobenzene	146	8.620	8.620	0.0	97	335132	52.1	
108 n-Butylbenzene	91	8.620	8.620	0.0	95	449915	51.3	
110 1,2-Dibromo-3-Chloropropane	157	9.384	9.384	0.0	81	34644	46.0	
111 1,3,5-Trichlorobenzene	180	9.599	9.599	0.0	96	266231	50.4	
112 1,2,4-Trichlorobenzene	180	10.306	10.306	0.0	87	247260	47.2	
113 Hexachlorobutadiene	225	10.526	10.526	0.0	86	114960	52.3	
114 Naphthalene	128	10.600	10.600	0.0	97	524682	45.5	
115 1,2,3-Trichlorobenzene	180	10.883	10.883	0.0	94	221276	47.5	
S 120 Xylenes, Total	1				0		93.8	
S 121 1,2-Dichloroethene, Total	1				0		91.8	

Report Date: 11-Nov-2013 13:14:20 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131108-28107.b\1108-30.D

Injection Date:	09-Nov-2013 21:04:30	Instrument ID:	HP45	Operator ID:	BJM HP45
Lims ID:	CCVIS	Lab Sample ID:		Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	8260HP45	Limit Group:	MSV 8260B ICAL		



TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-05.D		
Lims ID:	BFB	Client ID:	
Inject. Date:	10-Oct-2013 13:21:30	Dil. Factor:	1.0000
Sample Type:	BFB		
Sample ID:	BFB		
Misc. Info.:	490-0026494-001		
Operator:	MJH HP45	Instrument ID:	HP45
Purge Vol:	5.000 mL	ALS Bottle#:	5
Lims Batch ID:	113395	Lims Sample ID:	1
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP45\20131010-26494.b\8260HP45.m		
Method Label:	8260B Volatile Organics 8260/SA/NV05-90		
Last Update:	11-Oct-2013 10:29:19	Calib Date:	10-Oct-2013 17:55:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK021		
First Level Reviewer: matlockbe		Date:	11-Oct-2013 10:29:19

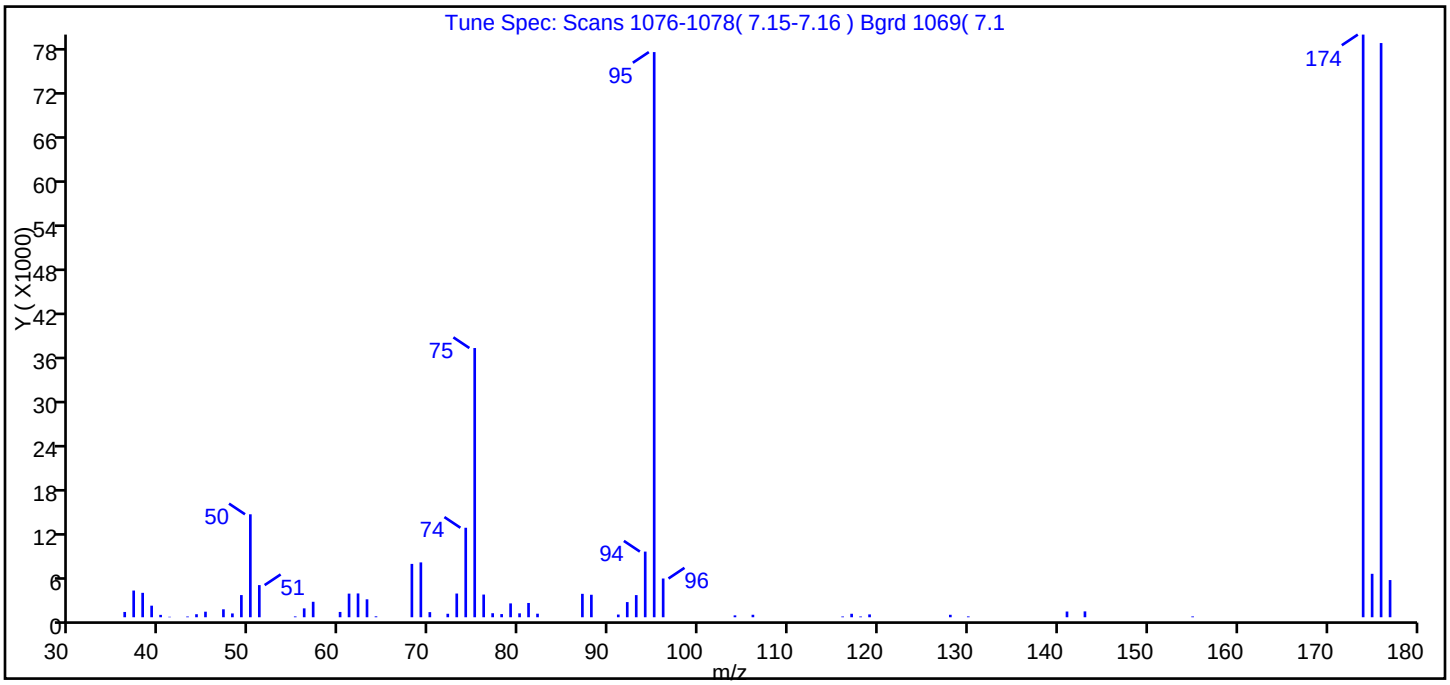
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
$ 7 BFB	95	7.155	7.155	0.0	0	128163	0	

MS Tune Report

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-05.D
Injection Date: 10-Oct-2013 13:21:30 Limit Group: MSV 8260B ICAL
Client ID: Instrument ID: HP45
Lims Batch ID: 113395 Lims Sample ID: 1
Operator ID: MJH HP45 Purge Vol: 5.000 mL
Column Type: Column Dia:
Tune Method: BFB Method 8260

$ 7 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.22
75	30.00 - 60.00% of mass 95	47.64
96	5.00 - 9.00% of mass 95	6.86
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	103.10
175	5.00 - 9.00% of mass 174	7.69 (7.46)
176	95.00 - 101.00% of mass 174	101.60 (98.55)
177	5.00 - 9.00% of mass 176	6.58 (6.48)

Data File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-05.D\8260HP45.rslt\spectra.d
Injection Date: 10-Oct-2013 13:21:30
Spectrum: Tune Spec: Scans 1076-1078(7.15-7.16) Bgrd 1069(7.1
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 59

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	726	56.00	1219	77.00	553	106.00	343
37.00	3662	57.00	2122	78.00	437	116.00	108
38.00	3349	60.00	728	79.00	1900	117.00	479
39.00	1588	61.00	3241	80.00	536	118.00	104
40.00	328	62.00	3266	81.00	1959	119.00	390
41.00	66	63.00	2461	82.00	488	128.00	339
43.00	104	64.00	128	87.00	3213	130.00	116
44.00	417	68.00	7316	88.00	3084	141.00	787
45.00	763	69.00	7522	91.00	372	143.00	805
47.00	1092	70.00	704	92.00	2079	155.00	114
48.00	524	72.00	480	93.00	3038	174.00	79888
49.00	3040	73.00	3252	94.00	9003	175.00	5957
50.00	14117	74.00	12271	95.00	77488	176.00	78728
51.00	4408	75.00	36912	96.00	5312	177.00	5101
55.00	115	76.00	3113	104.00	258		

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-01.D		
Lims ID:	BFB	Client ID:	
Inject. Date:	07-Nov-2013 10:25:30	Dil. Factor:	1.0000
Sample Type:	BFB		
Sample ID:	BFB		
Misc. Info.:	490-0028020-001		
Operator:	BJM HP45	Instrument ID:	HP45
Purge Vol:	5.000 mL	ALS Bottle#:	1
Lims Batch ID:	120093	Lims Sample ID:	1
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP45\20131107-28020.b\8260HP45.m		
Method Label:	8260B Volatile Organics 8260/SA/NV05-90		
Last Update:	08-Nov-2013 10:40:10	Calib Date:	10-Oct-2013 17:55:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK053		
First Level Reviewer: matlockbe		Date:	08-Nov-2013 10:40:10

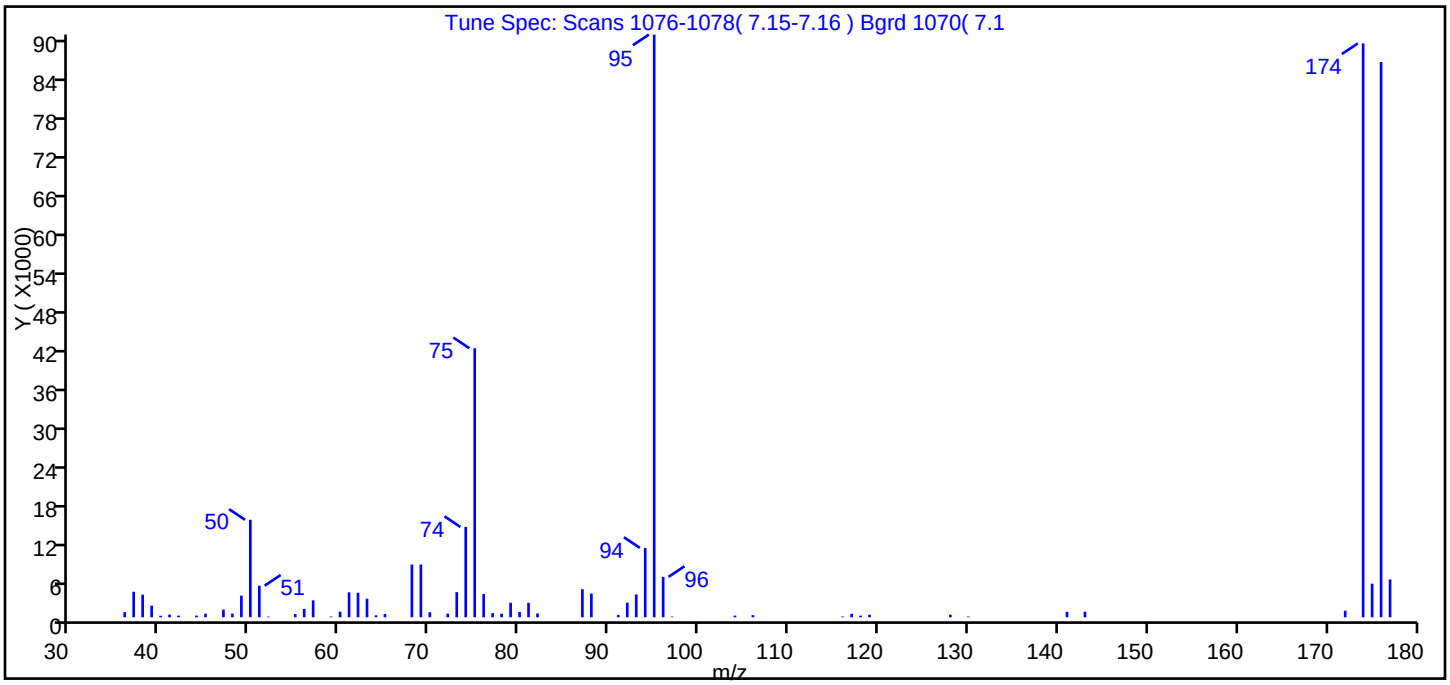
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
$ 7 BFB	95	7.155	7.155	0.0	0	143793	0	

MS Tune Report

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-01.D		
Injection Date:	07-Nov-2013 10:25:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP45
Lims Batch ID:	120093	Lims Sample ID:	1
Operator ID:	BJM HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Tune Method:	BFB Method 8260		

$ 7 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.73
75	30.00 - 60.00% of mass 95	46.17
96	5.00 - 9.00% of mass 95	6.92
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	98.48
175	5.00 - 9.00% of mass 174	5.76 (5.85)
176	95.00 - 101.00% of mass 174	95.29 (96.76)
177	5.00 - 9.00% of mass 176	6.49 (6.81)

Data File: \\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-01.D\8260HP45.rslt\spectra.d
Injection Date: 07-Nov-2013 10:25:30
Spectrum: Tune Spec: Scans 1076-1078(7.15-7.16) Bgrd 1070(7.1
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 63

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	795	56.00	1294	76.00	3609	104.00	259
37.00	3966	57.00	2621	77.00	639	106.00	325
38.00	3508	59.00	112	78.00	545	116.00	114
39.00	1801	60.00	864	79.00	2262	117.00	536
40.00	228	61.00	3880	80.00	817	118.00	248
41.00	419	62.00	3806	81.00	2244	119.00	392
42.00	253	63.00	2875	82.00	588	128.00	401
44.00	264	64.00	302	87.00	4361	130.00	112
45.00	556	65.00	514	88.00	3686	141.00	849
47.00	1182	68.00	8194	91.00	366	143.00	858
48.00	563	69.00	8201	92.00	2273	172.00	1018
49.00	3356	70.00	787	93.00	3549	174.00	89264
50.00	15162	72.00	565	94.00	10787	175.00	5225
51.00	4912	73.00	3908	95.00	90640	176.00	86368
52.00	105	74.00	14046	96.00	6275	177.00	5882
55.00	502	75.00	41848	97.00	105		

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP45\20131108-28107.b\1108-29.D
Lims ID: BFB Lab Sample ID:
Client ID:
Sample Type: BFB
Inject. Date: 09-Nov-2013 20:37:30 ALS Bottle#: 29 Worklist Smp#: 1
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 490-0028107-001
Operator ID: BJM HP45 Instrument ID: HP45

Method: \\Nvlchrom\ChromData\HP45\20131108-28107.b\8260HP45.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 11-Nov-2013 13:12:42 Calib Date: 10-Oct-2013 17:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D

Column 1 : Detector MS SCAN
Process Host: XAWRK019

First Level Reviewer: matlockbe Date: 11-Nov-2013 13:12:42

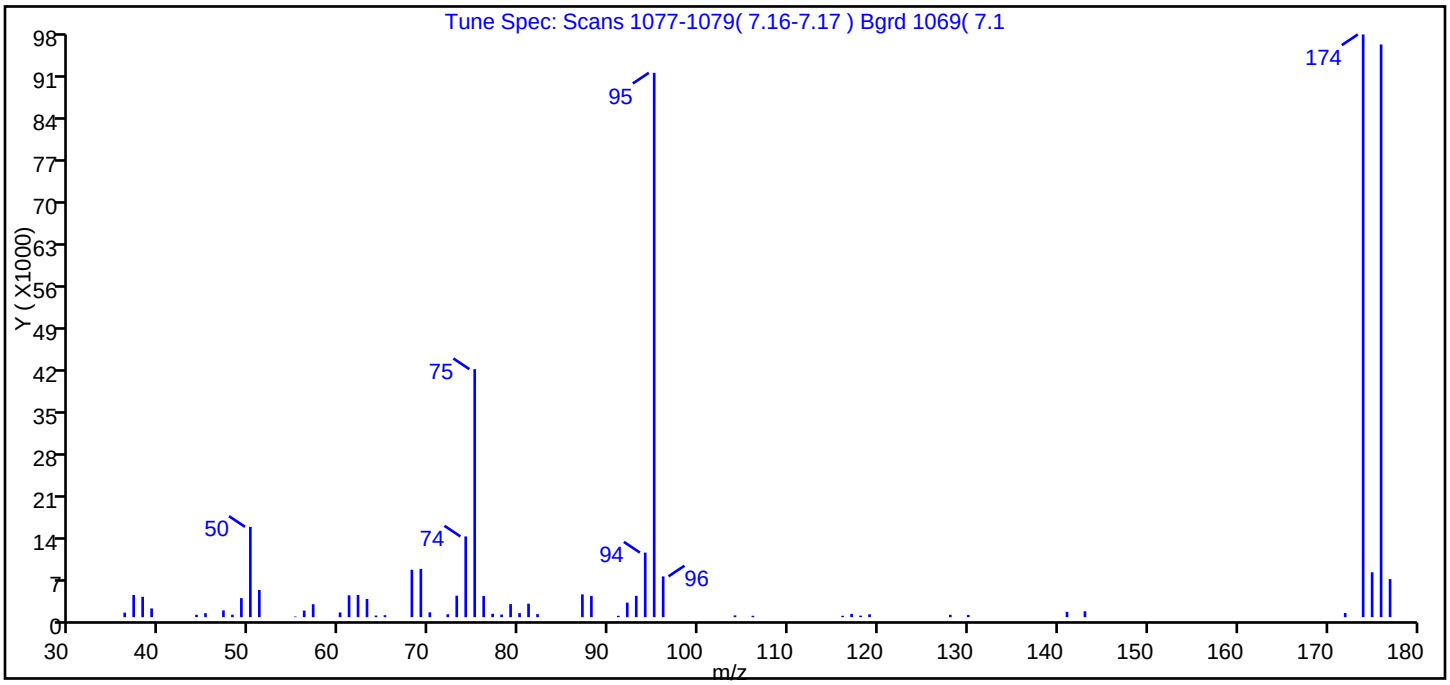
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
$ 7 BFB	95	7.161	7.161	0.0	0	144145	0	

MS Tune Report

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131108-28107.b\1108-29.D
Injection Date: 09-Nov-2013 20:37:30 Instrument ID: HP45
Lims ID: BFB Lab Sample ID:
Client ID:
Operator ID: BJM HP45 ALS Bottle#: 29 Worklist Smp#: 1
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260HP45 Limit Group: MSV 8260B ICAL
Tune Method: BFB Method 8260

$ 7 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.60
75	30.00 - 60.00% of mass 95	45.60
96	5.00 - 9.00% of mass 95	7.50
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	107.00
175	5.00 - 9.00% of mass 174	8.20 (7.70)
176	95.00 - 101.00% of mass 174	105.20 (98.30)
177	5.00 - 9.00% of mass 176	7.00 (6.60)

Data File: \\Nvlchrom\ChromData\HP45\20131108-28107.b\1108-29.D\8260HP45.rslt\spectra.d
Injection Date: 09-Nov-2013 20:37:30
Spectrum: Tune Spec: Scans 1077-1079(7.16-7.17) Bgrd 1069(7.1
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 57

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	752	61.00	3643	79.00	2183	117.00	552
37.00	3694	62.00	3700	80.00	675	118.00	252
38.00	3391	63.00	3025	81.00	2247	119.00	470
39.00	1456	64.00	270	82.00	506	128.00	390
44.00	396	65.00	329	87.00	3799	130.00	357
45.00	664	68.00	7900	88.00	3530	141.00	887
47.00	1122	69.00	8045	91.00	226	143.00	981
48.00	404	70.00	804	92.00	2421	172.00	705
49.00	3171	72.00	479	93.00	3549	174.00	97168
50.00	15061	73.00	3578	94.00	10770	175.00	7481
51.00	4536	74.00	13461	95.00	90776	176.00	95504
55.00	103	75.00	41360	96.00	6797	177.00	6348
56.00	1096	76.00	3531	104.00	293		
57.00	2157	77.00	563	106.00	225		
60.00	781	78.00	433	116.00	232		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-120093/6

Matrix: Water | Lab File ID: 1107-06.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/07/2013 12:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND		1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	ND		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-120093/6

Matrix: Water | Lab File ID: 1107-06.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/07/2013 12:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND		5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND		1.00	0.200
75-69-4	Trichlorofluoromethane	ND		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	ND		1.00	0.330
75-01-4	Vinyl chloride	ND		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-06.D		
Lims ID:	MB	Client ID:	
Inject. Date:	07-Nov-2013 12:42:30	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	MB		
Misc. Info.:	490-0028020-006		
Operator:	BJM HP45	Instrument ID:	HP45
Purge Vol:	5.000 mL	ALS Bottle#:	6
Lims Batch ID:	120093	Lims Sample ID:	6
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP45\20131107-28020.b\8260HP45.m		
Method Label:	8260B Volatile Organics 8260/SA/NV05-90		
Last Update:	08-Nov-2013 10:40:22	Calib Date:	10-Oct-2013 17:55:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK053		
First Level Reviewer: matlockbe		Date:	08-Nov-2013 10:40:39

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.789	3.789	0.0	99	358578	50.0	
* 2 Chlorobenzene-d5	117	6.109	6.114	-0.005	83	298145	50.0	
* 3 1,4-Dichlorobenzene-d4	152	8.241	8.247	-0.006	93	178245	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.343	3.348	-0.005	56	88928	49.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.569	3.569	0.0	89	102812	49.7	
$ 6 Toluene-d8 (Surr)	98	4.927	4.932	-0.005	84	365795	48.2	
$ 8 4-Bromofluorobenzene (Surr)	95	7.161	7.161	0.0	96	142318	47.3	

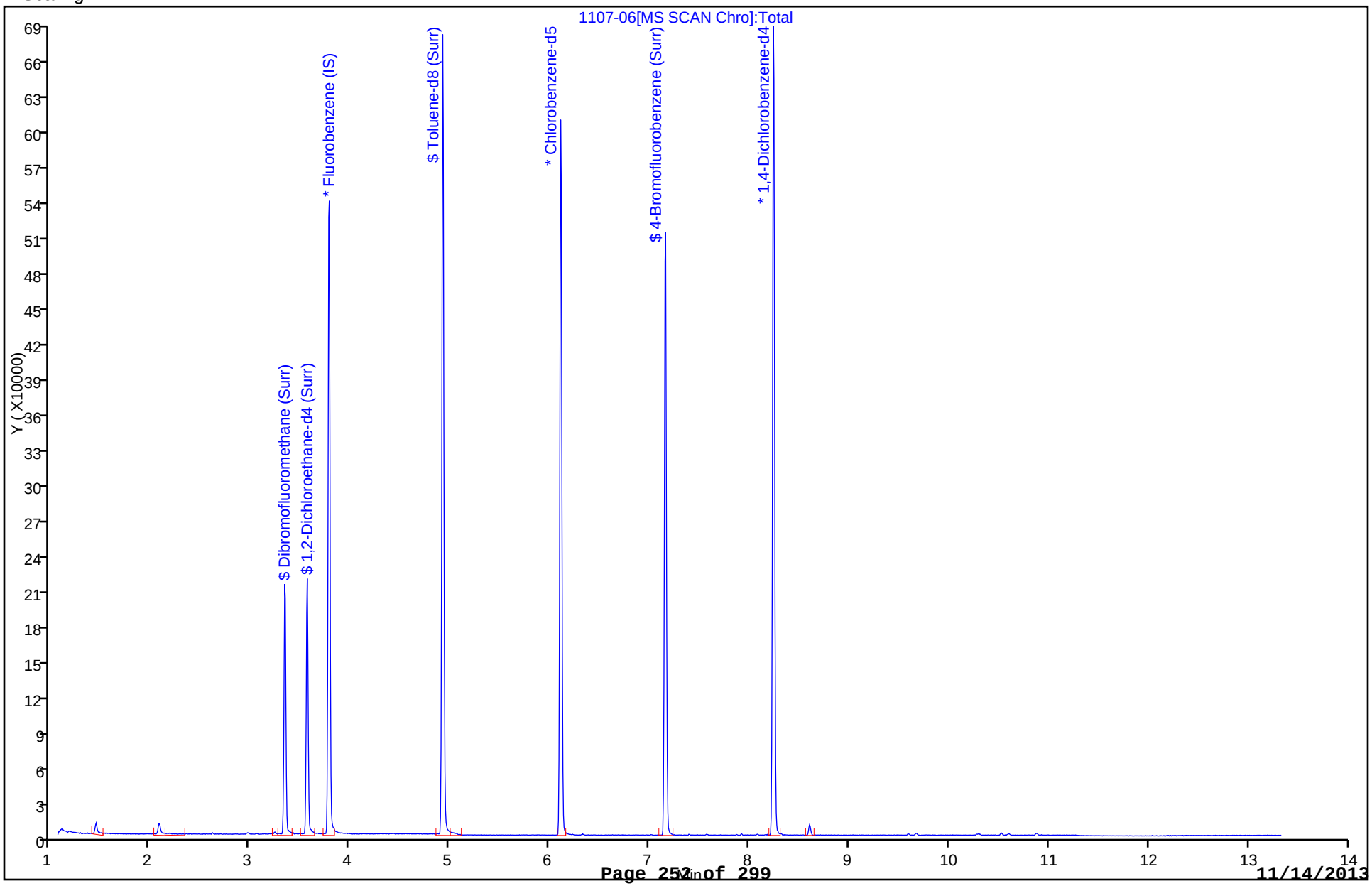
Report Date: 08-Nov-2013 10:40:39 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-06.D

Injection Date:	07-Nov-2013 12:42:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP45
Lims Batch ID:	120093	Lims Sample ID:	6
Operator ID:	BJM HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-120479/6

Matrix: Water | Lab File ID: 1108-34.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/09/2013 22:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120479 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND		1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	ND		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-120479/6

Matrix: Water | Lab File ID: 1108-34.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/09/2013 22:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120479 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND		5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND		1.00	0.200
75-69-4	Trichlorofluoromethane	ND		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	ND		1.00	0.330
75-01-4	Vinyl chloride	ND		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		70-130
1868-53-7	Dibromofluoromethane (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP45\20131108-28107.b\1108-34.D
Lims ID: MB Lab Sample ID:
Client ID:
Sample Type: MB
Inject. Date: 09-Nov-2013 22:53:30 ALS Bottle#: 34 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 490-0028107-006
Operator ID: BJM HP45 Instrument ID: HP45

Method: \\Nvlchrom\ChromData\HP45\20131108-28107.b\8260HP45.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 11-Nov-2013 13:20:16 Calib Date: 10-Oct-2013 17:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D

Column 1 : Detector MS SCAN
Process Host: XAWRK019

First Level Reviewer: matlockbe Date: 11-Nov-2013 13:20:29

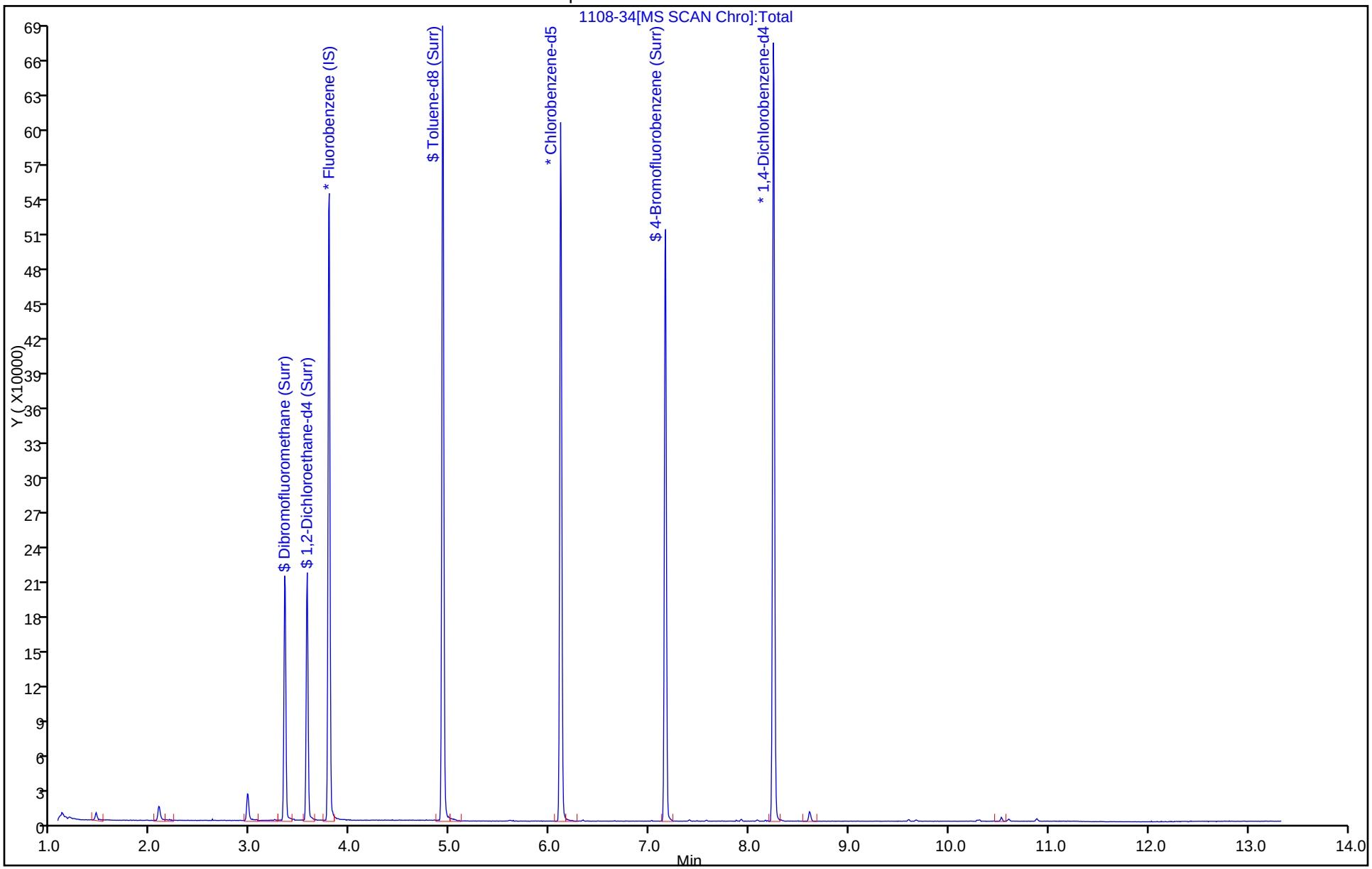
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.789	3.789	0.0	99	360100	50.0	
* 2 Chlorobenzene-d5	117	6.109	6.108	0.0	83	301132	50.0	
* 3 1,4-Dichlorobenzene-d4	152	8.247	8.247	0.0	92	178650	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.342	3.342	0.0	56	90266	50.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.569	3.568	0.001	89	102369	49.3	
$ 6 Toluene-d8 (Surr)	98	4.926	4.926	0.0	83	365816	47.8	
$ 8 4-Bromofluorobenzene (Surr)	95	7.155	7.161	-0.006	96	139940	46.4	

Report Date: 11-Nov-2013 13:20:29 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131108-28107.b\1108-34.D

Injection Date:	09-Nov-2013 22:53:30	Instrument ID:	HP45	Operator ID:	BJM HP45
Lims ID:	MB	Lab Sample ID:		Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	34
Method:	8260HP45	Limit Group:	MSV 8260B ICAL		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-120093/3

Matrix: Water | Lab File ID: 1107-03.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/07/2013 11:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	304.7		5.00	2.66
71-43-2	Benzene	50.68		1.00	0.200
74-97-5	Bromochloromethane	51.11		1.00	0.150
75-27-4	Bromodichloromethane	51.44		1.00	0.170
75-25-2	Bromoform	52.89		1.00	0.290
74-83-9	Bromomethane	32.56		1.00	0.350
78-93-3	2-Butanone (MEK)	286.5		50.0	2.64
75-15-0	Carbon disulfide	52.10		1.00	0.220
56-23-5	Carbon tetrachloride	51.71		1.00	0.180
108-90-7	Chlorobenzene	51.04		1.00	0.180
124-48-1	Chlorodibromomethane	53.51		1.00	0.250
75-00-3	Chloroethane	53.50		1.00	0.360
67-66-3	Chloroform	48.10		1.00	0.230
74-87-3	Chloromethane	49.78		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	45.61		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	50.08		1.00	0.170
110-82-7	Cyclohexane	49.24		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	52.51		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	54.85		1.00	0.210
95-50-1	1,2-Dichlorobenzene	53.19		1.00	0.190
541-73-1	1,3-Dichlorobenzene	53.67		1.00	0.180
106-46-7	1,4-Dichlorobenzene	52.29		1.00	0.170
75-71-8	Dichlorodifluoromethane	58.20		1.00	0.170
75-34-3	1,1-Dichloroethane	47.76		1.00	0.240
107-06-2	1,2-Dichloroethane	51.32		1.00	0.200
75-35-4	1,1-Dichloroethene	58.49		1.00	0.250
78-87-5	1,2-Dichloropropane	48.39		1.00	0.250
100-41-4	Ethylbenzene	48.64		1.00	0.190
591-78-6	2-Hexanone	259.1		5.00	1.28
98-82-8	Isopropylbenzene	51.99		1.00	0.330
79-20-9	Methyl acetate	212.5		10.0	0.720
108-87-2	Methylcyclohexane	61.64		5.00	0.200
75-09-2	Methylene Chloride	53.78		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	259.2		5.00	0.810
1634-04-4	Methyl tert-butyl ether	49.65		1.00	0.170
103-65-1	N-Propylbenzene	51.39		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-120093/3

Matrix: Water | Lab File ID: 1107-03.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/07/2013 11:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	49.35		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	56.38		1.00	0.190
127-18-4	Tetrachloroethene	54.10		1.00	0.140
109-99-9	Tetrahydrofuran	87.92		5.00	2.84
108-88-3	Toluene	47.92		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	48.70		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	51.75		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	53.31		1.00	0.200
71-55-6	1,1,1-Trichloroethane	52.66		1.00	0.190
79-00-5	1,1,2-Trichloroethane	54.62		1.00	0.190
79-01-6	Trichloroethene	55.13		1.00	0.200
75-69-4	Trichlorofluoromethane	63.83		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	60.69		1.00	0.330
75-01-4	Vinyl chloride	54.91		1.00	0.180
1330-20-7	Xylenes, Total	96.78		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-130
2037-26-5	Toluene-d8 (Surr)	94		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-03.D
Lims ID: LCS Client ID:
Inject. Date: 07-Nov-2013 11:20:30 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: LCS
Misc. Info.: 490-0028020-003
Operator: BJM HP45 Instrument ID: HP45
Purge Vol: 5.000 mL ALS Bottle#: 3
Lims Batch ID: 120093 Lims Sample ID: 3
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP45\20131107-28020.b\8260HP45.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 08-Nov-2013 10:40:22 Calib Date: 10-Oct-2013 17:55:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK053

First Level Reviewer: matlockbe Date: 08-Nov-2013 10:40:25

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.789	3.789	0.0	99	349247	50.0	
* 2 Chlorobenzene-d5	117	6.114	6.114	0.0	82	297262	50.0	
* 3 1,4-Dichlorobenzene-d4	152	8.247	8.247	0.0	74	176344	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.342	3.348	-0.006	54	84873	48.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.569	3.569	0.0	89	97865	48.6	
$ 6 Toluene-d8 (Surr)	98	4.926	4.932	-0.006	83	357174	47.2	
$ 8 4-Bromofluorobenzene (Surr)	95	7.161	7.161	0.0	97	142987	48.1	
9 Dichlorodifluoromethane	85	1.215	1.215	0.0	86	106223	58.2	
10 Chloromethane	50	1.329	1.329	0.0	89	127024	49.8	
11 Vinyl chloride	62	1.391	1.391	0.0	80	143112	54.9	
12 Butadiene	54	1.413	1.413	0.0	86	150261	68.3	
13 Bromomethane	96	1.578	1.578	0.0	89	28799	32.6	
14 Chloroethane	64	1.634	1.634	0.0	95	83682	53.5	
15 Dichlorofluoromethane	67	1.736	1.736	0.0	76	227343	53.5	
16 Trichlorofluoromethane	101	1.776	1.776	0.0	80	187782	63.8	
17 Ethanol	45	1.866	1.866	0.0	98	55758	3007.7	
18 Ethyl ether	59	1.923	1.923	0.0	91	98696	50.6	
19 Acrolein	56	2.002	2.002	0.0	93	44464	128.0	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.047	2.047	0.0	83	108570	60.7	
21 1,1-Dichloroethene	96	2.058	2.058	0.0	90	111475	58.5	
22 Acetone	58	2.081	2.081	0.0	99	66593	304.7	
24 Isopropyl alcohol	45	2.149	2.149	0.0	82	73070	529.7	
23 Iodomethane	142	2.149	2.149	0.0	98	158591	66.5	
25 Carbon disulfide	76	2.188	2.194	-0.006	98	335376	52.1	
26 Acetonitrile	40	2.234	2.234	0.0	100	115917	519.1	
27 3-Chloro-1-propene	76	2.251	2.251	0.0	99	96277	55.5	
28 Methyl acetate	43	2.256	2.256	0.0	97	497238	212.5	
29 Methylene Chloride	84	2.319	2.319	0.0	79	121164	53.8	
30 2-Methyl-2-propanol	59	2.369	2.369	0.0	98	106981	543.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
31 Acrylonitrile	53	2.454	2.454	0.0	99	522542	548.4	
32 Methyl tert-butyl ether	73	2.471	2.471	0.0	89	324882	49.7	
33 trans-1,2-Dichloroethene	61	2.471	2.471	0.0	92	154592	48.7	
34 Hexane	57	2.618	2.618	0.0	89	157961	59.1	
35 1,1-Dichloroethane	63	2.715	2.715	0.0	85	199678	47.8	
36 Vinyl acetate	43	2.732	2.732	0.0	96	643472	106.9	
37 Isopropyl ether	45	2.737	2.737	0.0	76	360656	42.0	
38 2-Chloro-1,3-butadiene	53	2.765	2.765	0.0	95	163440	47.4	
39 Tert-butyl ethyl ether	59	2.952	2.952	0.0	95	347230	46.7	
41 cis-1,2-Dichloroethene	61	3.054	3.054	0.0	70	183312	45.6	
40 2,2-Dichloropropane	77	3.054	3.060	-0.006	75	172989	52.3	
42 2-Butanone (MEK)	72	3.060	3.060	0.0	97	73976	286.5	
43 Ethyl acetate	45	3.088	3.088	0.0	71	30765	170.1	
44 Propionitrile	54	3.105	3.105	0.0	0	196753	550.7	
45 Methacrylonitrile	41	3.195	3.195	0.0	99	742379	483.2	
46 Chlorobromomethane	130	3.207	3.207	0.0	64	69844	51.1	
47 Tetrahydrofuran	42	3.241	3.241	0.0	58	69298	87.9	
48 Chloroform	83	3.246	3.246	0.0	73	193199	48.1	
49 1,1,1-Trichloroethane	97	3.371	3.371	0.0	86	175768	52.7	
50 Cyclohexane	56	3.410	3.410	0.0	90	198769	49.2	
51 1,1-Dichloropropene	75	3.473	3.473	0.0	95	147223	51.5	
52 Carbon tetrachloride	117	3.478	3.478	0.0	79	146523	51.7	
53 Isobutyl alcohol	43	3.529	3.529	0.0	99	135115	486.7	
55 Benzene	78	3.608	3.614	-0.006	95	481728	50.7	
56 1,2-Dichloroethane	62	3.620	3.620	0.0	89	159192	51.3	
57 Tert-amyl methyl ether	73	3.676	3.676	0.0	98	327161	48.9	
58 n-Heptane	43	3.761	3.761	0.0	96	140223	64.3	
59 n-Butanol	56	3.976	3.976	0.0	89	88033	1329.1	
60 Trichloroethene	130	4.038	4.038	0.0	92	135849	55.1	
61 Ethyl acrylate	55	4.100	4.100	0.0	92	164550	52.2	
62 Methylcyclohexane	83	4.174	4.174	0.0	90	196781	61.6	
63 1,2-Dichloropropane	63	4.197	4.197	0.0	95	122807	48.4	
64 Methyl methacrylate	41	4.265	4.265	0.0	97	228653	100.3	
65 Dibromomethane	93	4.282	4.282	0.0	86	75472	57.8	
66 1,4-Dioxane	88	4.298	4.298	0.0	88	29235	1256.0	
67 Dichlorobromomethane	83	4.389	4.389	0.0	88	156439	51.4	
68 2-Nitropropane	43	4.559	4.559	0.0	98	79633	115.2	
69 2-Chloroethyl vinyl ether	63	4.604	4.604	0.0	92	89776	56.8	
70 cis-1,3-Dichloropropene	75	4.717	4.717	0.0	90	197850	50.1	
71 4-Methyl-2-pentanone (MIBK)	58	4.842	4.842	0.0	85	257151	259.2	
72 Toluene	91	4.983	4.983	0.0	93	535727	47.9	
73 trans-1,3-Dichloropropene	75	5.147	5.147	0.0	89	174075	51.7	
74 Ethyl methacrylate	69	5.215	5.215	0.0	85	167392	47.9	
75 1,1,2-Trichloroethane	97	5.300	5.294	0.006	85	119749	54.6	
76 Tetrachloroethene	166	5.419	5.419	0.0	90	160321	54.1	
77 1,3-Dichloropropane	76	5.436	5.436	0.0	86	198450	51.2	
78 2-Hexanone	58	5.503	5.503	0.0	90	251581	259.1	
79 n-Butyl acetate	43	5.605	5.605	0.0	81	177073	85.1	
80 Chlorodibromomethane	127	5.622	5.622	0.0	84	97700	53.5	
81 Ethylene Dibromide	107	5.724	5.724	0.0	99	125601	54.8	
82 Chlorobenzene	112	6.137	6.137	0.0	95	367739	51.0	
83 1,1,1,2-Tetrachloroethane	131	6.205	6.205	0.0	86	128899	52.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
84 Ethylbenzene	91	6.227	6.227	0.0	98	597818	48.6	
85 m-Xylene & p-Xylene	91	6.335	6.335	0.0	99	478437	48.0	
86 o-Xylene	91	6.686	6.686	0.0	94	492711	48.8	
87 Styrene	104	6.697	6.697	0.0	94	412694	49.3	
88 Bromoform	173	6.861	6.861	0.0	95	92833	52.9	
89 Isopropylbenzene	105	7.019	7.019	0.0	95	618294	52.0	
90 Cyclohexanone	55	7.110	7.110	0.0	90	44438	493.5	
92 1,1,2,2-Tetrachloroethane	83	7.297	7.297	0.0	73	168031	56.4	
91 Bromobenzene	77	7.297	7.297	0.0	93	239778	47.7	
93 1,2,3-Trichloropropane	110	7.336	7.336	0.0	79	50337	58.6	
94 trans-1,4-Dichloro-2-butene	53	7.353	7.353	0.0	84	23524	30.9	
95 N-Propylbenzene	91	7.398	7.398	0.0	97	708557	51.4	
96 2-Chlorotoluene	91	7.478	7.478	0.0	97	426650	48.4	
97 1,3,5-Trimethylbenzene	105	7.568	7.568	0.0	90	522871	52.2	
98 4-Chlorotoluene	91	7.579	7.579	0.0	98	505747	49.5	
99 tert-Butylbenzene	119	7.874	7.874	0.0	89	461471	55.1	
101 1,2,4-Trimethylbenzene	105	7.919	7.919	0.0	89	547698	51.6	
102 sec-Butylbenzene	105	8.083	8.083	0.0	94	656642	57.0	
103 1,3-Dichlorobenzene	146	8.179	8.179	0.0	98	346474	53.7	
104 4-Isopropyltoluene	119	8.224	8.224	0.0	88	594090	57.3	
105 1,4-Dichlorobenzene	146	8.270	8.270	0.0	83	343151	52.3	
106 1,2,3-Trimethylbenzene	105	8.321	8.321	0.0	0	548986	50.7	
107 Benzyl chloride	91	8.400	8.400	0.0	95	340351	65.6	
109 1,2-Dichlorobenzene	146	8.620	8.620	0.0	97	332208	53.2	
108 n-Butylbenzene	91	8.620	8.620	0.0	95	506602	59.6	
110 1,2-Dibromo-3-Chloropropane	157	9.384	9.384	0.0	81	38465	52.5	
111 1,3,5-Trichlorobenzene	180	9.599	9.599	0.0	92	287501	56.1	
112 1,2,4-Trichlorobenzene	180	10.306	10.306	0.0	92	270702	53.3	
113 Hexachlorobutadiene	225	10.527	10.527	0.0	87	131696	61.8	
114 Naphthalene	128	10.600	10.600	0.0	97	575189	51.4	
115 1,2,3-Trichlorobenzene	180	10.883	10.883	0.0	92	240713	53.3	
S 120 Xylenes, Total	1				0		96.8	
S 121 1,2-Dichloroethene, Total	1				0		94.3	

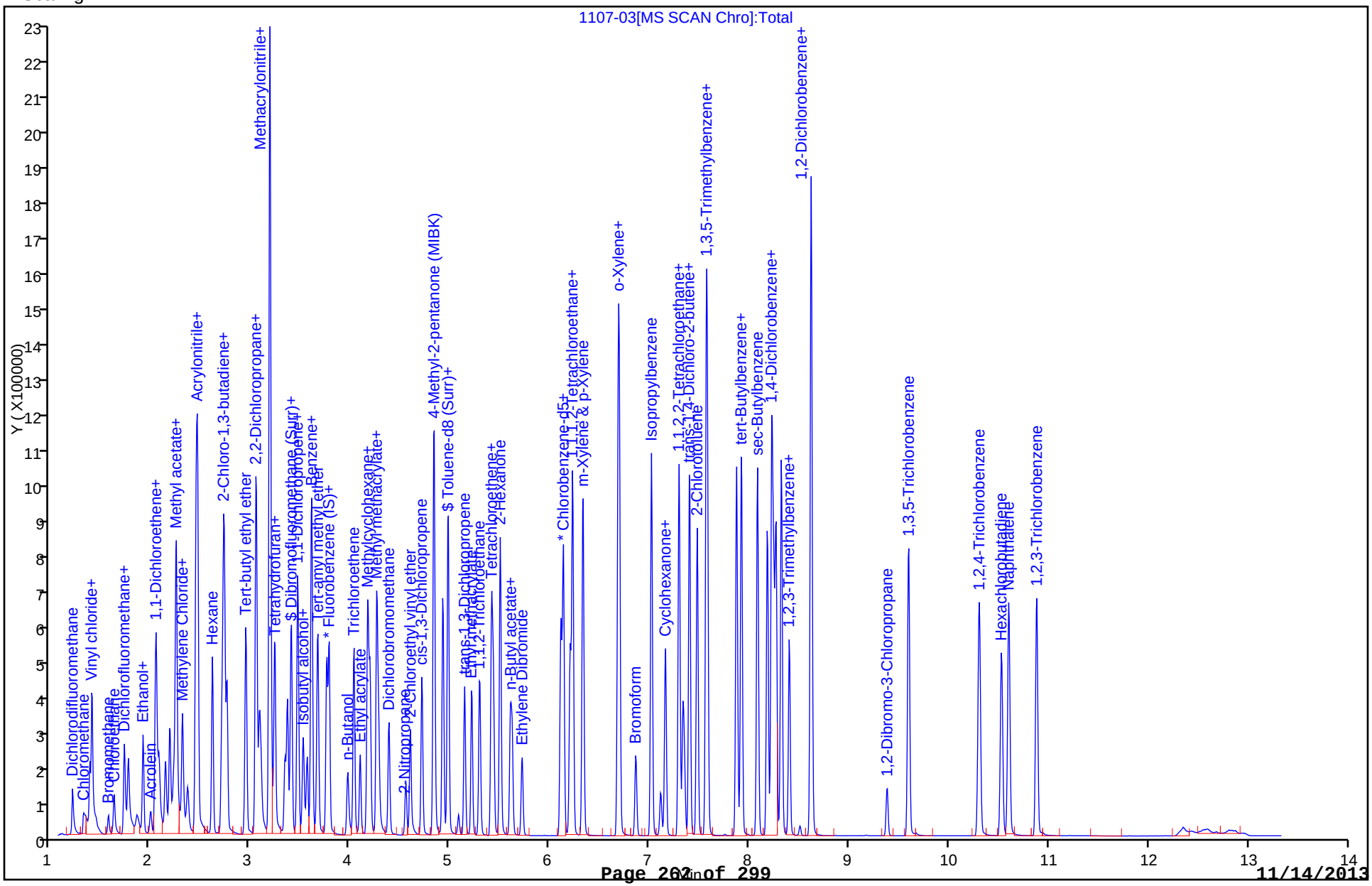
Report Date: 08-Nov-2013 10:40:25 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-03.D

Injection Date:	07-Nov-2013 11:20:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP45
Lims Batch ID:	120093	Lims Sample ID:	3
Operator ID:	BJM HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-120479/3

Matrix: Water | Lab File ID: 1108-31.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/09/2013 21:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120479 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	302.1		5.00	2.66
71-43-2	Benzene	51.41		1.00	0.200
74-97-5	Bromochloromethane	55.91		1.00	0.150
75-27-4	Bromodichloromethane	52.42		1.00	0.170
75-25-2	Bromoform	51.79		1.00	0.290
74-83-9	Bromomethane	53.85		1.00	0.350
78-93-3	2-Butanone (MEK)	278.9		50.0	2.64
75-15-0	Carbon disulfide	53.42		1.00	0.220
56-23-5	Carbon tetrachloride	53.13		1.00	0.180
108-90-7	Chlorobenzene	50.48		1.00	0.180
124-48-1	Chlorodibromomethane	52.86		1.00	0.250
75-00-3	Chloroethane	54.29		1.00	0.360
67-66-3	Chloroform	49.21		1.00	0.230
74-87-3	Chloromethane	39.76		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	44.30		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	44.82		1.00	0.170
110-82-7	Cyclohexane	48.24		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	46.88		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	53.31		1.00	0.210
95-50-1	1,2-Dichlorobenzene	52.41		1.00	0.190
541-73-1	1,3-Dichlorobenzene	51.50		1.00	0.180
106-46-7	1,4-Dichlorobenzene	50.62		1.00	0.170
75-71-8	Dichlorodifluoromethane	60.17		1.00	0.170
75-34-3	1,1-Dichloroethane	49.30		1.00	0.240
107-06-2	1,2-Dichloroethane	51.55		1.00	0.200
75-35-4	1,1-Dichloroethene	54.39		1.00	0.250
78-87-5	1,2-Dichloropropane	48.02		1.00	0.250
100-41-4	Ethylbenzene	47.57		1.00	0.190
591-78-6	2-Hexanone	235.3		5.00	1.28
98-82-8	Isopropylbenzene	50.25		1.00	0.330
79-20-9	Methyl acetate	193.5		10.0	0.720
108-87-2	Methylcyclohexane	58.00		5.00	0.200
75-09-2	Methylene Chloride	54.52		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	241.1		5.00	0.810
1634-04-4	Methyl tert-butyl ether	48.14		1.00	0.170
103-65-1	N-Propylbenzene	48.39		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-120479/3

Matrix: Water | Lab File ID: 1108-31.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/09/2013 21:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120479 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	48.71		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	42.33		1.00	0.190
127-18-4	Tetrachloroethene	52.35		1.00	0.140
109-99-9	Tetrahydrofuran	83.60		5.00	2.84
108-88-3	Toluene	47.28		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	49.05		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	45.61		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	48.12		1.00	0.200
71-55-6	1,1,1-Trichloroethane	52.78		1.00	0.190
79-00-5	1,1,2-Trichloroethane	53.37		1.00	0.190
79-01-6	Trichloroethene	63.51		1.00	0.200
75-69-4	Trichlorofluoromethane	59.84		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	60.34		1.00	0.330
75-01-4	Vinyl chloride	54.60		1.00	0.180
1330-20-7	Xylenes, Total	93.80		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		70-130
1868-53-7	Dibromofluoromethane (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		70-130
2037-26-5	Toluene-d8 (Surr)	93		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP45\20131108-28107.b\1108-31.D
Lims ID: LCS Lab Sample ID:
Client ID:
Sample Type: LCS
Inject. Date: 09-Nov-2013 21:32:30 ALS Bottle#: 31 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 490-0028107-003
Operator ID: BJM HP45 Instrument ID: HP45

Method: \\Nvlchrom\ChromData\HP45\20131108-28107.b\8260HP45.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 11-Nov-2013 13:20:07 Calib Date: 10-Oct-2013 17:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D

Column 1 : Detector MS SCAN
Process Host: XAWRK019

First Level Reviewer: matlockbe Date: 11-Nov-2013 13:20:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.789	3.789	0.0	99	347548	50.0	
* 2 Chlorobenzene-d5	117	6.108	6.108	0.0	83	301216	50.0	
* 3 1,4-Dichlorobenzene-d4	152	8.247	8.247	0.0	77	182482	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.342	3.342	0.0	55	84672	48.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.568	3.568	0.0	89	95603	47.7	
$ 6 Toluene-d8 (Surr)	98	4.926	4.926	0.0	83	355630	46.4	
$ 8 4-Bromofluorobenzene (Surr)	95	7.161	7.161	0.0	96	143117	46.5	
9 Dichlorodifluoromethane	85	1.215	1.215	0.0	86	109290	60.2	
10 Chloromethane	50	1.334	1.334	0.0	89	100955	39.8	
11 Vinyl chloride	62	1.390	1.391	-0.001	79	141620	54.6	
12 Butadiene	54	1.413	1.413	0.0	86	140146	64.0	
13 Bromomethane	96	1.577	1.577	0.0	90	47528	53.9	
14 Chloroethane	64	1.634	1.634	0.0	95	84503	54.3	
15 Dichlorofluoromethane	67	1.736	1.736	0.0	79	227589	53.8	
16 Trichlorofluoromethane	101	1.775	1.775	0.0	87	175180	59.8	
17 Ethanol	45	1.866	1.866	0.0	97	48395	2623.3	
18 Ethyl ether	59	1.922	1.922	0.0	89	98292	50.6	
19 Acrolein	56	2.001	2.001	0.0	90	26692	76.9	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.047	2.047	0.0	82	107414	60.3	
21 1,1-Dichloroethene	96	2.058	2.058	0.0	90	103143	54.4	
22 Acetone	58	2.081	2.081	0.0	96	65704	302.1	
24 Isopropyl alcohol	45	2.149	2.149	0.0	37	60991	444.3	
23 Iodomethane	142	2.149	2.149	0.0	97	130598	55.1	
25 Carbon disulfide	76	2.194	2.194	0.0	98	342162	53.4	
26 Acetonitrile	40	2.233	2.239	-0.006	99	110503	496.8	
27 3-Chloro-1-propene	76	2.250	2.250	0.0	99	94255	54.6	
28 Methyl acetate	43	2.256	2.256	0.0	97	450471	193.5	
29 Methylene Chloride	84	2.318	2.318	0.0	82	122241	54.5	
30 2-Methyl-2-propanol	59	2.369	2.369	0.0	97	95103	485.8	
31 Acrylonitrile	53	2.454	2.454	0.0	99	495843	522.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
32 Methyl tert-butyl ether	73	2.471	2.471	0.0	89	313446	48.1	
33 trans-1,2-Dichloroethene	61	2.471	2.471	0.0	66	154950	49.1	
34 Hexane	57	2.618	2.618	0.0	92	123397	46.4	
35 1,1-Dichloroethane	63	2.709	2.709	0.0	85	205135	49.3	
36 Vinyl acetate	43	2.737	2.731	0.006	88	274287	45.8	
37 Isopropyl ether	45	2.737	2.737	0.0	87	358127	42.0	
38 2-Chloro-1,3-butadiene	53	2.765	2.765	0.0	100	162826	47.5	
39 Tert-butyl ethyl ether	59	2.952	2.952	0.0	95	335685	45.4	
41 cis-1,2-Dichloroethene	61	3.054	3.054	0.0	69	177168	44.3	
40 2,2-Dichloropropane	77	3.054	3.054	0.0	64	110138	33.5	
42 2-Butanone (MEK)	72	3.059	3.059	0.0	97	71667	278.9	
43 Ethyl acetate	45	3.088	3.088	0.0	72	29759	165.4	
44 Propionitrile	54	3.105	3.105	0.0	0	181674	511.0	
45 Methacrylonitrile	41	3.195	3.195	0.0	99	709892	464.4	
46 Chlorobromomethane	130	3.206	3.206	0.0	63	76035	55.9	
47 Tetrahydrofuran	42	3.240	3.240	0.0	55	65572	83.6	
48 Chloroform	83	3.240	3.240	0.0	73	196689	49.2	
49 1,1,1-Trichloroethane	97	3.370	3.370	0.0	86	175316	52.8	
50 Cyclohexane	56	3.410	3.410	0.0	90	193788	48.2	
51 1,1-Dichloropropene	75	3.472	3.472	0.0	96	146227	51.4	
52 Carbon tetrachloride	117	3.478	3.478	0.0	79	149827	53.1	
53 Isobutyl alcohol	43	3.529	3.529	0.0	97	120876	437.5	
55 Benzene	78	3.608	3.608	0.0	96	486229	51.4	
56 1,2-Dichloroethane	62	3.619	3.619	0.0	89	159126	51.5	
57 Tert-amyl methyl ether	73	3.676	3.676	0.0	97	314249	47.2	
58 n-Heptane	43	3.761	3.761	0.0	95	93430	43.1	
59 n-Butanol	56	3.976	3.976	0.0	89	75740	1147.9	
60 Trichloroethene	130	4.038	4.038	0.0	90	155725	63.5	
61 Ethyl acrylate	55	4.100	4.100	0.0	92	145665	46.5	
62 Methylcyclohexane	83	4.174	4.174	0.0	90	184254	58.0	
63 1,2-Dichloropropane	63	4.196	4.196	0.0	94	121269	48.0	
64 Methyl methacrylate	41	4.264	4.264	0.0	98	207138	91.3	
65 Dibromomethane	93	4.281	4.281	0.0	84	75493	58.1	
66 1,4-Dioxane	88	4.298	4.304	-0.006	84	24211	1052.3	
67 Dichlorobromomethane	83	4.389	4.389	0.0	89	158650	52.4	
68 2-Nitropropane	43	4.558	4.558	0.0	99	65787	95.6	
69 2-Chloroethyl vinyl ether	63	4.604	4.604	0.0	90	85311	53.3	
70 cis-1,3-Dichloropropene	75	4.717	4.717	0.0	91	179425	44.8	
71 4-Methyl-2-pentanone (MIBK)	58	4.836	4.841	-0.005	97	242335	241.1	
72 Toluene	91	4.983	4.983	0.0	93	535593	47.3	
73 trans-1,3-Dichloropropene	75	5.147	5.147	0.0	88	155489	45.6	
74 Ethyl methacrylate	69	5.215	5.215	0.0	89	155774	44.0	
75 1,1,2-Trichloroethane	97	5.299	5.294	0.005	85	118559	53.4	
76 Tetrachloroethene	166	5.418	5.418	0.0	91	157210	52.4	
77 1,3-Dichloropropane	76	5.435	5.435	0.0	86	196197	49.9	
78 2-Hexanone	58	5.503	5.503	0.0	91	231500	235.3	
79 n-Butyl acetate	43	5.605	5.605	0.0	82	162739	78.6	
80 Chlorodibromomethane	127	5.622	5.622	0.0	85	97797	52.9	
81 Ethylene Dibromide	107	5.724	5.724	0.0	98	123708	53.3	
82 Chlorobenzene	112	6.137	6.137	0.0	94	368513	50.5	
83 1,1,1,2-Tetrachloroethane	131	6.205	6.205	0.0	86	128801	52.2	
84 Ethylbenzene	91	6.227	6.227	0.0	98	592417	47.6	

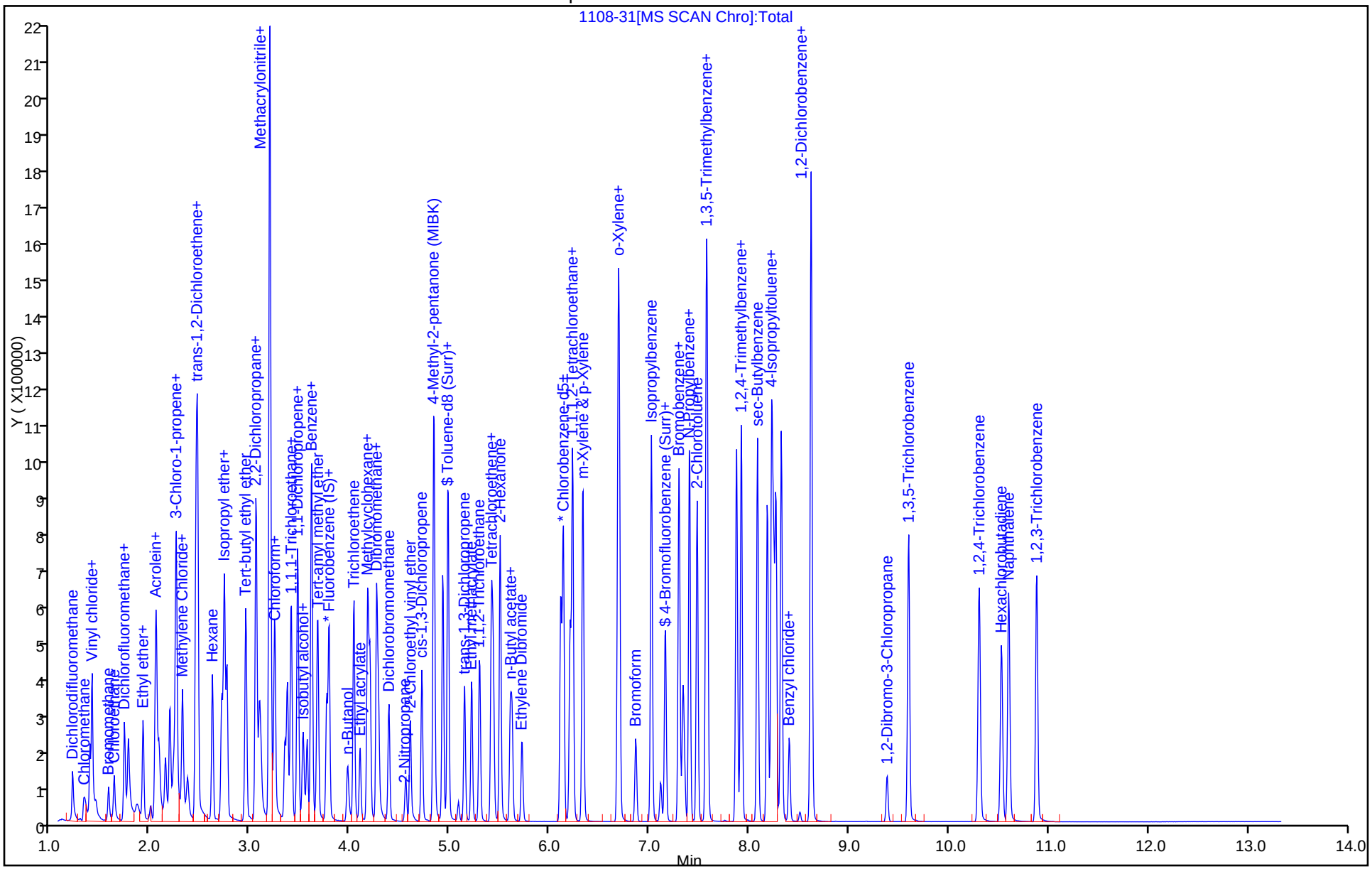
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
85 m-Xylene & p-Xylene	91	6.335	6.335	0.0	99	464159	46.0	
86 o-Xylene	91	6.685	6.685	0.0	93	489626	47.8	
87 Styrene	104	6.697	6.697	0.0	94	412824	48.7	
88 Bromoform	173	6.861	6.861	0.0	96	92105	51.8	
89 Isopropylbenzene	105	7.019	7.019	0.0	95	605582	50.3	
90 Cyclohexanone	55	7.110	7.110	0.0	91	37712	419.7	
92 1,1,2,2-Tetrachloroethane	83	7.296	7.296	0.0	66	130566	42.3	
91 Bromobenzene	77	7.296	7.296	0.0	83	239515	46.1	
93 1,2,3-Trichloropropane	110	7.336	7.336	0.0	78	48666	54.8	
94 trans-1,4-Dichloro-2-butene	53	7.353	7.353	0.0	61	19435	24.7	
95 N-Propylbenzene	91	7.398	7.398	0.0	97	690451	48.4	
96 2-Chlorotoluene	91	7.477	7.477	0.0	97	422657	46.4	
97 1,3,5-Trimethylbenzene	105	7.568	7.568	0.0	90	515195	49.7	
98 4-Chlorotoluene	91	7.579	7.579	0.0	98	497783	47.0	
99 tert-Butylbenzene	119	7.873	7.873	0.0	89	456355	52.6	
101 1,2,4-Trimethylbenzene	105	7.919	7.919	0.0	89	534702	48.6	
102 sec-Butylbenzene	105	8.083	8.083	0.0	94	634106	53.2	
103 1,3-Dichlorobenzene	146	8.179	8.179	0.0	98	344031	51.5	
104 4-Isopropyltoluene	119	8.224	8.224	0.0	88	565232	52.7	
105 1,4-Dichlorobenzene	146	8.269	8.269	0.0	90	343773	50.6	
106 1,2,3-Trimethylbenzene	105	8.320	8.320	0.0	0	545060	48.6	
107 Benzyl chloride	91	8.399	8.399	0.0	95	139522	26.5	
109 1,2-Dichlorobenzene	146	8.620	8.620	0.0	97	338782	52.4	
108 n-Butylbenzene	91	8.620	8.620	0.0	95	461444	52.4	
110 1,2-Dibromo-3-Chloropropane	157	9.384	9.384	0.0	79	35484	46.9	
111 1,3,5-Trichlorobenzene	180	9.599	9.599	0.0	96	269584	50.8	
112 1,2,4-Trichlorobenzene	180	10.306	10.306	0.0	92	252871	48.1	
113 Hexachlorobutadiene	225	10.526	10.526	0.0	87	119902	54.4	
114 Naphthalene	128	10.600	10.600	0.0	96	545892	47.2	
115 1,2,3-Trichlorobenzene	180	10.883	10.883	0.0	92	241569	51.7	
S 120 Xylenes, Total	1				0		93.8	
S 121 1,2-Dichloroethene, Total	1				0		93.4	

Report Date: 11-Nov-2013 13:20:08 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131108-28107.b\1108-31.D

Injection Date:	09-Nov-2013 21:32:30	Instrument ID:	HP45	Operator ID:	BJM HP45
Lims ID:	LCS	Lab Sample ID:		Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	8260HP45	Limit Group:	MSV 8260B ICAL		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 490-120093/4

Matrix: Water | Lab File ID: 1107-04.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/07/2013 11:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	302.9		5.00	2.66
71-43-2	Benzene	50.88		1.00	0.200
74-97-5	Bromochloromethane	53.11		1.00	0.150
75-27-4	Bromodichloromethane	52.55		1.00	0.170
75-25-2	Bromoform	52.92		1.00	0.290
74-83-9	Bromomethane	41.83		1.00	0.350
78-93-3	2-Butanone (MEK)	300.9		50.0	2.64
75-15-0	Carbon disulfide	51.52		1.00	0.220
56-23-5	Carbon tetrachloride	51.59		1.00	0.180
108-90-7	Chlorobenzene	51.10		1.00	0.180
124-48-1	Chlorodibromomethane	53.75		1.00	0.250
75-00-3	Chloroethane	52.99		1.00	0.360
67-66-3	Chloroform	48.04		1.00	0.230
74-87-3	Chloromethane	48.83		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	45.34		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	50.46		1.00	0.170
110-82-7	Cyclohexane	48.66		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	51.72		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	55.69		1.00	0.210
95-50-1	1,2-Dichlorobenzene	53.76		1.00	0.190
541-73-1	1,3-Dichlorobenzene	53.25		1.00	0.180
106-46-7	1,4-Dichlorobenzene	51.93		1.00	0.170
75-71-8	Dichlorodifluoromethane	56.92		1.00	0.170
75-34-3	1,1-Dichloroethane	47.89		1.00	0.240
107-06-2	1,2-Dichloroethane	51.75		1.00	0.200
75-35-4	1,1-Dichloroethene	58.21		1.00	0.250
78-87-5	1,2-Dichloropropane	48.10		1.00	0.250
100-41-4	Ethylbenzene	49.06		1.00	0.190
591-78-6	2-Hexanone	261.5		5.00	1.28
98-82-8	Isopropylbenzene	51.77		1.00	0.330
79-20-9	Methyl acetate	213.4		10.0	0.720
108-87-2	Methylcyclohexane	60.87		5.00	0.200
75-09-2	Methylene Chloride	53.42		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	263.8		5.00	0.810
1634-04-4	Methyl tert-butyl ether	49.94		1.00	0.170
103-65-1	N-Propylbenzene	51.13		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 490-120093/4

Matrix: Water | Lab File ID: 1107-04.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/07/2013 11:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	49.20		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	56.38		1.00	0.190
127-18-4	Tetrachloroethene	53.43		1.00	0.140
109-99-9	Tetrahydrofuran	90.83		5.00	2.84
108-88-3	Toluene	47.98		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	48.44		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	51.62		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	52.86		1.00	0.200
71-55-6	1,1,1-Trichloroethane	52.47		1.00	0.190
79-00-5	1,1,2-Trichloroethane	55.31		1.00	0.190
79-01-6	Trichloroethene	55.32		1.00	0.200
75-69-4	Trichlorofluoromethane	61.71		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	59.14		1.00	0.330
75-01-4	Vinyl chloride	54.20		1.00	0.180
1330-20-7	Xylenes, Total	96.47		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	94		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-04.D
Lims ID: LCSD Client ID:
Inject. Date: 07-Nov-2013 11:47:30 Dil. Factor: 1.0000
Sample Type: LCSD
Sample ID: LCSD
Misc. Info.: 490-0028020-004
Operator: BJM HP45 Instrument ID: HP45
Purge Vol: 5.000 mL ALS Bottle#: 4
Lims Batch ID: 120093 Lims Sample ID: 4
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP45\20131107-28020.b\8260HP45.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 08-Nov-2013 10:40:22 Calib Date: 10-Oct-2013 17:55:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK053

First Level Reviewer: matlockbe Date: 08-Nov-2013 10:40:28

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.789	3.789	0.0	98	348218	50.0	
* 2 Chlorobenzene-d5	117	6.114	6.114	0.0	82	295960	50.0	
* 3 1,4-Dichlorobenzene-d4	152	8.247	8.247	0.0	73	175581	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.343	3.348	-0.005	55	84035	48.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.569	3.569	0.0	89	96760	48.2	
$ 6 Toluene-d8 (Surr)	98	4.926	4.932	-0.006	83	355049	47.2	
$ 8 4-Bromofluorobenzene (Surr)	95	7.161	7.161	0.0	92	142421	48.1	
9 Dichlorodifluoromethane	85	1.216	1.215	0.001	86	103564	56.9	
10 Chloromethane	50	1.334	1.329	0.005	89	124213	48.8	
11 Vinyl chloride	62	1.391	1.391	0.0	79	140864	54.2	
12 Butadiene	54	1.414	1.413	0.001	86	147490	67.3	
13 Bromomethane	96	1.578	1.578	0.0	88	36939	41.8	
14 Chloroethane	64	1.634	1.634	0.0	95	82646	53.0	
15 Dichlorofluoromethane	67	1.736	1.736	0.0	76	224659	53.0	
16 Trichlorofluoromethane	101	1.776	1.776	0.0	82	181009	61.7	
17 Ethanol	45	1.866	1.866	0.0	97	53320	2884.6	
18 Ethyl ether	59	1.923	1.923	0.0	90	99857	51.4	
19 Acrolein	56	2.002	2.002	0.0	93	44213	127.7	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.047	2.047	0.0	82	105491	59.1	
21 1,1-Dichloroethene	96	2.058	2.058	0.0	90	110599	58.2	
22 Acetone	58	2.081	2.081	0.0	99	66012	302.9	
24 Isopropyl alcohol	45	2.149	2.149	0.0	83	65898	479.2	
23 Iodomethane	142	2.149	2.149	0.0	98	155478	65.4	
25 Carbon disulfide	76	2.194	2.194	0.0	98	330626	51.5	
26 Acetonitrile	40	2.234	2.234	0.0	100	116193	521.9	
27 3-Chloro-1-propene	76	2.251	2.251	0.0	98	100019	57.8	
28 Methyl acetate	43	2.256	2.256	0.0	97	497888	213.4	
29 Methylene Chloride	84	2.319	2.319	0.0	80	120003	53.4	
30 2-Methyl-2-propanol	59	2.370	2.369	0.001	98	105908	540.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
31 Acrylonitrile	53	2.454	2.454	0.0	99	528064	555.8	
32 Methyl tert-butyl ether	73	2.471	2.471	0.0	88	325798	49.9	
33 trans-1,2-Dichloroethene	61	2.471	2.471	0.0	62	153310	48.4	
34 Hexane	57	2.618	2.618	0.0	89	154210	57.9	
35 1,1-Dichloroethane	63	2.709	2.715	-0.006	94	199638	47.9	
36 Vinyl acetate	43	2.732	2.732	0.0	96	635830	105.9	
37 Isopropyl ether	45	2.737	2.737	0.0	77	360797	42.2	
38 2-Chloro-1,3-butadiene	53	2.766	2.765	0.001	99	162601	47.3	
39 Tert-butyl ethyl ether	59	2.952	2.952	0.0	95	345537	46.6	
41 cis-1,2-Dichloroethene	61	3.054	3.054	0.0	71	181667	45.3	
40 2,2-Dichloropropane	77	3.060	3.060	0.0	74	169227	51.3	
42 2-Butanone (MEK)	72	3.060	3.060	0.0	97	77472	300.9	
43 Ethyl acetate	45	3.088	3.088	0.0	69	32643	181.1	
44 Propionitrile	54	3.105	3.105	0.0	0	198426	557.0	
45 Methacrylonitrile	41	3.195	3.195	0.0	99	747376	487.9	
46 Chlorobromomethane	130	3.207	3.207	0.0	70	72363	53.1	
47 Tetrahydrofuran	42	3.241	3.241	0.0	57	71377	90.8	
48 Chloroform	83	3.246	3.246	0.0	73	192406	48.0	
49 1,1,1-Trichloroethane	97	3.371	3.371	0.0	86	174615	52.5	
50 Cyclohexane	56	3.410	3.410	0.0	90	195845	48.7	
51 1,1-Dichloropropene	75	3.473	3.473	0.0	96	146232	51.3	
52 Carbon tetrachloride	117	3.478	3.478	0.0	79	145756	51.6	
53 Isobutyl alcohol	43	3.529	3.529	0.0	97	135642	490.0	
55 Benzene	78	3.608	3.614	-0.006	95	482209	50.9	
56 1,2-Dichloroethane	62	3.620	3.620	0.0	89	160067	51.8	
57 Tert-amyl methyl ether	73	3.676	3.676	0.0	97	327339	49.0	
58 n-Heptane	43	3.761	3.761	0.0	98	138065	63.5	
59 n-Butanol	56	3.976	3.976	0.0	89	86752	1313.5	
60 Trichloroethene	130	4.038	4.038	0.0	91	135910	55.3	
61 Ethyl acrylate	55	4.101	4.100	0.001	92	164481	52.4	
62 Methylcyclohexane	83	4.174	4.174	0.0	90	193742	60.9	
63 1,2-Dichloropropane	63	4.197	4.197	0.0	94	121718	48.1	
64 Methyl methacrylate	41	4.265	4.265	0.0	97	228044	100.3	
65 Dibromomethane	93	4.282	4.282	0.0	82	75985	58.4	
66 1,4-Dioxane	88	4.299	4.298	0.001	82	28813	1242.0	
67 Dichlorobromomethane	83	4.389	4.389	0.0	89	159349	52.6	
68 2-Nitropropane	43	4.559	4.559	0.0	99	80914	117.4	
69 2-Chloroethyl vinyl ether	63	4.604	4.604	0.0	92	91138	58.0	
70 cis-1,3-Dichloropropene	75	4.717	4.717	0.0	90	198467	50.5	
71 4-Methyl-2-pentanone (MIBK)	58	4.842	4.842	0.0	96	260523	263.8	
72 Toluene	91	4.983	4.983	0.0	93	534104	48.0	
73 trans-1,3-Dichloropropene	75	5.147	5.147	0.0	89	172891	51.6	
74 Ethyl methacrylate	69	5.215	5.215	0.0	90	169515	48.7	
75 1,1,2-Trichloroethane	97	5.294	5.294	0.0	85	120740	55.3	
76 Tetrachloroethene	166	5.419	5.419	0.0	91	157659	53.4	
77 1,3-Dichloropropane	76	5.436	5.436	0.0	87	198670	51.4	
78 2-Hexanone	58	5.503	5.503	0.0	91	252805	261.5	
79 n-Butyl acetate	43	5.605	5.605	0.0	81	179426	86.5	
80 Chlorodibromomethane	127	5.622	5.622	0.0	84	97712	53.8	
81 Ethylene Dibromide	107	5.724	5.724	0.0	98	126986	55.7	
82 Chlorobenzene	112	6.137	6.137	0.0	95	366567	51.1	
83 1,1,1,2-Tetrachloroethane	131	6.205	6.205	0.0	88	128307	52.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
84 Ethylbenzene	91	6.228	6.227	0.001	98	600294	49.1	
85 m-Xylene & p-Xylene	91	6.335	6.335	0.0	100	469556	47.3	
86 o-Xylene	91	6.686	6.686	0.0	94	494209	49.1	
87 Styrene	104	6.697	6.697	0.0	94	409646	49.2	
88 Bromoform	173	6.861	6.861	0.0	96	92474	52.9	
89 Isopropylbenzene	105	7.020	7.019	0.001	95	612965	51.8	
90 Cyclohexanone	55	7.110	7.110	0.0	91	42593	474.1	
92 1,1,2,2-Tetrachloroethane	83	7.297	7.297	0.0	73	167320	56.4	
91 Bromobenzene	77	7.297	7.297	0.0	91	239557	47.9	
93 1,2,3-Trichloropropane	110	7.336	7.336	0.0	79	51099	59.8	
94 trans-1,4-Dichloro-2-butene	53	7.353	7.353	0.0	76	24255	32.0	
95 N-Propylbenzene	91	7.399	7.398	0.001	97	701943	51.1	
96 2-Chlorotoluene	91	7.478	7.478	0.0	97	425831	48.6	
97 1,3,5-Trimethylbenzene	105	7.568	7.568	0.0	87	517809	51.9	
98 4-Chlorotoluene	91	7.580	7.579	0.001	98	498394	49.0	
99 tert-Butylbenzene	119	7.874	7.874	0.0	89	455651	54.6	
101 1,2,4-Trimethylbenzene	105	7.919	7.919	0.0	89	539929	51.0	
102 sec-Butylbenzene	105	8.083	8.083	0.0	93	644055	56.2	
103 1,3-Dichlorobenzene	146	8.185	8.179	0.006	97	342298	53.3	
104 4-Isopropyltoluene	119	8.224	8.224	0.0	88	582571	56.5	
105 1,4-Dichlorobenzene	146	8.270	8.270	0.0	90	339293	51.9	
106 1,2,3-Trimethylbenzene	105	8.321	8.321	0.0	0	546654	50.7	
107 Benzyl chloride	91	8.400	8.400	0.0	95	334443	64.8	
109 1,2-Dichlorobenzene	146	8.620	8.620	0.0	97	334359	53.8	
108 n-Butylbenzene	91	8.620	8.620	0.0	95	493253	58.2	
110 1,2-Dibromo-3-Chloropropane	157	9.384	9.384	0.0	78	37714	51.7	
111 1,3,5-Trichlorobenzene	180	9.599	9.599	0.0	96	287012	56.3	
112 1,2,4-Trichlorobenzene	180	10.306	10.306	0.0	92	267252	52.9	
113 Hexachlorobutadiene	225	10.527	10.527	0.0	85	130345	61.4	
114 Naphthalene	128	10.600	10.600	0.0	97	589143	52.9	
115 1,2,3-Trichlorobenzene	180	10.883	10.883	0.0	92	242815	54.0	
S 120 Xylenes, Total	1				0		96.5	
S 121 1,2-Dichloroethene, Total	1				0		93.8	

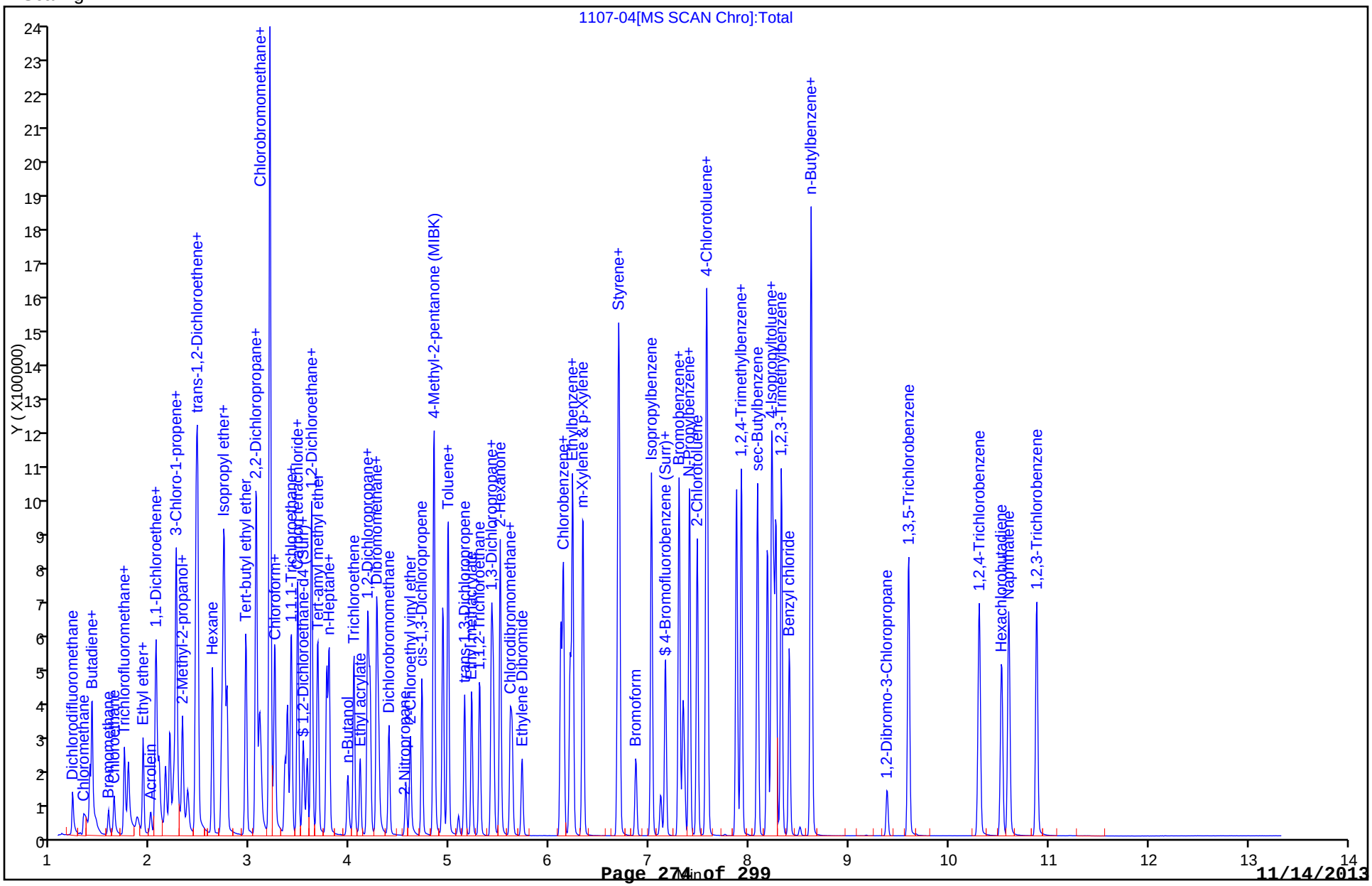
Report Date: 08-Nov-2013 10:40:29 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-04.D

Injection Date:	07-Nov-2013 11:47:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP45
Lims Batch ID:	120093	Lims Sample ID:	4
Operator ID:	BJM HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 490-120479/4

Matrix: Water | Lab File ID: 1108-32.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/09/2013 21:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120479 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	295.1		5.00	2.66
71-43-2	Benzene	51.62		1.00	0.200
74-97-5	Bromochloromethane	55.57		1.00	0.150
75-27-4	Bromodichloromethane	52.57		1.00	0.170
75-25-2	Bromoform	51.49		1.00	0.290
74-83-9	Bromomethane	55.08		1.00	0.350
78-93-3	2-Butanone (MEK)	278.6		50.0	2.64
75-15-0	Carbon disulfide	52.96		1.00	0.220
56-23-5	Carbon tetrachloride	53.49		1.00	0.180
108-90-7	Chlorobenzene	50.56		1.00	0.180
124-48-1	Chlorodibromomethane	53.05		1.00	0.250
75-00-3	Chloroethane	54.33		1.00	0.360
67-66-3	Chloroform	49.35		1.00	0.230
74-87-3	Chloromethane	38.45		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	43.97		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	44.89		1.00	0.170
110-82-7	Cyclohexane	48.42		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	47.04		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	52.76		1.00	0.210
95-50-1	1,2-Dichlorobenzene	52.74		1.00	0.190
541-73-1	1,3-Dichlorobenzene	51.85		1.00	0.180
106-46-7	1,4-Dichlorobenzene	50.66		1.00	0.170
75-71-8	Dichlorodifluoromethane	59.35		1.00	0.170
75-34-3	1,1-Dichloroethane	49.04		1.00	0.240
107-06-2	1,2-Dichloroethane	50.95		1.00	0.200
75-35-4	1,1-Dichloroethene	54.25		1.00	0.250
78-87-5	1,2-Dichloropropane	47.83		1.00	0.250
100-41-4	Ethylbenzene	47.55		1.00	0.190
591-78-6	2-Hexanone	234.0		5.00	1.28
98-82-8	Isopropylbenzene	50.35		1.00	0.330
79-20-9	Methyl acetate	193.4		10.0	0.720
108-87-2	Methylcyclohexane	57.88		5.00	0.200
75-09-2	Methylene Chloride	55.44		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	241.3		5.00	0.810
1634-04-4	Methyl tert-butyl ether	48.53		1.00	0.170
103-65-1	N-Propylbenzene	48.47		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 490-120479/4

Matrix: Water | Lab File ID: 1108-32.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/09/2013 21:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120479 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	48.51		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	41.73		1.00	0.190
127-18-4	Tetrachloroethene	52.67		1.00	0.140
109-99-9	Tetrahydrofuran	81.20		5.00	2.84
108-88-3	Toluene	47.28		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	49.66		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	45.37		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	49.05		1.00	0.200
71-55-6	1,1,1-Trichloroethane	52.58		1.00	0.190
79-00-5	1,1,2-Trichloroethane	52.87		1.00	0.190
79-01-6	Trichloroethene	63.92		1.00	0.200
75-69-4	Trichlorofluoromethane	58.76		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	59.94		1.00	0.330
75-01-4	Vinyl chloride	55.13		1.00	0.180
1330-20-7	Xylenes, Total	94.07		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		70-130
1868-53-7	Dibromofluoromethane (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		70-130
2037-26-5	Toluene-d8 (Surr)	93		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP45\20131108-28107.b\1108-32.D
Lims ID: LCSD Lab Sample ID:
Client ID:
Sample Type: LCSD
Inject. Date: 09-Nov-2013 21:59:30 ALS Bottle#: 32 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 490-0028107-004
Operator ID: BJM HP45 Instrument ID: HP45

Method: \\Nvlchrom\ChromData\HP45\20131108-28107.b\8260HP45.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 11-Nov-2013 13:20:16 Calib Date: 10-Oct-2013 17:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D

Column 1 : Detector MS SCAN
Process Host: XAWRK019

First Level Reviewer: matlockbe Date: 11-Nov-2013 13:20:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.789	3.789	0.0	99	347504	50.0	
* 2 Chlorobenzene-d5	117	6.108	6.108	0.0	83	301960	50.0	
* 3 1,4-Dichlorobenzene-d4	152	8.247	8.247	0.0	76	181582	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.342	3.342	0.0	55	85245	49.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.568	3.568	0.0	89	95160	47.5	
$ 6 Toluene-d8 (Surr)	98	4.926	4.926	0.0	83	358197	46.6	
$ 8 4-Bromofluorobenzene (Surr)	95	7.161	7.161	0.0	95	142898	46.6	
9 Dichlorodifluoromethane	85	1.215	1.215	0.0	87	107780	59.3	
10 Chloromethane	50	1.334	1.334	0.0	88	97630	38.5	
11 Vinyl chloride	62	1.391	1.391	0.0	80	142986	55.1	
12 Butadiene	54	1.413	1.413	0.0	86	140223	64.1	
13 Bromomethane	96	1.577	1.577	0.0	89	48613	55.1	
14 Chloroethane	64	1.634	1.634	0.0	95	84548	54.3	
15 Dichlorofluoromethane	67	1.736	1.736	0.0	76	228056	53.9	
16 Trichlorofluoromethane	101	1.775	1.775	0.0	86	172013	58.8	
17 Ethanol	45	1.866	1.866	0.0	98	47435	2571.5	
18 Ethyl ether	59	1.922	1.922	0.0	91	98476	50.8	
19 Acrolein	56	2.002	2.001	0.001	93	26088	75.1	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.047	2.047	0.0	82	106700	59.9	
21 1,1-Dichloroethene	96	2.058	2.058	0.0	90	102870	54.2	
22 Acetone	58	2.081	2.081	0.0	96	64182	295.1	
23 Iodomethane	142	2.149	2.149	0.0	97	130110	54.9	
24 Isopropyl alcohol	45	2.149	2.149	0.0	36	64959	473.3	
25 Carbon disulfide	76	2.194	2.194	0.0	98	339179	53.0	
26 Acetonitrile	40	2.233	2.239	-0.006	100	109613	492.8	
27 3-Chloro-1-propene	76	2.250	2.250	0.0	99	97733	56.6	
28 Methyl acetate	43	2.256	2.256	0.0	97	450180	193.4	
29 Methylene Chloride	84	2.318	2.318	0.0	80	124269	55.4	
30 2-Methyl-2-propanol	59	2.369	2.369	0.0	97	95589	488.4	
31 Acrylonitrile	53	2.454	2.454	0.0	99	497301	524.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
32 Methyl tert-butyl ether	73	2.471	2.471	0.0	89	315927	48.5	
33 trans-1,2-Dichloroethene	61	2.471	2.471	0.0	65	156856	49.7	
34 Hexane	57	2.618	2.618	0.0	89	120441	45.3	
35 1,1-Dichloroethane	63	2.709	2.709	0.0	85	204008	49.0	
36 Vinyl acetate	43	2.731	2.731	0.0	96	269798	45.0	
37 Isopropyl ether	45	2.737	2.737	0.0	87	358715	42.0	
38 2-Chloro-1,3-butadiene	53	2.765	2.765	0.0	99	165798	48.3	
39 Tert-butyl ethyl ether	59	2.952	2.952	0.0	95	343692	46.5	
40 2,2-Dichloropropane	77	3.054	3.054	0.0	70	109831	33.4	
41 cis-1,2-Dichloroethene	61	3.054	3.054	0.0	69	175824	44.0	
42 2-Butanone (MEK)	72	3.059	3.059	0.0	98	71573	278.6	
43 Ethyl acetate	45	3.088	3.088	0.0	70	29673	164.9	
44 Propionitrile	54	3.099	3.105	-0.006	0	184893	520.1	
45 Methacrylonitrile	41	3.195	3.195	0.0	100	710969	465.1	
46 Chlorobromomethane	130	3.206	3.206	0.0	64	75557	55.6	
47 Tetrahydrofuran	42	3.240	3.240	0.0	83	63676	81.2	
48 Chloroform	83	3.240	3.240	0.0	73	197239	49.3	
49 1,1,1-Trichloroethane	97	3.370	3.370	0.0	86	174607	52.6	
50 Cyclohexane	56	3.410	3.410	0.0	89	194495	48.4	
51 1,1-Dichloropropene	75	3.472	3.472	0.0	96	147121	51.7	
52 Carbon tetrachloride	117	3.478	3.478	0.0	79	150815	53.5	
53 Isobutyl alcohol	43	3.529	3.529	0.0	99	121019	438.1	
55 Benzene	78	3.608	3.608	0.0	95	488155	51.6	
56 1,2-Dichloroethane	62	3.619	3.619	0.0	90	157271	51.0	
57 Tert-amyl methyl ether	73	3.670	3.676	-0.006	97	314768	47.2	
58 n-Heptane	43	3.761	3.761	0.0	96	88053	40.6	
59 n-Butanol	56	3.976	3.976	0.0	89	76926	1166.2	
60 Trichloroethene	130	4.038	4.038	0.0	91	156719	63.9	
61 Ethyl acrylate	55	4.100	4.100	0.0	92	144886	46.2	
62 Methylcyclohexane	83	4.174	4.174	0.0	90	183832	57.9	
63 1,2-Dichloropropane	63	4.196	4.196	0.0	95	120771	47.8	
64 Methyl methacrylate	41	4.264	4.264	0.0	98	208747	92.0	
65 Dibromomethane	93	4.281	4.281	0.0	87	76069	58.6	
66 1,4-Dioxane	88	4.304	4.304	0.0	89	24284	1055.5	
67 Dichlorobromomethane	83	4.389	4.389	0.0	89	159077	52.6	
68 2-Nitropropane	43	4.558	4.558	0.0	99	65550	95.3	
69 2-Chloroethyl vinyl ether	63	4.604	4.604	0.0	92	85754	53.4	
70 cis-1,3-Dichloropropene	75	4.717	4.717	0.0	90	180151	44.9	
71 4-Methyl-2-pentanone (MIBK)	58	4.836	4.841	-0.005	85	243141	241.3	
72 Toluene	91	4.983	4.983	0.0	93	536985	47.3	
73 trans-1,3-Dichloropropene	75	5.147	5.147	0.0	89	155022	45.4	
74 Ethyl methacrylate	69	5.215	5.215	0.0	85	157036	44.2	
75 1,1,2-Trichloroethane	97	5.299	5.294	0.005	86	117739	52.9	
76 Tetrachloroethene	166	5.418	5.418	0.0	90	158559	52.7	
77 1,3-Dichloropropane	76	5.435	5.435	0.0	86	196326	49.8	
78 2-Hexanone	58	5.503	5.503	0.0	91	230834	234.0	
79 n-Butyl acetate	43	5.605	5.605	0.0	81	160863	77.7	
80 Chlorodibromomethane	127	5.622	5.622	0.0	85	98391	53.0	
81 Ethylene Dibromide	107	5.724	5.724	0.0	98	122725	52.8	
82 Chlorobenzene	112	6.137	6.137	0.0	96	370015	50.6	
83 1,1,1,2-Tetrachloroethane	131	6.205	6.205	0.0	88	128729	52.0	
84 Ethylbenzene	91	6.227	6.227	0.0	98	593585	47.5	

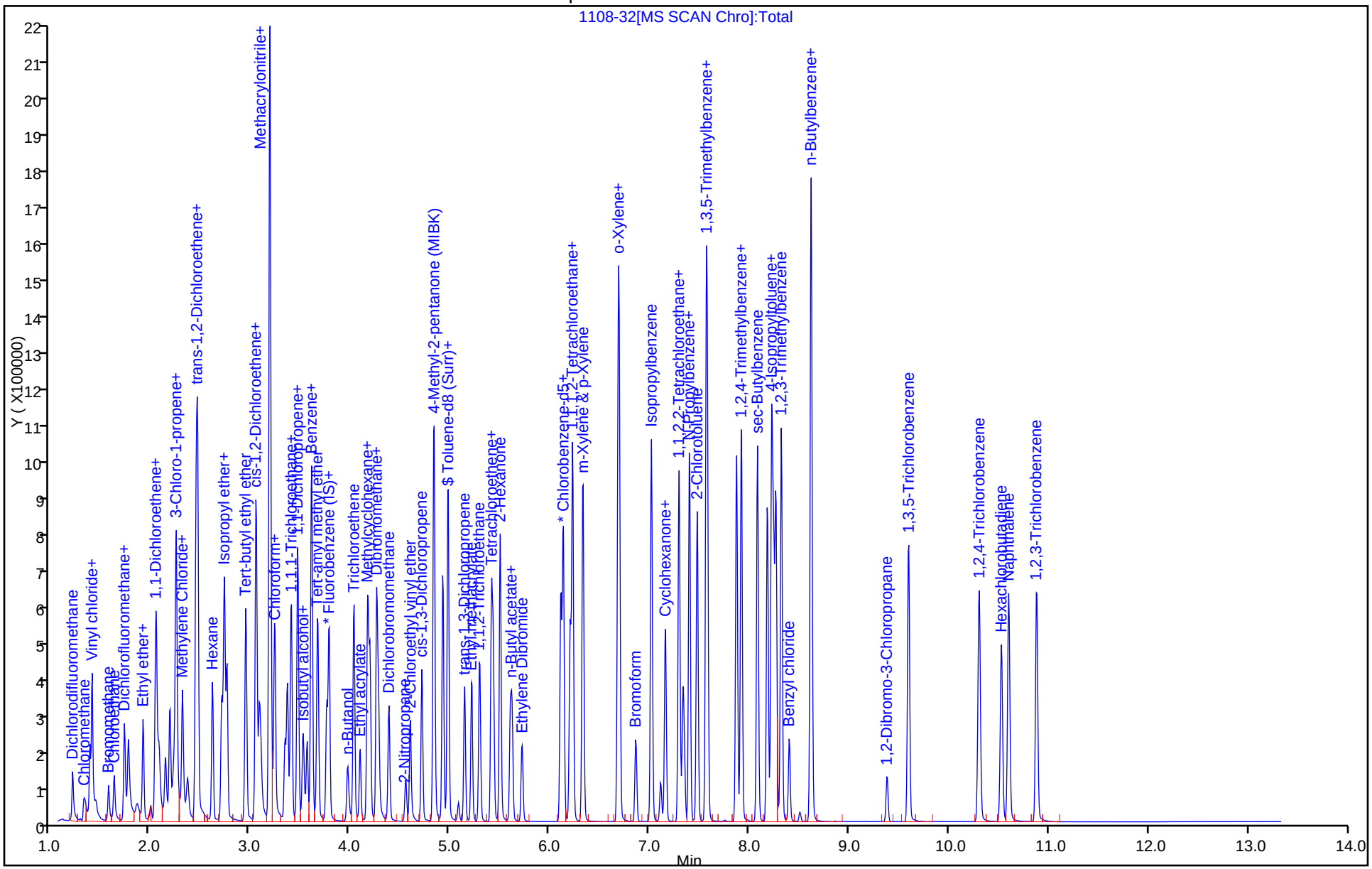
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
85 m-Xylene & p-Xylene	91	6.335	6.335	0.0	100	465789	46.0	
86 o-Xylene	91	6.685	6.685	0.0	94	493098	48.1	
87 Styrene	104	6.697	6.697	0.0	94	412124	48.5	
88 Bromoform	173	6.861	6.861	0.0	97	91806	51.5	
89 Isopropylbenzene	105	7.019	7.019	0.0	95	608213	50.3	
90 Cyclohexanone	55	7.110	7.110	0.0	90	38167	424.9	
91 Bromobenzene	77	7.296	7.296	0.0	96	239337	46.3	
92 1,1,2,2-Tetrachloroethane	83	7.296	7.296	0.0	66	128053	41.7	
93 1,2,3-Trichloropropane	110	7.336	7.336	0.0	79	48849	55.3	
94 trans-1,4-Dichloro-2-butene	53	7.353	7.353	0.0	61	19464	24.8	
95 N-Propylbenzene	91	7.398	7.398	0.0	97	688149	48.5	
96 2-Chlorotoluene	91	7.477	7.477	0.0	97	422332	46.6	
97 1,3,5-Trimethylbenzene	105	7.568	7.568	0.0	90	512445	49.7	
98 4-Chlorotoluene	91	7.579	7.579	0.0	98	495160	47.0	
99 tert-Butylbenzene	119	7.873	7.873	0.0	88	452936	52.5	
101 1,2,4-Trimethylbenzene	105	7.919	7.919	0.0	89	536066	49.0	
102 sec-Butylbenzene	105	8.083	8.083	0.0	94	637229	53.8	
103 1,3-Dichlorobenzene	146	8.185	8.179	0.005	97	344654	51.8	
104 4-Isopropyltoluene	119	8.224	8.224	0.0	88	566788	53.1	
105 1,4-Dichlorobenzene	146	8.269	8.269	0.0	90	342313	50.7	
106 1,2,3-Trimethylbenzene	105	8.320	8.320	0.0	0	543800	48.8	
107 Benzyl chloride	91	8.399	8.399	0.0	95	135972	25.8	
108 n-Butylbenzene	91	8.620	8.620	0.0	95	464472	53.0	
109 1,2-Dichlorobenzene	146	8.620	8.620	0.0	97	339186	52.7	
110 1,2-Dibromo-3-Chloropropane	157	9.384	9.384	0.0	80	35427	47.0	
111 1,3,5-Trichlorobenzene	180	9.599	9.599	0.0	96	270238	51.2	
112 1,2,4-Trichlorobenzene	180	10.306	10.306	0.0	92	256459	49.0	
113 Hexachlorobutadiene	225	10.526	10.526	0.0	84	121316	55.3	
114 Naphthalene	128	10.600	10.600	0.0	96	549629	47.7	
115 1,2,3-Trichlorobenzene	180	10.883	10.883	0.0	94	230429	49.5	
S 120 Xylenes, Total	1				0		94.1	
S 121 1,2-Dichloroethene, Total	1				0		93.6	

Report Date: 11-Nov-2013 13:20:17 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131108-28107.b\1108-32.D

Injection Date:	09-Nov-2013 21:59:30	Instrument ID:	HP45	Operator ID:	BJM HP45
Lims ID:	LCSD	Lab Sample ID:		Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	8260HP45	Limit Group:	MSV 8260B ICAL		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: GP-11D-GW-001 MS | Lab Sample ID: 490-39235-4 MS

Matrix: Water | Lab File ID: 1107-26.D

Analysis Method: 8260B | Date Collected: 10/28/2013 15:51

Sample wt/vol: 5(mL) | Date Analyzed: 11/07/2013 22:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	273.1		5.00	2.66
71-43-2	Benzene	52.62		1.00	0.200
74-97-5	Bromochloromethane	56.52		1.00	0.150
75-27-4	Bromodichloromethane	51.51		1.00	0.170
75-25-2	Bromoform	50.65		1.00	0.290
74-83-9	Bromomethane	29.27		1.00	0.350
78-93-3	2-Butanone (MEK)	305.5		50.0	2.64
75-15-0	Carbon disulfide	52.81		1.00	0.220
56-23-5	Carbon tetrachloride	51.03		1.00	0.180
108-90-7	Chlorobenzene	53.14		1.00	0.180
124-48-1	Chlorodibromomethane	53.15		1.00	0.250
75-00-3	Chloroethane	52.33		1.00	0.360
67-66-3	Chloroform	50.45		1.00	0.230
74-87-3	Chloromethane	47.92		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	53.71		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	49.60		1.00	0.170
110-82-7	Cyclohexane	49.80		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	52.22		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	56.44		1.00	0.210
95-50-1	1,2-Dichlorobenzene	53.98		1.00	0.190
541-73-1	1,3-Dichlorobenzene	54.14		1.00	0.180
106-46-7	1,4-Dichlorobenzene	53.02		1.00	0.170
75-71-8	Dichlorodifluoromethane	50.80		1.00	0.170
75-34-3	1,1-Dichloroethane	48.93		1.00	0.240
107-06-2	1,2-Dichloroethane	51.40		1.00	0.200
75-35-4	1,1-Dichloroethene	59.87		1.00	0.250
78-87-5	1,2-Dichloropropane	48.43		1.00	0.250
100-41-4	Ethylbenzene	50.42		1.00	0.190
591-78-6	2-Hexanone	263.4		5.00	1.28
98-82-8	Isopropylbenzene	52.76		1.00	0.330
79-20-9	Methyl acetate	215.1		10.0	0.720
108-87-2	Methylcyclohexane	62.61		5.00	0.200
75-09-2	Methylene Chloride	55.23		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	271.0		5.00	0.810
1634-04-4	Methyl tert-butyl ether	49.07		1.00	0.170
103-65-1	N-Propylbenzene	51.44		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: GP-11D-GW-001 MS | Lab Sample ID: 490-39235-4 MS

Matrix: Water | Lab File ID: 1107-26.D

Analysis Method: 8260B | Date Collected: 10/28/2013 15:51

Sample wt/vol: 5(mL) | Date Analyzed: 11/07/2013 22:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	50.38		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	56.18		1.00	0.190
127-18-4	Tetrachloroethene	56.73		1.00	0.140
109-99-9	Tetrahydrofuran	92.96		5.00	2.84
108-88-3	Toluene	49.84		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	50.97		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	50.00		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	52.02		1.00	0.200
71-55-6	1,1,1-Trichloroethane	53.88		1.00	0.190
79-00-5	1,1,2-Trichloroethane	56.36		1.00	0.190
79-01-6	Trichloroethene	57.24		1.00	0.200
75-69-4	Trichlorofluoromethane	64.60		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	64.37		1.00	0.330
75-01-4	Vinyl chloride	382.8		1.00	0.180
1330-20-7	Xylenes, Total	99.18		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		70-130
1868-53-7	Dibromofluoromethane (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	95		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-26.D
Lims ID: 490-39235-A-4 MS
Client ID: GP-11D-GW-001
Inject. Date: 07-Nov-2013 22:03:30
Dil. Factor: 1.0000
Sample Type: MS
Sample ID: 490-39235-A-4 MS
Misc. Info.: 490-0028020-026
Operator: BJM HP45
Instrument ID: HP45
Purge Vol: 5.000 mL
ALS Bottle#: 26
Lims Batch ID: 120093
Lims Sample ID: 26
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP45\20131107-28020.b\8260HP45.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 08-Nov-2013 10:40:22
Calib Date: 10-Oct-2013 17:55:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D
Limit Group: MSV 8260B ICAL
Integrator: RTE
ID Type: Deconvolution ID
Column Type:
Column Dia:
Process Host: XAWRK053

First Level Reviewer: matlockbe
Date: 08-Nov-2013 10:46:11

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.789	3.789	0.0	98	338550	50.0	
* 2 Chlorobenzene-d5	117	6.109	6.114	-0.005	83	286901	50.0	
* 3 1,4-Dichlorobenzene-d4	152	8.247	8.247	0.0	75	174331	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.342	3.348	-0.006	55	82631	48.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.569	3.569	0.0	89	93869	48.0	
$ 6 Toluene-d8 (Surr)	98	4.926	4.932	-0.006	83	344836	47.3	
$ 8 4-Bromofluorobenzene (Surr)	95	7.155	7.161	-0.006	96	137406	46.7	
9 Dichlorodifluoromethane	85	1.215	1.215	0.0	86	89835	50.8	
10 Chloromethane	50	1.323	1.329	-0.006	89	118515	47.9	
11 Vinyl chloride	62	1.391	1.391	0.0	83	967137	382.8	E
12 Butadiene	54	1.408	1.413	-0.005	85	137400	64.5	
13 Bromomethane	96	1.572	1.578	-0.006	88	25071	29.3	
14 Chloroethane	64	1.634	1.634	0.0	95	79340	52.3	
15 Dichlorofluoromethane	67	1.736	1.736	0.0	79	220937	53.6	
16 Trichlorofluoromethane	101	1.775	1.776	-0.001	83	184213	64.6	
17 Ethanol	45	1.866	1.866	0.0	97	60046	3341.3	
18 Ethyl ether	59	1.922	1.923	-0.001	91	95395	50.5	
19 Acrolein	56	1.996	2.002	-0.006	93	42540	126.4	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.047	2.047	0.0	82	111625	64.4	
21 1,1-Dichloroethene	96	2.058	2.058	0.0	90	110610	59.9	
22 Acetone	58	2.081	2.081	0.0	99	57857	273.1	
24 Isopropyl alcohol	45	2.149	2.149	0.0	83	68229	510.3	
23 Iodomethane	142	2.149	2.149	0.0	98	120972	52.4	
25 Carbon disulfide	76	2.188	2.194	-0.006	98	329536	52.8	
26 Acetonitrile	40	2.234	2.234	0.0	99	116894	540.4	
27 3-Chloro-1-propene	76	2.251	2.251	0.0	99	100538	59.8	
28 Methyl acetate	43	2.256	2.256	0.0	97	487825	215.1	
29 Methylene Chloride	84	2.318	2.319	-0.001	79	120612	55.2	
30 2-Methyl-2-propanol	59	2.369	2.369	0.0	97	108885	571.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
31 Acrylonitrile	53	2.454	2.454	0.0	99	501124	542.6	
32 Methyl tert-butyl ether	73	2.471	2.471	0.0	89	311202	49.1	
33 trans-1,2-Dichloroethene	61	2.471	2.471	0.0	88	156825	51.0	
34 Hexane	57	2.618	2.618	0.0	88	153809	59.4	
35 1,1-Dichloroethane	63	2.714	2.715	-0.001	85	198315	48.9	
36 Vinyl acetate	43	2.726	2.732	-0.006	97	623495	106.9	
37 Isopropyl ether	45	2.737	2.737	0.0	87	348290	41.9	
38 2-Chloro-1,3-butadiene	53	2.765	2.765	0.0	100	161959	48.5	
39 Tert-butyl ethyl ether	59	2.952	2.952	0.0	94	328765	45.6	
41 cis-1,2-Dichloroethene	61	3.054	3.054	0.0	70	209255	53.7	
40 2,2-Dichloropropane	77	3.054	3.060	-0.006	70	163668	51.0	
42 2-Butanone (MEK)	72	3.060	3.060	0.0	97	76476	305.5	
43 Ethyl acetate	45	3.088	3.088	0.0	72	32115	183.2	
44 Propionitrile	54	3.105	3.105	0.0	0	197713	570.8	
45 Methacrylonitrile	41	3.195	3.195	0.0	100	740960	497.6	
46 Chlorobromomethane	130	3.207	3.207	0.0	63	74880	56.5	
47 Tetrahydrofuran	42	3.241	3.241	0.0	86	71021	93.0	
48 Chloroform	83	3.246	3.246	0.0	73	196427	50.4	
49 1,1,1-Trichloroethane	97	3.371	3.371	0.0	89	174329	53.9	
50 Cyclohexane	56	3.410	3.410	0.0	89	194872	49.8	
51 1,1-Dichloropropene	75	3.472	3.473	-0.001	96	147848	53.4	
52 Carbon tetrachloride	117	3.478	3.478	0.0	80	140164	51.0	
53 Isobutyl alcohol	43	3.529	3.529	0.0	98	135372	503.0	
55 Benzene	78	3.608	3.614	-0.006	95	484807	52.6	
56 1,2-Dichloroethane	62	3.620	3.620	0.0	90	154564	51.4	
57 Tert-amyl methyl ether	73	3.670	3.676	-0.006	97	307212	47.3	
58 n-Heptane	43	3.761	3.761	0.0	96	133083	63.0	
59 n-Butanol	56	3.976	3.976	0.0	90	86691	1350.3	
60 Trichloroethene	130	4.038	4.038	0.0	91	136726	57.2	
61 Ethyl acrylate	55	4.100	4.100	0.0	92	156519	51.2	
62 Methylcyclohexane	83	4.174	4.174	0.0	90	193752	62.6	
63 1,2-Dichloropropane	63	4.197	4.197	0.0	93	119146	48.4	
64 Methyl methacrylate	41	4.264	4.265	-0.001	97	219358	99.3	
65 Dibromomethane	93	4.281	4.282	-0.001	85	75963	60.0	
66 1,4-Dioxane	88	4.298	4.298	0.0	65	30368	1342.9	
67 Dichlorobromomethane	83	4.389	4.389	0.0	89	151841	51.5	
68 2-Nitropropane	43	4.559	4.559	0.0	99	78531	117.2	
70 cis-1,3-Dichloropropene	75	4.717	4.717	0.0	91	189100	49.6	
71 4-Methyl-2-pentanone (MIBK)	58	4.836	4.842	-0.006	96	259452	271.0	
72 Toluene	91	4.977	4.983	-0.006	93	537841	49.8	
73 trans-1,3-Dichloropropene	75	5.147	5.147	0.0	88	162334	50.0	
74 Ethyl methacrylate	69	5.215	5.215	0.0	89	162677	48.2	
75 1,1,2-Trichloroethane	97	5.294	5.294	0.0	86	119263	56.4	
76 Tetrachloroethene	166	5.418	5.419	-0.001	91	162261	56.7	
77 1,3-Dichloropropane	76	5.435	5.436	-0.001	86	194823	52.0	
78 2-Hexanone	58	5.503	5.503	0.0	90	246891	263.4	
79 n-Butyl acetate	43	5.605	5.605	0.0	81	173302	85.9	
80 Chlorodibromomethane	127	5.622	5.622	0.0	85	93662	53.2	
81 Ethylene Dibromide	107	5.724	5.724	0.0	98	124759	56.4	
82 Chlorobenzene	112	6.137	6.137	0.0	95	369481	53.1	
83 1,1,1,2-Tetrachloroethane	131	6.205	6.205	0.0	88	124927	53.1	
84 Ethylbenzene	91	6.227	6.227	0.0	97	598070	50.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
85 m-Xylene & p-Xylene	91	6.335	6.335	0.0	99	473615	49.2	
86 o-Xylene	91	6.686	6.686	0.0	94	486936	49.9	
87 Styrene	104	6.697	6.697	0.0	94	406674	50.4	
88 Bromoform	173	6.861	6.861	0.0	95	85808	50.7	
89 Isopropylbenzene	105	7.019	7.019	0.0	95	605549	52.8	
90 Cyclohexanone	55	7.110	7.110	0.0	90	43278	495.9	
92 1,1,2,2-Tetrachloroethane	83	7.297	7.297	0.0	74	165541	56.2	
91 Bromobenzene	77	7.297	7.297	0.0	95	237658	47.9	
93 1,2,3-Trichloropropane	110	7.336	7.336	0.0	79	50897	60.0	
94 trans-1,4-Dichloro-2-butene	53	7.353	7.353	0.0	67	20789	27.6	
95 N-Propylbenzene	91	7.398	7.398	0.0	97	701105	51.4	
96 2-Chlorotoluene	91	7.478	7.478	0.0	97	420378	48.3	
97 1,3,5-Trimethylbenzene	105	7.568	7.568	0.0	90	517105	52.2	
98 4-Chlorotoluene	91	7.579	7.579	0.0	98	498302	49.3	
99 tert-Butylbenzene	119	7.874	7.874	0.0	88	456064	55.0	
101 1,2,4-Trimethylbenzene	105	7.919	7.919	0.0	90	546733	52.1	
102 sec-Butylbenzene	105	8.083	8.083	0.0	90	647663	56.9	
103 1,3-Dichlorobenzene	146	8.179	8.179	0.0	98	345497	54.1	
104 4-Isopropyltoluene	119	8.224	8.224	0.0	88	585263	57.1	
105 1,4-Dichlorobenzene	146	8.270	8.270	0.0	90	343963	53.0	
106 1,2,3-Trimethylbenzene	105	8.320	8.321	-0.001	0	542930	50.7	
107 Benzyl chloride	91	8.400	8.400	0.0	95	306650	61.2	
109 1,2-Dichlorobenzene	146	8.620	8.620	0.0	98	333343	54.0	
108 n-Butylbenzene	91	8.620	8.620	0.0	95	493121	58.6	
110 1,2-Dibromo-3-Chloropropane	157	9.384	9.384	0.0	81	37818	52.2	
111 1,3,5-Trichlorobenzene	180	9.599	9.599	0.0	96	279215	55.1	
112 1,2,4-Trichlorobenzene	180	10.306	10.306	0.0	92	261138	52.0	
113 Hexachlorobutadiene	225	10.527	10.527	0.0	87	123975	58.8	
114 Naphthalene	128	10.600	10.600	0.0	97	555604	50.2	
115 1,2,3-Trichlorobenzene	180	10.883	10.883	0.0	92	227733	51.0	
S 120 Xylenes, Total	1				0		99.2	
S 121 1,2-Dichloroethene, Total	1				0		104.7	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

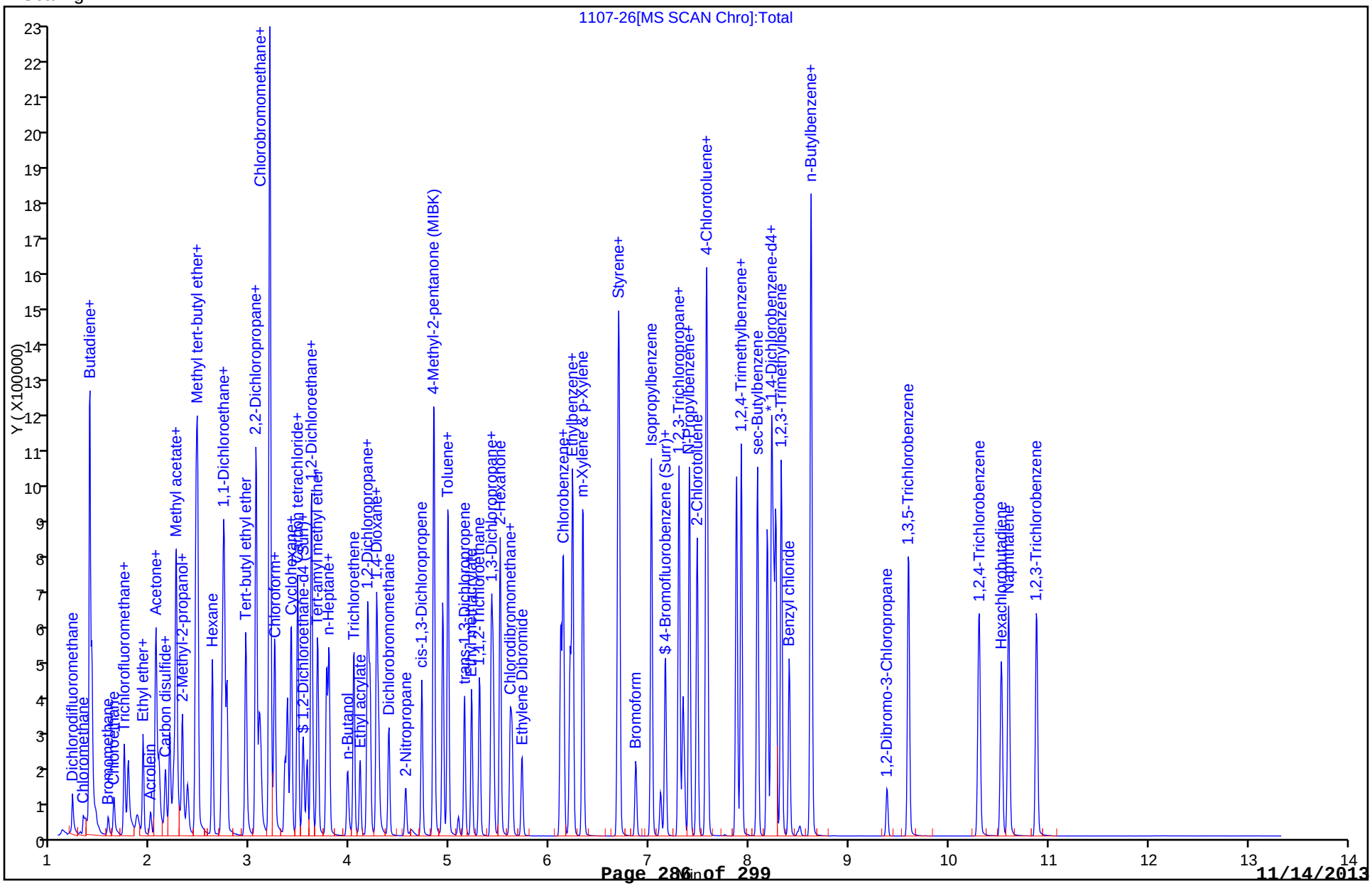
Report Date: 08-Nov-2013 10:46:12 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-26.D

Injection Date:	07-Nov-2013 22:03:30	Limit Group:	MSV 8260B ICAL
Client ID:	GP-11D-GW-001	Instrument ID:	HP45
Lims Batch ID:	120093	Lims Sample ID:	26
Operator ID:	BJM HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: GP-11D-GW-001 MSD | Lab Sample ID: 490-39235-4 MSD

Matrix: Water | Lab File ID: 1107-27.D

Analysis Method: 8260B | Date Collected: 10/28/2013 15:51

Sample wt/vol: 5(mL) | Date Analyzed: 11/07/2013 22:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	299.3		5.00	2.66
71-43-2	Benzene	55.40		1.00	0.200
74-97-5	Bromochloromethane	57.66		1.00	0.150
75-27-4	Bromodichloromethane	55.48		1.00	0.170
75-25-2	Bromoform	53.77		1.00	0.290
74-83-9	Bromomethane	40.23		1.00	0.350
78-93-3	2-Butanone (MEK)	314.6		50.0	2.64
75-15-0	Carbon disulfide	55.79		1.00	0.220
56-23-5	Carbon tetrachloride	54.09		1.00	0.180
108-90-7	Chlorobenzene	55.72		1.00	0.180
124-48-1	Chlorodibromomethane	56.23		1.00	0.250
75-00-3	Chloroethane	55.68		1.00	0.360
67-66-3	Chloroform	52.30		1.00	0.230
74-87-3	Chloromethane	50.49		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	56.12		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	52.26		1.00	0.170
110-82-7	Cyclohexane	52.00		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	54.43		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	59.20		1.00	0.210
95-50-1	1,2-Dichlorobenzene	56.76		1.00	0.190
541-73-1	1,3-Dichlorobenzene	56.71		1.00	0.180
106-46-7	1,4-Dichlorobenzene	55.45		1.00	0.170
75-71-8	Dichlorodifluoromethane	53.32		1.00	0.170
75-34-3	1,1-Dichloroethane	51.80		1.00	0.240
107-06-2	1,2-Dichloroethane	55.35		1.00	0.200
75-35-4	1,1-Dichloroethene	63.43		1.00	0.250
78-87-5	1,2-Dichloropropane	51.21		1.00	0.250
100-41-4	Ethylbenzene	52.75		1.00	0.190
591-78-6	2-Hexanone	274.6		5.00	1.28
98-82-8	Isopropylbenzene	55.87		1.00	0.330
79-20-9	Methyl acetate	224.0		10.0	0.720
108-87-2	Methylcyclohexane	66.21		5.00	0.200
75-09-2	Methylene Chloride	57.89		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	282.2		5.00	0.810
1634-04-4	Methyl tert-butyl ether	51.52		1.00	0.170
103-65-1	N-Propylbenzene	53.99		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39235-1

SDG No.:

Client Sample ID: GP-11D-GW-001 MSD | Lab Sample ID: 490-39235-4 MSD

Matrix: Water | Lab File ID: 1107-27.D

Analysis Method: 8260B | Date Collected: 10/28/2013 15:51

Sample wt/vol: 5(mL) | Date Analyzed: 11/07/2013 22:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	52.64		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	59.98		1.00	0.190
127-18-4	Tetrachloroethene	59.50		1.00	0.140
109-99-9	Tetrahydrofuran	95.07		5.00	2.84
108-88-3	Toluene	52.52		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	52.83		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	52.82		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	54.41		1.00	0.200
71-55-6	1,1,1-Trichloroethane	56.36		1.00	0.190
79-00-5	1,1,2-Trichloroethane	58.72		1.00	0.190
79-01-6	Trichloroethene	60.19		1.00	0.200
75-69-4	Trichlorofluoromethane	65.65		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	65.62		1.00	0.330
75-01-4	Vinyl chloride	387.9		1.00	0.180
1330-20-7	Xylenes, Total	104.1		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		70-130
1868-53-7	Dibromofluoromethane (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-130
2037-26-5	Toluene-d8 (Surr)	95		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-27.D
Lims ID: 490-39235-A-4 MSD Client ID: GP-11D-GW-001
Inject. Date: 07-Nov-2013 22:31:30 Dil. Factor: 1.0000
Sample Type: MSD
Sample ID: 490-39235-A-4 MSD
Misc. Info.: 490-0028020-027
Operator: BJM HP45 Instrument ID: HP45
Purge Vol: 5.000 mL ALS Bottle#: 27
Lims Batch ID: 120093 Lims Sample ID: 27
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP45\20131107-28020.b\8260HP45.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 08-Nov-2013 10:40:22 Calib Date: 10-Oct-2013 17:55:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP45\20131010-26494.b\1010-15.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK053

First Level Reviewer: matlockbe Date: 08-Nov-2013 10:46:18

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.790	3.789	0.001	98	330355	50.0	
* 2 Chlorobenzene-d5	117	6.109	6.114	-0.005	83	280147	50.0	
* 3 1,4-Dichlorobenzene-d4	152	8.247	8.247	0.0	76	170068	50.0	
$ 4 Dibromofluoromethane (Surr)	111	3.343	3.348	-0.005	55	80659	48.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.569	3.569	0.0	89	92292	48.4	
$ 6 Toluene-d8 (Surr)	98	4.927	4.932	-0.005	83	336689	47.3	
$ 8 4-Bromofluorobenzene (Surr)	95	7.161	7.161	0.0	96	134049	46.7	
9 Dichlorodifluoromethane	85	1.216	1.215	0.001	87	92025	53.3	
10 Chloromethane	50	1.329	1.329	0.0	89	121859	50.5	
11 Vinyl chloride	62	1.391	1.391	0.0	83	956247	387.9	E
12 Butadiene	54	1.408	1.413	-0.005	79	139751	67.2	
13 Bromomethane	96	1.572	1.578	-0.006	88	33699	40.2	
14 Chloroethane	64	1.634	1.634	0.0	95	82382	55.7	
15 Dichlorofluoromethane	67	1.736	1.736	0.0	79	227076	56.5	
16 Trichlorofluoromethane	101	1.776	1.776	0.0	83	182678	65.6	
17 Ethanol	45	1.866	1.866	0.0	100	57242	3264.3	
18 Ethyl ether	59	1.923	1.923	0.0	91	98253	53.3	
19 Acrolein	56	1.996	2.002	-0.006	95	43842	133.5	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.047	2.047	0.0	83	111043	65.6	
21 1,1-Dichloroethene	96	2.058	2.058	0.0	91	114341	63.4	
22 Acetone	58	2.081	2.081	0.0	98	61887	299.3	
24 Isopropyl alcohol	45	2.149	2.149	0.0	82	68745	526.9	
23 Iodomethane	142	2.149	2.149	0.0	97	132356	58.8	
25 Carbon disulfide	76	2.189	2.194	-0.005	98	339713	55.8	
26 Acetonitrile	40	2.234	2.234	0.0	99	116701	553.1	
27 3-Chloro-1-propene	76	2.251	2.251	0.0	99	98026	59.7	
28 Methyl acetate	43	2.256	2.256	0.0	97	495822	224.0	
29 Methylene Chloride	84	2.319	2.319	0.0	80	123309	57.9	
30 2-Methyl-2-propanol	59	2.370	2.369	0.001	98	102209	549.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
31 Acrylonitrile	53	2.454	2.454	0.0	99	510131	566.0	
32 Methyl tert-butyl ether	73	2.466	2.471	-0.005	89	318882	51.5	
33 trans-1,2-Dichloroethene	61	2.471	2.471	0.0	66	158634	52.8	
34 Hexane	57	2.619	2.618	0.001	89	154976	61.3	
35 1,1-Dichloroethane	63	2.709	2.715	-0.006	85	204851	51.8	
36 Vinyl acetate	43	2.726	2.732	-0.006	97	644589	113.2	
37 Isopropyl ether	45	2.737	2.737	0.0	74	356509	43.9	
38 2-Chloro-1,3-butadiene	53	2.766	2.765	0.001	100	163821	50.2	
39 Tert-butyl ethyl ether	59	2.952	2.952	0.0	95	335163	47.7	
41 cis-1,2-Dichloroethene	61	3.054	3.054	0.0	70	213323	56.1	
40 2,2-Dichloropropane	77	3.054	3.060	-0.006	69	167288	53.5	
42 2-Butanone (MEK)	72	3.060	3.060	0.0	97	76843	314.6	
43 Ethyl acetate	45	3.088	3.088	0.0	73	30484	178.2	
44 Propionitrile	54	3.105	3.105	0.0	0	199996	591.8	
45 Methacrylonitrile	41	3.196	3.195	0.001	99	749335	515.7	
46 Chlorobromomethane	130	3.207	3.207	0.0	70	74540	57.7	
47 Tetrahydrofuran	42	3.241	3.241	0.0	56	70881	95.1	
48 Chloroform	83	3.241	3.246	-0.005	72	198729	52.3	
49 1,1,1-Trichloroethane	97	3.371	3.371	0.0	86	177936	56.4	
50 Cyclohexane	56	3.405	3.410	-0.005	87	198586	52.0	
51 1,1-Dichloropropene	75	3.473	3.473	0.0	96	150480	55.7	
52 Carbon tetrachloride	117	3.478	3.478	0.0	81	144995	54.1	
53 Isobutyl alcohol	43	3.529	3.529	0.0	98	134598	512.5	
55 Benzene	78	3.608	3.614	-0.006	95	498071	55.4	
56 1,2-Dichloroethane	62	3.620	3.620	0.0	89	162406	55.4	
57 Tert-amyl methyl ether	73	3.671	3.676	-0.005	97	315314	49.8	
58 n-Heptane	43	3.761	3.761	0.0	97	139965	67.9	
59 n-Butanol	56	3.976	3.976	0.0	89	86220	1376.5	
60 Trichloroethene	130	4.038	4.038	0.0	91	140296	60.2	
61 Ethyl acrylate	55	4.101	4.100	0.001	92	161828	54.3	
62 Methylcyclohexane	83	4.174	4.174	0.0	90	199936	66.2	
63 1,2-Dichloropropane	63	4.197	4.197	0.0	94	122920	51.2	
64 Methyl methacrylate	41	4.265	4.265	0.0	97	222743	103.3	
65 Dibromomethane	93	4.282	4.282	0.0	85	77069	62.4	
66 1,4-Dioxane	88	4.299	4.298	0.001	87	28382	1288.0	
67 Dichlorobromomethane	83	4.389	4.389	0.0	89	159585	55.5	
68 2-Nitropropane	43	4.559	4.559	0.0	99	80216	122.7	
70 cis-1,3-Dichloropropene	75	4.717	4.717	0.0	91	194558	52.3	
71 4-Methyl-2-pentanone (MIBK)	58	4.836	4.842	-0.006	91	263778	282.2	
72 Toluene	91	4.977	4.983	-0.006	92	553421	52.5	
73 trans-1,3-Dichloropropene	75	5.147	5.147	0.0	88	167452	52.8	
74 Ethyl methacrylate	69	5.215	5.215	0.0	89	166193	50.4	
75 1,1,2-Trichloroethane	97	5.294	5.294	0.0	86	121331	58.7	
76 Tetrachloroethene	166	5.419	5.419	0.0	91	166189	59.5	
77 1,3-Dichloropropane	76	5.436	5.436	0.0	86	198870	54.4	
78 2-Hexanone	58	5.504	5.503	0.001	90	251307	274.6	
79 n-Butyl acetate	43	5.605	5.605	0.0	82	177593	90.2	
80 Chlorodibromomethane	127	5.622	5.622	0.0	85	96762	56.2	
81 Ethylene Dibromide	107	5.724	5.724	0.0	98	127766	59.2	
82 Chlorobenzene	112	6.137	6.137	0.0	94	378318	55.7	
83 1,1,1,2-Tetrachloroethane	131	6.205	6.205	0.0	86	129650	56.5	
84 Ethylbenzene	91	6.228	6.227	0.001	97	610937	52.7	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
85 m-Xylene & p-Xylene	91	6.329	6.335	-0.006	99	485018	51.6	
86 o-Xylene	91	6.686	6.686	0.0	94	499106	52.4	
87 Styrene	104	6.697	6.697	0.0	94	414928	52.6	
88 Bromoform	173	6.861	6.861	0.0	97	88938	53.8	
89 Isopropylbenzene	105	7.020	7.019	0.001	95	626153	55.9	
90 Cyclohexanone	55	7.110	7.110	0.0	91	43424	510.1	
92 1,1,2,2-Tetrachloroethane	83	7.297	7.297	0.0	74	172404	60.0	
91 Bromobenzene	77	7.297	7.297	0.0	92	244712	50.5	
93 1,2,3-Trichloropropane	110	7.336	7.336	0.0	79	51744	62.5	
94 trans-1,4-Dichloro-2-butene	53	7.353	7.353	0.0	76	23358	31.8	
95 N-Propylbenzene	91	7.399	7.398	0.001	97	717829	54.0	
96 2-Chlorotoluene	91	7.478	7.478	0.0	97	429210	50.5	
97 1,3,5-Trimethylbenzene	105	7.568	7.568	0.0	91	530942	54.9	
98 4-Chlorotoluene	91	7.580	7.579	0.001	98	508459	51.6	
99 tert-Butylbenzene	119	7.874	7.874	0.0	88	466619	57.7	
101 1,2,4-Trimethylbenzene	105	7.919	7.919	0.0	89	554260	54.1	
102 sec-Butylbenzene	105	8.083	8.083	0.0	94	660876	59.5	
103 1,3-Dichlorobenzene	146	8.179	8.179	0.0	97	353065	56.7	
104 4-Isopropyltoluene	119	8.225	8.224	0.001	88	594658	59.5	
105 1,4-Dichlorobenzene	146	8.270	8.270	0.0	90	350932	55.4	
106 1,2,3-Trimethylbenzene	105	8.321	8.321	0.0	0	557118	53.3	
107 Benzyl chloride	91	8.400	8.400	0.0	95	309260	63.3	
109 1,2-Dichlorobenzene	146	8.621	8.620	0.0	98	341933	56.8	
108 n-Butylbenzene	91	8.621	8.620	0.0	95	506322	61.7	
110 1,2-Dibromo-3-Chloropropane	157	9.384	9.384	0.0	80	38475	54.4	
111 1,3,5-Trichlorobenzene	180	9.599	9.599	0.0	93	282314	57.1	
112 1,2,4-Trichlorobenzene	180	10.306	10.306	0.0	92	266452	54.4	
113 Hexachlorobutadiene	225	10.527	10.527	0.0	85	128910	62.7	
114 Naphthalene	128	10.600	10.600	0.0	97	575745	53.4	
115 1,2,3-Trichlorobenzene	180	10.883	10.883	0.0	94	238638	54.8	
S 120 Xylenes, Total	1				0		104.1	
S 121 1,2-Dichloroethene, Total	1				0		108.9	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

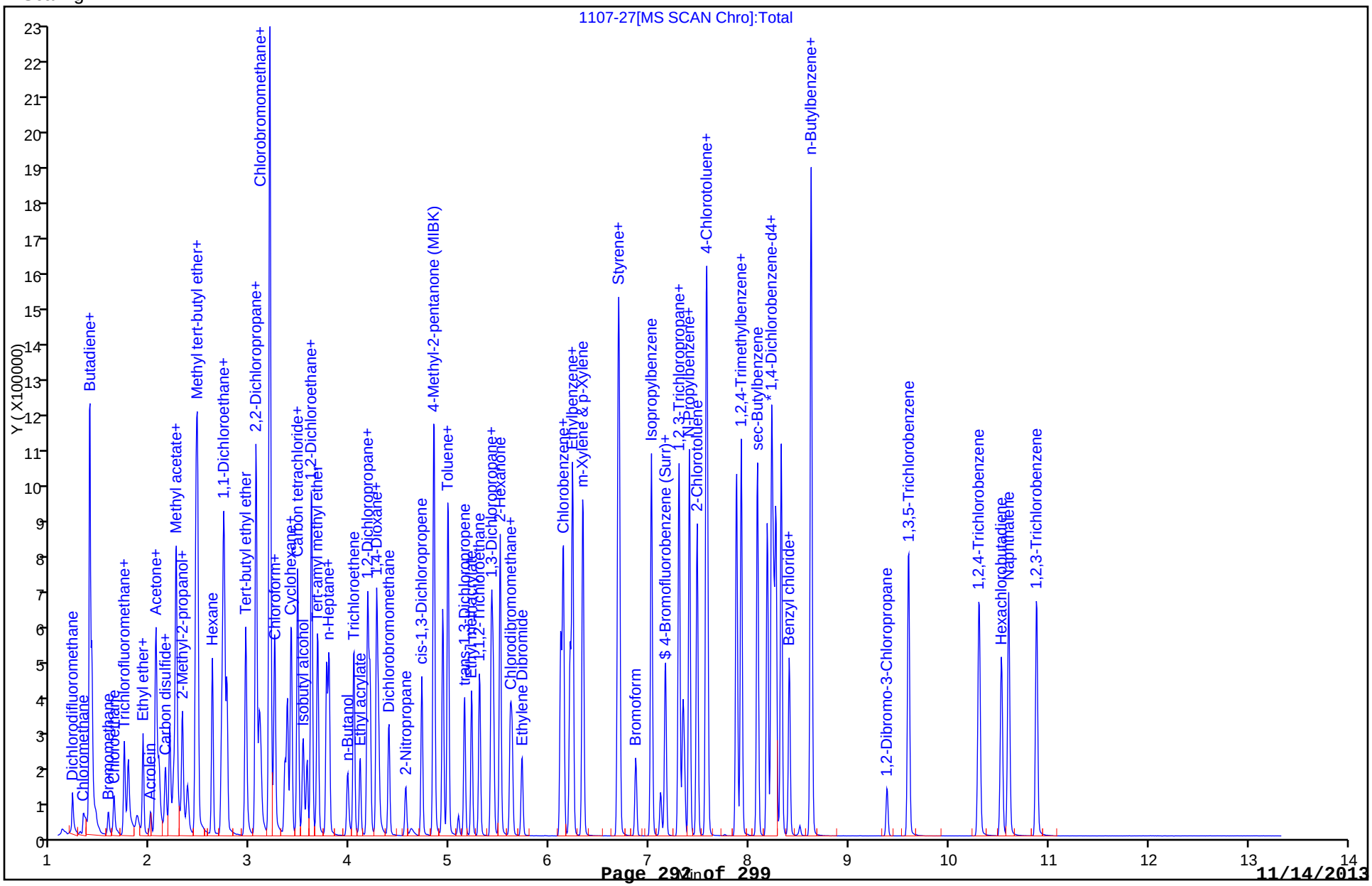
Report Date: 08-Nov-2013 10:46:18 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP45\20131107-28020.b\1107-27.D

Injection Date:	07-Nov-2013 22:31:30	Limit Group:	MSV 8260B ICAL
Client ID:	GP-11D-GW-001	Instrument ID:	HP45
Lims Batch ID:	120093	Lims Sample ID:	27
Operator ID:	BJM HP45	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Instrument ID: HP45 Start Date: 10/10/2013 13:21

Analysis Batch Number: 113395 End Date: 10/10/2013 20:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-113395/1		10/10/2013 13:21	1	1010-05.D	DB-624 0.18(mm)
STD0005 490-113395/3 IC		10/10/2013 14:15	1	1010-07.D	DB-624 0.18(mm)
STD001 490-113395/4 IC		10/10/2013 14:43	1	1010-08.D	DB-624 0.18(mm)
STD002 490-113395/5 IC		10/10/2013 15:10	1	1010-09.D	DB-624 0.18(mm)
STD005 490-113395/6 IC		10/10/2013 15:38	1	1010-10.D	DB-624 0.18(mm)
STD010 490-113395/7 IC		10/10/2013 16:05	1	1010-11.D	DB-624 0.18(mm)
STD020 490-113395/8 IC		10/10/2013 16:33	1	1010-12.D	DB-624 0.18(mm)
ICIS 490-113395/9		10/10/2013 17:00	1	1010-13.D	DB-624 0.18(mm)
STD100 490-113395/10 IC		10/10/2013 17:27	1	1010-14.D	DB-624 0.18(mm)
STD200 490-113395/11 IC		10/10/2013 17:55	1	1010-15.D	DB-624 0.18(mm)
ICV 490-113395/14		10/10/2013 19:17	1	1010-18.D	DB-624 0.18(mm)
ICB 490-113395/17		10/10/2013 20:39	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Instrument ID: HP45 Start Date: 11/07/2013 10:25

Analysis Batch Number: 120093 End Date: 11/07/2013 22:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-120093/1		11/07/2013 10:25	1	1107-01.D	DB-624 0.18(mm)
CCVIS 490-120093/2		11/07/2013 10:53	1	1107-02.D	DB-624 0.18(mm)
LCS 490-120093/3		11/07/2013 11:20	1	1107-03.D	DB-624 0.18(mm)
LCSD 490-120093/4		11/07/2013 11:47	1	1107-04.D	DB-624 0.18(mm)
MB 490-120093/6		11/07/2013 12:42	1	1107-06.D	DB-624 0.18(mm)
ZZZZZ		11/07/2013 13:22	1		DB-624 0.18(mm)
ZZZZZ		11/07/2013 13:50	1		DB-624 0.18(mm)
490-39235-9	Trip Blank	11/07/2013 14:19	1	1107-09.D	DB-624 0.18(mm)
490-39235-8	EB	11/07/2013 14:46	1	1107-10.D	DB-624 0.18(mm)
490-39235-1	GP-6D-GW-001	11/07/2013 15:14	1	1107-11.D	DB-624 0.18(mm)
490-39235-2	GP-7D-GW-001	11/07/2013 15:41	1	1107-12.D	DB-624 0.18(mm)
490-39235-3	GP-10D-GW-001	11/07/2013 16:08	1	1107-13.D	DB-624 0.18(mm)
490-39235-4	GP-11D-GW-001	11/07/2013 16:36	1	1107-14.D	DB-624 0.18(mm)
ZZZZZ		11/07/2013 17:03	1		DB-624 0.18(mm)
490-39235-6	GP-13A-GW-001	11/07/2013 17:30	1	1107-16.D	DB-624 0.18(mm)
490-39235-7	GP-13A-GW-002	11/07/2013 17:57	1	1107-17.D	DB-624 0.18(mm)
ZZZZZ		11/07/2013 18:25	1		DB-624 0.18(mm)
ZZZZZ		11/07/2013 18:52	1		DB-624 0.18(mm)
ZZZZZ		11/07/2013 19:20	1		DB-624 0.18(mm)
ZZZZZ		11/07/2013 19:47	1		DB-624 0.18(mm)
ZZZZZ		11/07/2013 20:14	1		DB-624 0.18(mm)
ZZZZZ		11/07/2013 20:42	1		DB-624 0.18(mm)
ZZZZZ		11/07/2013 21:09	1		DB-624 0.18(mm)
ZZZZZ		11/07/2013 21:36	1		DB-624 0.18(mm)
490-39235-4 MS	GP-11D-GW-001 MS	11/07/2013 22:03	1	1107-26.D	DB-624 0.18(mm)
490-39235-4 MSD	GP-11D-GW-001 MSD	11/07/2013 22:31	1	1107-27.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-39235-1

SDG No.:

Instrument ID: HP45 Start Date: 11/09/2013 20:37

Analysis Batch Number: 120479 End Date: 11/09/2013 23:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-120479/1		11/09/2013 20:37	1	1108-29.D	DB-624 0.18(mm)
CCVIS 490-120479/2		11/09/2013 21:04	1	1108-30.D	DB-624 0.18(mm)
LCS 490-120479/3		11/09/2013 21:32	1	1108-31.D	DB-624 0.18(mm)
LCSD 490-120479/4		11/09/2013 21:59	1	1108-32.D	DB-624 0.18(mm)
MB 490-120479/6		11/09/2013 22:53	1	1108-34.D	DB-624 0.18(mm)
490-39235-5	GP-12A-GW-001	11/09/2013 23:21	1	1108-35.D	DB-624 0.18(mm)
490-39235-4	GP-11D-GW-001	11/09/2013 23:48	5	1108-36.D	DB-624 0.18(mm)

Shipping and Receiving Documents

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-39235 Chain of Custody

Cooler Received/Opened On: 10/31/2013 @0820

1. Tracking # 1628 (last 4 digits, FedEx)

Courier: Fed-Ex IR Gun ID: 14740456

2. Temperature of rep. sample or temp blank when opened: 4.2 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO..(NA)

4. Were custody seals on outside of cooler? (YES)..NO...NA

If yes, how many and where: 2 Front/Back

5. Were the seals intact, signed, and dated correctly? (YES)..NO...NA

6. Were custody papers inside cooler? (YES)..NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) HT

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? (YES)...NO...NA

b. Was there any observable headspace present in any VOA vial? (YES)...NO...NA

14. Was there a Trip Blank in this cooler? (YES)..NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (intial) ELA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..(NA)

b. Did the bottle labels indicate that the correct preservatives were used (YES)...NO...NA

16. Was residual chlorine present? YES...NO..(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) ELA

17. Were custody papers properly filled out (ink, signed, etc)? (YES)..NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) ELA

I certify that I attached a label with the unique LIMS number to each container (intial) ELA

21. Were there Non-Conformance issues at login? (YES)...NO Was a NCM generated? (YES)..NO...#_____

NCM - 88811, Headspace

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 11/28/12

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

11/14/2013

Client Information	Sampler: John Knightly	Lab PM: Connor, Roxanne	Carrier Tracking No(s): 571203021628	COC No: 490-16687-6964.1
Client Contact: Mariruth Gruis	Phone: 913-522-0370	E-Mail: roxanne.connor@testamericainc.com		Page: Page ~~1 of~~ 1 of 1
Company: Haley & Aldrich, Inc.				Job #:

Address: 11020 King Street Suite 450	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Overland Park	TAT Requested (days): Normal		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
State, Zip: KS, 66210			
Phone: 913-636-3497(Tel)	PO #: Purchase Order Requested		Other:
Email: mgruis@haleyaldrich.com	WO #:		
Project Name: Leeds Facility	Project #: 49003847		
Site:	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B TCL	8270C TCL Semivolatiles List	Cr+6, SO4, Cl, NO3, NO2, CO2	6020A TCL metals + 7470A Hg	RSK_175 - Methane, Ethane, Ethylene	9060A TOC and DOC	9034 - Sulfide	9012B - Cyanide, Total	8015C_DAI_GLY - Ethylene Glycol	8082A - Standard PCBs (1016-1260)	1010A Flashpoint and 9040C pH	6020A Diss Mn (lab filtered)	6020A Fe & Mn	Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
GP-6D-GW-001	10/28/13	1226	G	Water			X														
GP-7D-GW-001	10/28/13	1107	G	Water			X														Loc: 490 39235
GP-10D-GW-001	10/28/13	1440	G	Water			X														
GP-11D-GW-001	10/28/13	1551	G	Water			X														
GP-12A-GW-001	10/29/13	0947	G	Water			X														
GP-13A-GW-001	10/30/13	1252	G	Water			X														
GP-13A-GW-002	10/30/13	1252	G	Water			X														
MS/MSD-GW-001	10/28/13	1551	G	Water			X														From GP-11D loc.
EB	10/29/13	1011	G	Water			X														
TMP Blank	—	—	—	Water			X														
				Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 10/30/13 1915	Company	Received by:	Date/Time: 10-31-13 8:20	Company TAN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.2

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Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 490-39235-1

Login Number: 39235

List Source: TestAmerica Nashville

List Number: 1

Creator: Abernathy, Eric

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	Refer to Job Narrative for details.
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Job Number: 490-39536-2

Job Description: Former Leeds Assembly Plant

For:
Haley & Aldrich, Inc.
11020 King Street
Suite 450
Overland Park, KS 66210

Attention: Mariruth Gruis

Approved for release.
Roxanne Connor
Senior Project Manager
11/19/2013 1:02 PM

Roxanne Connor, Senior Project Manager
2960 Foster Creighton Drive, Nashville, TN, 37204
(615)301-5761
roxanne.connor@testamericainc.com
11/19/2013

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CASE NARRATIVE

Client: Haley & Aldrich, Inc.

Project: Former Leeds Assembly Plant

Report Number: 490-39536-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Nashville attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 11/6/2013 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.9º C and 5.5º C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-01A-GW-001 (490-39536-1), MW-01B-GW-001 (490-39536-3), MW-02A-GW-001 (490-39536-5), MW-02B-GW-001 (490-39536-7) and Trip Blank (490-39536-8) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 11/14/2013 and 11/15/2013.

Trichloroethene was detected in method blank MB 490-121823/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Tetrahydrofuran failed the recovery criteria low for the MS and MSD of sample 490-40098-1 in batch 490-121948.

Refer to the QC report for details.

No other difficulties were encountered during the VOCs analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-01A-GW-001 (490-39536-1), MW-01B-GW-001 (490-39536-3), MW-02A-GW-001 (490-39536-5) and MW-02B-GW-001 (490-39536-7) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared and analyzed on 11/12/2013.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

Benzaldehyde failed the recovery criteria high for LCS 490-121117/2-A. Refer to the QC report for details.

Method(s) 8270C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with

batch 121117.

No other difficulties were encountered during the SVOCs analysis.

All other quality control parameters were within the acceptance limits.

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Instrument ID: HP33 Analysis Batch Number: 115521

Lab Sample ID: STD0005 490-115521/2 IC Client Sample ID:

Date Analyzed: 10/18/13 20:11 Lab File ID: 10181304.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.30	Baseline	redmondj	10/19/13 19:44
2-Butanone (MEK)	3.00	Split Peak	redmondj	10/19/13 19:44
1,4-Dioxane	4.21	Split Peak	redmondj	10/19/13 19:44
1,2,3-Trichloropropane	7.29	Split Peak	redmondj	10/19/13 19:44

Lab Sample ID: STD001 490-115521/3 IC Client Sample ID:

Date Analyzed: 10/18/13 20:38 Lab File ID: 10181305.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.29	Peak Tail	redmondj	10/19/13 19:47
Bromomethane	1.51	Peak Tail	redmondj	10/19/13 19:47
2-Chloroethyl vinyl ether	4.53	Split Peak	redmondj	10/19/13 19:47

Lab Sample ID: STD002 490-115521/4 IC Client Sample ID:

Date Analyzed: 10/18/13 21:05 Lab File ID: 10181306.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.30	Peak Tail	redmondj	10/19/13 19:48

Lab Sample ID: STD005 490-115521/5 IC Client Sample ID:

Date Analyzed: 10/18/13 21:32 Lab File ID: 10181307.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Iodomethane	2.07	Split Peak	redmondj	10/19/13 19:51
Isopropyl alcohol	2.10	Wrong peak	redmondj	10/19/13 19:50
1,4-Dioxane	4.22	Peak Tail	redmondj	10/19/13 19:49

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Instrument ID: HP33 Analysis Batch Number: 115521

Lab Sample ID: STD010 490-115521/6 IC Client Sample ID:

Date Analyzed: 10/18/13 21:59 Lab File ID: 10181308.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	4.21	Peak Tail	redmondj	10/19/13 19:52

Lab Sample ID: ICIS 490-115521/7 Client Sample ID:

Date Analyzed: 10/18/13 22:26 Lab File ID: 10181309.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	4.21	Split Peak	redmondj	10/19/13 19:38

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Instrument ID: HP33 Analysis Batch Number: 121823

Lab Sample ID: MB 490-121823/5 Client Sample ID:

Date Analyzed: 11/14/13 11:10 Lab File ID: 11141306.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dichlorobenzene	8.15	Split Peak	redmondj	11/15/13 09:55

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Instrument ID: HP83 Analysis Batch Number: 116774

Lab Sample ID: STD2 490-116774/4 IC Client Sample ID:

Date Analyzed: 10/24/13 14:14 Lab File ID: 1022004.D GC Column: ZB-5MSi ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	4.46	Poor chromatography	salomonb	10/24/13 16:25

Lab Sample ID: ICIS 490-116774/6 Client Sample ID:

Date Analyzed: 10/24/13 14:59 Lab File ID: 1022006.D GC Column: ZB-5MSi ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Caprolactam	4.87	Poor chromatography	salomonb	10/24/13 16:23

Lab Sample ID: STD5 490-116774/7 IC Client Sample ID:

Date Analyzed: 10/24/13 15:21 Lab File ID: 1022007.D GC Column: ZB-5MSi ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Caprolactam	4.88	Poor chromatography	salomonb	10/24/13 16:24

Lab Sample ID: STD6 490-116774/8 IC Client Sample ID:

Date Analyzed: 10/24/13 15:44 Lab File ID: 1022008.D GC Column: ZB-5MSi ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	4.50	Poor chromatography	salomonb	10/24/13 16:26
Caprolactam	4.89	Poor chromatography	salomonb	10/24/13 16:24

SAMPLE SUMMARY

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
490-39536-1	MW-01A-GW-001	Water	11/05/2013 0907	11/06/2013 0815
490-39536-3	MW-01B-GW-001	Water	11/05/2013 1145	11/06/2013 0815
490-39536-5	MW-02A-GW-001	Water	11/05/2013 1422	11/06/2013 0815
490-39536-7	MW-02B-GW-001	Water	11/05/2013 1615	11/06/2013 0815
490-39536-8TB	Trip Blank	Water	11/05/2013 0001	11/06/2013 0815

EXECUTIVE SUMMARY - Detections

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-39536-8TB	**TRIP BLANK**					
Methylene Chloride		0.503	J	5.00	ug/L	8260B

METHOD SUMMARY

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL NSH	SW846 8260B	
Purge and Trap	TAL NSH		SW846 5030B
Semivolatile Organic Compounds (GC/MS)	TAL NSH	SW846 8270C	
Liquid-Liquid Extraction (Separatory Funnel)	TAL NSH		SW846 3510C

Lab References:

TAL NSH = TestAmerica Nashville

Method References:

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

METHOD / ANALYST SUMMARY

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Method	Analyst	Analyst ID
SW846 8260B	Redmond, Jamilla	JJR
SW846 8270C	Salomon, Bret	BES

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Client Sample ID: **MW-01A-GW-001**

Lab Sample ID: 490-39536-1 Date Sampled: 11/05/2013 0907
Client Matrix: Water Date Received: 11/06/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-121948	Instrument ID:	HP33
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	11141333.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/14/2013 2341			Final Weight/Volume:	5 mL
Prep Date:	11/14/2013 2341				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND		0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	ND		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND		2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00
1,1,2-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Client Sample ID: **MW-01A-GW-001**

Lab Sample ID: 490-39536-1 Date Sampled: 11/05/2013 0907
Client Matrix: Water Date Received: 11/06/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-121948	Instrument ID:	HP33
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	11141333.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/14/2013 2341			Final Weight/Volume:	5 mL
Prep Date:	11/14/2013 2341				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	ND		0.200	1.00
Trichlorofluoromethane	ND		0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	ND		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
Toluene-d8 (Surr)	106		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Client Sample ID: **MW-01B-GW-001**

Lab Sample ID: 490-39536-3 Date Sampled: 11/05/2013 1145
Client Matrix: Water Date Received: 11/06/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-121948	Instrument ID:	HP33
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	11141334.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/15/2013 0008			Final Weight/Volume:	5 mL
Prep Date:	11/15/2013 0008				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND		0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	ND		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND		2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00
1,1,2-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Client Sample ID: **MW-01B-GW-001**

Lab Sample ID: 490-39536-3 Date Sampled: 11/05/2013 1145
Client Matrix: Water Date Received: 11/06/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-121948	Instrument ID:	HP33
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	11141334.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/15/2013 0008			Final Weight/Volume:	5 mL
Prep Date:	11/15/2013 0008				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	ND		0.200	1.00
Trichlorofluoromethane	ND		0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	ND		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
Toluene-d8 (Surr)	110		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Client Sample ID: **MW-02A-GW-001**

Lab Sample ID: 490-39536-5 Date Sampled: 11/05/2013 1422
Client Matrix: Water Date Received: 11/06/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-121948	Instrument ID:	HP33
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	11141335.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/15/2013 0035			Final Weight/Volume:	5 mL
Prep Date:	11/15/2013 0035				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND		0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	ND		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND		2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00
1,1,2-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Client Sample ID: **MW-02A-GW-001**

Lab Sample ID: 490-39536-5 Date Sampled: 11/05/2013 1422
Client Matrix: Water Date Received: 11/06/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-121948	Instrument ID:	HP33
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	11141335.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/15/2013 0035			Final Weight/Volume:	5 mL
Prep Date:	11/15/2013 0035				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	ND		0.200	1.00
Trichlorofluoromethane	ND		0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	ND		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
Toluene-d8 (Surr)	107		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Client Sample ID: **MW-02B-GW-001**

Lab Sample ID: 490-39536-7 Date Sampled: 11/05/2013 1615
Client Matrix: Water Date Received: 11/06/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-121948	Instrument ID:	HP33
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	11141336.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/15/2013 0102			Final Weight/Volume:	5 mL
Prep Date:	11/15/2013 0102				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND		0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	ND		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND		2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00
1,1,2-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Client Sample ID: **MW-02B-GW-001**

Lab Sample ID: 490-39536-7 Date Sampled: 11/05/2013 1615
Client Matrix: Water Date Received: 11/06/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-121948	Instrument ID:	HP33
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	11141336.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/15/2013 0102			Final Weight/Volume:	5 mL
Prep Date:	11/15/2013 0102				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	ND		0.200	1.00
Trichlorofluoromethane	ND		0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	ND		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
Toluene-d8 (Surr)	106		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Client Sample ID: **Trip Blank**

Lab Sample ID: 490-39536-8TB Date Sampled: 11/05/2013 0001
Client Matrix: Water Date Received: 11/06/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-121823	Instrument ID:	HP33
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	11141310.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/14/2013 1258			Final Weight/Volume:	5 mL
Prep Date:	11/14/2013 1258				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND		0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	ND		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	0.503	J	0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND		2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00
1,1,2-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Client Sample ID: **Trip Blank**

Lab Sample ID: 490-39536-8TB Date Sampled: 11/05/2013 0001
Client Matrix: Water Date Received: 11/06/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-121823	Instrument ID:	HP33
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	11141310.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/14/2013 1258			Final Weight/Volume:	5 mL
Prep Date:	11/14/2013 1258				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	ND		0.200	1.00
Trichlorofluoromethane	ND		0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	ND		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	90		70 - 130
Toluene-d8 (Surr)	109		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Client Sample ID: **MW-01A-GW-001**

Lab Sample ID: 490-39536-1 Date Sampled: 11/05/2013 0907
Client Matrix: Water Date Received: 11/06/2013 0815

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	490-121257	Instrument ID:	HP83
Prep Method:	3510C	Prep Batch:	490-121117	Lab File ID:	1112006.D
Dilution:	1.0			Initial Weight/Volume:	1060 mL
Analysis Date:	11/12/2013 1856			Final Weight/Volume:	1 mL
Prep Date:	11/12/2013 0714			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.345	1.89
Acenaphthylene	ND		0.311	1.89
Acetophenone	ND		1.79	9.43
Anthracene	ND		0.833	1.89
Atrazine	ND		3.49	9.43
Benzaldehyde	ND	*	2.03	9.43
Benzo[a]anthracene	ND		0.306	1.89
Benzo[a]pyrene	ND		0.311	1.89
Benzo[b]fluoranthene	ND		0.398	1.89
Benzo[g,h,i]perylene	ND		0.271	1.89
Benzo[k]fluoranthene	ND		0.343	1.89
Biphenyl	ND		3.14	9.43
Bis(2-chloroethoxy)methane	ND		1.28	9.43
Bis(2-chloroethyl)ether	ND		1.31	9.43
bis (2-chloroisopropyl) ether	ND		1.85	9.43
Bis(2-ethylhexyl) phthalate	ND		1.94	9.43
4-Bromophenyl phenyl ether	ND		1.29	9.43
Butyl benzyl phthalate	ND		1.64	9.43
Caprolactam	ND		3.14	9.43
Carbazole	ND		0.282	9.43
4-Chloroaniline	ND		1.10	9.43
4-Chloro-3-methylphenol	ND		3.14	9.43
2-Chloronaphthalene	ND		1.55	9.43
2-Chlorophenol	ND		1.50	9.43
4-Chlorophenyl phenyl ether	ND		1.65	9.43
Chrysene	ND		1.03	1.89
Dibenz(a,h)anthracene	ND		0.608	1.89
Dibenzofuran	ND		0.320	9.43
3,3'-Dichlorobenzidine	ND		1.43	9.43
2,4-Dichlorophenol	ND		0.962	9.43
Diethyl phthalate	ND		1.53	9.43
2,4-Dimethylphenol	ND		0.940	9.43
Dimethyl phthalate	ND		1.71	9.43
Di-n-butyl phthalate	ND		1.42	9.43
4,6-Dinitro-2-methylphenol	ND		1.95	23.6
2,4-Dinitrophenol	ND		2.32	23.6
2,4-Dinitrotoluene	ND		3.14	9.43
2,6-Dinitrotoluene	ND		1.83	9.43
Di-n-octyl phthalate	ND		2.18	9.43
Fluoranthene	ND		0.327	1.89
Fluorene	ND		0.298	1.89
Hexachlorobenzene	ND		1.59	9.43
Hexachlorobutadiene	ND		3.14	9.43
Hexachlorocyclopentadiene	ND		3.14	9.43
Hexachloroethane	ND		3.14	9.43
Indeno[1,2,3-cd]pyrene	ND		0.359	1.89

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Client Sample ID: **MW-01A-GW-001**

Lab Sample ID: 490-39536-1 Date Sampled: 11/05/2013 0907
Client Matrix: Water Date Received: 11/06/2013 0815

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	490-121257	Instrument ID:	HP83
Prep Method:	3510C	Prep Batch:	490-121117	Lab File ID:	1112006.D
Dilution:	1.0			Initial Weight/Volume:	1060 mL
Analysis Date:	11/12/2013 1856			Final Weight/Volume:	1 mL
Prep Date:	11/12/2013 0714			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isophorone	ND		1.17	9.43
2-Methylnaphthalene	ND		0.293	1.89
2-Methylphenol	ND		3.14	9.43
3 & 4 Methylphenol	ND		3.14	9.43
Naphthalene	ND		0.375	1.89
2-Nitroaniline	ND		0.981	23.6
3-Nitroaniline	ND		1.75	23.6
4-Nitroaniline	ND		2.25	23.6
Nitrobenzene	ND		1.17	9.43
2-Nitrophenol	ND		1.48	9.43
4-Nitrophenol	ND		3.14	23.6
N-Nitrosodi-n-propylamine	ND		1.34	9.43
n-Nitrosodiphenylamine(as diphenylamine)	ND		1.36	9.43
Pentachlorophenol	ND		1.56	23.6
Phenanthrene	ND		0.324	1.89
Phenol	ND		3.25	9.43
Pyrene	ND		0.312	1.89
2,4,5-Trichlorophenol	ND		1.92	23.6
2,4,6-Trichlorophenol	ND		1.66	9.43

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	81		29 - 120
2-Fluorophenol (Surr)	41		10 - 120
Nitrobenzene-d5 (Surr)	81		27 - 120
Phenol-d5 (Surr)	24		10 - 120
Terphenyl-d14 (Surr)	59		13 - 120
2,4,6-Tribromophenol (Surr)	90		10 - 120

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Client Sample ID: **MW-01B-GW-001**

Lab Sample ID: 490-39536-3 Date Sampled: 11/05/2013 1145
Client Matrix: Water Date Received: 11/06/2013 0815

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	490-121257	Instrument ID:	HP83
Prep Method:	3510C	Prep Batch:	490-121117	Lab File ID:	1112007.D
Dilution:	1.0			Initial Weight/Volume:	1060 mL
Analysis Date:	11/12/2013 1919			Final Weight/Volume:	1 mL
Prep Date:	11/12/2013 0714			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.345	1.89
Acenaphthylene	ND		0.311	1.89
Acetophenone	ND		1.79	9.43
Anthracene	ND		0.833	1.89
Atrazine	ND		3.49	9.43
Benzaldehyde	ND	*	2.03	9.43
Benzo[a]anthracene	ND		0.306	1.89
Benzo[a]pyrene	ND		0.311	1.89
Benzo[b]fluoranthene	ND		0.398	1.89
Benzo[g,h,i]perylene	ND		0.271	1.89
Benzo[k]fluoranthene	ND		0.343	1.89
Biphenyl	ND		3.14	9.43
Bis(2-chloroethoxy)methane	ND		1.28	9.43
Bis(2-chloroethyl)ether	ND		1.31	9.43
bis (2-chloroisopropyl) ether	ND		1.85	9.43
Bis(2-ethylhexyl) phthalate	ND		1.94	9.43
4-Bromophenyl phenyl ether	ND		1.29	9.43
Butyl benzyl phthalate	ND		1.64	9.43
Caprolactam	ND		3.14	9.43
Carbazole	ND		0.282	9.43
4-Chloroaniline	ND		1.10	9.43
4-Chloro-3-methylphenol	ND		3.14	9.43
2-Chloronaphthalene	ND		1.55	9.43
2-Chlorophenol	ND		1.50	9.43
4-Chlorophenyl phenyl ether	ND		1.65	9.43
Chrysene	ND		1.03	1.89
Dibenz(a,h)anthracene	ND		0.608	1.89
Dibenzofuran	ND		0.320	9.43
3,3'-Dichlorobenzidine	ND		1.43	9.43
2,4-Dichlorophenol	ND		0.962	9.43
Diethyl phthalate	ND		1.53	9.43
2,4-Dimethylphenol	ND		0.940	9.43
Dimethyl phthalate	ND		1.71	9.43
Di-n-butyl phthalate	ND		1.42	9.43
4,6-Dinitro-2-methylphenol	ND		1.95	23.6
2,4-Dinitrophenol	ND		2.32	23.6
2,4-Dinitrotoluene	ND		3.14	9.43
2,6-Dinitrotoluene	ND		1.83	9.43
Di-n-octyl phthalate	ND		2.18	9.43
Fluoranthene	ND		0.327	1.89
Fluorene	ND		0.298	1.89
Hexachlorobenzene	ND		1.59	9.43
Hexachlorobutadiene	ND		3.14	9.43
Hexachlorocyclopentadiene	ND		3.14	9.43
Hexachloroethane	ND		3.14	9.43
Indeno[1,2,3-cd]pyrene	ND		0.359	1.89

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Client Sample ID: **MW-01B-GW-001**

Lab Sample ID: 490-39536-3 Date Sampled: 11/05/2013 1145
Client Matrix: Water Date Received: 11/06/2013 0815

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	490-121257	Instrument ID:	HP83
Prep Method:	3510C	Prep Batch:	490-121117	Lab File ID:	1112007.D
Dilution:	1.0			Initial Weight/Volume:	1060 mL
Analysis Date:	11/12/2013 1919			Final Weight/Volume:	1 mL
Prep Date:	11/12/2013 0714			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isophorone	ND		1.17	9.43
2-Methylnaphthalene	ND		0.293	1.89
2-Methylphenol	ND		3.14	9.43
3 & 4 Methylphenol	ND		3.14	9.43
Naphthalene	ND		0.375	1.89
2-Nitroaniline	ND		0.981	23.6
3-Nitroaniline	ND		1.75	23.6
4-Nitroaniline	ND		2.25	23.6
Nitrobenzene	ND		1.17	9.43
2-Nitrophenol	ND		1.48	9.43
4-Nitrophenol	ND		3.14	23.6
N-Nitrosodi-n-propylamine	ND		1.34	9.43
n-Nitrosodiphenylamine(as diphenylamine)	ND		1.36	9.43
Pentachlorophenol	ND		1.56	23.6
Phenanthrene	ND		0.324	1.89
Phenol	ND		3.25	9.43
Pyrene	ND		0.312	1.89
2,4,5-Trichlorophenol	ND		1.92	23.6
2,4,6-Trichlorophenol	ND		1.66	9.43

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	75		29 - 120
2-Fluorophenol (Surr)	36		10 - 120
Nitrobenzene-d5 (Surr)	74		27 - 120
Phenol-d5 (Surr)	21		10 - 120
Terphenyl-d14 (Surr)	54		13 - 120
2,4,6-Tribromophenol (Surr)	80		10 - 120

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Client Sample ID: **MW-02A-GW-001**

Lab Sample ID: 490-39536-5 Date Sampled: 11/05/2013 1422
Client Matrix: Water Date Received: 11/06/2013 0815

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	490-121257	Instrument ID:	HP83
Prep Method:	3510C	Prep Batch:	490-121117	Lab File ID:	1112008.D
Dilution:	1.0			Initial Weight/Volume:	1060 mL
Analysis Date:	11/12/2013 1941			Final Weight/Volume:	1 mL
Prep Date:	11/12/2013 0714			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.345	1.89
Acenaphthylene	ND		0.311	1.89
Acetophenone	ND		1.79	9.43
Anthracene	ND		0.833	1.89
Atrazine	ND		3.49	9.43
Benzaldehyde	ND	*	2.03	9.43
Benzo[a]anthracene	ND		0.306	1.89
Benzo[a]pyrene	ND		0.311	1.89
Benzo[b]fluoranthene	ND		0.398	1.89
Benzo[g,h,i]perylene	ND		0.271	1.89
Benzo[k]fluoranthene	ND		0.343	1.89
Biphenyl	ND		3.14	9.43
Bis(2-chloroethoxy)methane	ND		1.28	9.43
Bis(2-chloroethyl)ether	ND		1.31	9.43
bis (2-chloroisopropyl) ether	ND		1.85	9.43
Bis(2-ethylhexyl) phthalate	ND		1.94	9.43
4-Bromophenyl phenyl ether	ND		1.29	9.43
Butyl benzyl phthalate	ND		1.64	9.43
Caprolactam	ND		3.14	9.43
Carbazole	ND		0.282	9.43
4-Chloroaniline	ND		1.10	9.43
4-Chloro-3-methylphenol	ND		3.14	9.43
2-Chloronaphthalene	ND		1.55	9.43
2-Chlorophenol	ND		1.50	9.43
4-Chlorophenyl phenyl ether	ND		1.65	9.43
Chrysene	ND		1.03	1.89
Dibenz(a,h)anthracene	ND		0.608	1.89
Dibenzofuran	ND		0.320	9.43
3,3'-Dichlorobenzidine	ND		1.43	9.43
2,4-Dichlorophenol	ND		0.962	9.43
Diethyl phthalate	ND		1.53	9.43
2,4-Dimethylphenol	ND		0.940	9.43
Dimethyl phthalate	ND		1.71	9.43
Di-n-butyl phthalate	ND		1.42	9.43
4,6-Dinitro-2-methylphenol	ND		1.95	23.6
2,4-Dinitrophenol	ND		2.32	23.6
2,4-Dinitrotoluene	ND		3.14	9.43
2,6-Dinitrotoluene	ND		1.83	9.43
Di-n-octyl phthalate	ND		2.18	9.43
Fluoranthene	ND		0.327	1.89
Fluorene	ND		0.298	1.89
Hexachlorobenzene	ND		1.59	9.43
Hexachlorobutadiene	ND		3.14	9.43
Hexachlorocyclopentadiene	ND		3.14	9.43
Hexachloroethane	ND		3.14	9.43
Indeno[1,2,3-cd]pyrene	ND		0.359	1.89

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Client Sample ID: **MW-02A-GW-001**

Lab Sample ID: 490-39536-5 Date Sampled: 11/05/2013 1422
Client Matrix: Water Date Received: 11/06/2013 0815

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	490-121257	Instrument ID:	HP83
Prep Method:	3510C	Prep Batch:	490-121117	Lab File ID:	1112008.D
Dilution:	1.0			Initial Weight/Volume:	1060 mL
Analysis Date:	11/12/2013 1941			Final Weight/Volume:	1 mL
Prep Date:	11/12/2013 0714			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isophorone	ND		1.17	9.43
2-Methylnaphthalene	ND		0.293	1.89
2-Methylphenol	ND		3.14	9.43
3 & 4 Methylphenol	ND		3.14	9.43
Naphthalene	ND		0.375	1.89
2-Nitroaniline	ND		0.981	23.6
3-Nitroaniline	ND		1.75	23.6
4-Nitroaniline	ND		2.25	23.6
Nitrobenzene	ND		1.17	9.43
2-Nitrophenol	ND		1.48	9.43
4-Nitrophenol	ND		3.14	23.6
N-Nitrosodi-n-propylamine	ND		1.34	9.43
n-Nitrosodiphenylamine(as diphenylamine)	ND		1.36	9.43
Pentachlorophenol	ND		1.56	23.6
Phenanthrene	ND		0.324	1.89
Phenol	ND		3.25	9.43
Pyrene	ND		0.312	1.89
2,4,5-Trichlorophenol	ND		1.92	23.6
2,4,6-Trichlorophenol	ND		1.66	9.43

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	81		29 - 120
2-Fluorophenol (Surr)	39		10 - 120
Nitrobenzene-d5 (Surr)	82		27 - 120
Phenol-d5 (Surr)	23		10 - 120
Terphenyl-d14 (Surr)	62		13 - 120
2,4,6-Tribromophenol (Surr)	95		10 - 120

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Client Sample ID: **MW-02B-GW-001**

Lab Sample ID: 490-39536-7 Date Sampled: 11/05/2013 1615
Client Matrix: Water Date Received: 11/06/2013 0815

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	490-121257	Instrument ID:	HP83
Prep Method:	3510C	Prep Batch:	490-121117	Lab File ID:	1112009.D
Dilution:	1.0			Initial Weight/Volume:	1060 mL
Analysis Date:	11/12/2013 2003			Final Weight/Volume:	1 mL
Prep Date:	11/12/2013 0714			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.345	1.89
Acenaphthylene	ND		0.311	1.89
Acetophenone	ND		1.79	9.43
Anthracene	ND		0.833	1.89
Atrazine	ND		3.49	9.43
Benzaldehyde	ND	*	2.03	9.43
Benzo[a]anthracene	ND		0.306	1.89
Benzo[a]pyrene	ND		0.311	1.89
Benzo[b]fluoranthene	ND		0.398	1.89
Benzo[g,h,i]perylene	ND		0.271	1.89
Benzo[k]fluoranthene	ND		0.343	1.89
Biphenyl	ND		3.14	9.43
Bis(2-chloroethoxy)methane	ND		1.28	9.43
Bis(2-chloroethyl)ether	ND		1.31	9.43
bis (2-chloroisopropyl) ether	ND		1.85	9.43
Bis(2-ethylhexyl) phthalate	ND		1.94	9.43
4-Bromophenyl phenyl ether	ND		1.29	9.43
Butyl benzyl phthalate	ND		1.64	9.43
Caprolactam	ND		3.14	9.43
Carbazole	ND		0.282	9.43
4-Chloroaniline	ND		1.10	9.43
4-Chloro-3-methylphenol	ND		3.14	9.43
2-Chloronaphthalene	ND		1.55	9.43
2-Chlorophenol	ND		1.50	9.43
4-Chlorophenyl phenyl ether	ND		1.65	9.43
Chrysene	ND		1.03	1.89
Dibenz(a,h)anthracene	ND		0.608	1.89
Dibenzofuran	ND		0.320	9.43
3,3'-Dichlorobenzidine	ND		1.43	9.43
2,4-Dichlorophenol	ND		0.962	9.43
Diethyl phthalate	ND		1.53	9.43
2,4-Dimethylphenol	ND		0.940	9.43
Dimethyl phthalate	ND		1.71	9.43
Di-n-butyl phthalate	ND		1.42	9.43
4,6-Dinitro-2-methylphenol	ND		1.95	23.6
2,4-Dinitrophenol	ND		2.32	23.6
2,4-Dinitrotoluene	ND		3.14	9.43
2,6-Dinitrotoluene	ND		1.83	9.43
Di-n-octyl phthalate	ND		2.18	9.43
Fluoranthene	ND		0.327	1.89
Fluorene	ND		0.298	1.89
Hexachlorobenzene	ND		1.59	9.43
Hexachlorobutadiene	ND		3.14	9.43
Hexachlorocyclopentadiene	ND		3.14	9.43
Hexachloroethane	ND		3.14	9.43
Indeno[1,2,3-cd]pyrene	ND		0.359	1.89

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Client Sample ID: **MW-02B-GW-001**

Lab Sample ID: 490-39536-7 Date Sampled: 11/05/2013 1615
Client Matrix: Water Date Received: 11/06/2013 0815

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	490-121257	Instrument ID:	HP83
Prep Method:	3510C	Prep Batch:	490-121117	Lab File ID:	1112009.D
Dilution:	1.0			Initial Weight/Volume:	1060 mL
Analysis Date:	11/12/2013 2003			Final Weight/Volume:	1 mL
Prep Date:	11/12/2013 0714			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isophorone	ND		1.17	9.43
2-Methylnaphthalene	ND		0.293	1.89
2-Methylphenol	ND		3.14	9.43
3 & 4 Methylphenol	ND		3.14	9.43
Naphthalene	ND		0.375	1.89
2-Nitroaniline	ND		0.981	23.6
3-Nitroaniline	ND		1.75	23.6
4-Nitroaniline	ND		2.25	23.6
Nitrobenzene	ND		1.17	9.43
2-Nitrophenol	ND		1.48	9.43
4-Nitrophenol	ND		3.14	23.6
N-Nitrosodi-n-propylamine	ND		1.34	9.43
n-Nitrosodiphenylamine(as diphenylamine)	ND		1.36	9.43
Pentachlorophenol	ND		1.56	23.6
Phenanthrene	ND		0.324	1.89
Phenol	ND		3.25	9.43
Pyrene	ND		0.312	1.89
2,4,5-Trichlorophenol	ND		1.92	23.6
2,4,6-Trichlorophenol	ND		1.66	9.43

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	39		29 - 120
2-Fluorophenol (Surr)	19		10 - 120
Nitrobenzene-d5 (Surr)	40		27 - 120
Phenol-d5 (Surr)	11		10 - 120
Terphenyl-d14 (Surr)	33		13 - 120
2,4,6-Tribromophenol (Surr)	46		10 - 120

Client: Haley & Aldrich, Inc.

Job Number: 490-39536-2

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
490-39536-1	MW-01A-GW-001	99	94	106	94
490-39536-3	MW-01B-GW-001	100	94	110	96
490-39536-5	MW-02A-GW-001	100	95	107	91
490-39536-7	MW-02B-GW-001	98	94	106	93
490-39536-8	Trip Blank	98	90	109	93
MB 490-121823/5		99	92	105	93
MB 490-121948/4		101	93	104	95
LCS 490-121823/3		100	91	104	89
LCS 490-121948/3		101	96	102	90
LCSD 490-121823/4		101	93	105	91
490-39510-B-1 MS		101	92	101	91
490-40098-B-1 MS		100	94	103	94
490-39510-C-1 MSD		101	94	102	92
490-40098-C-1 MSD		102	95	105	91

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Surrogate Recovery Report

8270C Semivolatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	2FP %Rec	PHL %Rec	NBZ %Rec	FBP %Rec	TBP %Rec	TPH %Rec
490-39536-1	MW-01A-GW-001	41	24	81	81	90	59
490-39536-3	MW-01B-GW-001	36	21	74	75	80	54
490-39536-5	MW-02A-GW-001	39	23	82	81	95	62
490-39536-7	MW-02B-GW-001	19	11	40	39	46	33
MB 490-121117/1-A		10	18	66	62	16	81
LCS 490-121117/2-A		41	27	69	71	82	78

Surrogate	Acceptance Limits
2FP = 2-Fluorophenol (Surr)	10-120
PHL = Phenol-d5 (Surr)	10-120
NBZ = Nitrobenzene-d5 (Surr)	27-120
FBP = 2-Fluorobiphenyl (Surr)	29-120
TBP = 2,4,6-Tribromophenol (Surr)	10-120
TPH = Terphenyl-d14 (Surr)	13-120

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Method Blank - Batch: 490-121823

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-121823/5	Analysis Batch:	490-121823	Instrument ID:	HP33
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11141306.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/14/2013 1110	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/14/2013 1110				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND		0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	ND		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND		2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Method Blank - Batch: 490-121823

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-121823/5	Analysis Batch:	490-121823	Instrument ID:	HP33
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11141306.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/14/2013 1110	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/14/2013 1110				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,2-Trichloroethane	ND		0.190	1.00
Trichloroethene	0.2659	J	0.200	1.00
Trichlorofluoromethane	ND		0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	ND		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	93	70 - 130
Dibromofluoromethane (Surr)	99	70 - 130
1,2-Dichloroethane-d4 (Surr)	92	70 - 130
Toluene-d8 (Surr)	105	70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-121823

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-121823/3	Analysis Batch:	490-121823	Instrument ID:	HP33
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11141303.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/14/2013 0949	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/14/2013 0949				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-121823/4	Analysis Batch:	490-121823	Instrument ID:	HP33
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11141304.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/14/2013 1016	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/14/2013 1016				
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	91	93	54 - 145	3	21		
Benzene	97	100	80 - 121	3	17		
Bromochloromethane	103	108	78 - 129	5	17		
Bromodichloromethane	94	99	75 - 129	4	18		
Bromoform	83	89	46 - 145	7	16		
Bromomethane	93	93	41 - 150	1	50		
2-Butanone (MEK)	101	106	62 - 133	5	19		
Carbon disulfide	89	92	77 - 126	3	21		
Carbon tetrachloride	95	101	64 - 147	6	19		
Chlorobenzene	99	103	80 - 120	4	14		
Chlorodibromomethane	80	87	69 - 133	8	15		
Chloroethane	85	87	72 - 120	3	20		
Chloroform	92	96	73 - 129	4	18		
Chloromethane	79	79	12 - 150	0	31		
cis-1,2-Dichloroethene	101	106	76 - 125	5	17		
cis-1,3-Dichloropropene	101	109	74 - 140	7	15		
Cyclohexane	97	98	73 - 122	2	16		
1,2-Dibromo-3-Chloropropane	85	93	54 - 125	8	24		
1,2-Dibromoethane (EDB)	94	103	80 - 129	9	15		
1,2-Dichlorobenzene	97	102	80 - 121	5	15		
1,3-Dichlorobenzene	98	103	80 - 122	5	15		
1,4-Dichlorobenzene	96	103	80 - 120	8	15		
Dichlorodifluoromethane	91	94	37 - 127	3	18		
1,1-Dichloroethane	95	100	78 - 125	6	17		
1,2-Dichloroethane	92	101	77 - 121	9	17		
1,1-Dichloroethene	100	101	79 - 124	1	17		
1,2-Dichloropropane	95	100	75 - 120	5	17		
Ethylbenzene	95	98	80 - 130	3	15		
2-Hexanone	96	104	60 - 142	9	15		
Isopropylbenzene	97	101	80 - 141	5	16		
Methyl acetate	76	83	64 - 150	8	31		
Methylcyclohexane	100	102	71 - 129	2	19		
Methylene Chloride	96	100	79 - 123	4	17		
4-Methyl-2-pentanone (MIBK)	105	114	60 - 137	8	17		
Methyl tert-butyl ether	90	96	72 - 133	6	16		
N-Propylbenzene	91	96	75 - 129	5	17		

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-121823

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-121823/3	Analysis Batch:	490-121823	Instrument ID:	HP33
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11141303.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/14/2013 0949	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/14/2013 0949				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-121823/4	Analysis Batch:	490-121823	Instrument ID:	HP33
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11141304.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/14/2013 1016	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/14/2013 1016				
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Styrene	99	103	80 - 127	4	24		
1,1,2,2-Tetrachloroethane	94	98	69 - 131	5	20		
Tetrachloroethene	100	105	80 - 126	5	16		
Tetrahydrofuran	85	91	51 - 124	6	18		
Toluene	102	107	80 - 126	5	15		
trans-1,2-Dichloroethene	91	96	79 - 126	6	16		
trans-1,3-Dichloropropene	95	103	63 - 134	8	14		
1,2,4-Trichlorobenzene	107	105	63 - 133	1	19		
1,1,1-Trichloroethane	92	97	78 - 135	4	17		
1,1,2-Trichloroethane	100	107	80 - 124	7	15		
Trichloroethene	102	105	80 - 123	3	17		
Trichlorofluoromethane	86	89	65 - 124	3	18		
1,1,2-Trichloro-1,2,2-trichfluoroethane	102	106	77 - 129	4	18		
Vinyl chloride	85	87	68 - 120	2	17		
Xylenes, Total	92	97	80 - 132	5	15		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	89	91	70 - 130
Dibromofluoromethane (Surr)	100	101	70 - 130
1,2-Dichloroethane-d4 (Surr)	91	93	70 - 130
Toluene-d8 (Surr)	104	105	70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 490-121823

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-121823/3	Units: ug/L		LCSD Lab Sample ID:	LCSD 490-121823/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/14/2013 0949			Analysis Date:	11/14/2013 1016
Prep Date:	11/14/2013 0949			Prep Date:	11/14/2013 1016
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Acetone	100	100	90.95	93.49
Benzene	20.0	20.0	19.50	20.10
Bromochloromethane	20.0	20.0	20.54	21.55
Bromodichloromethane	20.0	20.0	18.88	19.74
Bromoform	20.0	20.0	16.52	17.77
Bromomethane	20.0	20.0	18.70	18.58
2-Butanone (MEK)	100	100	100.8	106.2
Carbon disulfide	20.0	20.0	17.73	18.33
Carbon tetrachloride	20.0	20.0	18.92	20.16
Chlorobenzene	20.0	20.0	19.83	20.68
Chlorodibromomethane	20.0	20.0	16.05	17.40
Chloroethane	20.0	20.0	16.96	17.40
Chloroform	20.0	20.0	18.37	19.11
Chloromethane	20.0	20.0	15.81	15.88
cis-1,2-Dichloroethene	20.0	20.0	20.23	21.30
cis-1,3-Dichloropropene	20.0	20.0	20.29	21.78
Cyclohexane	20.0	20.0	19.31	19.65
1,2-Dibromo-3-Chloropropane	20.0	20.0	17.04	18.53
1,2-Dibromoethane (EDB)	20.0	20.0	18.76	20.62
1,2-Dichlorobenzene	20.0	20.0	19.45	20.49
1,3-Dichlorobenzene	20.0	20.0	19.69	20.70
1,4-Dichlorobenzene	20.0	20.0	19.14	20.68
Dichlorodifluoromethane	20.0	20.0	18.22	18.82
1,1-Dichloroethane	20.0	20.0	18.91	20.09
1,2-Dichloroethane	20.0	20.0	18.38	20.13
1,1-Dichloroethene	20.0	20.0	20.04	20.25
1,2-Dichloropropane	20.0	20.0	18.97	19.99
Ethylbenzene	20.0	20.0	19.05	19.67
2-Hexanone	100	100	95.51	104.0
Isopropylbenzene	20.0	20.0	19.33	20.24
Methyl acetate	100	100	76.29	82.87
Methylcyclohexane	20.0	20.0	19.91	20.38
Methylene Chloride	20.0	20.0	19.20	19.99
4-Methyl-2-pentanone (MIBK)	100	100	105.0	114.3
Methyl tert-butyl ether	20.0	20.0	17.98	19.15
N-Propylbenzene	20.0	20.0	18.27	19.13
Styrene	20.0	20.0	19.73	20.58
1,1,2,2-Tetrachloroethane	20.0	20.0	18.76	19.67
Tetrachloroethene	20.0	20.0	20.09	21.04

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 490-121823

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-121823/3	Units: ug/L		LCSD Lab Sample ID:	LCSD 490-121823/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/14/2013 0949			Analysis Date:	11/14/2013 1016
Prep Date:	11/14/2013 0949			Prep Date:	11/14/2013 1016
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Tetrahydrofuran	40.0	40.0	34.18	36.31
Toluene	20.0	20.0	20.34	21.39
trans-1,2-Dichloroethene	20.0	20.0	18.12	19.18
trans-1,3-Dichloropropene	20.0	20.0	18.97	20.52
1,2,4-Trichlorobenzene	20.0	20.0	21.30	20.99
1,1,1-Trichloroethane	20.0	20.0	18.46	19.31
1,1,2-Trichloroethane	20.0	20.0	20.09	21.48
Trichloroethene	20.0	20.0	20.42	20.98
Trichlorofluoromethane	20.0	20.0	17.28	17.83
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	20.0	20.33	21.12
Vinyl chloride	20.0	20.0	17.07	17.45
Xylenes, Total	40.0	40.0	36.95	38.75

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-121823

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-39510-B-1 MS	Analysis Batch:	490-121823	Instrument ID:	HP33
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11141326.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/14/2013 2032			Final Weight/Volume:	5 mL
Prep Date:	11/14/2013 2032				
Leach Date:	N/A				

MSD Lab Sample ID:	490-39510-C-1 MSD	Analysis Batch:	490-121823	Instrument ID:	HP33
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11141327.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/14/2013 2059			Final Weight/Volume:	5 mL
Prep Date:	11/14/2013 2059				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	88	93	45 - 141	5	21		
Benzene	99	104	75 - 133	5	17		
Bromochloromethane	104	108	67 - 139	4	17		
Bromodichloromethane	101	104	70 - 140	3	18		
Bromoform	88	93	42 - 147	5	16		
Bromomethane	58	80	16 - 163	32	50		
2-Butanone (MEK)	97	103	50 - 138	6	19		
Carbon disulfide	93	99	48 - 152	6	21		
Carbon tetrachloride	104	110	62 - 164	5	19		
Chlorobenzene	100	104	80 - 129	5	14		
Chlorodibromomethane	86	90	66 - 140	5	15		
Chloroethane	98	101	58 - 137	3	20		
Chloroform	95	98	66 - 138	3	18		
Chloromethane	83	87	10 - 169	5	31		
cis-1,2-Dichloroethene	101	106	68 - 138	4	17		
cis-1,3-Dichloropropene	104	108	71 - 141	4	15		
Cyclohexane	101	105	58 - 144	4	16		
1,2-Dibromo-3-Chloropropane	85	90	52 - 126	6	24		
1,2-Dibromoethane (EDB)	95	100	75 - 137	5	15		
1,2-Dichlorobenzene	97	103	79 - 128	6	15		
1,3-Dichlorobenzene	98	103	77 - 131	5	15		
1,4-Dichlorobenzene	97	103	78 - 126	6	15		
Dichlorodifluoromethane	109	113	40 - 127	4	18		
1,1-Dichloroethane	100	103	71 - 139	2	17		
1,2-Dichloroethane	93	96	64 - 136	3	17		
1,1-Dichloroethene	109	108	70 - 142	1	17		
1,2-Dichloropropane	98	101	67 - 131	3	17		
Ethylbenzene	98	103	79 - 139	5	15		
2-Hexanone	102	107	50 - 150	6	15		
Isopropylbenzene	103	107	80 - 153	4	16		
Methyl acetate	74	77	30 - 165	3	31		
Methylcyclohexane	105	109	59 - 151	4	19		
Methylene Chloride	98	101	64 - 139	3	17		

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-121823

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-39510-B-1 MS	Analysis Batch:	490-121823	Instrument ID:	HP33
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11141326.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/14/2013 2032			Final Weight/Volume:	5 mL
Prep Date:	11/14/2013 2032				
Leach Date:	N/A				

MSD Lab Sample ID:	490-39510-C-1 MSD	Analysis Batch:	490-121823	Instrument ID:	HP33
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11141327.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/14/2013 2059			Final Weight/Volume:	5 mL
Prep Date:	11/14/2013 2059				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
4-Methyl-2-pentanone (MIBK)	109	115	50 - 147	5	17		
Methyl tert-butyl ether	91	95	66 - 141	4	16		
N-Propylbenzene	96	100	69 - 142	4	17		
Styrene	102	105	61 - 148	3	24		
1,1,2,2-Tetrachloroethane	94	99	56 - 143	5	20		
Tetrachloroethene	104	109	72 - 145	5	16		
Tetrahydrofuran	84	94	34 - 133	5	18		
Toluene	103	108	75 - 136	5	15		
trans-1,2-Dichloroethene	99	102	66 - 143	3	16		
trans-1,3-Dichloropropene	98	103	59 - 135	5	14		
1,2,4-Trichlorobenzene	102	112	60 - 136	10	19		
1,1,1-Trichloroethane	99	103	76 - 149	4	17		
1,1,2-Trichloroethane	98	103	74 - 134	5	15		
Trichloroethene	104	108	73 - 144	4	17		
Trichlorofluoromethane	105	109	58 - 139	4	18		
1,1,2-Trichloro-1,2,2-trichfluoroethane	106	110	72 - 148	4	18		
Vinyl chloride	100	105	56 - 129	5	17		
Xylenes, Total	98	101	74 - 141	3	15		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	91	92	70 - 130
Dibromofluoromethane (Surr)	101	101	70 - 130
1,2-Dichloroethane-d4 (Surr)	92	94	70 - 130
Toluene-d8 (Surr)	101	102	70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-121823

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-39510-B-1 MS	Units:	ug/L	MSD Lab Sample ID:	490-39510-C-1 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/14/2013 2032			Analysis Date:	11/14/2013 2059
Prep Date:	11/14/2013 2032			Prep Date:	11/14/2013 2059
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Acetone	18.8		250	250	239.2	252.4
Benzene	1.12		50.0	50.0	50.56	52.96
Bromochloromethane	ND		50.0	50.0	51.86	54.03
Bromodichloromethane	ND		50.0	50.0	50.70	52.16
Bromoform	ND		50.0	50.0	44.20	46.49
Bromomethane	ND		50.0	50.0	29.04	39.96
2-Butanone (MEK)	7.82	J	250	250	249.7	264.7
Carbon disulfide	ND		50.0	50.0	46.68	49.43
Carbon tetrachloride	ND		50.0	50.0	52.08	54.80
Chlorobenzene	ND		50.0	50.0	49.78	52.10
Chlorodibromomethane	ND		50.0	50.0	43.08	45.12
Chloroethane	ND		50.0	50.0	49.03	50.28
Chloroform	ND		50.0	50.0	47.41	48.88
Chloromethane	ND		50.0	50.0	41.33	43.32
cis-1,2-Dichloroethene	ND		50.0	50.0	50.73	52.81
cis-1,3-Dichloropropene	ND		50.0	50.0	51.79	54.10
Cyclohexane	6.89		50.0	50.0	57.41	59.62
1,2-Dibromo-3-Chloropropane	ND		50.0	50.0	42.39	45.05
1,2-Dibromoethane (EDB)	ND		50.0	50.0	47.50	50.15
1,2-Dichlorobenzene	ND		50.0	50.0	48.57	51.75
1,3-Dichlorobenzene	ND		50.0	50.0	48.97	51.69
1,4-Dichlorobenzene	ND		50.0	50.0	48.49	51.32
Dichlorodifluoromethane	ND		50.0	50.0	54.33	56.40
1,1-Dichloroethane	ND		50.0	50.0	50.08	51.28
1,2-Dichloroethane	ND		50.0	50.0	46.58	48.11
1,1-Dichloroethene	ND		50.0	50.0	54.65	53.99
1,2-Dichloropropane	ND		50.0	50.0	48.93	50.30
Ethylbenzene	0.417	J	50.0	50.0	49.39	51.73
2-Hexanone	ND		250	250	253.9	268.6
Isopropylbenzene	0.921	J	50.0	50.0	52.28	54.52
Methyl acetate	ND		250	250	185.8	191.9
Methylcyclohexane	2.12	J	50.0	50.0	54.43	56.83
Methylene Chloride	ND		50.0	50.0	48.75	50.45
4-Methyl-2-pentanone (MIBK)	ND		250	250	273.7	288.3
Methyl tert-butyl ether	3.99		50.0	50.0	49.35	51.27
N-Propylbenzene	1.78		50.0	50.0	49.76	51.99
Styrene	ND		50.0	50.0	50.94	52.48
1,1,2,2-Tetrachloroethane	ND		50.0	50.0	46.96	49.34
Tetrachloroethene	0.646	J	50.0	50.0	52.81	55.35
Tetrahydrofuran	124		100	100	208.0	217.7
Toluene	0.188	J	50.0	50.0	51.62	54.08
trans-1,2-Dichloroethene	ND		50.0	50.0	49.69	50.99
trans-1,3-Dichloropropene	ND		50.0	50.0	49.20	51.47

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-121823

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-39510-B-1 MS	Units:	ug/L	MSD Lab Sample ID:	490-39510-C-1 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/14/2013 2032			Analysis Date:	11/14/2013 2059
Prep Date:	11/14/2013 2032			Prep Date:	11/14/2013 2059
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,2,4-Trichlorobenzene	ND		50.0	50.0	50.82	56.16
1,1,1-Trichloroethane	ND		50.0	50.0	49.60	51.53
1,1,2-Trichloroethane	ND		50.0	50.0	49.13	51.65
Trichloroethene	0.402	J	50.0	50.0	52.43	54.35
Trichlorofluoromethane	ND		50.0	50.0	52.52	54.72
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		50.0	50.0	52.91	55.24
Vinyl chloride	ND		50.0	50.0	49.77	52.46
Xylenes, Total	0.549	J	100	100	98.54	102.0

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Method Blank - Batch: 490-121948

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-121948/4	Analysis Batch:	490-121948	Instrument ID:	HP33
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11141332.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/14/2013 2314	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/14/2013 2314				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND		0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	ND		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND		2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Method Blank - Batch: 490-121948

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-121948/4	Analysis Batch:	490-121948	Instrument ID:	HP33
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11141332.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/14/2013 2314	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/14/2013 2314				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,2-Trichloroethane	ND		0.190	1.00
Trichloroethene	ND		0.200	1.00
Trichlorofluoromethane	ND		0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	ND		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	95	70 - 130
Dibromofluoromethane (Surr)	101	70 - 130
1,2-Dichloroethane-d4 (Surr)	93	70 - 130
Toluene-d8 (Surr)	104	70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Lab Control Sample - Batch: 490-121948

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 490-121948/3	Analysis Batch:	490-121948	Instrument ID:	HP33
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11141330.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/14/2013 2220	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/14/2013 2220				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	100	99.90	100	54 - 145	
Benzene	20.0	20.70	103	80 - 121	
Bromochloromethane	20.0	21.58	108	78 - 129	
Bromodichloromethane	20.0	20.25	101	75 - 129	
Bromoform	20.0	17.70	89	46 - 145	
Bromomethane	20.0	14.95	75	41 - 150	
2-Butanone (MEK)	100	104.4	104	62 - 133	
Carbon disulfide	20.0	19.60	98	77 - 126	
Carbon tetrachloride	20.0	20.20	101	64 - 147	
Chlorobenzene	20.0	21.14	106	80 - 120	
Chlorodibromomethane	20.0	17.52	88	69 - 133	
Chloroethane	20.0	17.74	89	72 - 120	
Chloroform	20.0	19.80	99	73 - 129	
Chloromethane	20.0	15.43	77	12 - 150	
cis-1,2-Dichloroethene	20.0	21.33	107	76 - 125	
cis-1,3-Dichloropropene	20.0	21.29	106	74 - 140	
Cyclohexane	20.0	20.25	101	73 - 122	
1,2-Dibromo-3-Chloropropane	20.0	17.78	89	54 - 125	
1,2-Dibromoethane (EDB)	20.0	20.42	102	80 - 129	
1,2-Dichlorobenzene	20.0	20.79	104	80 - 121	
1,3-Dichlorobenzene	20.0	20.70	104	80 - 122	
1,4-Dichlorobenzene	20.0	20.68	103	80 - 120	
Dichlorodifluoromethane	20.0	19.55	98	37 - 127	
1,1-Dichloroethane	20.0	20.51	103	78 - 125	
1,2-Dichloroethane	20.0	20.12	101	77 - 121	
1,1-Dichloroethene	20.0	22.12	111	79 - 124	
1,2-Dichloropropane	20.0	20.16	101	75 - 120	
Ethylbenzene	20.0	20.46	102	80 - 130	
2-Hexanone	100	99.45	99	60 - 142	
Isopropylbenzene	20.0	20.97	105	80 - 141	
Methyl acetate	100	81.63	82	64 - 150	
Methylcyclohexane	20.0	20.83	104	71 - 129	
Methylene Chloride	20.0	20.90	105	79 - 123	
4-Methyl-2-pentanone (MIBK)	100	110.3	110	60 - 137	
Methyl tert-butyl ether	20.0	19.35	97	72 - 133	
N-Propylbenzene	20.0	19.53	98	75 - 129	
Styrene	20.0	21.13	106	80 - 127	
1,1,2,2-Tetrachloroethane	20.0	20.00	100	69 - 131	
Tetrachloroethene	20.0	21.42	107	80 - 126	
Tetrahydrofuran	40.0	35.24	88	51 - 124	
Toluene	20.0	21.61	108	80 - 126	
trans-1,2-Dichloroethene	20.0	20.03	100	79 - 126	
trans-1,3-Dichloropropene	20.0	19.49	97	63 - 134	
1,2,4-Trichlorobenzene	20.0	20.82	104	63 - 133	
1,1,1-Trichloroethane	20.0	19.93	100	78 - 135	
1,1,2-Trichloroethane	20.0	21.63	108	80 - 124	

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Lab Control Sample - Batch: 490-121948

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 490-121948/3	Analysis Batch:	490-121948	Instrument ID:	HP33
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11141330.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/14/2013 2220	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/14/2013 2220				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Trichloroethene	20.0	21.76	109	80 - 123	
Trichlorofluoromethane	20.0	18.45	92	65 - 124	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	21.13	106	77 - 129	
Vinyl chloride	20.0	18.26	91	68 - 120	
Xylenes, Total	40.0	41.06	103	80 - 132	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	90	70 - 130
Dibromofluoromethane (Surr)	101	70 - 130
1,2-Dichloroethane-d4 (Surr)	96	70 - 130
Toluene-d8 (Surr)	102	70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-121948

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-40098-B-1 MS	Analysis Batch:	490-121948	Instrument ID:	HP33
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11141351.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/15/2013 0746			Final Weight/Volume:	5 mL
Prep Date:	11/15/2013 0746				
Leach Date:	N/A				

MSD Lab Sample ID:	490-40098-C-1 MSD	Analysis Batch:	490-121948	Instrument ID:	HP33
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11141352.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/15/2013 0813			Final Weight/Volume:	5 mL
Prep Date:	11/15/2013 0813				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	72	79	45 - 141	6	21		
Benzene	100	103	75 - 133	3	17		
Bromochloromethane	104	106	67 - 139	2	17		
Bromodichloromethane	101	103	70 - 140	2	18		
Bromoform	87	89	42 - 147	3	16		
Bromomethane	66	77	16 - 163	16	50		
2-Butanone (MEK)	89	94	50 - 138	4	19		
Carbon disulfide	96	99	48 - 152	3	21		
Carbon tetrachloride	104	108	62 - 164	4	19		
Chlorobenzene	101	102	80 - 129	1	14		
Chlorodibromomethane	86	90	66 - 140	4	15		
Chloroethane	100	102	58 - 137	2	20		
Chloroform	95	97	66 - 138	2	18		
Chloromethane	91	92	10 - 169	1	31		
cis-1,2-Dichloroethene	99	98	68 - 138	0	17		
cis-1,3-Dichloropropene	99	103	71 - 141	4	15		
Cyclohexane	105	106	58 - 144	1	16		
1,2-Dibromo-3-Chloropropane	84	86	52 - 126	2	24		
1,2-Dibromoethane (EDB)	97	100	75 - 137	3	15		
1,2-Dichlorobenzene	98	101	79 - 128	2	15		
1,3-Dichlorobenzene	100	99	77 - 131	1	15		
1,4-Dichlorobenzene	98	100	78 - 126	2	15		
Dichlorodifluoromethane	107	107	40 - 127	0	18		
1,1-Dichloroethane	100	101	71 - 139	1	17		
1,2-Dichloroethane	92	95	64 - 136	3	17		
1,1-Dichloroethene	107	109	70 - 142	3	17		
1,2-Dichloropropane	96	98	67 - 131	3	17		
Ethylbenzene	99	100	79 - 139	1	15		
2-Hexanone	102	105	50 - 150	3	15		
Isopropylbenzene	103	105	80 - 153	2	16		
Methyl acetate	60	64	30 - 165	7	31		
Methylcyclohexane	103	107	59 - 151	4	19		
Methylene Chloride	97	99	64 - 139	2	17		

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-121948

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-40098-B-1 MS	Analysis Batch:	490-121948	Instrument ID:	HP33
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11141351.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/15/2013 0746			Final Weight/Volume:	5 mL
Prep Date:	11/15/2013 0746				
Leach Date:	N/A				

MSD Lab Sample ID:	490-40098-C-1 MSD	Analysis Batch:	490-121948	Instrument ID:	HP33
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11141352.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/15/2013 0813			Final Weight/Volume:	5 mL
Prep Date:	11/15/2013 0813				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
4-Methyl-2-pentanone (MIBK)	107	114	50 - 147	7	17		
Methyl tert-butyl ether	92	94	66 - 141	2	16		
N-Propylbenzene	96	98	69 - 142	1	17		
Styrene	82	83	61 - 148	2	24		
1,1,2,2-Tetrachloroethane	96	97	56 - 143	1	20		
Tetrachloroethene	106	107	72 - 145	1	16		
Tetrahydrofuran	8	25	34 - 133	11	18	F	F
Toluene	104	107	75 - 136	3	15		
trans-1,2-Dichloroethene	100	101	66 - 143	1	16		
trans-1,3-Dichloropropene	95	99	59 - 135	4	14		
1,2,4-Trichlorobenzene	101	111	60 - 136	9	19		
1,1,1-Trichloroethane	98	101	76 - 149	3	17		
1,1,2-Trichloroethane	102	101	74 - 134	1	15		
Trichloroethene	102	107	73 - 144	4	17		
Trichlorofluoromethane	106	108	58 - 139	2	18		
1,1,2-Trichloro-1,2,2-trichfluoroethane	106	109	72 - 148	2	18		
Vinyl chloride	103	103	56 - 129	1	17		
Xylenes, Total	98	99	74 - 141	1	15		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	94	91	70 - 130
Dibromofluoromethane (Surr)	100	102	70 - 130
1,2-Dichloroethane-d4 (Surr)	94	95	70 - 130
Toluene-d8 (Surr)	103	105	70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-121948

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-40098-B-1 MS	Units: ug/L	MSD Lab Sample ID:	490-40098-C-1 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/15/2013 0746		Analysis Date:	11/15/2013 0813	
Prep Date:	11/15/2013 0746		Prep Date:	11/15/2013 0813	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Acetone	91.8		250	250	272.1		288.1	
Benzene	ND		50.0	50.0	49.91		51.27	
Bromochloromethane	ND		50.0	50.0	51.93		53.01	
Bromodichloromethane	ND		50.0	50.0	50.59		51.56	
Bromoform	ND		50.0	50.0	43.47		44.58	
Bromomethane	ND		50.0	50.0	32.77		38.40	
2-Butanone (MEK)	41.5	J	250	250	265.1		275.4	
Carbon disulfide	ND		50.0	50.0	48.01		49.31	
Carbon tetrachloride	ND		50.0	50.0	51.98		54.11	
Chlorobenzene	ND		50.0	50.0	50.40		51.03	
Chlorodibromomethane	ND		50.0	50.0	43.09		44.83	
Chloroethane	ND		50.0	50.0	49.76		50.98	
Chloroform	1.14		50.0	50.0	48.51		49.70	
Chloromethane	ND		50.0	50.0	45.45		46.09	
cis-1,2-Dichloroethene	ND		50.0	50.0	49.30		49.17	
cis-1,3-Dichloropropene	ND		50.0	50.0	49.62		51.74	
Cyclohexane	ND		50.0	50.0	52.54		53.25	
1,2-Dibromo-3-Chloropropane	ND		50.0	50.0	42.11		43.14	
1,2-Dibromoethane (EDB)	ND		50.0	50.0	48.30		49.78	
1,2-Dichlorobenzene	ND		50.0	50.0	49.17		50.34	
1,3-Dichlorobenzene	ND		50.0	50.0	49.93		49.38	
1,4-Dichlorobenzene	ND		50.0	50.0	49.17		50.18	
Dichlorodifluoromethane	ND		50.0	50.0	53.48		53.48	
1,1-Dichloroethane	ND		50.0	50.0	49.99		50.59	
1,2-Dichloroethane	ND		50.0	50.0	46.24		47.74	
1,1-Dichloroethene	ND		50.0	50.0	53.30		54.73	
1,2-Dichloropropane	ND		50.0	50.0	47.81		49.16	
Ethylbenzene	ND		50.0	50.0	49.57		50.20	
2-Hexanone	ND		250	250	255.3		262.3	
Isopropylbenzene	ND		50.0	50.0	51.57		52.59	
Methyl acetate	ND		250	250	149.1		159.5	
Methylcyclohexane	ND		50.0	50.0	51.31		53.65	
Methylene Chloride	ND		50.0	50.0	48.75		49.66	
4-Methyl-2-pentanone (MIBK)	ND		250	250	266.7		285.7	
Methyl tert-butyl ether	ND		50.0	50.0	45.88		46.84	
N-Propylbenzene	ND		50.0	50.0	48.17		48.78	
Styrene	ND		50.0	50.0	41.05		41.73	
1,1,2,2-Tetrachloroethane	ND		50.0	50.0	47.82		48.31	
Tetrachloroethene	2.98		50.0	50.0	55.78		56.58	
Tetrahydrofuran	135		100	100	142.7	F	159.6	F
Toluene	0.219	J	50.0	50.0	52.22		53.81	
trans-1,2-Dichloroethene	ND		50.0	50.0	50.00		50.54	
trans-1,3-Dichloropropene	ND		50.0	50.0	47.56		49.50	

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-121948

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-40098-B-1 MS	Units: ug/L	MSD Lab Sample ID:	490-40098-C-1 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/15/2013 0746		Analysis Date:	11/15/2013 0813	
Prep Date:	11/15/2013 0746		Prep Date:	11/15/2013 0813	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,2,4-Trichlorobenzene	ND	50.0	50.0	50.49	55.26
1,1,1-Trichloroethane	ND	50.0	50.0	49.20	50.69
1,1,2-Trichloroethane	ND	50.0	50.0	51.01	50.62
Trichloroethene	ND	50.0	50.0	51.21	53.44
Trichlorofluoromethane	ND	50.0	50.0	52.97	54.16
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND	50.0	50.0	53.10	54.39
Vinyl chloride	ND	50.0	50.0	51.39	51.75
Xylenes, Total	ND	100	100	98.05	99.17

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Method Blank - Batch: 490-121117

Method: 8270C
Preparation: 3510C

Lab Sample ID:	MB 490-121117/1-A	Analysis Batch:	490-121257	Instrument ID:	HP83
Client Matrix:	Water	Prep Batch:	490-121117	Lab File ID:	1112004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	11/12/2013 1812	Units:	ug/L	Final Weight/Volume:	1 mL
Prep Date:	11/12/2013 0714			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acenaphthene	ND		0.366	2.00
Acenaphthylene	ND		0.330	2.00
Acetophenone	ND		1.90	10.0
Anthracene	ND		0.883	2.00
Atrazine	ND		3.70	10.0
Benzaldehyde	ND		2.15	10.0
Benzo[a]anthracene	ND		0.324	2.00
Benzo[a]pyrene	ND		0.330	2.00
Benzo[b]fluoranthene	ND		0.422	2.00
Benzo[g,h,i]perylene	ND		0.287	2.00
Benzo[k]fluoranthene	ND		0.364	2.00
Biphenyl	ND		3.33	10.0
Bis(2-chloroethoxy)methane	ND		1.36	10.0
Bis(2-chloroethyl)ether	ND		1.39	10.0
bis (2-chloroisopropyl) ether	ND		1.96	10.0
Bis(2-ethylhexyl) phthalate	ND		2.06	10.0
4-Bromophenyl phenyl ether	ND		1.37	10.0
Butyl benzyl phthalate	ND		1.74	10.0
Caprolactam	ND		3.33	10.0
Carbazole	ND		0.299	10.0
4-Chloroaniline	ND		1.17	10.0
4-Chloro-3-methylphenol	ND		3.33	10.0
2-Chloronaphthalene	ND		1.64	10.0
2-Chlorophenol	ND		1.59	10.0
4-Chlorophenyl phenyl ether	ND		1.75	10.0
Chrysene	ND		1.09	2.00
Dibenz(a,h)anthracene	ND		0.644	2.00
Dibenzofuran	ND		0.339	10.0
3,3'-Dichlorobenzidine	ND		1.52	10.0
2,4-Dichlorophenol	ND		1.02	10.0
Diethyl phthalate	ND		1.62	10.0
2,4-Dimethylphenol	ND		0.996	10.0
Dimethyl phthalate	ND		1.81	10.0
Di-n-butyl phthalate	ND		1.50	10.0
4,6-Dinitro-2-methylphenol	ND		2.07	25.0
2,4-Dinitrophenol	ND		2.46	25.0
2,4-Dinitrotoluene	ND		3.33	10.0
2,6-Dinitrotoluene	ND		1.94	10.0
Di-n-octyl phthalate	ND		2.31	10.0
Fluoranthene	ND		0.347	2.00
Fluorene	ND		0.316	2.00
Hexachlorobenzene	ND		1.69	10.0
Hexachlorobutadiene	ND		3.33	10.0
Hexachlorocyclopentadiene	ND		3.33	10.0
Hexachloroethane	ND		3.33	10.0

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Method Blank - Batch: 490-121117

Method: 8270C
Preparation: 3510C

Lab Sample ID:	MB 490-121117/1-A	Analysis Batch:	490-121257	Instrument ID:	HP83
Client Matrix:	Water	Prep Batch:	490-121117	Lab File ID:	1112004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	11/12/2013 1812	Units:	ug/L	Final Weight/Volume:	1 mL
Prep Date:	11/12/2013 0714			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Indeno[1,2,3-cd]pyrene	ND		0.381	2.00
Isophorone	ND		1.24	10.0
2-Methylnaphthalene	ND		0.311	2.00
2-Methylphenol	ND		3.33	10.0
3 & 4 Methylphenol	ND		3.33	10.0
Naphthalene	ND		0.398	2.00
2-Nitroaniline	ND		1.04	25.0
3-Nitroaniline	ND		1.85	25.0
4-Nitroaniline	ND		2.39	25.0
Nitrobenzene	ND		1.24	10.0
2-Nitrophenol	ND		1.57	10.0
4-Nitrophenol	ND		3.33	25.0
N-Nitrosodi-n-propylamine	ND		1.42	10.0
n-Nitrosodiphenylamine(as diphenylamine)	ND		1.44	10.0
Pentachlorophenol	ND		1.65	25.0
Phenanthrene	ND		0.343	2.00
Phenol	ND		3.45	10.0
Pyrene	ND		0.331	2.00
2,4,5-Trichlorophenol	ND		2.03	25.0
2,4,6-Trichlorophenol	ND		1.76	10.0

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	62	29 - 120
2-Fluorophenol (Surr)	10	10 - 120
Nitrobenzene-d5 (Surr)	66	27 - 120
Phenol-d5 (Surr)	18	10 - 120
Terphenyl-d14 (Surr)	81	13 - 120
2,4,6-Tribromophenol (Surr)	16	10 - 120

Lab Control Sample - Batch: 490-121117

Method: 8270C
Preparation: 3510C

Lab Sample ID:	LCS 490-121117/2-A	Analysis Batch:	490-121257	Instrument ID:	HP83
Client Matrix:	Water	Prep Batch:	490-121117	Lab File ID:	1112005.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	11/12/2013 1834	Units:	ug/L	Final Weight/Volume:	1 mL
Prep Date:	11/12/2013 0714			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	50.0	38.57	77	46 - 120	
Acenaphthylene	50.0	37.66	75	48 - 120	
Acetophenone	50.0	34.97	70	52 - 133	
Anthracene	50.0	39.10	78	58 - 130	
Atrazine	50.0	38.51	77	24 - 133	
Benzaldehyde	50.0	72.54	145	34 - 120	*
Benzo[a]anthracene	50.0	40.15	80	57 - 120	
Benzo[a]pyrene	50.0	39.50	79	57 - 124	
Benzo[b]fluoranthene	50.0	37.66	75	51 - 125	
Benzo[g,h,i]perylene	50.0	39.54	79	51 - 123	
Benzo[k]fluoranthene	50.0	41.78	84	51 - 120	
Biphenyl	50.0	34.23	68	10 - 146	
Bis(2-chloroethoxy)methane	50.0	34.07	68	44 - 120	
Bis(2-chloroethyl)ether	50.0	33.27	67	47 - 120	
bis (2-chloroisopropyl) ether	50.0	24.96	50	44 - 120	
Bis(2-ethylhexyl) phthalate	50.0	42.15	84	47 - 138	
4-Bromophenyl phenyl ether	50.0	39.47	79	47 - 127	
Butyl benzyl phthalate	50.0	42.65	85	51 - 146	
Caprolactam	50.0	11.47	23	10 - 120	
Carbazole	50.0	39.48	79	54 - 123	
4-Chloroaniline	50.0	31.54	63	44 - 120	
4-Chloro-3-methylphenol	50.0	37.43	75	44 - 120	
2-Chloronaphthalene	50.0	34.66	69	39 - 120	
2-Chlorophenol	50.0	31.23	62	40 - 120	
4-Chlorophenyl phenyl ether	50.0	38.44	77	50 - 120	
Chrysene	50.0	41.84	84	55 - 120	
Dibenz(a,h)anthracene	50.0	39.26	79	50 - 125	
Dibenzofuran	50.0	38.00	76	50 - 120	
3,3'-Dichlorobenzidine	50.0	33.04	66	46 - 129	
2,4-Dichlorophenol	50.0	36.86	74	38 - 120	
Diethyl phthalate	50.0	39.70	79	54 - 128	
2,4-Dimethylphenol	50.0	28.25	56	21 - 126	
Dimethyl phthalate	50.0	40.08	80	53 - 127	
Di-n-butyl phthalate	50.0	40.84	82	54 - 140	
4,6-Dinitro-2-methylphenol	100	80.88	81	19 - 150	
2,4-Dinitrophenol	100	84.66	85	20 - 150	
2,4-Dinitrotoluene	50.0	41.08	82	46 - 132	
2,6-Dinitrotoluene	50.0	42.78	86	54 - 128	
Di-n-octyl phthalate	50.0	43.70	87	50 - 142	
Fluoranthene	50.0	40.87	82	56 - 120	
Fluorene	50.0	38.94	78	52 - 120	
Hexachlorobenzene	50.0	40.13	80	48 - 131	
Hexachlorobutadiene	50.0	17.45	35	28 - 120	
Hexachlorocyclopentadiene	50.0	24.86	50	17 - 120	
Hexachloroethane	50.0	15.45	31	30 - 120	
Indeno[1,2,3-cd]pyrene	50.0	39.07	78	54 - 125	

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Lab Control Sample - Batch: 490-121117

Method: 8270C
Preparation: 3510C

Lab Sample ID:	LCS 490-121117/2-A	Analysis Batch:	490-121257	Instrument ID:	HP83
Client Matrix:	Water	Prep Batch:	490-121117	Lab File ID:	1112005.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	11/12/2013 1834	Units:	ug/L	Final Weight/Volume:	1 mL
Prep Date:	11/12/2013 0714			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Isophorone	50.0	38.46	77	47 - 120	
2-Methylnaphthalene	50.0	28.73	57	31 - 120	
2-Methylphenol	50.0	30.18	60	38 - 120	
3 & 4 Methylphenol	50.0	28.46	57	33 - 120	
Naphthalene	50.0	25.10	50	37 - 120	
2-Nitroaniline	50.0	43.70	87	46 - 131	
3-Nitroaniline	50.0	39.98	80	54 - 121	
4-Nitroaniline	50.0	41.75	83	55 - 123	
Nitrobenzene	50.0	33.77	68	36 - 120	
2-Nitrophenol	50.0	35.33	71	32 - 120	
4-Nitrophenol	100	32.71	33	10 - 120	
N-Nitrosodi-n-propylamine	50.0	36.53	73	51 - 120	
n-Nitrosodiphenylamine(as diphenylamine)	50.0	48.36	97	58 - 149	
Pentachlorophenol	100	82.42	82	21 - 150	
Phenanthrene	50.0	39.23	78	56 - 120	
Phenol	50.0	14.49	29	14 - 120	
Pyrene	50.0	40.64	81	53 - 129	
2,4,5-Trichlorophenol	50.0	40.28	81	40 - 129	
2,4,6-Trichlorophenol	50.0	40.52	81	39 - 135	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	71	29 - 120
2-Fluorophenol (Surr)	41	10 - 120
Nitrobenzene-d5 (Surr)	69	27 - 120
Phenol-d5 (Surr)	27	10 - 120
Terphenyl-d14 (Surr)	78	13 - 120
2,4,6-Tribromophenol (Surr)	82	10 - 120

DATA REPORTING QUALIFIERS

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Lab Section	Qualifier	Description
GC/MS VOA		
	F	MS/MSD Recovery and/or RPD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC/MS Semi VOA		
	*	LCS or LCSD exceeds the control limits

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:490-121823					
LCS 490-121823/3	Lab Control Sample	T	Water	8260B	
LCSD 490-121823/4	Lab Control Sample Duplicate	T	Water	8260B	
MB 490-121823/5	Method Blank	T	Water	8260B	
490-39510-B-1 MS	Matrix Spike	T	Water	8260B	
490-39510-C-1 MSD	Matrix Spike Duplicate	T	Water	8260B	
490-39536-8TB	Trip Blank	T	Water	8260B	
Analysis Batch:490-121948					
LCS 490-121948/3	Lab Control Sample	T	Water	8260B	
MB 490-121948/4	Method Blank	T	Water	8260B	
490-39536-1	MW-01A-GW-001	T	Water	8260B	
490-39536-3	MW-01B-GW-001	T	Water	8260B	
490-39536-5	MW-02A-GW-001	T	Water	8260B	
490-39536-7	MW-02B-GW-001	T	Water	8260B	
490-40098-B-1 MS	Matrix Spike	T	Water	8260B	
490-40098-C-1 MSD	Matrix Spike Duplicate	T	Water	8260B	

Report Basis
T = Total

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 490-121117					
LCS 490-121117/2-A	Lab Control Sample	T	Water	3510C	
MB 490-121117/1-A	Method Blank	T	Water	3510C	
490-39536-1	MW-01A-GW-001	T	Water	3510C	
490-39536-3	MW-01B-GW-001	T	Water	3510C	
490-39536-5	MW-02A-GW-001	T	Water	3510C	
490-39536-7	MW-02B-GW-001	T	Water	3510C	
Analysis Batch:490-121257					
LCS 490-121117/2-A	Lab Control Sample	T	Water	8270C	490-121117
MB 490-121117/1-A	Method Blank	T	Water	8270C	490-121117
490-39536-1	MW-01A-GW-001	T	Water	8270C	490-121117
490-39536-3	MW-01B-GW-001	T	Water	8270C	490-121117
490-39536-5	MW-02A-GW-001	T	Water	8270C	490-121117
490-39536-7	MW-02B-GW-001	T	Water	8270C	490-121117

Report Basis
T = Total

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Laboratory Chronicle

Lab ID: 490-39536-1 **Client ID:** MW-01A-GW-001

Sample Date/Time: 11/05/2013 09:07 Received Date/Time: 11/06/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39536-A-1		490-121948		11/14/2013 23:41	1	TAL NSH	JJR
A:8260B	490-39536-A-1		490-121948		11/14/2013 23:41	1	TAL NSH	JJR
P:3510C	490-39536-T-1-A		490-121257	490-121117	11/12/2013 07:14	1	TAL NSH	LSR
A:8270C	490-39536-T-1-A		490-121257	490-121117	11/12/2013 18:56	1	TAL NSH	BES

Lab ID: 490-39536-3 **Client ID:** MW-01B-GW-001

Sample Date/Time: 11/05/2013 11:45 Received Date/Time: 11/06/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39536-A-3		490-121948		11/15/2013 00:08	1	TAL NSH	JJR
A:8260B	490-39536-A-3		490-121948		11/15/2013 00:08	1	TAL NSH	JJR
P:3510C	490-39536-T-3-A		490-121257	490-121117	11/12/2013 07:14	1	TAL NSH	LSR
A:8270C	490-39536-T-3-A		490-121257	490-121117	11/12/2013 19:19	1	TAL NSH	BES

Lab ID: 490-39536-5 **Client ID:** MW-02A-GW-001

Sample Date/Time: 11/05/2013 14:22 Received Date/Time: 11/06/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39536-A-5		490-121948		11/15/2013 00:35	1	TAL NSH	JJR
A:8260B	490-39536-A-5		490-121948		11/15/2013 00:35	1	TAL NSH	JJR
P:3510C	490-39536-T-5-A		490-121257	490-121117	11/12/2013 07:14	1	TAL NSH	LSR
A:8270C	490-39536-T-5-A		490-121257	490-121117	11/12/2013 19:41	1	TAL NSH	BES

Lab ID: 490-39536-7 **Client ID:** MW-02B-GW-001

Sample Date/Time: 11/05/2013 16:15 Received Date/Time: 11/06/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39536-A-7		490-121948		11/15/2013 01:02	1	TAL NSH	JJR
A:8260B	490-39536-A-7		490-121948		11/15/2013 01:02	1	TAL NSH	JJR
P:3510C	490-39536-V-7-A		490-121257	490-121117	11/12/2013 07:14	1	TAL NSH	LSR
A:8270C	490-39536-V-7-A		490-121257	490-121117	11/12/2013 20:03	1	TAL NSH	BES

Lab ID: 490-39536-8 **Client ID:** Trip Blank

Sample Date/Time: 11/05/2013 00:01 Received Date/Time: 11/06/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39536-A-8		490-121823		11/14/2013 12:58	1	TAL NSH	JJR
A:8260B	490-39536-A-8		490-121823		11/14/2013 12:58	1	TAL NSH	JJR

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Laboratory Chronicle

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 490-121823/5		490-121823		11/14/2013 11:10	1	TAL NSH	JJR
A:8260B	MB 490-121823/5		490-121823		11/14/2013 11:10	1	TAL NSH	JJR
P:5030B	MB 490-121948/4		490-121948		11/14/2013 23:14	1	TAL NSH	JJR
A:8260B	MB 490-121948/4		490-121948		11/14/2013 23:14	1	TAL NSH	JJR
P:3510C	MB 490-121117/1-A		490-121257	490-121117	11/12/2013 07:14	1	TAL NSH	LSR
A:8270C	MB 490-121117/1-A		490-121257	490-121117	11/12/2013 18:12	1	TAL NSH	BES

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 490-121823/3		490-121823		11/14/2013 09:49	1	TAL NSH	JJR
A:8260B	LCS 490-121823/3		490-121823		11/14/2013 09:49	1	TAL NSH	JJR
P:5030B	LCS 490-121948/3		490-121948		11/14/2013 22:20	1	TAL NSH	JJR
A:8260B	LCS 490-121948/3		490-121948		11/14/2013 22:20	1	TAL NSH	JJR
P:3510C	LCS 490-121117/2-A		490-121257	490-121117	11/12/2013 07:14	1	TAL NSH	LSR
A:8270C	LCS 490-121117/2-A		490-121257	490-121117	11/12/2013 18:34	1	TAL NSH	BES

Lab ID: LCSD **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 490-121823/4		490-121823		11/14/2013 10:16	1	TAL NSH	JJR
A:8260B	LCSD 490-121823/4		490-121823		11/14/2013 10:16	1	TAL NSH	JJR

Lab ID: MS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39510-B-1 MS		490-121823		11/14/2013 20:32	1	TAL NSH	JJR
A:8260B	490-39510-B-1 MS		490-121823		11/14/2013 20:32	1	TAL NSH	JJR
P:5030B	490-40098-B-1 MS		490-121948		11/15/2013 07:46	1	TAL NSH	JJR
A:8260B	490-40098-B-1 MS		490-121948		11/15/2013 07:46	1	TAL NSH	JJR

Client: Haley & Aldrich, Inc. Job Number: 490-39536-2

Laboratory Chronicle

Lab ID: **MSD** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39510-C-1 MSD		490-121823		11/14/2013 20:59	1	TAL NSH	JJR
A:8260B	490-39510-C-1 MSD		490-121823		11/14/2013 20:59	1	TAL NSH	JJR
P:5030B	490-40098-C-1 MSD		490-121948		11/15/2013 08:13	1	TAL NSH	JJR
A:8260B	490-40098-C-1 MSD		490-121948		11/15/2013 08:13	1	TAL NSH	JJR

Lab References:
TAL NSH = TestAmerica Nashville

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
BNA ICV_MIX1_00008	03/13/14	09/26/13	Methanol, Lot ust methanol 11	100 mL	BNA_List1Std1_00011	5 mL	2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Anthracene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Biphenyl	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
					BNA_List1Std2_00012	5 mL	3,3'-Dichlorobenzidine	100 ug/mL
							Atrazine	100 ug/mL
							Caprolactam	100 ug/mL
					BNA_List1Std5_00009	5 mL	n-Nitrosodiphenylamine(as diphenylamine)	100 ug/mL
					BNA_List1Std6_00010	5 mL	Benzaldehyde	100 ug/mL
.BNA_List1Std1_00011	09/30/14		Restek, Lot A094002		(Purchased Reagent)		2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
.BNA_List1Std2_00012	08/31/14		Restek, Lot A093775		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Caprolactam	2000 ug/mL
.BNA_List1Std5_00009	02/28/15		Restek, Lot A093671		(Purchased Reagent)		n-Nitrosodiphenylamine(as diphenylamine)	2000 ug/mL
.BNA_List1Std6_00010	08/31/14		Restek, Lot A093656		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
BNA ICV_MIX1_00009	03/13/14	10/31/13	Methanol, Lot ust methanol 11	100 mL	BNA_List1Std1_00011	5 mL	1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Biphenyl	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Hexadecane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					BNA_List1Std2_00012	5 mL	3,3'-Dichlorobenzidine	100 ug/mL
							Atrazine	100 ug/mL
							Benzidine	100 ug/mL
							Caprolactam	100 ug/mL
					BNA_List1Std3_00003	5 mL	Benzoic acid	200 ug/mL
					BNA_List1Std3_00007	5 mL	Benzoic acid	200 ug/mL
					BNA_List1Std4_00007	5 mL	Indene	100 ug/mL
					BNA_List1Std5_00009	5 mL	n-Nitrosodiphenylamine(as diphenylamine)	100 ug/mL
					BNA_List1Std6_00010	5 mL	Benzaldehyde	100 ug/mL
.BNA_List1Std1_00011	09/30/14		Restek, Lot A094002		(Purchased Reagent)		1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
.BNA_List1Std2_00012	08/31/14		Restek, Lot A093775		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
.BNA_List1Std3_00003	02/28/16		Restek, Lot A093654		(Purchased Reagent)		Benzoic acid	2000 ug/mL
.BNA_List1Std3_00007	02/28/16		Restek, Lot A093654		(Purchased Reagent)		Benzoic acid	2000 ug/mL
.BNA_List1Std4_00007	08/31/14		Restek, Lot A093668		(Purchased Reagent)		Indene	2000 ug/mL
.BNA_List1Std5_00009	02/28/15		Restek, Lot A093671		(Purchased Reagent)		n-Nitrosodiphenylamine(as diphenylamine)	2000 ug/mL
.BNA_List1Std6_00010	08/31/14		Restek, Lot A093656		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
BNA List 1cal_00001	10/24/13	04/24/13	MeCl2, Lot OP_MECL2_006	50 mL	BNA_List1Std1_00003	10 mL	1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	200 ug/mL
							Anthracene	200 ug/mL
							Azobenzene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Benzyl alcohol	200 ug/mL
							Biphenyl	200 ug/mL
							bis (2-chloroisopropyl) ether	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	200 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					BNA_List1Std2_00001	5 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Atrazine	200 ug/mL
							Benzidine	200 ug/mL
							Caprolactam	200 ug/mL
					BNA_List1Std3_00001	5 mL	Benzoic acid	200 ug/mL
					BNA_List1Std4_00001	5 mL	Indene	200 ug/mL
					BNA_List1Std5_00001	5 mL	n-Nitrosodiphenylamine(as diphenylamine)	200 ug/mL
					BNA_List1Std6_00001	5 mL	Benzaldehyde	200 ug/mL
					BNA_Surrogate_00001	2 mL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
.BNA_List1Std1_00003	08/31/14		Restek, Lot A093709		(Purchased Reagent)		1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
.BNA_List1Std2_00001	08/31/14		Restek, Lot A093755		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
.BNA_List1Std3_00001	02/28/16		Restek, Lot A093441		(Purchased Reagent)		Benzoic acid	2000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.BNA_List1Std4_00001	08/31/14		Restek, Lot A093730		(Purchased Reagent)		Indene	2000 ug/mL
.BNA_List1Std5_00001	02/28/15		Restek, Lot A093442		(Purchased Reagent)		n-Nitrosodiphenylamine(as diphenylamine)	2000 ug/mL
.BNA_List1Std6_00001	08/31/14		Restek, Lot A093445		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
.BNA_Surrogate_00001	02/28/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
BNA List 1cal_00002	04/17/14	10/17/13	MeCl2, Lot OP_MECL2_011	50 mL	BNA_List1Std1_00007	5 mL	2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Biphenyl	200 ug/mL
							bis (2-chloroisopropyl) ether	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
					BNA_List1Std2_00011	5 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Atrazine	200 ug/mL
							Caprolactam	200 ug/mL
					BNA_List1Std5_00008	5 mL	n-Nitrosodiphenylamine(as diphenylamine)	200 ug/mL
					BNA_List1Std6_00009	5 mL	Benzaldehyde	200 ug/mL
					BNA_Surrogate_00002	2 mL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
.BNA_List1Std1_00007	08/31/14		Restek, Lot A093709		(Purchased Reagent)		2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
.BNA_List1Std2_00011	01/31/15		Restek, Lot A097020		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Caprolactam	2000 ug/mL
.BNA_List1Std5_00008	02/28/15		Restek, Lot A093442		(Purchased Reagent)		n-Nitrosodiphenylamine(as diphenylamine)	2000 ug/mL
.BNA_List1Std6_00009	08/31/14		Restek, Lot A093445		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
.BNA_Surrogate_00002	02/28/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
BNA_W_IS_2000_00002	12/15/13	06/15/13	n/a, Lot n/a	5 mL	BNA_S_IS_2000_00003	5 mL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.BNA_S_IS_2000_00003	02/28/18		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
OP_1:1 Sulfur_00003	04/07/14		Macron, Lot 0000053267		(Purchased Reagent)		Stock Chemical	50 %
OP_BNA_Surr_00011	09/30/15		Ultra, Lot CK-2907		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	50 ug/mL
							2-Fluorobiphenyl (Surr)	50 ug/mL
							2-Fluorophenol (Surr)	50 ug/mL
							Nitrobenzene-d5 (Surr)	50 ug/mL
							Phenol-d5 (Surr)	50 ug/mL
							Terphenyl-d14 (Surr)	50 ug/mL
OP_MeCl2_00019	12/04/14		J.T. Baker, Lot 0000058238		(Purchased Reagent)		Methylene Chloride	0 %
OP_NaOH_00006	08/03/15		VWR, Lot 310803		(Purchased Reagent)		Sodium Hydroxide	0 mL/L
OP_NaSO4_00016	04/15/18		J.T. Baker, Lot 0000049016		(Purchased Reagent)		Stock Chemical	0 %
V1_gases_I_00025	10/24/13	10/17/13	Methanol, Lot 0000038701	25 mL	V1_Gases_00003	1.25 mL	Bromomethane	100 ug/mL
							Butadiene	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Dichlorofluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.V1_Gases_00003	02/28/15		Restek, Lot A093341		(Purchased Reagent)		Bromomethane	2000000 ug/L
							Butadiene	2000000 ug/L
							Chloroethane	2000000 ug/L
							Chloromethane	2000000 ug/L
							Dichlorodifluoromethane	2000000 ug/L

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorofluoromethane	2000000 ug/L
							Trichlorofluoromethane	2000000 ug/L
							Vinyl chloride	2000000 ug/L
V1_gases_I_00028	11/16/13	11/09/13	Methanol, Lot 0000038701	25 mL	V1_Gases_00003	1.25 mL	Bromomethane	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.V1_Gases_00003	02/28/15		Restek, Lot A093341		(Purchased Reagent)		Bromomethane	2000000 ug/L
							Chloroethane	2000000 ug/L
							Chloromethane	2000000 ug/L
							Dichlorodifluoromethane	2000000 ug/L
							Trichlorofluoromethane	2000000 ug/L
							Vinyl chloride	2000000 ug/L
V1_Mega_I_00009	10/30/13	09/30/13	Methanol, Lot 123279	50 mL	V1_2-CEVE_00002	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					V1_Acrolein_00007	2.5 mL	Acrolein	250 ug/mL
					V1_Additions_00003	2.5 mL	1,2,3-Trimethylbenzene	100 ug/mL
							1,3,5-Trichlorobenzene	100 ug/mL
							2-Chloro-1,3-butadiene	100 ug/mL
							2-Nitropropane	200 ug/mL
							Acetonitrile	1000 ug/mL
							Benzyl chloride	100 ug/mL
							Ethanol	5000 ug/mL
							Ethyl acetate	200 ug/mL
							Ethyl acrylate	100 ug/mL
							Isopropyl alcohol	1000 ug/mL
							Isopropyl ether	100 ug/mL
							Methacrylonitrile	1000 ug/mL
							Methyl methacrylate	200 ug/mL
							n-Butanol	2500 ug/mL
							n-Butyl acetate	100 ug/mL
							Propionitrile	1000 ug/mL
							Tert-amyl methyl ether	100 ug/mL
							Tert-butyl ethyl ether	100 ug/mL
					V1_cyclohxnon_00002	2.5 mL	Cyclohexanone	1000 ug/mL
					V1_Keytones_00002	2.5 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					V1_Megamix_00005	2.5 mL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane (EDB)	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromochloromethane	100 ug/mL
							Bromodichloromethane	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	1000 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	500 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
					V1_vnl acetat_00003	2.5 mL	Vinyl acetate	200 ug/mL
.V1_2-CEVE_00002	02/28/16		Restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000000 ug/L
.V1_Acrolein_00007	12/31/13		Restek, Lot A097557		(Purchased Reagent)		Acrolein	5000000 ug/L
.V1_Additions_00003	08/30/14		Restek, Lot A093634		(Purchased Reagent)		1,2,3-Trimethylbenzene	2000000 ug/L
							1,3,5-Trichlorobenzene	2000000 ug/L
							2-Chloro-1,3-butadiene	2000000 ug/L
							2-Nitropropane	4000000 ug/L
							Acetonitrile	20000000 ug/L
							Benzyl chloride	2000000 ug/L
							Ethanol	100000000 ug/L
							Ethyl acetate	4000000 ug/L
							Ethyl acrylate	2000000 ug/L
							Isopropyl alcohol	20000000 ug/L
							Isopropyl ether	2000000 ug/L
							Methacrylonitrile	20000000 ug/L
							Methyl methacrylate	4000000 ug/L
							n-Butanol	50000000 ug/L
							n-Butyl acetate	2000000 ug/L
							Propionitrile	20000000 ug/L
							Tert-amyl methyl ether	2000000 ug/L
							Tert-butyl ethyl ether	2000000 ug/L
.V1_cyclohxnon_00002	02/28/16		Restek, Lot A093361		(Purchased Reagent)		Cyclohexanone	20000000 ug/L
.V1_Keytones_00002	02/28/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000000 ug/L
							2-Hexanone	10000000 ug/L
							4-Methyl-2-pentanone (MIBK)	10000000 ug/L
							Acetone	10000000 ug/L
.V1_Megamix_00005	02/28/16		Restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000000 ug/L
							1,1,1-Trichloroethane	2000000 ug/L
							1,1,2,2-Tetrachloroethane	2000000 ug/L

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2000000 ug/L
							1,1,2-Trichloroethane	2000000 ug/L
							1,1-Dichloroethane	2000000 ug/L
							1,1-Dichloroethene	2000000 ug/L
							1,1-Dichloropropene	2000000 ug/L
							1,2,3-Trichlorobenzene	2000000 ug/L
							1,2,3-Trichloropropane	2000000 ug/L
							1,2,4-Trichlorobenzene	2000000 ug/L
							1,2,4-Trimethylbenzene	2000000 ug/L
							1,2-Dibromo-3-Chloropropane	2000000 ug/L
							1,2-Dibromoethane (EDB)	2000000 ug/L
							1,2-Dichlorobenzene	2000000 ug/L
							1,2-Dichloroethane	2000000 ug/L
							1,2-Dichloropropane	2000000 ug/L
							1,3,5-Trimethylbenzene	2000000 ug/L
							1,3-Dichlorobenzene	2000000 ug/L
							1,3-Dichloropropane	2000000 ug/L
							1,4-Dichlorobenzene	2000000 ug/L
							1,4-Dioxane	40000000 ug/L
							2,2-Dichloropropane	2000000 ug/L
							2-Chlorotoluene	2000000 ug/L
							2-Methyl-2-propanol	20000000 ug/L
							3-Chloro-1-propene	2000000 ug/L
							4-Chlorotoluene	2000000 ug/L
							4-Isopropyltoluene	2000000 ug/L
							Acrylonitrile	20000000 ug/L
							Benzene	2000000 ug/L
							Bromobenzene	2000000 ug/L
							Bromochloromethane	2000000 ug/L
							Bromodichloromethane	2000000 ug/L
							Bromoform	2000000 ug/L
							Carbon disulfide	2000000 ug/L
							Carbon tetrachloride	2000000 ug/L
							Chlorobenzene	2000000 ug/L
							Chlorodibromomethane	2000000 ug/L
							Chloroform	2000000 ug/L
							cis-1,2-Dichloroethene	2000000 ug/L
							cis-1,3-Dichloropropene	2000000 ug/L
							Cyclohexane	2000000 ug/L
							Dibromomethane	2000000 ug/L
							Ethyl ether	2000000 ug/L
							Ethyl methacrylate	2000000 ug/L
							Ethylbenzene	2000000 ug/L
							Hexachlorobutadiene	2000000 ug/L
							Hexane	2000000 ug/L
							Iodomethane	2000000 ug/L
							Isobutyl alcohol	20000000 ug/L

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropylbenzene	2000000 ug/L
							m-Xylene & p-Xylene	2000000 ug/L
							Methyl acetate	10000000 ug/L
							Methyl tert-butyl ether	2000000 ug/L
							Methylcyclohexane	2000000 ug/L
							Methylene Chloride	2000000 ug/L
							n-Butylbenzene	2000000 ug/L
							n-Heptane	2000000 ug/L
							N-Propylbenzene	2000000 ug/L
							Naphthalene	2000000 ug/L
							o-Xylene	2000000 ug/L
							sec-Butylbenzene	2000000 ug/L
							Styrene	2000000 ug/L
							tert-Butylbenzene	2000000 ug/L
							Tetrachloroethene	2000000 ug/L
							Tetrahydrofuran	4000000 ug/L
							Toluene	2000000 ug/L
							trans-1,2-Dichloroethene	2000000 ug/L
							trans-1,3-Dichloropropene	2000000 ug/L
							trans-1,4-Dichloro-2-butene	2000000 ug/L
							Trichloroethene	2000000 ug/L
.V1_vnl acetat_00003	12/31/13	Restek, Lot A096198			(Purchased Reagent)		Vinyl acetate	4000000 ug/L
V1_Mega_I_00010	11/26/13	10/26/13	Methanol, Lot 0000049909	50 mL	V1_Keytones_00003	2.5 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					V1_Megamix_00005	2.5 mL	1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane (EDB)	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							Benzene	100 ug/mL
							Bromochloromethane	100 ug/mL
							Bromodichloromethane	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Ethylbenzene	100 ug/mL
							Isopropylbenzene	100 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Styrene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							Trichloroethene	100 ug/mL
							Xylenes, Total	200 ug/mL
.V1_Keytones_00003	02/28/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000000 ug/L
							2-Hexanone	10000000 ug/L
							4-Methyl-2-pentanone (MIBK)	10000000 ug/L
							Acetone	10000000 ug/L
.V1_Megamix_00005	02/28/16		Restek, Lot A093581		(Purchased Reagent)		1,1,1-Trichloroethane	2000000 ug/L
							1,1,2,2-Tetrachloroethane	2000000 ug/L
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2000000 ug/L
							1,1,2-Trichloroethane	2000000 ug/L
							1,1-Dichloroethane	2000000 ug/L
							1,1-Dichloroethene	2000000 ug/L
							1,2,4-Trichlorobenzene	2000000 ug/L
							1,2-Dibromo-3-Chloropropane	2000000 ug/L
							1,2-Dibromoethane (EDB)	2000000 ug/L
							1,2-Dichlorobenzene	2000000 ug/L
							1,2-Dichloroethane	2000000 ug/L
							1,2-Dichloropropane	2000000 ug/L
							1,3-Dichlorobenzene	2000000 ug/L
							1,4-Dichlorobenzene	2000000 ug/L
							Benzene	2000000 ug/L
							Bromochloromethane	2000000 ug/L
							Bromodichloromethane	2000000 ug/L
							Bromoform	2000000 ug/L
							Carbon disulfide	2000000 ug/L
							Carbon tetrachloride	2000000 ug/L
							Chlorobenzene	2000000 ug/L
							Chlorodibromomethane	2000000 ug/L

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroform	2000000 ug/L
							cis-1,2-Dichloroethene	2000000 ug/L
							cis-1,3-Dichloropropene	2000000 ug/L
							Cyclohexane	2000000 ug/L
							Ethylbenzene	2000000 ug/L
							Isopropylbenzene	2000000 ug/L
							Methyl acetate	10000000 ug/L
							Methyl tert-butyl ether	2000000 ug/L
							Methylcyclohexane	2000000 ug/L
							Methylene Chloride	2000000 ug/L
							N-Propylbenzene	2000000 ug/L
							Styrene	2000000 ug/L
							Tetrachloroethene	2000000 ug/L
							Tetrahydrofuran	4000000 ug/L
							Toluene	2000000 ug/L
							trans-1,2-Dichloroethene	2000000 ug/L
							trans-1,3-Dichloropropene	2000000 ug/L
							Trichloroethene	2000000 ug/L
							Xylenes, Total	4000000 ug/L
V2_gases_I_00012	10/24/13	10/17/13	Methanol, Lot 124454	25 mL	V2_Gases_00003	1.25 mL	Bromomethane	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.V2_Gases_00003	02/28/15		Restek, Lot A093618		(Purchased Reagent)		Bromomethane	2000000 ug/L
							Chloroethane	2000000 ug/L
							Chloromethane	2000000 ug/L
							Dichlorodifluoromethane	2000000 ug/L
							Trichlorofluoromethane	2000000 ug/L
							Vinyl chloride	2000000 ug/L
V2_Mega_I_00005	10/20/13	09/20/13	Methanol, Lot 124454	10 mL	V2_Keytones_00001	0.5 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					V2_Megamix_00002	0.5 mL	1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane (EDB)	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloropropane	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							Benzene	100 ug/mL
							Bromochloromethane	100 ug/mL
							Bromodichloromethane	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Ethylbenzene	100 ug/mL
							Isopropylbenzene	100 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Styrene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							Trichloroethene	100 ug/mL
							Xylenes, Total	200 ug/mL
.V2_Keytones_00001	02/28/16		Restek, Lot A093472		(Purchased Reagent)		2-Butanone (MEK)	10000000 ug/L
							2-Hexanone	10000000 ug/L
							4-Methyl-2-pentanone (MIBK)	10000000 ug/L
							Acetone	10000000 ug/L
.V2_Megamix_00002	02/28/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1-Trichloroethane	2000000 ug/L
							1,1,2,2-Tetrachloroethane	2000000 ug/L
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2000000 ug/L
							1,1,2-Trichloroethane	2000000 ug/L
							1,1-Dichloroethane	2000000 ug/L
							1,1-Dichloroethene	2000000 ug/L
							1,2,4-Trichlorobenzene	2000000 ug/L
							1,2-Dibromo-3-Chloropropane	2000000 ug/L
							1,2-Dibromoethane (EDB)	2000000 ug/L
							1,2-Dichlorobenzene	2000000 ug/L
							1,2-Dichloroethane	2000000 ug/L
							1,2-Dichloropropane	2000000 ug/L
							1,3-Dichlorobenzene	2000000 ug/L

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	2000000 ug/L
							Benzene	2000000 ug/L
							Bromochloromethane	2000000 ug/L
							Bromodichloromethane	2000000 ug/L
							Bromoform	2000000 ug/L
							Carbon disulfide	2000000 ug/L
							Carbon tetrachloride	2000000 ug/L
							Chlorobenzene	2000000 ug/L
							Chlorodibromomethane	2000000 ug/L
							Chloroform	2000000 ug/L
							cis-1,2-Dichloroethene	2000000 ug/L
							cis-1,3-Dichloropropene	2000000 ug/L
							Cyclohexane	2000000 ug/L
							Ethylbenzene	2000000 ug/L
							Isopropylbenzene	2000000 ug/L
							Methyl acetate	10000000 ug/L
							Methyl tert-butyl ether	2000000 ug/L
							Methylcyclohexane	2000000 ug/L
							Methylene Chloride	2000000 ug/L
							N-Propylbenzene	2000000 ug/L
							Styrene	2000000 ug/L
							Tetrachloroethene	2000000 ug/L
							Tetrahydrofuran	4000000 ug/L
							Toluene	2000000 ug/L
							trans-1,2-Dichloroethene	2000000 ug/L
							trans-1,3-Dichloropropene	2000000 ug/L
							Trichloroethene	2000000 ug/L
							Xylenes, Total	4000000 ug/L
VOA_ISSS150_W_00004	11/01/13	05/01/13	Methanol, Lot 124454	75 mL	VOA_IS Mix_S_00004	4.5 mL	1,4-Dichlorobenzene-d4	150 ug/mL
							Chlorobenzene-d5	150 ug/mL
							Fluorobenzene (IS)	150 ug/mL
					VOA_SS Mix_S_00003	4.5 mL	1,2-Dichloroethane-d4 (Surr)	150 ug/mL
							4-Bromofluorobenzene (Surr)	150 ug/mL
							Dibromofluoromethane (Surr)	150 ug/mL
							Toluene-d8 (Surr)	150 ug/mL
.VOA_IS Mix_S_00004	03/31/14	Ultra Scientific, Lot CJ-0470			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500000 ug/L
							Chlorobenzene-d5	2500000 ug/L
							Fluorobenzene (IS)	2500000 ug/L
.VOA_SS Mix_S_00003	09/30/14	Ultra Scientific, Lot CJ-3029			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500000 ug/L
							4-Bromofluorobenzene (Surr)	2500000 ug/L
							Dibromofluoromethane (Surr)	2500000 ug/L
							Toluene-d8 (Surr)	2500000 ug/L
VOA_ISSS150_W_00006	11/19/13	05/01/13	Methanol, Lot 124454	75 mL	VOA_SS Mix_S_00003	4.5 mL	1,2-Dichloroethane-d4 (Surr)	150 ug/mL
							4-Bromofluorobenzene (Surr)	150 ug/mL
							Dibromofluoromethane (Surr)	150 ug/mL
							Toluene-d8 (Surr)	150 ug/mL
.VOA_SS Mix_S_00003	09/30/14	Ultra Scientific, Lot CJ-3029			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Bromofluorobenzene (Surr)	2500000 ug/L
							Dibromofluoromethane (Surr)	2500000 ug/L
							Toluene-d8 (Surr)	2500000 ug/L

10	1,2-Dichlorobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 95-50-1.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
11	Benzyl alcohol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 100-51-6.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
12	Bis(2-chloroisopropyl)ether	720.0	µg/mL	+/-	4.1861	µg/mL	Gravimetric
	CAS # 108-60-1.SEC			+/-	6.3329	µg/mL	Unstressed
	Purity 72%			+/-	12.5198	µg/mL	Stressed
13	2-Methylphenol (o-cresol)	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 95-48-7.SEC			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
14	Acetophenone	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 98-86-2.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
15	Hexachloroethane	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 67-72-1.SEC			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
16	N-Nitroso-di-n-propylamine	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 621-64-7.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
17	4-Methylphenol (p-cresol)	500.0	µg/mL	+/-	2.9138	µg/mL	Gravimetric
	CAS # 106-44-5.SEC			+/-	4.4023	µg/mL	Unstressed
	Purity 99%			+/-	8.6966	µg/mL	Stressed
18	3-Methylphenol (m-cresol)	500.0	µg/mL	+/-	2.9138	µg/mL	Gravimetric
	CAS # 108-39-4.SEC			+/-	4.4023	µg/mL	Unstressed
	Purity 99%			+/-	8.6966	µg/mL	Stressed
19	n-Decane (C10)	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 124-18-5.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
20	n-Octadecane (C18)	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 593-45-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
21	Nitrobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 98-95-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
22	Isophorone	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 78-59-1.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
23	2-Nitrophenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 88-75-5.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
24	2,4-Dimethylphenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 105-67-9.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
25	Bis(2-chloroethoxy)methane	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 111-91-1			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
26	2,4-Dichlorophenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 120-83-2.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
27	1,2,4-Trichlorobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 120-82-1.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
28	Naphthalene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 91-20-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed

29	4-Chloroaniline	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 106-47-8.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
30	Hexachlorobutadiene	1,000.0	µg/mL	+/-	5.8139	µg/mL	Gravimetric
	CAS # 87-68-3.SEC			+/-	8.7954	µg/mL	Unstressed
	Purity 97%			+/-	17.3881	µg/mL	Stressed
31	2-Methylnaphthalene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 91-57-6.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
32	4-Chloro-3-methylphenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 59-50-7.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
33	1-Methylnaphthalene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 90-12-0.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
34	1,2,4,5-Tetrachlorobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 95-94-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
35	Hexachlorocyclopentadiene	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 77-47-4.SEC			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
36	2,4,6-Trichlorophenol	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 88-06-2.SEC			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
37	2,4,5-Trichlorophenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 95-95-4.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
38	2-Chloronaphthalene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 91-58-7.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
39	Biphenyl	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 92-52-4.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
40	2-Nitroaniline	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 88-74-4.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
41	Acenaphthylene	1,000.0	µg/mL	+/-	5.8139	µg/mL	Gravimetric
	CAS # 208-96-8.SEC			+/-	8.7954	µg/mL	Unstressed
	Purity 97%			+/-	17.3881	µg/mL	Stressed
42	1,3-Dinitrobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 99-65-0.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
43	Dimethylphthalate	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 131-11-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
44	2,6-Dinitrotoluene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 606-20-2.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
45	Acenaphthene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 83-32-9.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
46	3-Nitroaniline	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 99-09-2.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
47	2,4-Dinitrophenol	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 51-28-5.SEC			+/-	17.5913	µg/mL	Unstressed
	Purity 99%			+/-	34.7772	µg/mL	Stressed

BNA List 1 Std 2 00001
Rec 4/5/13
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FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567673 **Lot No.:** A093755

Description : 8270 List 1 / Std #2 Amines

8270 List 1 / Std #2 Amines 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : August 2014 **Storage:** 10°C or colder

Handling: Contains carcinogen

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	epsilon-Caprolactam	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 105-60-2		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed
2	Atrazine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 1912-24-9		+/- 17.5914	µg/mL	Unstressed
	Purity 98%		+/- 34.7774	µg/mL	Stressed
3	Benzidine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 92-87-5		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed
4	3,3'-Dichlorobenzidine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 91-94-1		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567673 **Lot No.:** A097020

Description : 8270 List 1 / Std #2 Amines

8270 List 1 / Std #2 Amines 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : January 31, 2015 **Storage:** 10°C or colder

Handling: Contains carcinogen

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)	
1	epsilon-Caprolactam	2,001.2 µg/mL	+/- 11.6351 µg/mL	Gravimetric
	CAS # 105-60-2 (Lot 10000218)		+/- 13.3830 µg/mL	Unstressed
	Purity 99%		+/- 32.8662 µg/mL	Stressed
2	Atrazine	2,003.0 µg/mL	+/- 11.6457 µg/mL	Gravimetric
	CAS # 1912-24-9 (Lot TZ8ED)		+/- 13.3952 µg/mL	Unstressed
	Purity 98%		+/- 32.8961 µg/mL	Stressed
3	Benzidine	2,005.0 µg/mL	+/- 11.6572 µg/mL	Gravimetric
	CAS # 92-87-5 (Lot 130627JLM)		+/- 13.4085 µg/mL	Unstressed
	Purity 99%		+/- 32.9286 µg/mL	Stressed
4	3,3'-Dichlorobenzidine	2,012.0 µg/mL	+/- 11.6979 µg/mL	Gravimetric
	CAS # 91-94-1 (Lot 130701JLM)		+/- 13.4553 µg/mL	Unstressed
	Purity 99%		+/- 33.0436 µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

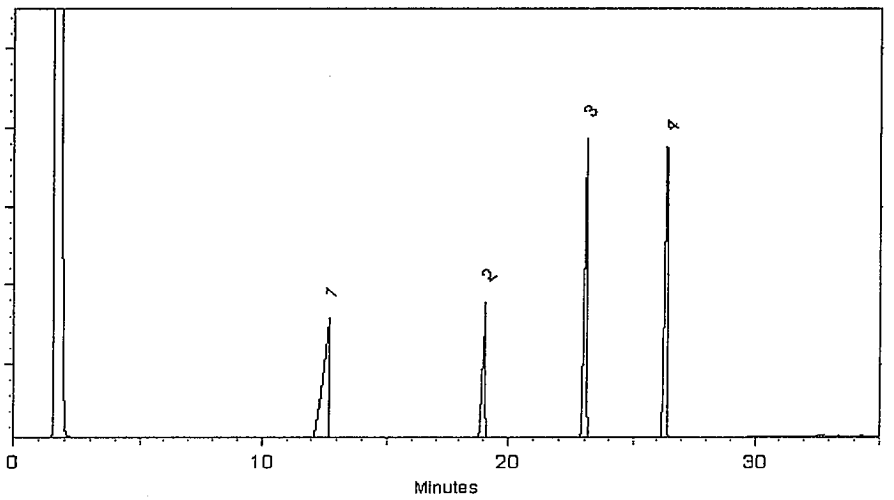
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Kendra Swope - Mix Technician

Date Mixed: 30-Jul-2013 **Balance:** 1128360905

Jodi E. Breon - QA Analyst

Date Passed: 12-Aug-2013

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567673.sec **Lot No.:** A093775

Description : 8270 List 1 / Std #2 Amines

8270 List 1 / Std #2 Amines 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : August 2014 **Storage:** 10°C or colder

Handling: Contains carcinogen

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	epsilon-Caprolactam	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 105-60-2.SEC		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed
2	Atrazine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 1912-24-9.SEC		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed
3	Benzidine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 92-87-5.SEC		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed
4	3,3'-Dichlorobenzidine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 91-94-1.SEC		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

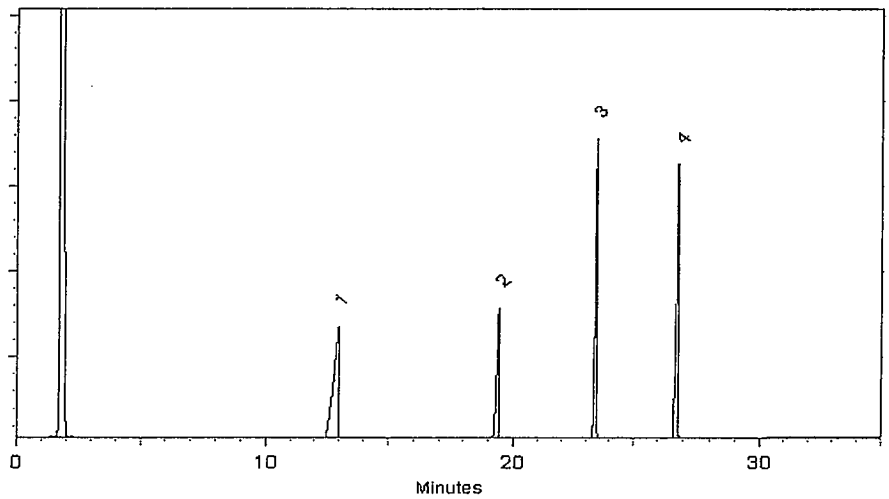
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 11-Mar-2013 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Rec 4/5/13
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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567674 **Lot No.:** A093441

Description : 8270 List 1 / Std #3 Benzoic Acid

8270 List 1 / Std #3 Benzoic Acid 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : February 2016 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Benzoic acid	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 65-85-0		+/- 96.5249	µg/mL	Unstressed
	Purity 99%		+/- 96.6077	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

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854550
ID: BNA_List1Std3_00003
Exp:02/28/16 Prpd:JLS Opn:07/13/13
S_2000PPM_2ndSource_Benzo

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

Catalog No. : 567674.sec **Lot No.:** A093654

Description : 8270 List 1 / Std #3 Benzoic Acid

8270 List 1 / Std #3 Benzoic Acid 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : February 2016 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Benzoic acid	2,000.0	µg/mL	+/- 11.6284	µg/mL	Gravimetric
	CAS # 65-85-0.SEC			+/- 96.5270	µg/mL	Unstressed
	Purity 97%			+/- 96.6098	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

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

Catalog No. : 567674.sec **Lot No.:** A093654

Description : 8270 List 1 / Std #3 Benzoic Acid

8270 List 1 / Std #3 Benzoic Acid 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : February 2016 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)		
1	Benzoic acid	2,000.0 µg/mL	+/- 11.6284	µg/mL	Gravimetric
	CAS # 65-85-0.SEC		+/- 96.5270	µg/mL	Unstressed
	Purity 97%		+/- 96.6098	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

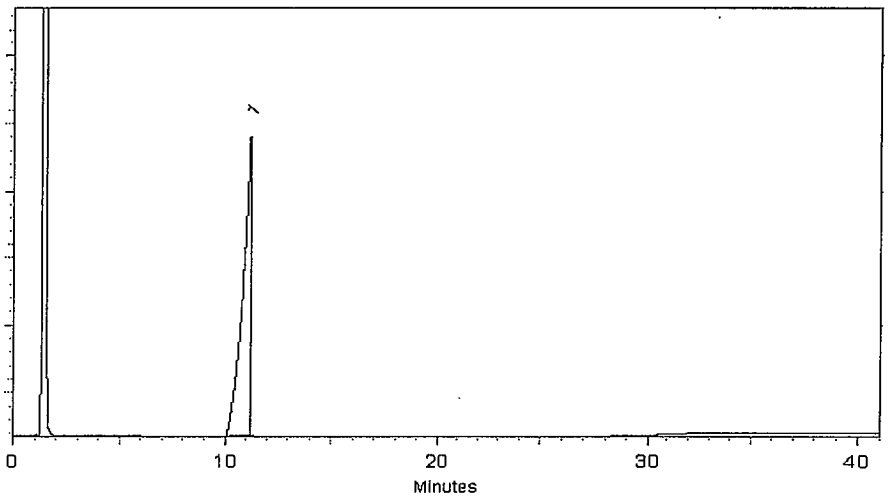
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 22-Feb-2013 Balance: 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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

Catalog No. : 567675 **Lot No.:** A093730

Description : 8270 List 1 / Std #4 Indene

8270 List 1 / Std #4 Indene 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : August 2014 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Indene	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 95-13-6		+/- 24.1076	µg/mL	Unstressed
	Purity 99%		+/- 27.2017	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

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

Catalog No. : 567675.sec **Lot No.:** A093668

Description : 8270 List 1 / Std #4 Indene

8270 List 1 / Std #4 Indene 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : August 2014 **Storage:** 10°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Indene	2,000.0 µg/mL	+/- 11.6282 µg/mL	Gravimetric
	CAS # 95-13-6.SEC		+/- 24.1076 µg/mL	Unstressed
	Purity 99%		+/- 27.2017 µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

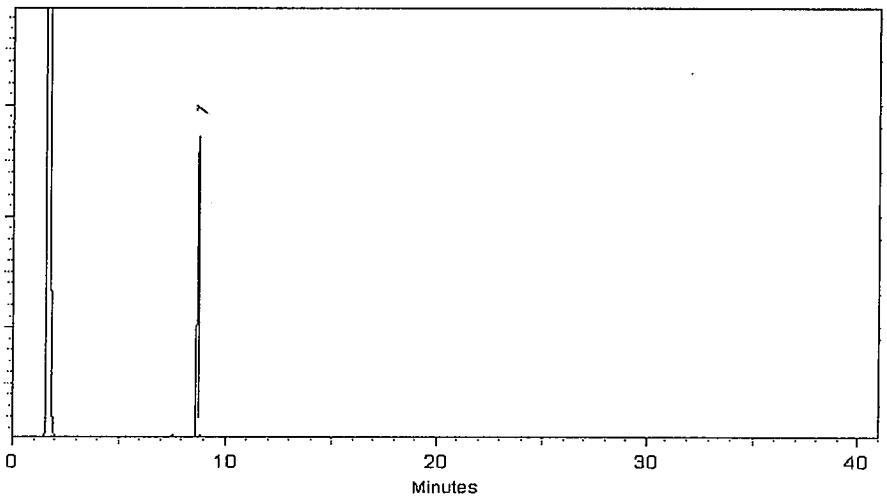
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 27-Feb-2013 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

BNA List 1 Std 5_00001
Rec 4/5/13
JLS

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FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567676 **Lot No.:** A093442

Description : 8270 List 1 / Std #5 N-Nitrosodiphenylamine

8270 List 1 / Std #5 N-Nitrosodiphenylamine 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : February 2015 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	N-Nitrosodiphenylamine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 86-30-6		+/- 17.5914	µg/mL	Unstressed
	Purity 97%		+/- 34.7774	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

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Expiration Date : February 2015 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)	
1	N-Nitrosodiphenylamine	2,000.0 µg/mL	+/- 11.6282 µg/mL	Gravimetric
	CAS # 86-30-6		+/- 17.5914 µg/mL	Unstressed
	Purity 97%		+/- 34.7774 µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

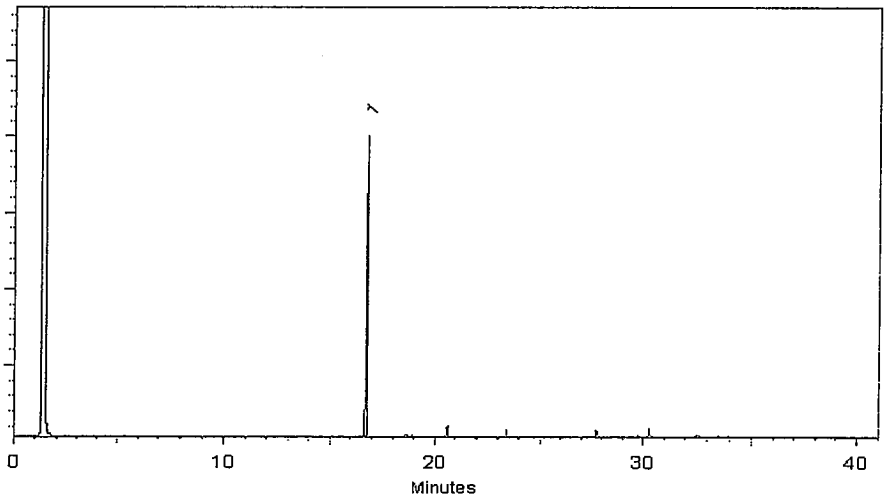
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 25-Feb-2013 Balance: 1128342313

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
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0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567676.sec **Lot No.:** A093671

Description : 8270 List 1 / Std #5 N-Nitrosodiphenylamine

8270 List 1 / Std #5 N-Nitrosodiphenylamine 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : February 2015 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	N-Nitrosodiphenylamine	1,999.9 µg/mL	+/- 11.6278	µg/mL	Gravimetric
	CAS # 86-30-6.SEC		+/- 17.5908	µg/mL	Unstressed
	Purity 95%		+/- 34.7762	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

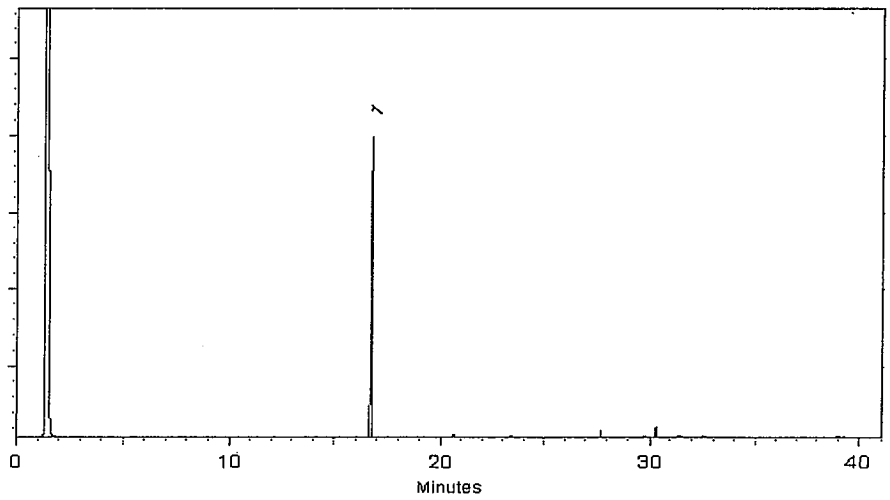
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 25-Feb-2013 Balance: 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

BNA_List1Std6-000001
Rec 4/5/13
JLS

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567677 **Lot No.:** A093445

Description : 8270 List 1 / Std #6 Benzaldehyde

8270 List 1 / Std #6 Benzaldehyde 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : August 2014 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Benzaldehyde	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 100-52-7		+/- 53.7239	µg/mL	Unstressed
	Purity 99%		+/- 66.9795	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

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Certificate of Analysis

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

Catalog No. : 567677 **Lot No.:** A093445

Description : 8270 List 1 / Std #6 Benzaldehyde

8270 List 1 / Std #6 Benzaldehyde 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : August 2014 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Benzaldehyde	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 100-52-7		+/- 53.7239	µg/mL	Unstressed
	Purity 99%		+/- 66.9795	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

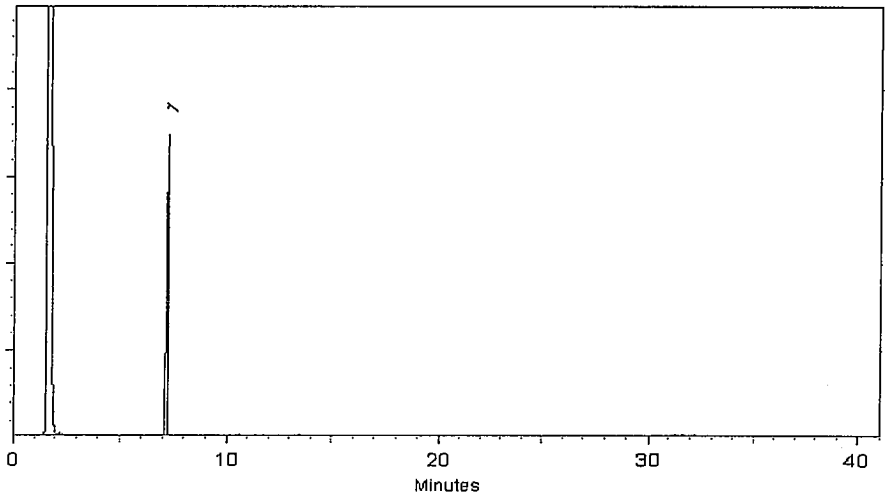
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 25-Feb-2013 Balance: 1128342313

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
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0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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Catalog No. : 567677.sec **Lot No.:** A093656

Description : 8270 List 1 / Std #6 Benzaldehyde

8270 List 1 / Std #6 Benzaldehyde 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : August 2014 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)	
1	Benzaldehyde	2,000.0 µg/mL	+/- 11.6282 µg/mL	Gravimetric
	CAS # 100-52-7.SEC		+/- 53.7239 µg/mL	Unstressed
	Purity 99%		+/- 66.9795 µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

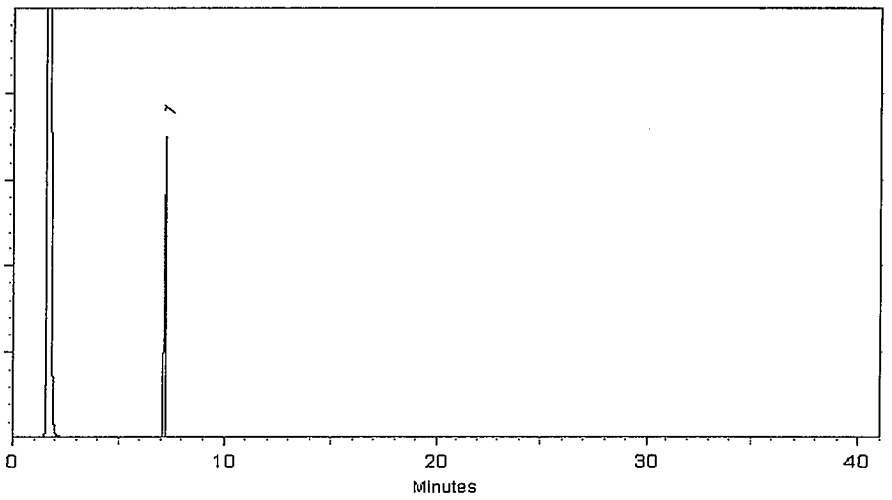
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 25-Feb-2013 Balance: 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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- Purity of isomeric compounds is reported as the sum of the isomers.
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$$U_{combined\,stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\,stability} + U^2_{shipping\,stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
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Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
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0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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854605
ID: BNA_Surrogate_00002
Exp:02/28/18 Prpd:JLS Opn:07/13/13
S5000PPM BNA Surrogate ST

Rec 7/13/13
JLS

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Testing Laboratory
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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567685 **Lot No.:** A093638

Description : 8270 Surrogate Standard

8270 Surrogate Standard 5,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : February 2018 **Storage:** 10°C or colder

Handling: Sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol	5,000.0 µg/mL	+/- 29.0689 µg/mL	Gravimetric
	CAS # 367-12-4		+/- 132.9492 µg/mL	Unstressed
	Purity 99%		+/- 163.4029 µg/mL	Stressed
2	Phenol-d5	5,000.0 µg/mL	+/- 29.0689 µg/mL	Gravimetric
	CAS # 4165-62-2		+/- 132.9492 µg/mL	Unstressed
	Purity 99%		+/- 163.4029 µg/mL	Stressed
3	Nitrobenzene-d5	5,000.0 µg/mL	+/- 29.0689 µg/mL	Gravimetric
	CAS # 4165-60-0		+/- 132.9492 µg/mL	Unstressed
	Purity 99%		+/- 163.4029 µg/mL	Stressed
4	2-Fluorobiphenyl	5,000.0 µg/mL	+/- 29.0689 µg/mL	Gravimetric
	CAS # 321-60-8		+/- 132.9492 µg/mL	Unstressed
	Purity 99%		+/- 163.4029 µg/mL	Stressed
5	2,4,6-Tribromophenol	5,000.0 µg/mL	+/- 29.0689 µg/mL	Gravimetric
	CAS # 118-79-6		+/- 132.9492 µg/mL	Unstressed
	Purity 99%		+/- 163.4029 µg/mL	Stressed
6	p-Terphenyl-d14	5,000.0 µg/mL	+/- 29.0689 µg/mL	Gravimetric
	CAS # 1718-51-0		+/- 132.9492 µg/mL	Unstressed
	Purity 99%		+/- 163.4029 µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

Custom Standard

Product Number: TAM-201 **Page:** 1 of 1

Lot Number: CK-2907 **Lot Issue Date:** 29-Aug-2013 **Expiration Date:** 30-Sep-2015

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
2-fluorobiphenyl	000321-60-8	RM06546	50.2 ± 0.3 µg/mL
nitrobenzene-d5	004165-60-0	RM01699	50.2 ± 0.3 µg/mL
p-terphenyl-d14	001718-51-0	RM06589	50.1 ± 0.3 µg/mL
2,4,6-tribromophenol	000118-79-6	RM01307	50.2 ± 0.3 µg/mL
2-fluorophenol	000367-12-4	RM03347	50.2 ± 0.3 µg/mL
phenol-d5	004165-62-2	RM06760	50.1 ± 0.3 µg/mL

Matrix: methanol/pH indicator (red-yellow 3.2-4.4)

Storage: Store at Room Temperature (15-30°C)

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ACCREDITED

ISO 17025 Accredited A2LA Cert. No. 0851-01

ISO 9001 Registered TUV USA, Inc. Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 401-295-2330
www.ultrasci.com

William J Leahy
Quality Assurance Manager

RESTEK

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639985
ID: V1_2-CEVE_00002
Exp: 02/28/16 Prpd: JH
Primary 2-chloroethylviny

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Reference Material Producer
Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567643 **Lot No.:** A093368

Description : 8260 List 1 / Std #4 2-Chloroethylvinyl Ether

8260 List 1 / Std #4 2-Chloroethylvinyl Ether 2,000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Chloroethyl vinyl ether	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 110-75-8		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed

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

Tech Tips:

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

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

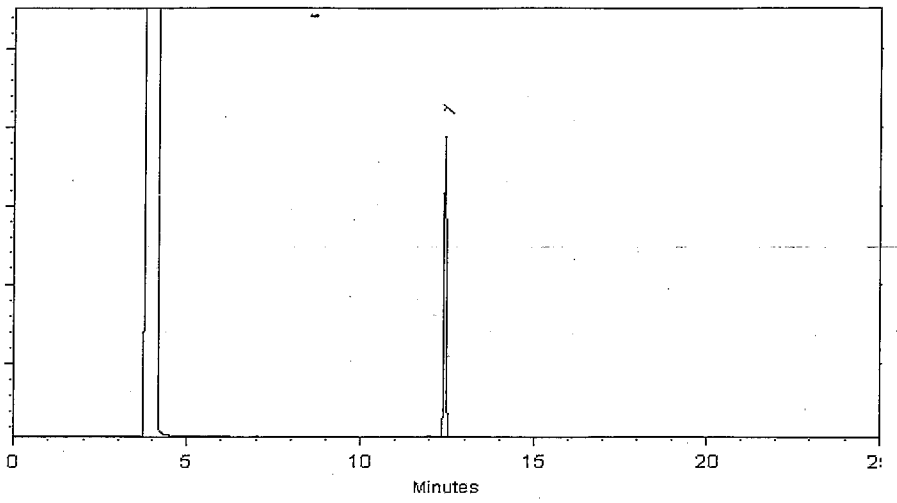
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 15-Feb-2013 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567644 **Lot No.:** A097557

Description : 8260 List 1 / Std # 5 Acrolein

8260 List 1 / Std # 5 Acrolein 5000 ug/ml, Water, 1 ml/ampul

974566
ID: V1_Acrolein_00007
Exp: 12/31/13 Prpd: JPH
Primary Acrolein @ 5000 p

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

Expiration Date : December 31, 2013 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Acrolein		5,006.0 µg/mL	+/-	29.3780	µg/mL	Gravimetric
	CAS # 107-02-8	(Lot 130301JLM)		+/-	131.3952	µg/mL	Unstressed
	Purity 99%			+/-	165.1930	µg/mL	Stressed

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

Column:
105m x 0.53mm x 3.0um
Rtx-502.2 (cat.#10910)

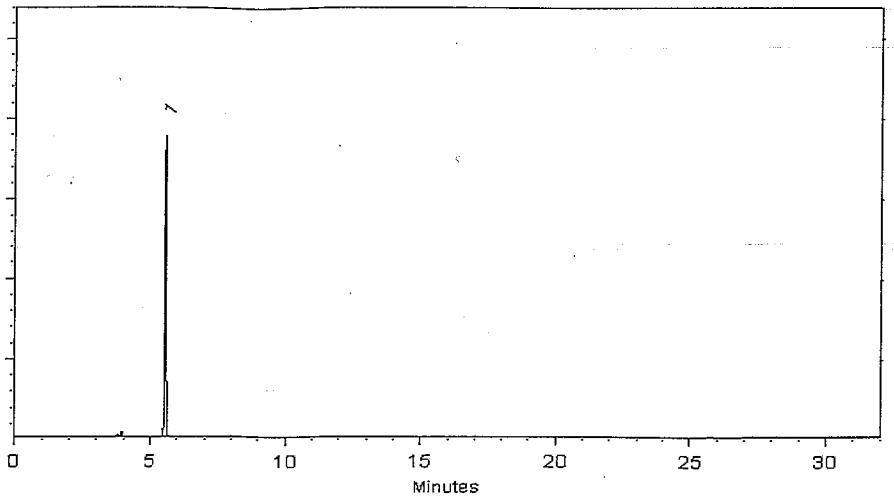
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

F. Joseph Fallon - Mix Technician **Date Mixed:** 23-Aug-2013 **Balance:** B251644995

Jodi E. Breon - QA Analyst **Date Passed:** 27-Aug-2013

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

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649600
ID: V1_cyclohxnon_00002
Exp: 02/28/16 Prpd: JH
Primary cyclohexanone @ 2

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Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567648 **Lot No.:** A093361

Description : 8260 List 2 / Std #3 Cyclohexanone

8260 List 2 / Std #3 Cyclohexanone 20,000 ug/ml, Water, 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Cyclohexanone	20,000.0 µg/mL	+/- 116.2756	µg/mL	Gravimetric
	CAS # 108-94-1		+/- 1,597.3791	µg/mL	Unstressed
	Purity 99%		+/- 1,598.1615	µg/mL	Stressed

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

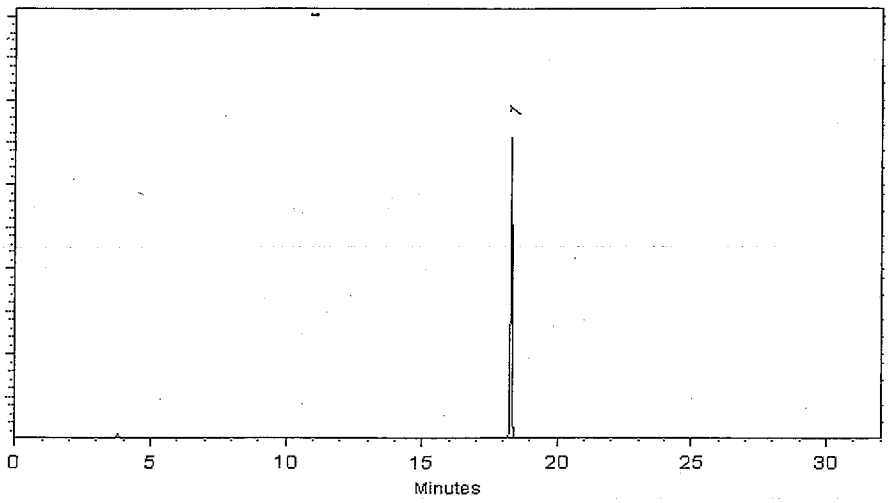
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 14-Feb-2013 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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Handling Notes:

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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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861418
ID: V1_Gases_00003
Exp: 02/28/15 Prpd: JPH
Primary Gases @ 2000ppm

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Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567645 **Lot No.:** A093341

Description : 8260 List 1 / Std #3 Gases

8260 List 1 / Std #3 Gases 2,000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)	2,000.0 µg/mL	+/- 13.8716	µg/mL	Gravimetric
	CAS # 75-71-8		+/- 25.2661	µg/mL	Unstressed
	Purity 99%		+/- 28.2336	µg/mL	Stressed
2	Chloromethane (methyl chloride)	1,999.8 µg/mL	+/- 13.9993	µg/mL	Gravimetric
	CAS # 74-87-3		+/- 25.3348	µg/mL	Unstressed
	Purity 99%		+/- 28.2945	µg/mL	Stressed
3	Vinyl chloride	2,000.1 µg/mL	+/- 13.9625	µg/mL	Gravimetric
	CAS # 75-01-4		+/- 25.3168	µg/mL	Unstressed
	Purity 99%		+/- 28.2792	µg/mL	Stressed
4	1,3-Butadiene	2,000.0 µg/mL	+/- 13.3773	µg/mL	Gravimetric
	CAS # 106-99-0		+/- 24.9981	µg/mL	Unstressed
	Purity 99%		+/- 27.9940	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,000.1 µg/mL	+/- 14.2856	µg/mL	Gravimetric
	CAS # 74-83-9		+/- 25.4963	µg/mL	Unstressed
	Purity 99%		+/- 28.4399	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,000.0 µg/mL	+/- 13.2200	µg/mL	Gravimetric
	CAS # 75-00-3		+/- 24.9143	µg/mL	Unstressed
	Purity 99%		+/- 27.9191	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,000.0 µg/mL	+/- 13.5174	µg/mL	Gravimetric
	CAS # 75-43-4		+/- 25.0735	µg/mL	Unstressed
	Purity 99%		+/- 28.0614	µg/mL	Stressed
8	Trichlorofluoromethane (CFC-11)	1,999.9 µg/mL	+/- 13.1170	µg/mL	Gravimetric
	CAS # 75-69-4		+/- 24.8590	µg/mL	Unstressed
	Purity 99%		+/- 27.8696	µg/mL	Stressed

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

Column:
60m x .25mm x 1.4um
Rtx-502.2 (cat.#10916)

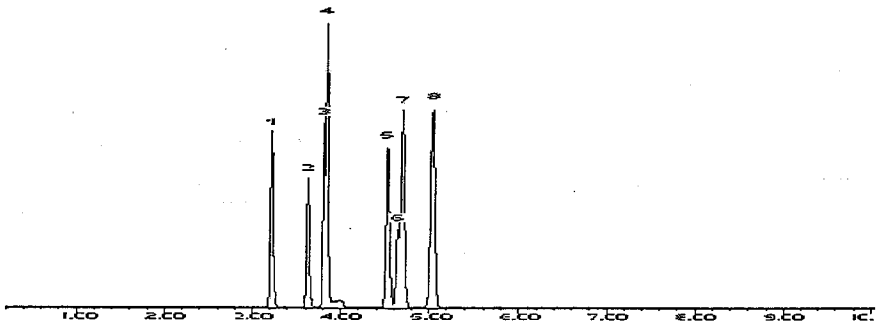
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



Jodi E. Breon
Jodi E. Breon - QA Analyst

Date Passed: 25-Feb-2013 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

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640590
ID: V1_Keytones_00002
Exp: 02/28/16 Prpd: JH
Primary Keytones @ 10000p

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Reference Material Producer
Certificate #3222.01

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Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567642 **Lot No.:** A093365

Description : 8260 List 1 / Std #2 Ketones

8260 List 1 / Std #2 Ketones 10,000 ug/ml, P&T Methanol/Water (90:10), 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 67-64-1		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
2	2-Butanone (MEK)	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 78-93-3		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 108-10-1		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
4	2-Hexanone	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 591-78-6		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

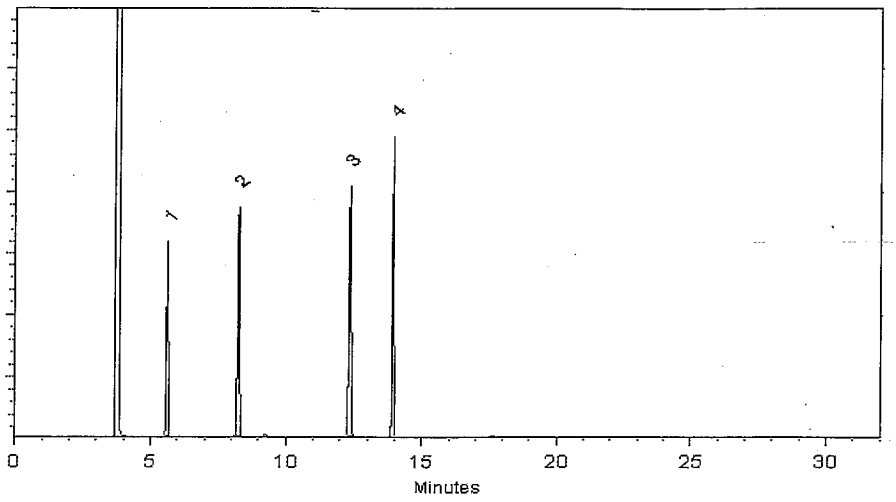
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 14-Feb-2013 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK

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861274
ID: V1_Keytones_00003
Exp: 02/28/16 Prpd: JPH
Primary Keytones @ 10000p

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567642 **Lot No.:** A093365

Description : 8260 List 1 / Std #2 Ketones

8260 List 1 / Std #2 Ketones 10,000 ug/ml, P&T Methanol/Water (90:10), 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 67-64-1		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
2	2-Butanone (MEK)	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 78-93-3		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 108-10-1		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
4	2-Hexanone	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 591-78-6		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

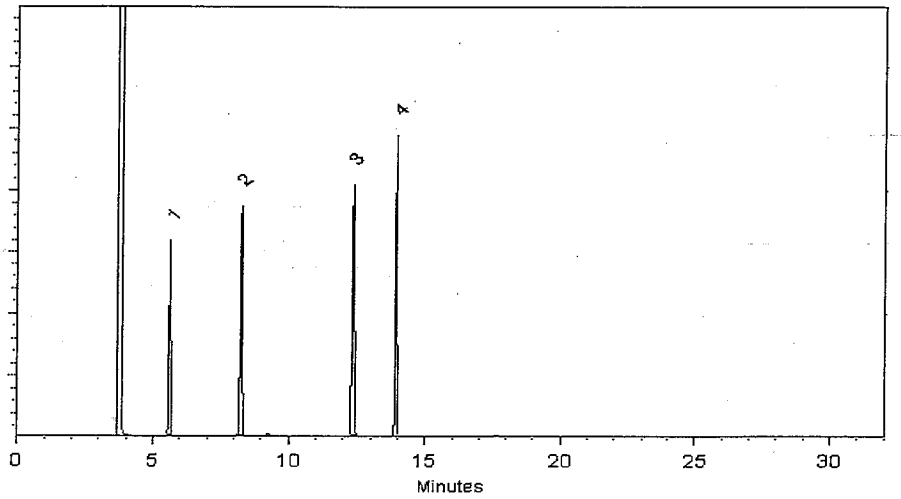
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 14-Feb-2013 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

RESTEK CERTIFIED REFERENCE MATERIAL

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Reference Material Producer
Certificate #3222.01

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Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

861448
ID: V1_vnl acetat_00003
Exp: 12/31/13 Prpd: JPH
Primary Vinyl Acetate @ 4

Catalog No. : 567646 **Lot No.:** A096198

Description : 8260 List 1 / Std #6 Vinyl Acetate

8260 List 1 / Std #6 Vinyl Acetate 4000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : December 31, 2013 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Vinyl acetate	4,000.0 µg/mL	+/- 23.2563 µg/mL	Gravimetric
	CAS # 108-05-4 (Lot STBC7746V)		+/- 319.4759 µg/mL	Unstressed
	Purity 99%		+/- 319.6324 µg/mL	Stressed

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

Tech Tips:

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

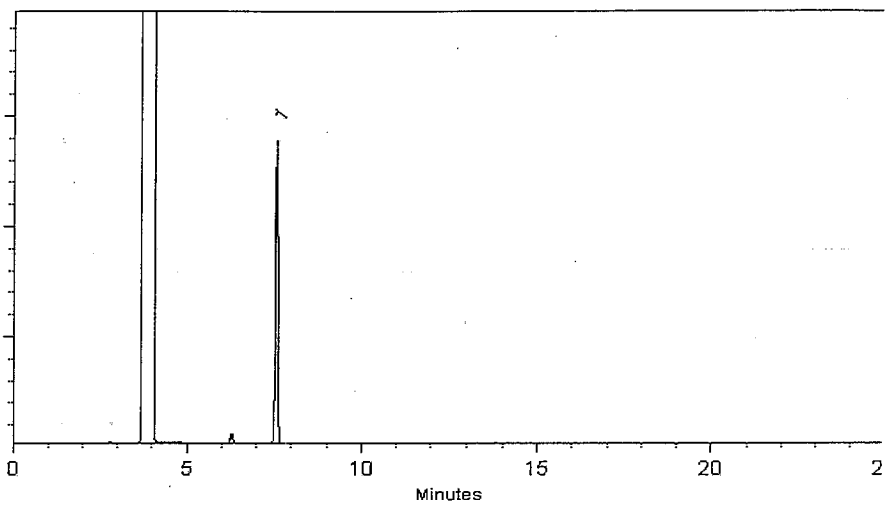
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

F. Joseph Fallon - Mix Technician

Date Mixed: 24-Jun-2013 **Balance:** B251644995

Diane Shaffer - QA Analyst

Date Passed: 25-Jun-2013

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

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899313
ID: V2_Gases_00003
Exp: 02/28/15 Prpd: JPH
Secondary Gases @ 2000pp

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Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567645.sec **Lot No.:** A093618

Description : 8260 List 1 / Std #3 Gases

8260 List 1 / Std #3 Gases 2,000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)	2,001.8 µg/mL	+/- 11.3948	µg/mL	Gravimetric
	CAS # 75-71-8.SEC		+/- 24.0125	µg/mL	Unstressed
	Purity 99%		+/- 27.1228	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,000.6 µg/mL	+/- 11.1434	µg/mL	Gravimetric
	CAS # 74-87-3.SEC		+/- 23.8835	µg/mL	Unstressed
	Purity 99%		+/- 27.0052	µg/mL	Stressed
3	Vinyl chloride	1,996.5 µg/mL	+/- 13.5847	µg/mL	Gravimetric
	CAS # 75-01-4.SEC		+/- 25.0789	µg/mL	Unstressed
	Purity 99%		+/- 28.0563	µg/mL	Stressed
4	1,3-Butadiene	2,003.5 µg/mL	+/- 10.3715	µg/mL	Gravimetric
	CAS # 106-99-0.SEC		+/- 23.5601	µg/mL	Unstressed
	Purity 99%		+/- 26.7280	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,001.5 µg/mL	+/- 12.1569	µg/mL	Gravimetric
	CAS # 74-83-9.SEC		+/- 24.3811	µg/mL	Unstressed
	Purity 99%		+/- 27.4489	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	1,997.2 µg/mL	+/- 13.6408	µg/mL	Gravimetric
	CAS # 75-00-3.SEC		+/- 25.1155	µg/mL	Unstressed
	Purity 99%		+/- 28.0910	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,004.9 µg/mL	+/- 12.2390	µg/mL	Gravimetric
	CAS # 75-43-4.SEC		+/- 24.4529	µg/mL	Unstressed
	Purity 99%		+/- 27.5224	µg/mL	Stressed
8	Trichlorofluoromethane (CFC-11)	2,001.9 µg/mL	+/- 16.1788	µg/mL	Gravimetric
	CAS # 75-69-4.SEC		+/- 26.6190	µg/mL	Unstressed
	Purity 99%		+/- 29.4557	µg/mL	Stressed

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

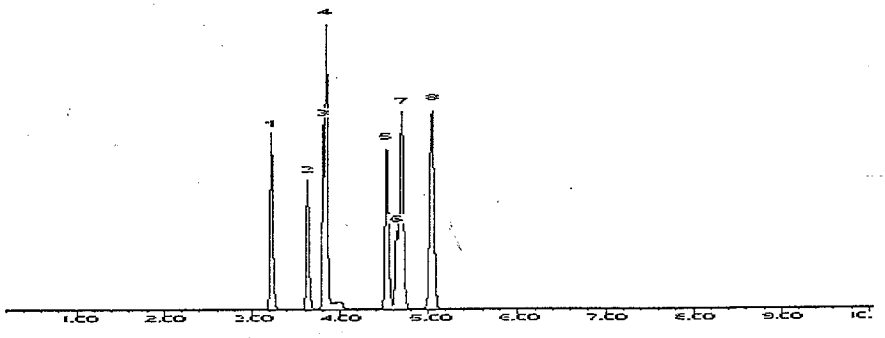
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Jodi E. Breon
Jodi E. Breon - QA Analyst

Date Passed: 25-Feb-2013 **Balance:** 1125113331

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

RESTEK

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648812
ID: V2_Keytones_00001
Exp: 02/28/16 Prpd: JH
Secondary Keytones @ 1000

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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

Certificate of Composition

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567642.sec **Lot No.:** A093472

Description : 8260 List 1 / Std #2 Ketones

8260/624 Ketones Standard 10,000 ug/ml, P&T Methanol/Water (90:10), 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	10,000.0 µg/mL	+/- 58.1409 µg/mL	Gravimetric
	CAS # 67-64-1.SEC		+/- 798.6898 µg/mL	Unstressed
	Purity 99%		+/- 799.0809 µg/mL	Stressed
2	2-Butanone (MEK)	10,000.0 µg/mL	+/- 58.1409 µg/mL	Gravimetric
	CAS # 78-93-3.SEC		+/- 798.6898 µg/mL	Unstressed
	Purity 99%		+/- 799.0809 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	10,000.0 µg/mL	+/- 58.1409 µg/mL	Gravimetric
	CAS # 108-10-1.SEC		+/- 798.6898 µg/mL	Unstressed
	Purity 99%		+/- 799.0809 µg/mL	Stressed
4	2-Hexanone	10,000.0 µg/mL	+/- 58.1409 µg/mL	Gravimetric
	CAS # 591-78-6.SEC		+/- 798.6898 µg/mL	Unstressed
	Purity 99%		+/- 799.0809 µg/mL	Stressed

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

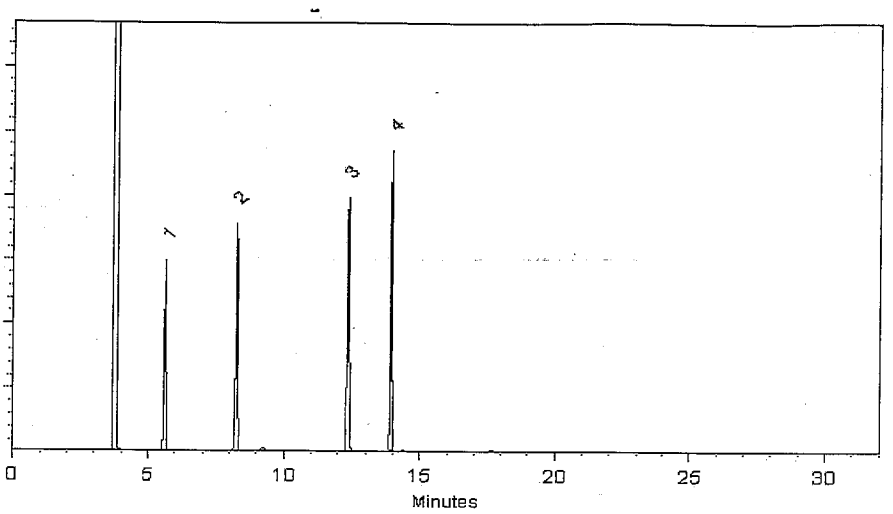
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 14-Feb-2013 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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861523
ID: V2_Megamix_00002
Exp: 02/28/16 Prpd: JPH
Secondary Megamix @ 2000

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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567641.sec **Lot No.:** A093733

Description : 8260 List 1 / Std #1 MegaMix

8260 List 1 / Std #1 MegaMix 1,000-50,000 µg/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7.SEC **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 µg/mL +/- 44.2531 µg/mL +/- 44.4335 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1.SEC **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 µg/mL +/- 44.2531 µg/mL +/- 44.4335 µg/mL	Gravimetric Unstressed Stressed
3	1,1-Dichloroethene **CAS #** 75-35-4.SEC **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 µg/mL +/- 44.2531 µg/mL +/- 44.4335 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0.SEC **Purity** 99%	20,000.0 µg/mL	+/- 116.2756 µg/mL +/- 442.5291 µg/mL +/- 444.3332 µg/mL	Gravimetric Unstressed Stressed
5	Iodomethane (methyl iodide) **CAS #** 74-88-4.SEC **Purity** 97%	2,000.0 µg/mL	+/- 11.6284 µg/mL +/- 44.2540 µg/mL +/- 44.4344 µg/mL	Gravimetric Unstressed Stressed
6	Allyl chloride (3-chloropropene) **CAS #** 107-05-1.SEC **Purity** 98%	2,000.0 µg/mL	+/- 11.6281 µg/mL +/- 44.2527 µg/mL +/- 44.4331 µg/mL	Gravimetric Unstressed Stressed
7	Methyl acetate **CAS #** 79-20-9.SEC **Purity** 99%	10,000.0 µg/mL	+/- 58.1378 µg/mL +/- 221.2646 µg/mL +/- 222.1666 µg/mL	Gravimetric Unstressed Stressed
8	Carbon disulfide **CAS #** 75-15-0.SEC **Purity** 98%	2,000.0 µg/mL	+/- 11.6281 µg/mL +/- 44.2527 µg/mL +/- 44.4331 µg/mL	Gravimetric Unstressed Stressed
9	Methylene chloride (dichloromethane) **CAS #** 75-09-2.SEC **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 µg/mL +/- 44.2531 µg/mL +/- 44.4335 µg/mL	Gravimetric Unstressed Stressed

10	Acrylonitrile	20,000.0	µg/mL	+/-	116.2756	µg/mL	Gravimetric
	CAS # 107-13-1.SEC			+/-	442.5291	µg/mL	Unstressed
	Purity 99%			+/-	444.3332	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
12	cis-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-59-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
13	n-Hexane (C6)	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 110-54-3.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed
14	1,1-Dichloroethane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 75-34-3.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
15	2,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 594-20-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
16	trans-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 156-60-5.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
17	Chloroform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 67-66-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
18	Isobutanol (2-Methyl-1-propanol)	50,000.0	µg/mL	+/-	290.6891	µg/mL	Gravimetric
	CAS # 78-83-1.SEC			+/-	1,106.3228	µg/mL	Unstressed
	Purity 99%			+/-	1,110.8331	µg/mL	Stressed
19	Bromochloromethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-97-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
20	Tetrahydrofuran	4,000.0	µg/mL	+/-	23.2563	µg/mL	Gravimetric
	CAS # 109-99-9.SEC			+/-	88.5061	µg/mL	Unstressed
	Purity 99%			+/-	88.8670	µg/mL	Stressed
21	1,1,1-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-55-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
22	Cyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 110-82-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
23	1,1-Dichloropropene	2,010.5	µg/mL	+/-	11.6890	µg/mL	Gravimetric
	CAS # 563-58-6.SEC			+/-	44.4847	µg/mL	Unstressed
	Purity 98%			+/-	44.6661	µg/mL	Stressed
24	Carbon tetrachloride	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 56-23-5.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed
25	n-Heptane (C7)	2,000.1	µg/mL	+/-	11.6288	µg/mL	Gravimetric
	CAS # 142-82-5.SEC			+/-	44.2553	µg/mL	Unstressed
	Purity 99%			+/-	44.4357	µg/mL	Stressed
26	Benzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-43-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
27	1,2-Dichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 107-06-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
28	Trichloroethene	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 79-01-6.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed

29	Methylcyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-87-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
30	1,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 78-87-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
31	1,4-Dioxane	40,000.0	µg/mL	+/-	232.5513	µg/mL	Gravimetric
	CAS # 123-91-1.SEC			+/-	885.0582	µg/mL	Unstressed
	Purity 99%			+/-	888.6665	µg/mL	Stressed
32	Dibromomethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-95-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
33	Bromodichloromethane	2,000.1	µg/mL	+/-	11.6290	µg/mL	Gravimetric
	CAS # 75-27-4.SEC			+/-	44.2562	µg/mL	Unstressed
	Purity 97%			+/-	44.4366	µg/mL	Stressed
34	cis-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
35	Toluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-88-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
36	Ethyl methacrylate	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 97-63-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
37	trans-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
38	1,1,2-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-00-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
39	1,3-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-28-9.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
40	Tetrachloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 127-18-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
41	Dibromochloromethane	2,000.1	µg/mL	+/-	11.6290	µg/mL	Gravimetric
	CAS # 124-48-1.SEC			+/-	44.2562	µg/mL	Unstressed
	Purity 97%			+/-	44.4366	µg/mL	Stressed
42	1,2-Dibromoethane (EDB)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-93-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
43	Chlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-90-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
44	1,1,1,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 630-20-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
45	m-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 108-38-3.SEC			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
46	p-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 106-42-3.SEC			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
47	o-Xylene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-47-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

48	Ethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-41-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
49	Styrene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-42-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
50	Isopropylbenzene (cumene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-82-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
51	Bromoform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-25-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-34-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
53	1,2,3-Trichloropropane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 96-18-4.SEC			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
54	trans-1,4-Dichloro-2-butene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 110-57-6.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
55	n-Propylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 103-65-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
56	Bromobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-86-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
57	1,3,5-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-67-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
58	2-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-49-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
59	4-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-43-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
60	tert-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-06-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
61	1,2,4-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-63-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
62	sec-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 135-98-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
63	4-Isopropyltoluene (p-cymene)	2,000.1	µg/mL	+/-	11.6285	µg/mL	Gravimetric
	CAS # 99-87-6.SEC			+/-	44.2545	µg/mL	Unstressed
	Purity 96%			+/-	44.4349	µg/mL	Stressed
64	1,3-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 541-73-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
65	1,4-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-46-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
66	n-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 104-51-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

67	1,2-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-50-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 96-12-8.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
69	1,2,4-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 120-82-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
70	Hexachlorobutadiene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 87-68-3.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
71	Naphthalene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 91-20-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
72	1,2,3-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 87-61-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

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

Column:
60m x .25mm x 1.4um
Rtx-502.2 (cat.#10916)

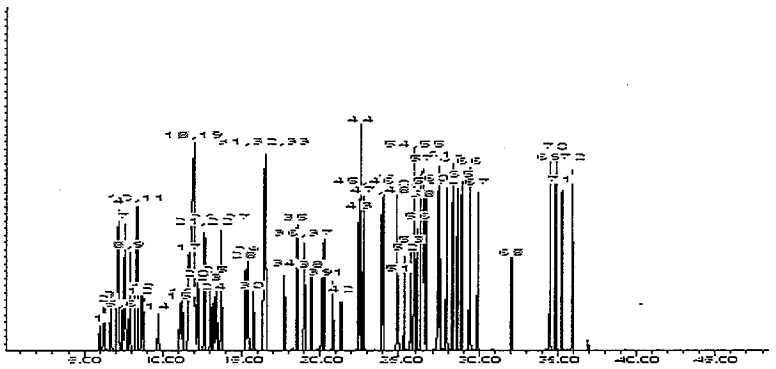
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



Jennifer L. Pollino - QC Analyst

Date Passed: 01-Mar-2013 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

573199
ID: VOA_IS Mix_S_00004
Exp: 03/31/14 Prpd: JH
Internal Standard Mix at

Custom Standard

Product Number: TAM-104 **Page:** 1 of 1

Lot Number: CJ-0470 **Lot Issue Date:** 14-Feb-2012 **Expiration Date:** 31-Mar-2014

This Certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
fluorobenzene	000462-06-6	RM03366-01	2513 ± 13 µg/mL
chlorobenzene-d5	003114-55-4	RM01430-04	2512 ± 13 µg/mL
1,4-dichlorobenzene-d4	003855-82-1	RM01700-02	2507 ± 13 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at Room Temperature (18-25° C)

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

A2LA ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0851-01
ISO 9001:2008 Registered TUV USA, Inc. Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
wwww.ultrasci.com

William J. Leary
Quality Assurance Manager

11/19/2013

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

573188
ID: VOA_SS Mix_S_00003
Exp: 09/30/14 Prpd: JH
Surrogate Standard Mix at

Custom Standard

Product Number: TAM-100 **Page:** 1 of 1

Lot Number: CJ-3029 **Lot Issue Date:** 06-Aug-2012 **Expiration Date:** 30-Sep-2014

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
4-bromofluorobenzene	000460-00-4	RM03365	2509 ± 13 µg/mL
dibromofluoromethane	001868-53-7	RM04871	2511 ± 13 µg/mL
1,2-dichloroethane-d4	017060-07-0	RM05260	2506 ± 13 µg/mL
toluene-d8	002037-26-5	RM01741	2507 ± 13 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ACCREDITED

ISO 17025 Accredited A2LA Cert. No. 0851-01

ISO 9001 Registered TUV USA, Inc. Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 401-295-2330
www.ultrasci.com

William J. Leary
Quality Assurance Manager

11/19/2013

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39536-2

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	Alaska (UST)	State Program	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas DEQ	State Program	6	88-0737
TestAmerica Nashville	California	NELAP	9	1168CA
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAP	4	E87358
TestAmerica Nashville	Illinois	NELAP	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAP	7	E-10229
TestAmerica Nashville	Kentucky (UST)	State Program	4	19
TestAmerica Nashville	Louisiana	NELAP	6	30613
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAP	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana (UST)	State Program	8	NA
TestAmerica Nashville	Nevada	State Program	9	TN00032
TestAmerica Nashville	New Hampshire	NELAP	1	2963
TestAmerica Nashville	New Jersey	NELAP	2	TN965
TestAmerica Nashville	New York	NELAP	2	11342
TestAmerica Nashville	North Carolina DENR	State Program	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio VAP	State Program	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAP	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAP	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009 (001)
TestAmerica Nashville	South Carolina	State Program	4	84009 (002)
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAP	6	T104704077-09-TX
TestAmerica Nashville	USDA	Federal		S-48469
TestAmerica Nashville	Utah	NELAP	8	TN00032
TestAmerica Nashville	Virginia	NELAP	3	460152
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia DEP	State Program	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430
TestAmerica Nashville	Wyoming (UST)	A2LA	8	453.07

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260B

Volatile Organic Compounds (GC/MS) by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
MW-01A-GW-001	490-39536-1	99	94	106	94
MW-01B-GW-001	490-39536-3	100	94	110	96
MW-02A-GW-001	490-39536-5	100	95	107	91
MW-02B-GW-001	490-39536-7	98	94	106	93
Trip Blank	490-39536-8	98	90	109	93
	MB 490-121823/5	99	92	105	93
	MB 490-121948/4	101	93	104	95
	LCS 490-121823/3	100	91	104	89
	LCS 490-121948/3	101	96	102	90
	LCSD 490-121823/4	101	93	105	91
	490-39510-B-1 MS	101	92	101	91
	490-40098-B-1 MS	100	94	103	94
	490-39510-C-1 MSD	101	94	102	92
	490-40098-C-1 MSD	102	95	105	91

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 11141303.D

Lab ID: LCS 490-121823/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	100	90.95	91	54-145	
Benzene	20.0	19.50	97	80-121	
Bromochloromethane	20.0	20.54	103	78-129	
Bromodichloromethane	20.0	18.88	94	75-129	
Bromoform	20.0	16.52	83	46-145	
Bromomethane	20.0	18.70	93	41-150	
2-Butanone (MEK)	100	100.8	101	62-133	
Carbon disulfide	20.0	17.73	89	77-126	
Carbon tetrachloride	20.0	18.92	95	64-147	
Chlorobenzene	20.0	19.83	99	80-120	
Chlorodibromomethane	20.0	16.05	80	69-133	
Chloroethane	20.0	16.96	85	72-120	
Chloroform	20.0	18.37	92	73-129	
Chloromethane	20.0	15.81	79	12-150	
cis-1,2-Dichloroethene	20.0	20.23	101	76-125	
cis-1,3-Dichloropropene	20.0	20.29	101	74-140	
Cyclohexane	20.0	19.31	97	73-122	
1,2-Dibromo-3-Chloropropane	20.0	17.04	85	54-125	
1,2-Dibromoethane (EDB)	20.0	18.76	94	80-129	
1,2-Dichlorobenzene	20.0	19.45	97	80-121	
1,3-Dichlorobenzene	20.0	19.69	98	80-122	
1,4-Dichlorobenzene	20.0	19.14	96	80-120	
Dichlorodifluoromethane	20.0	18.22	91	37-127	
1,1-Dichloroethane	20.0	18.91	95	78-125	
1,2-Dichloroethane	20.0	18.38	92	77-121	
1,1-Dichloroethene	20.0	20.04	100	79-124	
1,2-Dichloropropane	20.0	18.97	95	75-120	
Ethylbenzene	20.0	19.05	95	80-130	
2-Hexanone	100	95.51	96	60-142	
Isopropylbenzene	20.0	19.33	97	80-141	
Methyl acetate	100	76.29	76	64-150	
Methylcyclohexane	20.0	19.91	100	71-129	
Methylene Chloride	20.0	19.20	96	79-123	
4-Methyl-2-pentanone (MIBK)	100	105.0	105	60-137	
Methyl tert-butyl ether	20.0	17.98	90	72-133	
N-Propylbenzene	20.0	18.27	91	75-129	
Styrene	20.0	19.73	99	80-127	
1,1,2,2-Tetrachloroethane	20.0	18.76	94	69-131	
Tetrachloroethene	20.0	20.09	100	80-126	
Tetrahydrofuran	40.0	34.18	85	51-124	
Toluene	20.0	20.34	102	80-126	
trans-1,2-Dichloroethene	20.0	18.12	91	79-126	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 11141303.D

Lab ID: LCS 490-121823/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	18.97	95	63-134	
1,2,4-Trichlorobenzene	20.0	21.30	107	63-133	
1,1,1-Trichloroethane	20.0	18.46	92	78-135	
1,1,2-Trichloroethane	20.0	20.09	100	80-124	
Trichloroethene	20.0	20.42	102	80-123	
Trichlorofluoromethane	20.0	17.28	86	65-124	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	20.33	102	77-129	
Vinyl chloride	20.0	17.07	85	68-120	
Xylenes, Total	40.0	36.95	92	80-132	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 11141330.D

Lab ID: LCS 490-121948/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	100	99.90	100	54-145	
Benzene	20.0	20.70	103	80-121	
Bromochloromethane	20.0	21.58	108	78-129	
Bromodichloromethane	20.0	20.25	101	75-129	
Bromoform	20.0	17.70	89	46-145	
Bromomethane	20.0	14.95	75	41-150	
2-Butanone (MEK)	100	104.4	104	62-133	
Carbon disulfide	20.0	19.60	98	77-126	
Carbon tetrachloride	20.0	20.20	101	64-147	
Chlorobenzene	20.0	21.14	106	80-120	
Chlorodibromomethane	20.0	17.52	88	69-133	
Chloroethane	20.0	17.74	89	72-120	
Chloroform	20.0	19.80	99	73-129	
Chloromethane	20.0	15.43	77	12-150	
cis-1,2-Dichloroethene	20.0	21.33	107	76-125	
cis-1,3-Dichloropropene	20.0	21.29	106	74-140	
Cyclohexane	20.0	20.25	101	73-122	
1,2-Dibromo-3-Chloropropane	20.0	17.78	89	54-125	
1,2-Dibromoethane (EDB)	20.0	20.42	102	80-129	
1,2-Dichlorobenzene	20.0	20.79	104	80-121	
1,3-Dichlorobenzene	20.0	20.70	104	80-122	
1,4-Dichlorobenzene	20.0	20.68	103	80-120	
Dichlorodifluoromethane	20.0	19.55	98	37-127	
1,1-Dichloroethane	20.0	20.51	103	78-125	
1,2-Dichloroethane	20.0	20.12	101	77-121	
1,1-Dichloroethene	20.0	22.12	111	79-124	
1,2-Dichloropropane	20.0	20.16	101	75-120	
Ethylbenzene	20.0	20.46	102	80-130	
2-Hexanone	100	99.45	99	60-142	
Isopropylbenzene	20.0	20.97	105	80-141	
Methyl acetate	100	81.63	82	64-150	
Methylcyclohexane	20.0	20.83	104	71-129	
Methylene Chloride	20.0	20.90	105	79-123	
4-Methyl-2-pentanone (MIBK)	100	110.3	110	60-137	
Methyl tert-butyl ether	20.0	19.35	97	72-133	
N-Propylbenzene	20.0	19.53	98	75-129	
Styrene	20.0	21.13	106	80-127	
1,1,2,2-Tetrachloroethane	20.0	20.00	100	69-131	
Tetrachloroethene	20.0	21.42	107	80-126	
Tetrahydrofuran	40.0	35.24	88	51-124	
Toluene	20.0	21.61	108	80-126	
trans-1,2-Dichloroethene	20.0	20.03	100	79-126	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 11141330.D

Lab ID: LCS 490-121948/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	19.49	97	63-134	
1,2,4-Trichlorobenzene	20.0	20.82	104	63-133	
1,1,1-Trichloroethane	20.0	19.93	100	78-135	
1,1,2-Trichloroethane	20.0	21.63	108	80-124	
Trichloroethene	20.0	21.76	109	80-123	
Trichlorofluoromethane	20.0	18.45	92	65-124	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	21.13	106	77-129	
Vinyl chloride	20.0	18.26	91	68-120	
Xylenes, Total	40.0	41.06	103	80-132	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 11141304.D

Lab ID: LCSD 490-121823/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	100	93.49	93	3	21	54-145	
Benzene	20.0	20.10	100	3	17	80-121	
Bromochloromethane	20.0	21.55	108	5	17	78-129	
Bromodichloromethane	20.0	19.74	99	4	18	75-129	
Bromoform	20.0	17.77	89	7	16	46-145	
Bromomethane	20.0	18.58	93	1	50	41-150	
2-Butanone (MEK)	100	106.2	106	5	19	62-133	
Carbon disulfide	20.0	18.33	92	3	21	77-126	
Carbon tetrachloride	20.0	20.16	101	6	19	64-147	
Chlorobenzene	20.0	20.68	103	4	14	80-120	
Chlorodibromomethane	20.0	17.40	87	8	15	69-133	
Chloroethane	20.0	17.40	87	3	20	72-120	
Chloroform	20.0	19.11	96	4	18	73-129	
Chloromethane	20.0	15.88	79	0	31	12-150	
cis-1,2-Dichloroethene	20.0	21.30	106	5	17	76-125	
cis-1,3-Dichloropropene	20.0	21.78	109	7	15	74-140	
Cyclohexane	20.0	19.65	98	2	16	73-122	
1,2-Dibromo-3-Chloropropane	20.0	18.53	93	8	24	54-125	
1,2-Dibromoethane (EDB)	20.0	20.62	103	9	15	80-129	
1,2-Dichlorobenzene	20.0	20.49	102	5	15	80-121	
1,3-Dichlorobenzene	20.0	20.70	103	5	15	80-122	
1,4-Dichlorobenzene	20.0	20.68	103	8	15	80-120	
Dichlorodifluoromethane	20.0	18.82	94	3	18	37-127	
1,1-Dichloroethane	20.0	20.09	100	6	17	78-125	
1,2-Dichloroethane	20.0	20.13	101	9	17	77-121	
1,1-Dichloroethene	20.0	20.25	101	1	17	79-124	
1,2-Dichloropropane	20.0	19.99	100	5	17	75-120	
Ethylbenzene	20.0	19.67	98	3	15	80-130	
2-Hexanone	100	104.0	104	9	15	60-142	
Isopropylbenzene	20.0	20.24	101	5	16	80-141	
Methyl acetate	100	82.87	83	8	31	64-150	
Methylcyclohexane	20.0	20.38	102	2	19	71-129	
Methylene Chloride	20.0	19.99	100	4	17	79-123	
4-Methyl-2-pentanone (MIBK)	100	114.3	114	8	17	60-137	
Methyl tert-butyl ether	20.0	19.15	96	6	16	72-133	
N-Propylbenzene	20.0	19.13	96	5	17	75-129	
Styrene	20.0	20.58	103	4	24	80-127	
1,1,2,2-Tetrachloroethane	20.0	19.67	98	5	20	69-131	
Tetrachloroethene	20.0	21.04	105	5	16	80-126	
Tetrahydrofuran	40.0	36.31	91	6	18	51-124	
Toluene	20.0	21.39	107	5	15	80-126	
trans-1,2-Dichloroethene	20.0	19.18	96	6	16	79-126	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 11141304.D

Lab ID: LCSD 490-121823/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	20.52	103	8	14	63-134	
1,2,4-Trichlorobenzene	20.0	20.99	105	1	19	63-133	
1,1,1-Trichloroethane	20.0	19.31	97	4	17	78-135	
1,1,2-Trichloroethane	20.0	21.48	107	7	15	80-124	
Trichloroethene	20.0	20.98	105	3	17	80-123	
Trichlorofluoromethane	20.0	17.83	89	3	18	65-124	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	21.12	106	4	18	77-129	
Vinyl chloride	20.0	17.45	87	2	17	68-120	
Xylenes, Total	40.0	38.75	97	5	15	80-132	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 11141326.D

Lab ID: 490-39510-B-1 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acetone	250	18.8	239.2	88	45-141	
Benzene	50.0	1.12	50.56	99	75-133	
Bromochloromethane	50.0	ND	51.86	104	67-139	
Bromodichloromethane	50.0	ND	50.70	101	70-140	
Bromoform	50.0	ND	44.20	88	42-147	
Bromomethane	50.0	ND	29.04	58	16-163	
2-Butanone (MEK)	250	7.82 J	249.7	97	50-138	
Carbon disulfide	50.0	ND	46.68	93	48-152	
Carbon tetrachloride	50.0	ND	52.08	104	62-164	
Chlorobenzene	50.0	ND	49.78	100	80-129	
Chlorodibromomethane	50.0	ND	43.08	86	66-140	
Chloroethane	50.0	ND	49.03	98	58-137	
Chloroform	50.0	ND	47.41	95	66-138	
Chloromethane	50.0	ND	41.33	83	10-169	
cis-1,2-Dichloroethene	50.0	ND	50.73	101	68-138	
cis-1,3-Dichloropropene	50.0	ND	51.79	104	71-141	
Cyclohexane	50.0	6.89	57.41	101	58-144	
1,2-Dibromo-3-Chloropropane	50.0	ND	42.39	85	52-126	
1,2-Dibromoethane (EDB)	50.0	ND	47.50	95	75-137	
1,2-Dichlorobenzene	50.0	ND	48.57	97	79-128	
1,3-Dichlorobenzene	50.0	ND	48.97	98	77-131	
1,4-Dichlorobenzene	50.0	ND	48.49	97	78-126	
Dichlorodifluoromethane	50.0	ND	54.33	109	40-127	
1,1-Dichloroethane	50.0	ND	50.08	100	71-139	
1,2-Dichloroethane	50.0	ND	46.58	93	64-136	
1,1-Dichloroethene	50.0	ND	54.65	109	70-142	
1,2-Dichloropropane	50.0	ND	48.93	98	67-131	
Ethylbenzene	50.0	0.417 J	49.39	98	79-139	
2-Hexanone	250	ND	253.9	102	50-150	
Isopropylbenzene	50.0	0.921 J	52.28	103	80-153	
Methyl acetate	250	ND	185.8	74	30-165	
Methylcyclohexane	50.0	2.12 J	54.43	105	59-151	
Methylene Chloride	50.0	ND	48.75	98	64-139	
4-Methyl-2-pentanone (MIBK)	250	ND	273.7	109	50-147	
Methyl tert-butyl ether	50.0	3.99	49.35	91	66-141	
N-Propylbenzene	50.0	1.78	49.76	96	69-142	
Styrene	50.0	ND	50.94	102	61-148	
1,1,2,2-Tetrachloroethane	50.0	ND	46.96	94	56-143	
Tetrachloroethene	50.0	0.646 J	52.81	104	72-145	
Tetrahydrofuran	100	124	208.0	84	34-133	
Toluene	50.0	0.188 J	51.62	103	75-136	
trans-1,2-Dichloroethene	50.0	ND	49.69	99	66-143	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 11141326.D

Lab ID: 490-39510-B-1 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	50.0	ND	49.20	98	59-135	
1,2,4-Trichlorobenzene	50.0	ND	50.82	102	60-136	
1,1,1-Trichloroethane	50.0	ND	49.60	99	76-149	
1,1,2-Trichloroethane	50.0	ND	49.13	98	74-134	
Trichloroethene	50.0	0.402 J	52.43	104	73-144	
Trichlorofluoromethane	50.0	ND	52.52	105	58-139	
1,1,2-Trichloro-1,2,2-trichfluoroethane	50.0	ND	52.91	106	72-148	
Vinyl chloride	50.0	ND	49.77	100	56-129	
Xylenes, Total	100	0.549 J	98.54	98	74-141	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 11141351.D

Lab ID: 490-40098-B-1 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acetone	250	91.8	272.1	72	45-141	
Benzene	50.0	ND	49.91	100	75-133	
Bromochloromethane	50.0	ND	51.93	104	67-139	
Bromodichloromethane	50.0	ND	50.59	101	70-140	
Bromoform	50.0	ND	43.47	87	42-147	
Bromomethane	50.0	ND	32.77	66	16-163	
2-Butanone (MEK)	250	41.5 J	265.1	89	50-138	
Carbon disulfide	50.0	ND	48.01	96	48-152	
Carbon tetrachloride	50.0	ND	51.98	104	62-164	
Chlorobenzene	50.0	ND	50.40	101	80-129	
Chlorodibromomethane	50.0	ND	43.09	86	66-140	
Chloroethane	50.0	ND	49.76	100	58-137	
Chloroform	50.0	1.14	48.51	95	66-138	
Chloromethane	50.0	ND	45.45	91	10-169	
cis-1,2-Dichloroethene	50.0	ND	49.30	99	68-138	
cis-1,3-Dichloropropene	50.0	ND	49.62	99	71-141	
Cyclohexane	50.0	ND	52.54	105	58-144	
1,2-Dibromo-3-Chloropropane	50.0	ND	42.11	84	52-126	
1,2-Dibromoethane (EDB)	50.0	ND	48.30	97	75-137	
1,2-Dichlorobenzene	50.0	ND	49.17	98	79-128	
1,3-Dichlorobenzene	50.0	ND	49.93	100	77-131	
1,4-Dichlorobenzene	50.0	ND	49.17	98	78-126	
Dichlorodifluoromethane	50.0	ND	53.48	107	40-127	
1,1-Dichloroethane	50.0	ND	49.99	100	71-139	
1,2-Dichloroethane	50.0	ND	46.24	92	64-136	
1,1-Dichloroethene	50.0	ND	53.30	107	70-142	
1,2-Dichloropropane	50.0	ND	47.81	96	67-131	
Ethylbenzene	50.0	ND	49.57	99	79-139	
2-Hexanone	250	ND	255.3	102	50-150	
Isopropylbenzene	50.0	ND	51.57	103	80-153	
Methyl acetate	250	ND	149.1	60	30-165	
Methylcyclohexane	50.0	ND	51.31	103	59-151	
Methylene Chloride	50.0	ND	48.75	97	64-139	
4-Methyl-2-pentanone (MIBK)	250	ND	266.7	107	50-147	
Methyl tert-butyl ether	50.0	ND	45.88	92	66-141	
N-Propylbenzene	50.0	ND	48.17	96	69-142	
Styrene	50.0	ND	41.05	82	61-148	
1,1,2,2-Tetrachloroethane	50.0	ND	47.82	96	56-143	
Tetrachloroethene	50.0	2.98	55.78	106	72-145	
Tetrahydrofuran	100	135	142.7	8	34-133	F
Toluene	50.0	0.219 J	52.22	104	75-136	
trans-1,2-Dichloroethene	50.0	ND	50.00	100	66-143	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 11141351.D

Lab ID: 490-40098-B-1 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	50.0	ND	47.56	95	59-135	
1,2,4-Trichlorobenzene	50.0	ND	50.49	101	60-136	
1,1,1-Trichloroethane	50.0	ND	49.20	98	76-149	
1,1,2-Trichloroethane	50.0	ND	51.01	102	74-134	
Trichloroethene	50.0	ND	51.21	102	73-144	
Trichlorofluoromethane	50.0	ND	52.97	106	58-139	
1,1,2-Trichloro-1,2,2-trichfluoroethane	50.0	ND	53.10	106	72-148	
Vinyl chloride	50.0	ND	51.39	103	56-129	
Xylenes, Total	100	ND	98.05	98	74-141	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 11141327.D

Lab ID: 490-39510-C-1 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	250	252.4	93	5	21	45-141	
Benzene	50.0	52.96	104	5	17	75-133	
Bromochloromethane	50.0	54.03	108	4	17	67-139	
Bromodichloromethane	50.0	52.16	104	3	18	70-140	
Bromoform	50.0	46.49	93	5	16	42-147	
Bromomethane	50.0	39.96	80	32	50	16-163	
2-Butanone (MEK)	250	264.7	103	6	19	50-138	
Carbon disulfide	50.0	49.43	99	6	21	48-152	
Carbon tetrachloride	50.0	54.80	110	5	19	62-164	
Chlorobenzene	50.0	52.10	104	5	14	80-129	
Chlorodibromomethane	50.0	45.12	90	5	15	66-140	
Chloroethane	50.0	50.28	101	3	20	58-137	
Chloroform	50.0	48.88	98	3	18	66-138	
Chloromethane	50.0	43.32	87	5	31	10-169	
cis-1,2-Dichloroethene	50.0	52.81	106	4	17	68-138	
cis-1,3-Dichloropropene	50.0	54.10	108	4	15	71-141	
Cyclohexane	50.0	59.62	105	4	16	58-144	
1,2-Dibromo-3-Chloropropane	50.0	45.05	90	6	24	52-126	
1,2-Dibromoethane (EDB)	50.0	50.15	100	5	15	75-137	
1,2-Dichlorobenzene	50.0	51.75	103	6	15	79-128	
1,3-Dichlorobenzene	50.0	51.69	103	5	15	77-131	
1,4-Dichlorobenzene	50.0	51.32	103	6	15	78-126	
Dichlorodifluoromethane	50.0	56.40	113	4	18	40-127	
1,1-Dichloroethane	50.0	51.28	103	2	17	71-139	
1,2-Dichloroethane	50.0	48.11	96	3	17	64-136	
1,1-Dichloroethene	50.0	53.99	108	1	17	70-142	
1,2-Dichloropropane	50.0	50.30	101	3	17	67-131	
Ethylbenzene	50.0	51.73	103	5	15	79-139	
2-Hexanone	250	268.6	107	6	15	50-150	
Isopropylbenzene	50.0	54.52	107	4	16	80-153	
Methyl acetate	250	191.9	77	3	31	30-165	
Methylcyclohexane	50.0	56.83	109	4	19	59-151	
Methylene Chloride	50.0	50.45	101	3	17	64-139	
4-Methyl-2-pentanone (MIBK)	250	288.3	115	5	17	50-147	
Methyl tert-butyl ether	50.0	51.27	95	4	16	66-141	
N-Propylbenzene	50.0	51.99	100	4	17	69-142	
Styrene	50.0	52.48	105	3	24	61-148	
1,1,2,2-Tetrachloroethane	50.0	49.34	99	5	20	56-143	
Tetrachloroethene	50.0	55.35	109	5	16	72-145	
Tetrahydrofuran	100	217.7	94	5	18	34-133	
Toluene	50.0	54.08	108	5	15	75-136	
trans-1,2-Dichloroethene	50.0	50.99	102	3	16	66-143	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 11141327.D

Lab ID: 490-39510-C-1 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	50.0	51.47	103	5	14	59-135	
1,2,4-Trichlorobenzene	50.0	56.16	112	10	19	60-136	
1,1,1-Trichloroethane	50.0	51.53	103	4	17	76-149	
1,1,2-Trichloroethane	50.0	51.65	103	5	15	74-134	
Trichloroethene	50.0	54.35	108	4	17	73-144	
Trichlorofluoromethane	50.0	54.72	109	4	18	58-139	
1,1,2-Trichloro-1,2,2-trichfluoroethane	50.0	55.24	110	4	18	72-148	
Vinyl chloride	50.0	52.46	105	5	17	56-129	
Xylenes, Total	100	102.0	101	3	15	74-141	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 11141352.D

Lab ID: 490-40098-C-1 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	250	288.1	79	6	21	45-141	
Benzene	50.0	51.27	103	3	17	75-133	
Bromochloromethane	50.0	53.01	106	2	17	67-139	
Bromodichloromethane	50.0	51.56	103	2	18	70-140	
Bromoform	50.0	44.58	89	3	16	42-147	
Bromomethane	50.0	38.40	77	16	50	16-163	
2-Butanone (MEK)	250	275.4	94	4	19	50-138	
Carbon disulfide	50.0	49.31	99	3	21	48-152	
Carbon tetrachloride	50.0	54.11	108	4	19	62-164	
Chlorobenzene	50.0	51.03	102	1	14	80-129	
Chlorodibromomethane	50.0	44.83	90	4	15	66-140	
Chloroethane	50.0	50.98	102	2	20	58-137	
Chloroform	50.0	49.70	97	2	18	66-138	
Chloromethane	50.0	46.09	92	1	31	10-169	
cis-1,2-Dichloroethene	50.0	49.17	98	0	17	68-138	
cis-1,3-Dichloropropene	50.0	51.74	103	4	15	71-141	
Cyclohexane	50.0	53.25	106	1	16	58-144	
1,2-Dibromo-3-Chloropropane	50.0	43.14	86	2	24	52-126	
1,2-Dibromoethane (EDB)	50.0	49.78	100	3	15	75-137	
1,2-Dichlorobenzene	50.0	50.34	101	2	15	79-128	
1,3-Dichlorobenzene	50.0	49.38	99	1	15	77-131	
1,4-Dichlorobenzene	50.0	50.18	100	2	15	78-126	
Dichlorodifluoromethane	50.0	53.48	107	0	18	40-127	
1,1-Dichloroethane	50.0	50.59	101	1	17	71-139	
1,2-Dichloroethane	50.0	47.74	95	3	17	64-136	
1,1-Dichloroethene	50.0	54.73	109	3	17	70-142	
1,2-Dichloropropane	50.0	49.16	98	3	17	67-131	
Ethylbenzene	50.0	50.20	100	1	15	79-139	
2-Hexanone	250	262.3	105	3	15	50-150	
Isopropylbenzene	50.0	52.59	105	2	16	80-153	
Methyl acetate	250	159.5	64	7	31	30-165	
Methylcyclohexane	50.0	53.65	107	4	19	59-151	
Methylene Chloride	50.0	49.66	99	2	17	64-139	
4-Methyl-2-pentanone (MIBK)	250	285.7	114	7	17	50-147	
Methyl tert-butyl ether	50.0	46.84	94	2	16	66-141	
N-Propylbenzene	50.0	48.78	98	1	17	69-142	
Styrene	50.0	41.73	83	2	24	61-148	
1,1,2,2-Tetrachloroethane	50.0	48.31	97	1	20	56-143	
Tetrachloroethene	50.0	56.58	107	1	16	72-145	
Tetrahydrofuran	100	159.6	25	11	18	34-133	F
Toluene	50.0	53.81	107	3	15	75-136	
trans-1,2-Dichloroethene	50.0	50.54	101	1	16	66-143	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 11141352.D

Lab ID: 490-40098-C-1 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	50.0	49.50	99	4	14	59-135	
1,2,4-Trichlorobenzene	50.0	55.26	111	9	19	60-136	
1,1,1-Trichloroethane	50.0	50.69	101	3	17	76-149	
1,1,2-Trichloroethane	50.0	50.62	101	1	15	74-134	
Trichloroethene	50.0	53.44	107	4	17	73-144	
Trichlorofluoromethane	50.0	54.16	108	2	18	58-139	
1,1,2-Trichloro-1,2,2-trichfluoroethane	50.0	54.39	109	2	18	72-148	
Vinyl chloride	50.0	51.75	103	1	17	56-129	
Xylenes, Total	100	99.17	99	1	15	74-141	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Lab File ID: 11141306.D Lab Sample ID: MB 490-121823/5

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP33 Date Analyzed: 11/14/2013 11:10

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 490-121823/3	11141303.D	11/14/2013 09:49
	LCSD 490-121823/4	11141304.D	11/14/2013 10:16
Trip Blank	490-39536-8	11141310.D	11/14/2013 12:58
	490-39510-B-1 MS	11141326.D	11/14/2013 20:32
	490-39510-C-1 MSD	11141327.D	11/14/2013 20:59

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Lab File ID: 11141332.D Lab Sample ID: MB 490-121948/4

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP33 Date Analyzed: 11/14/2013 23:14

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 490-121948/3	11141330.D	11/14/2013 22:20
MW-01A-GW-001	490-39536-1	11141333.D	11/14/2013 23:41
MW-01B-GW-001	490-39536-3	11141334.D	11/15/2013 00:08
MW-02A-GW-001	490-39536-5	11141335.D	11/15/2013 00:35
MW-02B-GW-001	490-39536-7	11141336.D	11/15/2013 01:02
	490-40098-B-1 MS	11141351.D	11/15/2013 07:46
	490-40098-C-1 MSD	11141352.D	11/15/2013 08:13

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Lab File ID: 10181302.D BFB Injection Date: 10/18/2013

Instrument ID: HP33 BFB Injection Time: 19:05

Analysis Batch No.: 115521

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.9	
75	30.0 - 60.0 % of mass 95	49.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.4	(0.5)1
174	50.0 - 120.00 % of mass 95	81.3	
175	5.0 - 9.0 % of mass 174	5.7	(7.0)1
176	95.0 - 101.0 % of mass 174	78.4	(96.5)1
177	5.0 - 9.0 % of mass 176	5.3	(6.7)2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD0005 490-115521/2	10181304.D	10/18/2013	20:11
	STD001 490-115521/3	10181305.D	10/18/2013	20:38
	STD002 490-115521/4	10181306.D	10/18/2013	21:05
	STD005 490-115521/5	10181307.D	10/18/2013	21:32
	STD010 490-115521/6	10181308.D	10/18/2013	21:59
	ICIS 490-115521/7	10181309.D	10/18/2013	22:26
	STD050 490-115521/8	10181310.D	10/18/2013	22:53
	ICV 490-115521/9	10181311.D	10/18/2013	23:20
	STD100 490-115521/10	10181312.D	10/18/2013	23:47
	STD200 490-115521/11	10181313.D	10/19/2013	00:14

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Lab File ID: 11141301.D BFB Injection Date: 11/14/2013

Instrument ID: HP33 BFB Injection Time: 08:49

Analysis Batch No.: 121823

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.9	
75	30.0 - 60.0 % of mass 95	48.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	90.2	
175	5.0 - 9.0 % of mass 174	7.1	(7.9)1
176	95.0 - 101.0 % of mass 174	87.0	(96.5)1
177	5.0 - 9.0 % of mass 176	5.5	(6.4)2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-121823/2	11141302.D	11/14/2013	09:16
	LCS 490-121823/3	11141303.D	11/14/2013	09:49
	LCSD 490-121823/4	11141304.D	11/14/2013	10:16
	MB 490-121823/5	11141306.D	11/14/2013	11:10
Trip Blank	490-39536-8	11141310.D	11/14/2013	12:58
	490-39510-B-1 MS	11141326.D	11/14/2013	20:32
	490-39510-C-1 MSD	11141327.D	11/14/2013	20:59

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Lab File ID: 11141328.D BFB Injection Date: 11/14/2013

Instrument ID: HP33 BFB Injection Time: 21:26

Analysis Batch No.: 121948

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.8	
75	30.0 - 60.0 % of mass 95	48.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.5	(0.5)1
174	50.0 - 120.00 % of mass 95	89.5	
175	5.0 - 9.0 % of mass 174	6.4	(7.1)1
176	95.0 - 101.0 % of mass 174	87.2	(97.4)1
177	5.0 - 9.0 % of mass 176	5.6	(6.5)2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-121948/2	11141329.D	11/14/2013	21:53
	LCS 490-121948/3	11141330.D	11/14/2013	22:20
	MB 490-121948/4	11141332.D	11/14/2013	23:14
MW-01A-GW-001	490-39536-1	11141333.D	11/14/2013	23:41
MW-01B-GW-001	490-39536-3	11141334.D	11/15/2013	00:08
MW-02A-GW-001	490-39536-5	11141335.D	11/15/2013	00:35
MW-02B-GW-001	490-39536-7	11141336.D	11/15/2013	01:02
	490-40098-B-1 MS	11141351.D	11/15/2013	07:46
	490-40098-C-1 MSD	11141352.D	11/15/2013	08:13

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Sample No.: ICIS 490-115521/7 Date Analyzed: 10/18/2013 22:26

Instrument ID: HP33 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 10181309.D Heated Purge: (Y/N) N

Calibration ID: 19745

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		511147	3.69	349463	6.01	161267	8.14
UPPER LIMIT		1022294	4.19	698926	6.51	322534	8.64
LOWER LIMIT		255574	3.19	174732	5.51	80634	7.64
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 490-115521/9		505561	3.69	343991	6.01	163651	8.14
CCVIS 490-121823/2		476710	3.69	327966	6.00	156476	8.14
CCVIS 490-121948/2		481692	3.69	332251	6.00	161329	8.14

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Sample No.: CCVIS 490-121823/2 Date Analyzed: 11/14/2013 09:16

Instrument ID: HP33 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 11141302.D Heated Purge: (Y/N) N

Calibration ID: 19745

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		476710	3.69	327966	6.00	156476	8.14
UPPER LIMIT		953420	4.19	655932	6.50	312952	8.64
LOWER LIMIT		238355	3.19	163983	5.50	78238	7.64
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 490-121823/3		506214	3.68	347802	6.00	171063	8.14
LCSD 490-121823/4		472411	3.69	320312	6.00	157843	8.14
MB 490-121823/5		451620	3.69	302464	6.01	136317	8.14
490-39536-8	Trip Blank	434636	3.69	281026	6.00	127479	8.15
490-39510-B-1 MS		479559	3.69	338768	6.00	166220	8.14
490-39510-C-1 MSD		471339	3.69	329224	6.00	162191	8.14

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Sample No.: CCVIS 490-121948/2 Date Analyzed: 11/14/2013 21:53

Instrument ID: HP33 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 11141329.D Heated Purge: (Y/N) N

Calibration ID: 19745

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		481692	3.69	332251	6.00	161329	8.14
UPPER LIMIT		963384	4.19	664502	6.50	322658	8.64
LOWER LIMIT		240846	3.19	166126	5.50	80665	7.64
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 490-121948/3		468881	3.69	325127	6.00	162368	8.14
MB 490-121948/4		440163	3.69	299643	6.00	131933	8.14
490-39536-1	MW-01A-GW-001	432723	3.69	290446	6.00	129995	8.14
490-39536-3	MW-01B-GW-001	436733	3.69	287306	6.01	126394	8.14
490-39536-5	MW-02A-GW-001	422978	3.69	286350	6.00	128682	8.15
490-39536-7	MW-02B-GW-001	440816	3.69	291728	6.01	128409	8.14
490-40098-B-1 MS		455003	3.69	318631	6.01	158604	8.14
490-40098-C-1 MSD		451440	3.69	313131	6.00	157298	8.14

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: MW-01A-GW-001 | Lab Sample ID: 490-39536-1

Matrix: Water | Lab File ID: 11141333.D

Analysis Method: 8260B | Date Collected: 11/05/2013 09:07

Sample wt/vol: 5(mL) | Date Analyzed: 11/14/2013 23:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121948 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND		1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	ND		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: MW-01A-GW-001 | Lab Sample ID: 490-39536-1

Matrix: Water | Lab File ID: 11141333.D

Analysis Method: 8260B | Date Collected: 11/05/2013 09:07

Sample wt/vol: 5(mL) | Date Analyzed: 11/14/2013 23:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121948 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND		5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND		1.00	0.200
75-69-4	Trichlorofluoromethane	ND		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		1.00	0.330
75-01-4	Vinyl chloride	ND		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
2037-26-5	Toluene-d8 (Surr)	106		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP33\20131114-28445.b\11141333.D
Lims ID: 490-39536-A-1 Lab Sample ID: 490-39536-1
Client ID: MW-01A-GW-001
Sample Type: Client
Inject. Date: 14-Nov-2013 23:41:30 ALS Bottle#: 33 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 490-39536-A-1
Misc. Info.: 490-0028445-005
Operator ID: JJR Instrument ID: HP33

Method: \\Nvlchrom\ChromData\HP33\20131114-28445.b\8260HP33.m
Limit Group: MSV 8260B ICAL
Last Update: 15-Nov-2013 10:50:43 Calib Date: 19-Oct-2013 00:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D

Column 1 : Detector MS SCAN
Process Host: XAWRK026

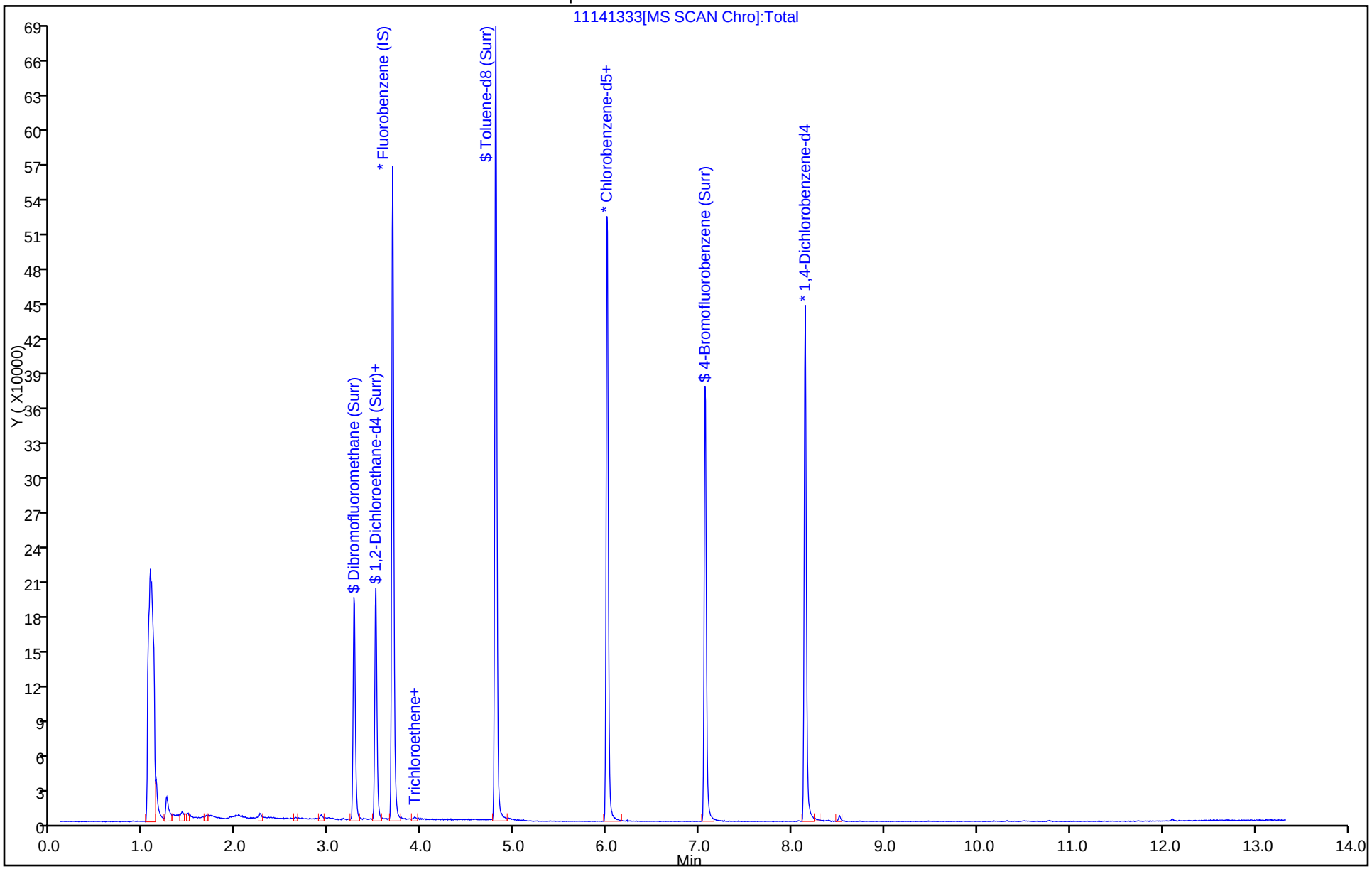
First Level Reviewer: redmondj Date: 15-Nov-2013 10:50:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.690	3.687	0.003	99	432723	30.0	
* 2 Chlorobenzene-d5	117	6.002	6.004	-0.002	84	290446	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.143	8.140	0.003	94	129995	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.270	3.273	-0.003	74	102141	29.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.507	3.504	0.003	98	114587	28.2	
$ 6 Toluene-d8 (Surr)	98	4.803	4.800	0.003	93	412610	31.9	
$ 7 4-Bromofluorobenzene (Surr)	95	7.060	7.063	-0.003	92	127637	28.1	
62 Trichloroethene	130	3.927	3.930	-0.003	40	441	0.1286	

Report Date: 15-Nov-2013 10:50:43 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131114-28445.b\11141333.D				
Injection Date:	14-Nov-2013 23:41:30	Instrument ID:	HP33	Operator ID:	JJR
Lims ID:	490-39536-A-1	Lab Sample ID:	490-39536-1	Worklist Smp#:	5
Client ID:	MW-01A-GW-001				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	33
Method:	8260HP33	Limit Group:	MSV 8260B ICAL		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: MW-01B-GW-001 | Lab Sample ID: 490-39536-3

Matrix: Water | Lab File ID: 11141334.D

Analysis Method: 8260B | Date Collected: 11/05/2013 11:45

Sample wt/vol: 5(mL) | Date Analyzed: 11/15/2013 00:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121948 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND		1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	ND		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: MW-01B-GW-001 | Lab Sample ID: 490-39536-3

Matrix: Water | Lab File ID: 11141334.D

Analysis Method: 8260B | Date Collected: 11/05/2013 11:45

Sample wt/vol: 5(mL) | Date Analyzed: 11/15/2013 00:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121948 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND		5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND		1.00	0.200
75-69-4	Trichlorofluoromethane	ND		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		1.00	0.330
75-01-4	Vinyl chloride	ND		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
2037-26-5	Toluene-d8 (Surr)	110		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP33\20131114-28445.b\11141334.D
Lims ID: 490-39536-A-3 Lab Sample ID: 490-39536-3
Client ID: MW-01B-GW-001
Sample Type: Client
Inject. Date: 15-Nov-2013 00:08:30 ALS Bottle#: 34 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 490-39536-A-3
Misc. Info.: 490-0028445-006
Operator ID: JJR Instrument ID: HP33

Method: \\Nvlchrom\ChromData\HP33\20131114-28445.b\8260HP33.m
Limit Group: MSV 8260B ICAL
Last Update: 15-Nov-2013 10:51:05 Calib Date: 19-Oct-2013 00:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D

Column 1 : Detector MS SCAN
Process Host: XAWRK026

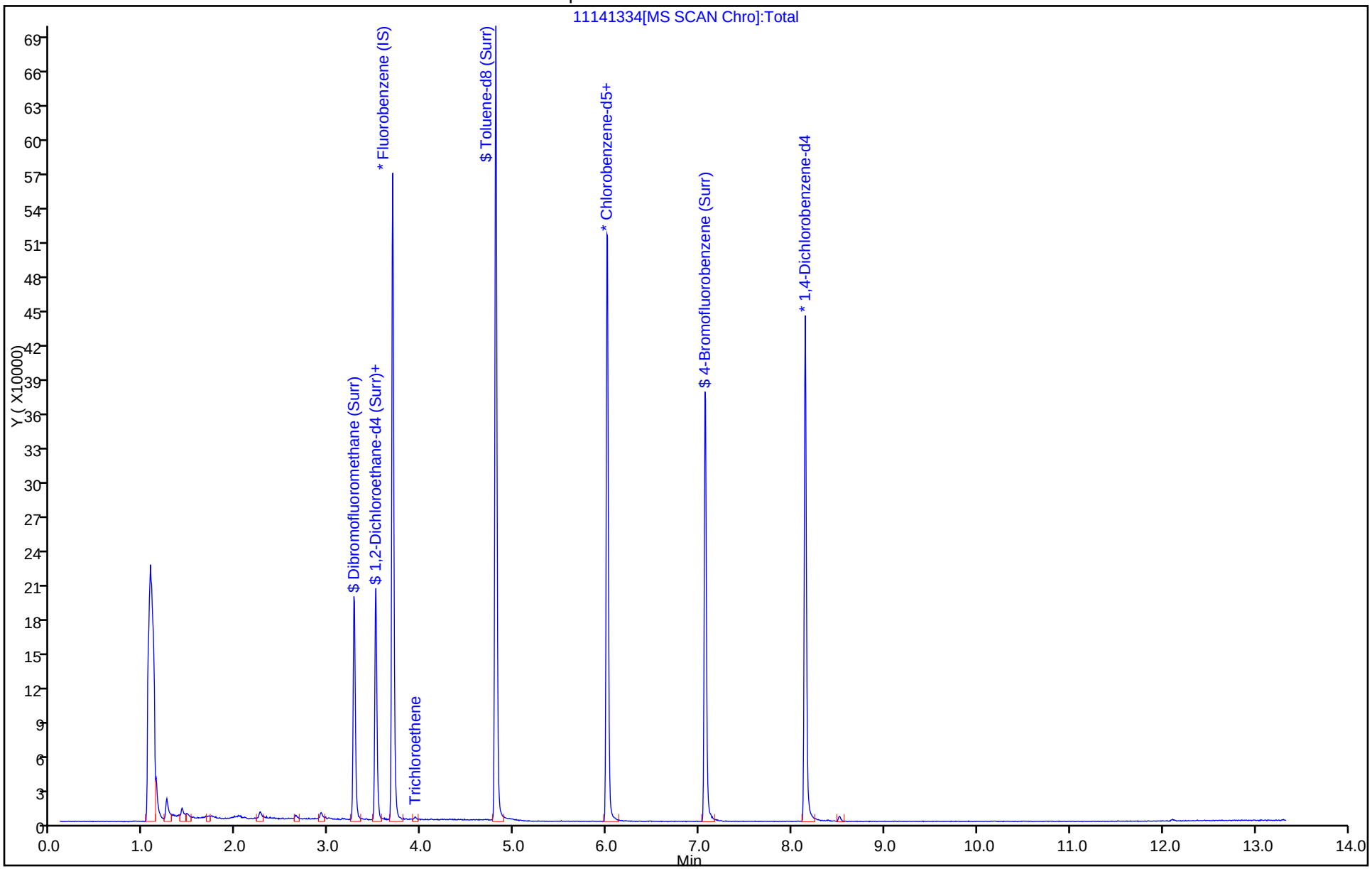
First Level Reviewer: redmondj Date: 15-Nov-2013 10:51:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.690	3.687	0.003	99	436733	30.0	
* 2 Chlorobenzene-d5	117	6.008	6.004	0.004	84	287306	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.143	8.140	0.003	94	126394	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.270	3.273	-0.003	71	103764	30.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.507	3.504	0.003	98	115245	28.1	
$ 6 Toluene-d8 (Surr)	98	4.803	4.800	0.003	93	421717	32.9	
$ 7 4-Bromofluorobenzene (Surr)	95	7.060	7.063	-0.003	93	126915	28.7	
62 Trichloroethene	130	3.933	3.930	0.003	36	439	0.1268	

Report Date: 15-Nov-2013 10:51:06 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131114-28445.b\11141334.D				
Injection Date:	15-Nov-2013 00:08:30	Instrument ID:	HP33	Operator ID:	JJR
Lims ID:	490-39536-A-3	Lab Sample ID:	490-39536-3	Worklist Smp#:	6
Client ID:	MW-01B-GW-001				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	34
Method:	8260HP33	Limit Group:	MSV 8260B ICAL		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: MW-02A-GW-001 | Lab Sample ID: 490-39536-5

Matrix: Water | Lab File ID: 11141335.D

Analysis Method: 8260B | Date Collected: 11/05/2013 14:22

Sample wt/vol: 5(mL) | Date Analyzed: 11/15/2013 00:35

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121948 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND		1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	ND		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: MW-02A-GW-001 | Lab Sample ID: 490-39536-5

Matrix: Water | Lab File ID: 11141335.D

Analysis Method: 8260B | Date Collected: 11/05/2013 14:22

Sample wt/vol: 5(mL) | Date Analyzed: 11/15/2013 00:35

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121948 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND		5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND		1.00	0.200
75-69-4	Trichlorofluoromethane	ND		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		1.00	0.330
75-01-4	Vinyl chloride	ND		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	91		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		70-130
2037-26-5	Toluene-d8 (Surr)	107		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP33\20131114-28445.b\11141335.D
Lims ID: 490-39536-A-5 Lab Sample ID: 490-39536-5
Client ID: MW-02A-GW-001
Sample Type: Client
Inject. Date: 15-Nov-2013 00:35:30 ALS Bottle#: 35 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 490-39536-A-5
Misc. Info.: 490-0028445-007
Operator ID: JJR Instrument ID: HP33

Method: \\Nvlchrom\ChromData\HP33\20131114-28445.b\8260HP33.m
Limit Group: MSV 8260B ICAL
Last Update: 15-Nov-2013 10:51:22 Calib Date: 19-Oct-2013 00:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D

Column 1 : Detector MS SCAN
Process Host: XAWRK026

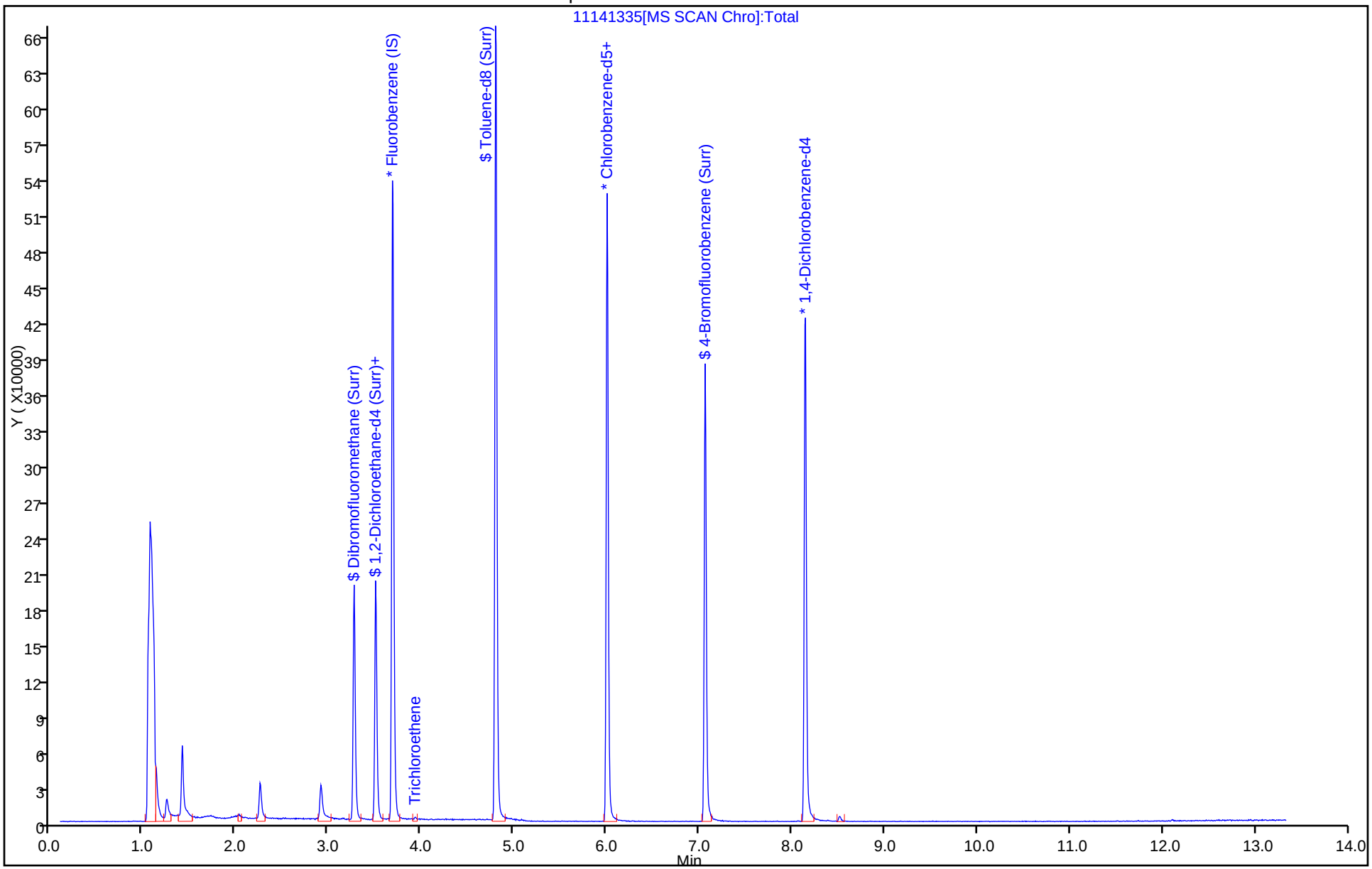
First Level Reviewer: redmondj Date: 15-Nov-2013 10:51:22

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
*	1 Fluorobenzene (IS)	96	3.686	3.687	-0.001	99	422978	30.0	
*	2 Chlorobenzene-d5	117	6.004	6.004	0.0	83	286350	30.0	
*	3 1,4-Dichlorobenzene-d4	152	8.145	8.140	0.005	94	128682	30.0	
$	4 Dibromofluoromethane (Surr)	111	3.272	3.273	-0.001	59	100359	29.9	
$	5 1,2-Dichloroethane-d4 (Surr)	65	3.503	3.504	-0.001	99	113838	28.6	
$	6 Toluene-d8 (Surr)	98	4.799	4.800	-0.001	93	408540	32.0	
$	7 4-Bromofluorobenzene (Surr)	95	7.062	7.063	-0.001	93	123408	27.4	
	62 Trichloroethene	130	3.929	3.930	-0.001	29	406	0.1211	

Report Date: 15-Nov-2013 10:51:23 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131114-28445.b\11141335.D				
Injection Date:	15-Nov-2013 00:35:30	Instrument ID:	HP33	Operator ID:	JJR
Lims ID:	490-39536-A-5	Lab Sample ID:	490-39536-5	Worklist Smp#:	7
Client ID:	MW-02A-GW-001				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	35
Method:	8260HP33	Limit Group:	MSV 8260B ICAL		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: MW-02B-GW-001 | Lab Sample ID: 490-39536-7

Matrix: Water | Lab File ID: 11141336.D

Analysis Method: 8260B | Date Collected: 11/05/2013 16:15

Sample wt/vol: 5(mL) | Date Analyzed: 11/15/2013 01:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121948 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND		1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	ND		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: MW-02B-GW-001 | Lab Sample ID: 490-39536-7

Matrix: Water | Lab File ID: 11141336.D

Analysis Method: 8260B | Date Collected: 11/05/2013 16:15

Sample wt/vol: 5(mL) | Date Analyzed: 11/15/2013 01:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121948 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND		5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND		1.00	0.200
75-69-4	Trichlorofluoromethane	ND		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		1.00	0.330
75-01-4	Vinyl chloride	ND		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		70-130
1868-53-7	Dibromofluoromethane (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
2037-26-5	Toluene-d8 (Surr)	106		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP33\20131114-28445.b\11141336.D
Lims ID: 490-39536-A-7 Lab Sample ID: 490-39536-7
Client ID: MW-02B-GW-001
Sample Type: Client
Inject. Date: 15-Nov-2013 01:02:30 ALS Bottle#: 36 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 490-39536-A-7
Misc. Info.: 490-0028445-008
Operator ID: JJR Instrument ID: HP33

Method: \\Nvlchrom\ChromData\HP33\20131114-28445.b\8260HP33.m
Limit Group: MSV 8260B ICAL
Last Update: 15-Nov-2013 10:51:33 Calib Date: 19-Oct-2013 00:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D

Column 1 : Detector MS SCAN
Process Host: XAWRK026

First Level Reviewer: redmondj Date: 15-Nov-2013 10:51:33

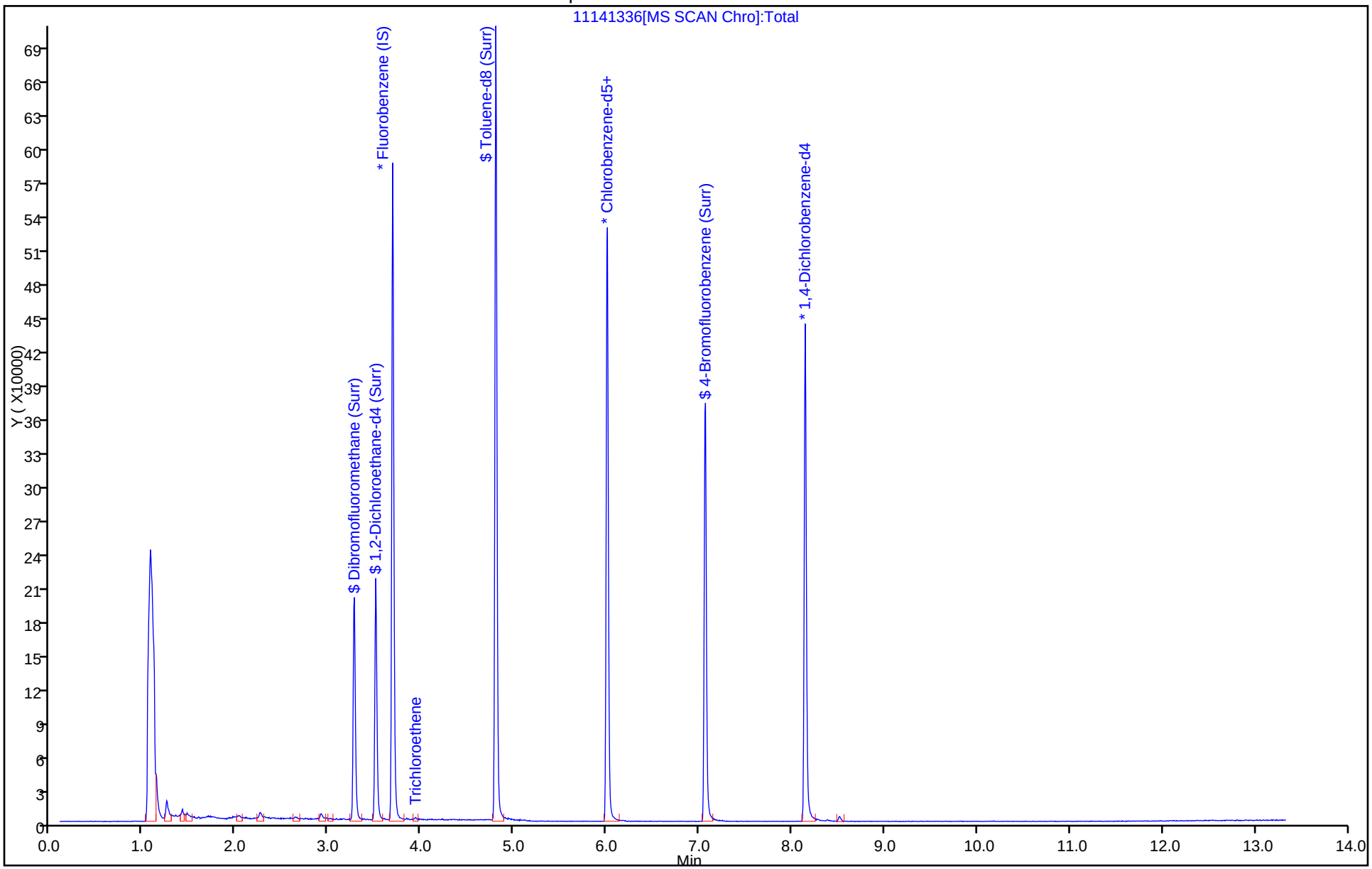
	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
*	1 Fluorobenzene (IS)	96	3.689	3.687	0.002	99	440816	30.0	
*	2 Chlorobenzene-d5	117	6.007	6.004	0.003	85	291728	30.0	
*	3 1,4-Dichlorobenzene-d4	152	8.142	8.140	0.002	94	128409	30.0	
$	4 Dibromofluoromethane (Surr)	111	3.275	3.273	0.002	59	103227	29.5	
$	5 1,2-Dichloroethane-d4 (Surr)	65	3.506	3.504	0.002	98	117038	28.2	
$	6 Toluene-d8 (Surr)	98	4.802	4.800	0.002	93	415069	31.9	
$	7 4-Bromofluorobenzene (Surr)	95	7.065	7.063	0.002	95	125100	27.9	
	62 Trichloroethene	130	3.938	3.930	0.008	41	441	0.1262	

Report Date: 15-Nov-2013 10:51:33 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131114-28445.b\11141336.D

Injection Date:	15-Nov-2013 01:02:30	Instrument ID:	HP33	Operator ID:	JJR
Lims ID:	490-39536-A-7	Lab Sample ID:	490-39536-7	Worklist Smp#:	8
Client ID:	MW-02B-GW-001				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	36
Method:	8260HP33	Limit Group:	MSV 8260B ICAL		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: Trip Blank | Lab Sample ID: 490-39536-8

Matrix: Water | Lab File ID: 11141310.D

Analysis Method: 8260B | Date Collected: 11/05/2013 00:01

Sample wt/vol: 5(mL) | Date Analyzed: 11/14/2013 12:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121823 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND		1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	ND		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	0.503	J	5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: Trip Blank | Lab Sample ID: 490-39536-8

Matrix: Water | Lab File ID: 11141310.D

Analysis Method: 8260B | Date Collected: 11/05/2013 00:01

Sample wt/vol: 5(mL) | Date Analyzed: 11/14/2013 12:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121823 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND		5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND		1.00	0.200
75-69-4	Trichlorofluoromethane	ND		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		1.00	0.330
75-01-4	Vinyl chloride	ND		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		70-130
1868-53-7	Dibromofluoromethane (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		70-130
2037-26-5	Toluene-d8 (Surr)	109		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP33\20131114-28420.b\11141310.D
Lims ID: 490-39536-A-8 Lab Sample ID: 490-39536-8
Client ID: Trip Blank
Sample Type: Client
Inject. Date: 14-Nov-2013 12:58:30 ALS Bottle#: 10 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 490-39536-A-8
Misc. Info.: 490-0028420-030
Operator ID: JJR Instrument ID: HP33

Method: \\Nvlchrom\ChromData\HP33\20131114-28420.b\8260HP33.m
Limit Group: MSV 8260B ICAL
Last Update: 15-Nov-2013 10:02:04 Calib Date: 19-Oct-2013 00:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D

Column 1 : Detector MS SCAN
Process Host: XAWRK026

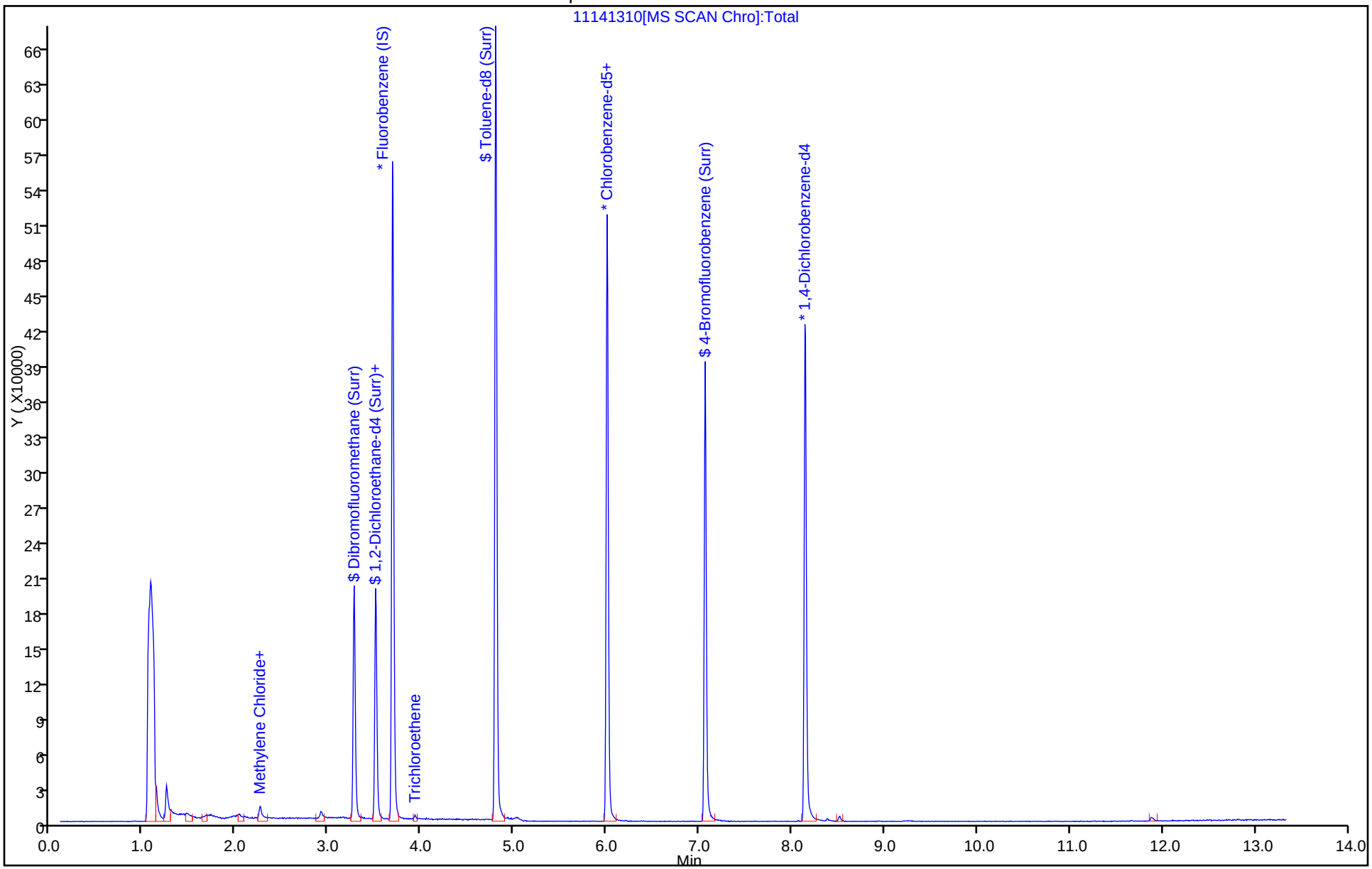
First Level Reviewer: redmondj Date: 15-Nov-2013 10:02:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.686	3.692	-0.006	99	434636	30.0	
* 2 Chlorobenzene-d5	117	6.004	6.003	0.001	85	281026	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.145	8.145	0.0	94	127479	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.273	3.272	0.001	67	101059	29.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.504	3.503	0.001	91	110789	27.1	
$ 6 Toluene-d8 (Surr)	98	4.800	4.805	-0.005	93	408118	32.6	
$ 7 4-Bromofluorobenzene (Surr)	95	7.063	7.062	0.001	93	123775	27.8	
30 Methylene Chloride	84	2.257	2.256	0.001	36	1722	0.5029	
62 Trichloroethene	130	3.936	3.929	0.007	52	658	0.1910	

Report Date: 15-Nov-2013 10:02:04 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

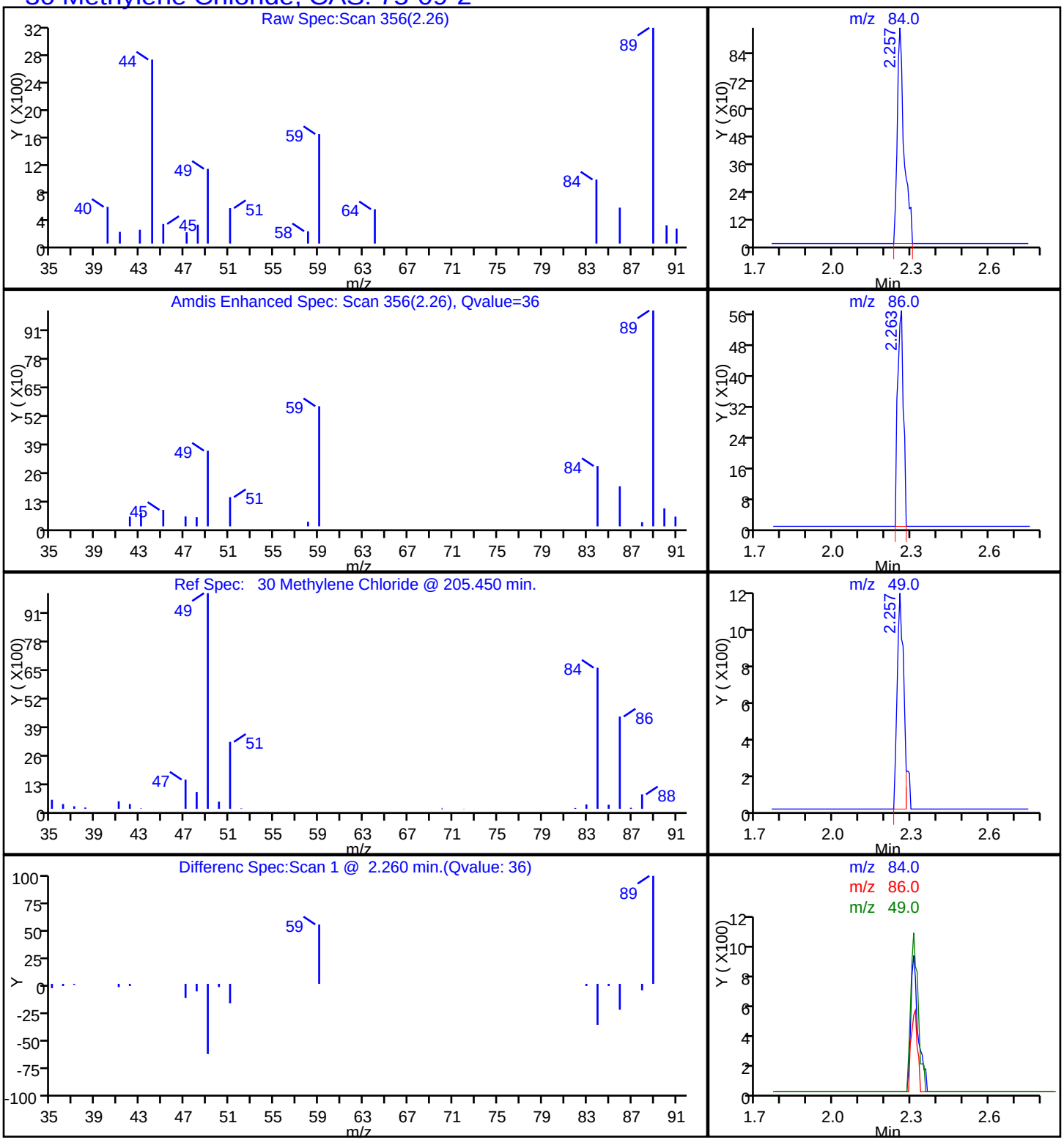
Data File:	\\Nvlchrom\ChromData\HP33\20131114-28420.b\11141310.D				
Injection Date:	14-Nov-2013 12:58:30	Instrument ID:	HP33	Operator ID:	JJR
Lims ID:	490-39536-A-8	Lab Sample ID:	490-39536-8	Worklist Smp#:	30
Client ID:	Trip Blank				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260HP33	Limit Group:	MSV 8260B ICAL		



TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131114-28420.b\11141310.D		
Injection Date:	14-Nov-2013 12:58:30	Instrument ID:	HP33
Lims ID:	490-39536-A-8	Lab Sample ID:	490-39536-8
Client ID:	Trip Blank		
Operator ID:	JJR	ALS Bottle#:	10 Worklist Smp#: 30
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260HP33	Limit Group:	MSV 8260B ICAL
Column:		Detector	MS SCAN

30 Methylene Chloride, CAS: 75-09-2



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39536-2 Analy Batch No.: 115521

SDG No.:

Instrument ID: HP33 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2013 20:11 Calibration End Date: 10/19/2013 00:14 Calibration ID: 19745

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0005 490-115521/2	10181304.D
Level 2	STD001 490-115521/3	10181305.D
Level 3	STD002 490-115521/4	10181306.D
Level 4	STD005 490-115521/5	10181307.D
Level 5	STD010 490-115521/6	10181308.D
Level 6	ICIS 490-115521/7	10181309.D
Level 7	STD050 490-115521/8	10181310.D
Level 8	STD100 490-115521/10	10181312.D
Level 9	STD200 490-115521/11	10181313.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2664 0.2640	0.2523 0.2390	0.2684 0.3046	0.2510 0.2718	0.2763	Ave		0.2660				7.0		15.0			
Chloromethane	0.2735 0.2275	0.2941 0.2198	0.2371 0.2891	0.2327 0.2796	0.2325	Ave		0.2540			0.1000	12.0		15.0			
Vinyl chloride	0.2604 0.2673	0.2789 0.2513	0.2603 0.3185	0.2605 0.2936	0.2789	Ave		0.2744				7.6		15.0			
Butadiene	0.2430 0.2586	0.2723 0.2427	0.2405 0.3063	0.2464 0.2811	0.2712	Ave		0.2625				8.5		15.0			
Bromomethane	0.0586 0.0628	0.0658 0.0780	0.0526 0.1244	0.0483 0.1227	0.0601	Lin	-0.683	0.1253							0.9920		0.9900
Chloroethane	0.3317 0.1772	0.1647 0.1640	0.1957 0.2027	0.1913 0.1947	0.1836	Ave		0.1842				7.9		15.0			
Dichlorofluoromethane	0.4279 0.4221	0.4453 0.4041	0.4257 0.4949	0.4223 0.4656	0.4410	Ave		0.4388				6.2		15.0			
Trichlorofluoromethane	0.2973 0.3618	0.3656 0.3415	0.3266 0.4290	0.3414 0.4002	0.3869	Ave		0.3611				11.0		15.0			
Diethyl ether	0.2035 0.1985	0.1910 0.1894	0.1731 0.2314	0.1954 0.2157	0.2064	Ave		0.2005				8.3		15.0			
Ethanol	0.0035 0.0048	0.0032 0.0045	0.0056 0.0056	0.0049 0.0054	0.0050	Lin1	-0.067	0.0053							0.9960		0.9900
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.2124 0.2106	0.2020 0.1960	0.2090 0.2474	0.2029 0.2311	0.2190	Ave		0.2145				7.5		15.0			
Acrolein	0.0442 0.0341	0.0431 0.0342	0.0376 0.0418	0.0380 0.0403	0.0376	Ave		0.0390				9.3		15.0			
1,1-Dichloroethene	0.1858 0.1962	0.1867 0.1811	0.1837 0.2239	0.1878 0.2146	0.1969	Ave		0.1952				7.6		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39536-2 Analy Batch No.: 115521

SDG No.:

Instrument ID: HP33 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2013 20:11 Calibration End Date: 10/19/2013 00:14 Calibration ID: 19745

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Acetone	0.0928 0.0225	0.0595 0.0204	0.0375 0.0256	0.0278 0.0245	0.0259	Lin1	0.1581	0.0237							0.9940		0.9900
Iodomethane	+++++ 0.1370	+++++ 0.1578	0.0354 0.2021	0.0784 0.1876	0.1096	Lin1	-0.741	0.1929							0.9940		0.9900
Isopropyl alcohol	+++++ 0.0102	0.0115 0.0099	0.0096 0.0117	0.0097 0.0115	0.0109	Ave		0.0106				8.4		15.0			
Carbon disulfide	0.7514 0.6165	0.7030 0.5790	0.6325 0.7233	0.5947 0.6708	0.6349	Ave		0.6562				9.1		15.0			
3-Chloro-1-propene	0.1707 0.1509	0.1631 0.1391	0.1456 0.1598	0.1429 0.1524	0.1562	Ave		0.1534				6.6		15.0			
Acetonitrile	0.0196 0.0290	0.0361 0.0256	0.0366 0.0304	0.0288 0.0253	0.0301	Ave		0.0302				14.0		15.0			
Methyl acetate	0.2445 0.2442	0.2604 0.2370	0.2366 0.2774	0.2403 0.2568	0.2502	Ave		0.2497				5.3		15.0			
Methylene Chloride	0.2449 0.2199	0.2489 0.2120	0.2290 0.2609	0.2287 0.2470	0.2358	Ave		0.2363				6.6		15.0			
tert-Butyl alcohol (TBA)	0.0140 0.0165	0.0168 0.0166	0.0176 0.0195	0.0175 0.0199	0.0185	Ave		0.0174				10.0		15.0			
Methyl tert-butyl ether	0.6809 0.6643	0.6743 0.6407	0.6591 0.7757	0.6709 0.7325	0.6901	Ave		0.6876				6.0		15.0			
trans-1,2-Dichloroethene	0.3083 0.3166	0.3265 0.2978	0.3196 0.3720	0.3142 0.3513	0.3217	Ave		0.3253				7.0		15.0			
Acrylonitrile	0.0944 0.0959	0.1001 0.0937	0.0998 0.1133	0.1009 0.1058	0.1021	Ave		0.1007				6.1		15.0			
Hexane	0.4210 0.3672	0.4128 0.3388	0.3896 0.4268	0.3644 0.3973	0.3811	Ave		0.3888				7.5		15.0			
Diisopropyl ether	0.8521 0.8100	0.9117 0.7804	0.8338 0.9443	0.8249 0.8901	0.8427	Ave		0.8545				6.1		15.0			
1,1-Dichloroethane	0.3499 0.4271	0.4280 0.4076	0.4125 0.5082	0.4309 0.4812	0.4452	Ave		0.4323			0.1000	10.0		15.0			
Vinyl acetate	0.6758 0.6333	0.6438 0.5960	0.6456 0.7088	0.6345 0.6822	0.6597	Ave		0.6533				5.0		15.0			
Chloroprene	0.3557 0.3752	0.3889 0.3509	0.3680 0.4369	0.3565 0.4129	0.3894	Ave		0.3816				7.5		15.0			
Ethyl tert-butyl ether	0.6963 0.7391	0.7396 0.7094	0.7229 0.8665	0.7445 0.8073	0.7567	Ave		0.7536				7.0		15.0			
2,2-Dichloropropane	0.3281 0.3250	0.3450 0.3149	0.3411 0.3902	0.3330 0.3660	0.3353	Ave		0.3421				6.7		15.0			
cis-1,2-Dichloroethene	0.3785 0.3911	0.3906 0.3802	0.4084 0.4686	0.3965 0.4443	0.4067	Ave		0.4072				7.4		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39536-2 Analy Batch No.: 115521

SDG No.:

Instrument ID: HP33 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2013 20:11 Calibration End Date: 10/19/2013 00:14 Calibration ID: 19745

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Ethyl acetate	0.4215 0.3843	0.4171 0.3873	0.3721 0.4677	0.4017 0.4397	0.4116	Ave		0.4114				7.2		15.0			
2-Butanone (MEK)	0.0332 0.0261	0.0273 0.0283	0.0278 0.0338	0.0277 0.0328	0.0294	Ave		0.0296				9.8		15.0			
Propionitrile	0.0399 0.0352	0.0355 0.0347	0.0343 0.0413	0.0345 0.0394	0.0365	Ave		0.0368				7.2		15.0			
Bromochloromethane	0.1036 0.1240	0.1211 0.1202	0.1346 0.1476	0.1222 0.1373	0.1268	Ave		0.1264				9.9		15.0			
Methacrylonitrile	0.1742 0.1695	0.1777 0.1670	0.1717 0.1962	0.1719 0.1773	0.1796	Ave		0.1761				4.9		15.0			
Tetrahydrofuran	0.1604 0.1018	0.1229 0.1006	0.1175 0.1221	0.1055 0.1189	0.1110	Ave		0.1179				15.0		15.0			
Chloroform	0.4592 0.3916	0.4044 0.3729	0.4054 0.4564	0.4061 0.4350	0.3952	Ave		0.4140				7.2		15.0			
Cyclohexane	0.4232 0.4437	0.4512 0.4122	0.4433 0.5221	0.4223 0.4921	0.4504	Ave		0.4512				7.8		15.0			
1,1,1-Trichloroethane	0.3357 0.3363	0.3390 0.3179	0.3222 0.3955	0.3090 0.3754	0.3296	Ave		0.3401				8.2		15.0			
Carbon tetrachloride	0.2697 0.2698	0.2790 0.2636	0.2622 0.3404	0.2604 0.3240	0.2773	Ave		0.2829				10.0		15.0			
1,1-Dichloropropene	0.2843 0.3041	0.3218 0.2849	0.3053 0.3577	0.2871 0.3376	0.3163	Ave		0.3110				8.1		15.0			
Isobutanol	0.0363 0.0220	0.0220 0.0215	0.0245 0.0255	0.0235 0.0254	0.0232	Ave		0.0235				6.8		15.0			
Benzene	0.9363 0.9337	0.9721 0.8923	0.9726 1.0978	0.9356 1.0074	0.9710	Ave		0.9688				6.0		15.0			
Tert-amyl methyl ether	0.6428 0.6624	0.6435 0.6453	0.6268 0.7893	0.6706 0.7417	0.6755	Ave		0.6775				7.9		15.0			
1,2-Dichloroethane	0.2664 0.3087	0.3070 0.2988	0.2953 0.3627	0.3139 0.3399	0.3245	Ave		0.3130				8.8		15.0			
Heptane	0.4602 0.3898	0.3940 0.3706	0.3940 0.4621	0.3849 0.4266	0.4000	Ave		0.4091				8.1		15.0			
n-Butanol	+++++ 0.0049	0.0056 0.0049	0.0048 0.0058	0.0049 0.0059	0.0053	Ave		0.0052				8.7		15.0			
Trichloroethene	0.2159 0.2320	0.2273 0.2236	0.2236 0.2759	0.2384 0.2608	0.2427	Ave		0.2378				8.2		15.0			
Cyclohexanone	0.0698 0.0652	0.0706 0.0637	0.0689 0.0786	0.0657 0.0744	0.0697	Ave		0.0696				6.7		15.0			
Ethyl acrylate	0.6977 0.6525	0.7064 0.6373	0.6890 0.7859	0.6571 0.7442	0.6971	Ave		0.6963				6.7		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39536-2 Analy Batch No.: 115521

SDG No.:

Instrument ID: HP33 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2013 20:11 Calibration End Date: 10/19/2013 00:14 Calibration ID: 19745

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Methylcyclohexane	0.4061 0.4257	0.4180 0.4017	0.4339 0.5089	0.4205 0.4752	0.4428	Ave		0.4370				7.9		15.0			
1,2-Dichloropropane	0.2382 0.2492	0.2465 0.2390	0.2399 0.2912	0.2447 0.2739	0.2515	Ave		0.2527				7.1		15.0			
Methyl methacrylate	0.2536 0.2343	0.2596 0.2293	0.2297 0.2799	0.2340 0.2671	0.2359	Ave		0.2471				7.5		15.0			
Dibromomethane	0.1385 0.1362	0.1289 0.1290	0.1241 0.1591	0.1286 0.1519	0.1298	Ave		0.1362				8.7		15.0			
1,4-Dioxane	0.0110 0.0020	0.0059 0.0018	0.0036 0.0021	0.0026 0.0021	0.0024	Lin2	0.0652	0.0020							0.9940		0.9900
Bromodichloromethane	0.2710 0.2797	0.2564 0.2836	0.2450 0.3573	0.2640 0.3432	0.2814	Ave		0.2869				13.0		15.0			
2-Nitropropane	0.0763 0.0916	0.0853 0.0968	0.0989 0.1243	0.0963 0.1269	0.0873	Ave		0.1032				15.0		15.0			
2-Chloroethyl vinyl ether	0.1950 0.2122	0.1889 0.2122	0.2096 0.2544	0.1985 0.2384	0.2261	Ave		0.2150				9.9		15.0			
cis-1,3-Dichloropropene	0.4330 0.4942	0.4215 0.4927	0.4294 0.6174	0.4650 0.5728	0.5027	Ave		0.4921				14.0		15.0			
4-Methyl-2-pentanone (MIBK)	0.1371 0.1246	0.1224 0.1266	0.1154 0.1542	0.1219 0.1505	0.1266	Ave		0.1310				10.0		15.0			
Toluene	1.3694 1.3720	1.3744 1.3128	1.3700 1.6108	1.3860 1.4575	1.4228	Ave		1.4084				6.1		15.0			
trans-1,3-Dichloropropene	0.3443 0.4158	0.3853 0.4248	0.3740 0.5330	0.3692 0.5086	0.4097	Ave		0.4183				15.0		15.0			
Ethyl methacrylate	0.3678 0.4319	0.3709 0.4262	0.4155 0.5337	0.4038 0.5075	0.4356	Ave		0.4325				13.0		15.0			
1,1,2-Trichloroethane	0.2150 0.2787	0.2905 0.2659	0.2733 0.3266	0.2786 0.3048	0.2826	Ave		0.2796				11.0		15.0			
Tetrachloroethene	0.3551 0.3490	0.3683 0.3312	0.3628 0.4151	0.3407 0.3824	0.3572	Ave		0.3624				6.8		15.0			
1,3-Dichloropropane	0.4898 0.4942	0.4952 0.4810	0.5006 0.5836	0.4909 0.5444	0.5059	Ave		0.5095				6.5		15.0			
2-Hexanone	0.1049 0.1161	0.1129 0.1194	0.1077 0.1467	0.1129 0.1435	0.1205	Ave		0.1205				12.0		15.0			
n-Butyl acetate	0.1722 0.1789	0.1519 0.1757	0.1325 0.2125	0.1670 0.2134	0.1863	Ave		0.1767				15.0		15.0			
Chlorodibromomethane	0.1830 0.2227	0.1929 0.2282	0.1992 0.2952	0.2076 0.2811	0.2188	Lin1	-0.191	0.2757							0.9920		0.9900
1,2-Dibromoethane (EDB)	0.2838 0.2886	0.2888 0.2807	0.2806 0.3426	0.2828 0.3182	0.2894	Ave		0.2951				7.2		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39536-2 Analy Batch No.: 115521

SDG No.:

Instrument ID: HP33 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2013 20:11 Calibration End Date: 10/19/2013 00:14 Calibration ID: 19745

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Chlorobenzene	0.8921 0.9042	0.9355 0.8721	0.9012 1.0564	0.9020 0.9742	0.9350	Ave		0.9303			0.3000	6.0		15.0			
Ethylbenzene	1.6209 1.5913	1.6020 1.5265	1.6171 1.8743	1.5494 1.6837	1.6293	Ave		1.6327				6.2		15.0			
1,1,1,2-Tetrachloroethane	0.2750 0.3001	0.2710 0.3059	0.2862 0.3856	0.2781 0.3645	0.3104	Ave		0.3085				13.0		15.0			
m,p-Xylene	1.2992 1.2174	1.2238 1.1788	1.2658 1.4569	1.2068 1.3137	1.2448	Ave		1.2675				6.6		15.0			
o-Xylene	1.1923 1.2397	1.2302 1.1911	1.2020 1.4699	1.1872 1.3418	1.2469	Ave		1.2557				7.5		15.0			
Styrene	0.8701 1.0212	0.9225 1.0084	0.9632 1.2488	0.9781 1.1523	1.0284	Ave		1.0214				11.0		15.0			
Bromoform	0.1491 0.1793	0.1399 0.2006	0.1578 0.2591	0.1638 0.2455	0.1771	Lin1	-0.213	0.2407			0.1000				0.9900		0.9900
Isopropylbenzene	1.5113 1.5697	1.5504 1.5269	1.5465 1.8759	1.5326 1.6697	1.6352	Ave		1.6020				7.2		15.0			
Bromobenzene	1.3666 1.2602	1.2562 1.1971	1.3317 1.4682	1.2865 1.3746	1.3270	Ave		1.3187				6.1		15.0			
1,1,2,2-Tetrachloroethane	0.7281 0.7686	0.7634 0.7340	0.8275 0.8870	0.7708 0.8438	0.8060	Ave		0.7921			0.3000	6.7		15.0			
N-Propylbenzene	4.1373 4.0634	3.9524 3.8279	4.0344 4.6612	4.1039 4.1676	4.1867	Ave		4.1261				5.6		15.0			
1,2,3-Trichloropropane	0.2780 0.2599	0.2427 0.2476	0.2613 0.3015	0.2860 0.2832	0.2802	Ave		0.2711				7.2		15.0			
trans-1,4-Dichloro-2-butene	+++++ 0.2211	0.1257 0.2329	0.1952 0.2783	0.1991 0.2845	0.2067	Ave		0.2371				15.0		15.0			
2-Chlorotoluene	2.2825 2.3004	2.4343 2.1718	2.3481 2.6464	2.4018 2.4279	2.3055	Ave		2.3687				5.6		15.0			
1,3,5-Trimethylbenzene	2.7059 2.7710	2.7107 2.6281	2.6885 3.2049	2.7965 2.9380	2.8374	Ave		2.8090				6.2		15.0			
4-Chlorotoluene	2.4203 2.4458	2.3140 2.2949	2.4913 2.8395	2.4674 2.6126	2.5157	Ave		2.4890				6.6		15.0			
tert-Butylbenzene	2.2213 2.4131	2.4180 2.2768	2.3007 2.8253	2.4746 2.5784	2.4489	Ave		2.4397				7.4		15.0			
1,2,4-Trimethylbenzene	2.6582 2.8381	2.6329 2.7027	2.8037 3.2700	2.8497 2.9803	2.8933	Ave		2.8477				6.8		15.0			
sec-Butylbenzene	3.2734 3.5857	3.4222 3.4143	3.5515 4.1741	3.5721 3.7090	3.6332	Ave		3.5928				7.1		15.0			
p-Isopropyltoluene	2.9162 3.1086	2.7864 2.9726	2.9567 3.6977	3.0473 3.3797	3.1298	Ave		3.1106				8.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39536-2 Analy Batch No.: 115521

SDG No.:

Instrument ID: HP33 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2013 20:11 Calibration End Date: 10/19/2013 00:14 Calibration ID: 19745

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,3-Dichlorobenzene	1.5652 1.5392	1.5145 1.4553	1.4835 1.7757	1.5122 1.6389	1.5364	Ave		1.5579				6.2		15.0			
1,4-Dichlorobenzene	1.6738 1.5262	1.5476 1.4352	1.5441 1.7852	1.5800 1.6465	1.5222	Ave		1.5845				6.5		15.0			
1,2,3-Trimethylbenzene	2.7672 2.8281	2.8797 2.6773	2.7412 3.2464	2.8271 2.9557	2.8589	Ave		2.8646				5.7		15.0			
Benzyl chloride	0.4494 0.5686	0.4471 0.6542	0.4437 0.8432	0.4815 0.7893	0.5487	Lin1	-2.397	0.8014							0.9930		0.9900
n-Butylbenzene	2.5673 2.7247	2.4868 2.6009	2.4548 3.2405	2.5531 2.9509	2.6580	Ave		2.6930				9.4		15.0			
1,2-Dichlorobenzene	1.4370 1.3928	1.3187 1.3285	1.3579 1.6311	1.4120 1.4893	1.4240	Ave		1.4213				6.7		15.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1674	0.1337 0.1625	0.1294 0.2108	0.1519 0.1973	0.1619	Lin1	-0.223	0.1969							0.9940		0.9900
1,3,5-Trichlorobenzene	0.7894 0.9466	0.8216 0.8927	0.8363 1.1350	0.8735 1.0528	0.9516	Ave		0.9222				12.0		15.0			
1,2,4-Trichlorobenzene	0.6813 0.8017	0.7359 0.7688	0.7517 0.9779	0.7365 0.9249	0.8041	Ave		0.7981				12.0		15.0			
Hexachlorobutadiene	0.4602 0.4099	0.4330 0.3800	0.4329 0.4881	0.3922 0.4556	0.4012	Ave		0.4281				8.3		15.0			
Naphthalene	2.8240 2.3661	2.4397 2.2713	2.2680 2.8407	2.2856 2.6346	2.3359	Ave		2.4740				9.4		15.0			
1,2,3-Trichlorobenzene	0.7017 0.7298	0.6428 0.6894	0.6569 0.8969	0.7174 0.8392	0.7387	Ave		0.7347				11.0		15.0			
Dibromofluoromethane (Surr)	0.2324 0.2384	0.2360 0.2411	0.2355 0.2411	0.2346 0.2431	0.2388	Ave		0.2379				1.5		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2792 0.2872	0.2819 0.2768	0.2803 0.2836	0.2819 0.2832	0.2854	Ave		0.2822				1.1		15.0			
Toluene-d8 (Surr)	1.3695 1.3225	1.3342 1.3165	1.3514 1.3306	1.3297 1.3261	1.3484	Ave		1.3365				1.3		15.0			
4-Bromofluorobenzene (Surr)	1.0713 1.0504	1.0557 1.0190	1.0671 1.0217	1.0837 1.0368	1.0370	Ave		1.0492				2.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39536-2 Analy Batch No.: 115521

SDG No.:

Instrument ID: HP33 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2013 20:11 Calibration End Date: 10/19/2013 00:14 Calibration ID: 19745

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0005 490-115521/2	10181304.D
Level 2	STD001 490-115521/3	10181305.D
Level 3	STD002 490-115521/4	10181306.D
Level 4	STD005 490-115521/5	10181307.D
Level 5	STD010 490-115521/6	10181308.D
Level 6	ICIS 490-115521/7	10181309.D
Level 7	STD050 490-115521/8	10181310.D
Level 8	STD100 490-115521/10	10181312.D
Level 9	STD200 490-115521/11	10181313.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Dichlorodifluoromethane	FB	Ave	2242 89974	4298 207149	8944 511137	20746 923077	44842	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Chloromethane	FB	Ave	2302 77526	5009 190500	7902 485057	19235 949581	37748	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Vinyl chloride	FB	Ave	2192 91095	4751 217797	8673 534324	21532 997131	45274	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Butadiene	FB	Ave	2045 88131	4638 210303	8015 513971	20360 954630	44028	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Bromomethane	FB	Lin	493 21412	1121 67580	1753 208748	3995 416597	9750	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Chloroethane	FB	Ave	2792 60374	2805 142090	6520 340027	15809 661093	29807	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Dichlorofluoromethane	FB	Ave	3601 143830	7585 350201	14187 830329	34899 1581012	71581	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Trichlorofluoromethane	FB	Ave	2502 123293	6228 295928	10884 719719	28217 1359058	62795	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Diethyl ether	FB	Ave	1713 67630	3254 164126	5768 388180	16151 732350	33496	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Ethanol	FB	Lin1	1483 81072	2691 196421	9401 469765	20211 911450	40511	25.0 1000	50.0 2500	100 5000	250 10000	500
1,1,2-Trichloro-1,2,2-trichfluoroethane	FB	Ave	1788 71781	3440 169830	6966 415105	16770 784865	35544	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Acrolein	FB	Ave	929 29013	1834 74022	3131 175253	7849 342035	15249	1.25 50.0	2.50 125	5.00 250	12.5 500	25.0
1,1-Dichloroethene	FB	Ave	1564 66865	3180 156923	6121 375677	15523 728736	31956	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Acetone	FB	Lin1	3904 38379	5065 88376	6242 214790	11476 415248	21019	2.50 100	5.00 250	10.0 500	25.0 1000	50.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39536-2 Analy Batch No.: 115521

SDG No.:

Instrument ID: HP33 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2013 20:11 Calibration End Date: 10/19/2013 00:14 Calibration ID: 19745

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Iodomethane	FB	Lin1	+++++ 46686	+++++ 136795	1180 339021	6483 636929	17789	+++++ 20.0	+++++ 50.0	2.00 100	5.00 200	10.0
Isopropyl alcohol	FB	Ave	+++++ 34863	1963 85739	3187 195761	7996 391309	17771	+++++ 200	10.0 500	20.0 1000	50.0 2000	100
Carbon disulfide	FB	Ave	6324 210074	11974 501830	21079 1213578	49150 2277834	103055	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
3-Chloro-1-propene	FB	Ave	1437 51430	2778 120546	4852 268195	11808 517452	25351	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Acetonitrile	FB	Ave	1652 98969	6157 221463	12186 509224	23766 860517	48882	5.00 200	10.0 500	20.0 1000	50.0 2000	100
Methyl acetate	FB	Ave	10290 416057	22178 1027082	39420 2326734	99295 4359314	203084	2.50 100	5.00 250	10.0 500	25.0 1000	50.0
Methylene Chloride	FB	Ave	2061 74943	4240 183724	7631 437743	18900 838855	38273	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
tert-Butyl alcohol (TBA)	FB	Ave	1179 56215	2864 143738	5868 326559	14430 675315	30057	5.00 200	10.0 500	20.0 1000	50.0 2000	100
Methyl tert-butyl ether	FB	Ave	5731 226369	11485 555257	21963 1301430	55451 2487341	112019	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
trans-1,2-Dichloroethene	FB	Ave	2595 107887	5561 258055	10649 624157	25971 1192924	52221	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Acrylonitrile	FB	Ave	7945 326664	17051 812038	33251 1900185	83431 3594080	165780	5.00 200	10.0 500	20.0 1000	50.0 2000	100
Hexane	FB	Ave	3543 125144	7031 293618	12983 716171	30116 1349065	61854	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Diisopropyl ether	FB	Ave	7172 276006	15530 676380	27785 1584441	68173 3022531	136793	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,1-Dichloroethane	FB	Ave	2945 145527	7291 353253	13747 852623	35610 1634154	72273	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Vinyl acetate	FB	Ave	11375 431596	21934 1033112	43025 2378441	104881 4633060	214172	1.00 40.0	2.00 100	4.00 200	10.0 400	20.0
Chloroprene	FB	Ave	2994 127860	6625 304069	12263 733082	29461 1402169	63208	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Ethyl tert-butyl ether	FB	Ave	5860 251874	12598 614779	24091 1453895	61530 2741504	122836	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
2,2-Dichloropropane	FB	Ave	2761 110759	5877 272932	11366 654736	27523 1242907	54431	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
cis-1,2-Dichloroethene	FB	Ave	3186 133276	6653 329501	13609 786234	32772 1508655	66016	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Ethyl acetate	FB	Ave	7095 261891	14211 671353	24799 1569410	66396 2986014	133627	1.00 40.0	2.00 100	4.00 200	10.0 400	20.0
2-Butanone (MEK)	FB	Ave	1399 44434	2328 122752	4624 283307	11450 557413	23876	2.50 100	5.00 250	10.0 500	25.0 1000	50.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39536-2 Analy Batch No.: 115521

SDG No.:

Instrument ID: HP33 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2013 20:11 Calibration End Date: 10/19/2013 00:14 Calibration ID: 19745

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Propionitrile	FB	Ave	3357 119998	6050 300445	11444 692378	28531 1337436	59168	5.00 200	10.0 500	20.0 1000	50.0 2000	100
Bromochloromethane	FB	Ave	872 42242	2062 104215	4486 247599	10101 466208	20578	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Methacrylonitrile	FB	Ave	14664 577566	30273 1447596	57211 3292660	142032 6020026	291609	5.00 200	10.0 500	20.0 1000	50.0 2000	100
Tetrahydrofuran	FB	Ave	2700 69395	4188 174364	7833 409801	17443 807525	36047	1.00 40.0	2.00 100	4.00 200	10.0 400	20.0
Chloroform	FB	Ave	3865 133451	6889 323161	13510 765761	33564 1477167	64153	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Cyclohexane	FB	Ave	3562 151206	7685 357206	14772 875926	34903 1671158	73111	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,1,1-Trichloroethane	FB	Ave	2825 114586	5775 275490	10736 663590	25539 1274820	53499	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Carbon tetrachloride	FB	Ave	2270 91932	4752 228485	8739 571187	21517 1100208	45018	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,1-Dichloropropene	FB	Ave	2393 103629	5482 246887	10173 600081	23729 1146523	51347	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Isobutanol	FB	Ave	3052 74977	3742 186329	8174 428565	19436 863397	37713	5.00 200	10.0 500	20.0 1000	50.0 2000	100
Benzene	FB	Ave	7880 318186	16558 773346	32412 1841890	77328 3420951	157620	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Tert-amyl methyl ether	FB	Ave	5410 225735	10961 559223	20887 1324308	55423 2518675	109647	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2-Dichloroethane	FB	Ave	2242 105185	5229 258980	9839 608481	25946 1154213	52680	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Heptane	FB	Ave	3873 132832	6711 321220	13131 775311	31811 1448617	64931	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
n-Butanol	FB	Ave	+++++ 41445	2381 105457	3987 244496	10148 497076	21404	+++++ 500	25.0 1250	50.0 2500	125 5000	250
Trichloroethene	FB	Ave	1817 79058	3872 193824	7450 462980	19707 885601	39393	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Cyclohexanone	FB	Ave	5872 222334	12033 552279	22961 1318604	54305 2527047	113160	5.00 200	10.0 500	20.0 1000	50.0 2000	100
Ethyl acrylate	FB	Ave	5872 222334	12033 552279	22961 1318604	54305 2527047	113160	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Methylcyclohexane	FB	Ave	3418 145067	7120 348123	14460 853914	34750 1613692	71875	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2-Dichloropropane	FB	Ave	2005 84913	4199 207099	7996 488528	20227 930150	40819	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Methyl methacrylate	FB	Ave	4268 159710	8845 397529	15311 939239	38679 1813822	76576	1.00 40.0	2.00 100	4.00 200	10.0 400	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39536-2 Analy Batch No.: 115521

SDG No.:

Instrument ID: HP33 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2013 20:11 Calibration End Date: 10/19/2013 00:14 Calibration ID: 19745

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Dibromomethane	FB	Ave	1166 46425	2195 111797	4137 266880	10628 515833	21070	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,4-Dioxane	FB	Lin2	1845 13727	1995 31464	2395 70098	4361 145123	7782	10.0 400	20.0 1000	40.0 2000	100 4000	200
Bromodichloromethane	FB	Ave	2281 95309	4368 245763	8165 599558	21818 1165254	45684	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
2-Nitropropane	FB	Ave	1284 62431	2905 167717	6593 417265	15922 861740	28347	1.00 40.0	2.00 100	4.00 200	10.0 400	20.0
2-Chloroethyl vinyl ether	CBZ	Ave	1086 49431	2167 125730	4619 294660	11210 582218	25065	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
cis-1,3-Dichloropropene	CBZ	Ave	2411 115126	4836 291952	9466 715178	26260 1399105	55739	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	3816 145108	7024 375017	12720 892843	34435 1837699	70162	2.50 100	5.00 250	10.0 500	25.0 1000	50.0
Toluene	CBZ	Ave	7625 319645	15770 777913	30197 1865807	78275 3560031	157763	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
trans-1,3-Dichloropropene	CBZ	Ave	1917 96870	4421 251692	8243 617419	20850 1242219	45433	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Ethyl methacrylate	CBZ	Ave	2048 100622	4256 252546	9159 618185	22802 1239572	48302	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,1,2-Trichloroethane	CBZ	Ave	1197 64933	3333 157558	6025 378287	15736 744532	31334	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Tetrachloroethene	CBZ	Ave	1977 81315	4226 196269	7997 480832	19244 934012	39605	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,3-Dichloropropane	CBZ	Ave	2727 115132	5682 284984	11034 675996	27721 1329803	56092	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
2-Hexanone	CBZ	Ave	2921 135252	6476 353742	11875 849923	31894 1753150	66800	2.50 100	5.00 250	10.0 500	25.0 1000	50.0
n-Butyl acetate	FB	Ave	1449 60951	2588 152309	4416 356509	13805 724716	30238	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Chlorodibromomethane	CBZ	Lin1	1019 51884	2213 135195	4390 341942	11722 686721	24263	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2-Dibromoethane (EDB)	CBZ	Ave	1580 67244	3314 166345	6184 396859	15972 777192	32088	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Chlorobenzene	CBZ	Ave	4967 210660	10734 516756	19864 1223619	50943 2379635	103672	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Ethylbenzene	CBZ	Ave	9025 370735	18381 904486	35645 2171016	87503 4112676	180660	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	1531 69922	3109 181272	6309 446695	15707 890231	34416	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
m,p-Xylene	CBZ	Ave	7234 283621	14042 698467	27901 1687537	68157 3208847	138020	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39536-2 Analy Batch No.: 115521

SDG No.:

Instrument ID: HP33 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2013 20:11 Calibration End Date: 10/19/2013 00:14 Calibration ID: 19745

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
o-Xylene	CBZ	Ave	6639 288823	14115 705791	26494 1702638	67049 3277580	138257	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Styrene	CBZ	Ave	4845 237904	10584 597501	21232 1446577	55237 2814568	114031	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Bromoform	CBZ	Lin1	830 41764	1605 118847	3478 300076	9251 599693	19638	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Isopropylbenzene	CBZ	Ave	8415 365713	17789 904760	34089 2172946	86555 4078380	181317	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Bromobenzene	DCB	Ave	3412 135489	6475 346747	13129 826581	32508 1610381	68595	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,1,2,2-Tetrachloroethane	DCB	Ave	1818 82628	3935 212594	8158 499351	19476 988539	41667	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
N-Propylbenzene	DCB	Ave	10330 436860	20372 1108776	39775 2624182	103699 4882314	216428	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2,3-Trichloropropane	DCB	Ave	694 27937	1251 71707	2576 169760	7228 331738	14485	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
trans-1,4-Dichloro-2-butene	DCB	Ave	+++++ 23776	648 67466	1924 156665	5032 333285	10684	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0
2-Chlorotoluene	DCB	Ave	5699 247324	12547 629065	23150 1489900	60689 2844280	119180	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,3,5-Trimethylbenzene	DCB	Ave	6756 297918	13972 761239	26506 1804323	70662 3441886	146675	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
4-Chlorotoluene	DCB	Ave	6043 262947	11927 664726	24562 1598595	62346 3060621	130044	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
tert-Butylbenzene	DCB	Ave	5546 259436	12463 659489	22683 1590621	62530 3020605	126595	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2,4-Trimethylbenzene	DCB	Ave	6637 305127	13571 782867	27642 1840960	72006 3491387	149566	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
sec-Butylbenzene	DCB	Ave	8173 385507	17639 988980	35014 2349985	90260 4345036	187816	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
p-Isopropyltoluene	DCB	Ave	7281 334210	14362 861047	29150 2081752	77001 3959267	161792	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,3-Dichlorobenzene	DCB	Ave	3908 165486	7806 421550	14626 999699	38212 1919959	79420	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,4-Dichlorobenzene	DCB	Ave	4179 164088	7977 415727	15223 1005016	39924 1928895	78686	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2,3-Trimethylbenzene	DCB	Ave	6909 304057	14843 775484	27026 1827694	71437 3462603	147785	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Benzyl chloride	CBZ	Lin1	2502 132461	5130 387621	9781 976649	27194 1927845	60845	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
n-Butylbenzene	DCB	Ave	6410 292932	12818 753369	24202 1824371	64513 3456987	137400	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39536-2 Analy Batch No.: 115521

SDG No.:

Instrument ID: HP33 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2013 20:11 Calibration End Date: 10/19/2013 00:14 Calibration ID: 19745

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,2-Dichlorobenzene	DCB	Ave	3588 149744	6797 384817	13388 918273	35680 1744748	73611	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2-Dibromo-3-Chloropropane	DCB	Lin1	+++++ 17998	689 47077	1276 118650	3839 231105	8367	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,3,5-Trichlorobenzene	DCB	Ave	1971 101765	4235 258585	8245 639007	22073 1233324	49193	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2,4-Trichlorobenzene	DCB	Ave	1701 86195	3793 222696	7411 550520	18611 1083526	41568	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Hexachlorobutadiene	DCB	Ave	1149 44072	2232 110065	4268 274806	9909 533753	20740	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Naphthalene	DCB	Ave	7051 254387	12575 657901	22360 1599302	57754 3086408	120753	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2,3-Trichlorobenzene	DCB	Ave	1752 78463	3313 199699	6476 504924	18128 983081	38185	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Dibromofluoromethane (Surr)	FB	Ave	117358 121845	120617 125360	117697 121355	116329 123823	116277	30.0 30.0	30.0 30.0	30.0 30.0	30.0 30.0	30.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	141005 146813	144061 143918	140102 142758	139806 144255	138973	30.0 30.0	30.0 30.0	30.0 30.0	30.0 30.0	30.0
Toluene-d8 (Surr)	CBZ	Ave	457520 462180	459230 468031	446811 462397	450556 485885	448544	30.0 30.0	30.0 30.0	30.0 30.0	30.0 30.0	30.0
4-Bromofluorobenzene (Surr)	DCB	Ave	160483 169399	163248 177094	157807 172565	164300 182184	160814	30.0 30.0	30.0 30.0	30.0 30.0	30.0 30.0	30.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181304.D		
Lims ID:	std0005	Client ID:	
Inject. Date:	18-Oct-2013 20:11:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	STD0005		
Misc. Info.:	490-0026993-002		
Operator:	JJR	Instrument ID:	HP33
Purge Vol:	5.000 mL	ALS Bottle#:	4
Lims Batch ID:	115521	Lims Sample ID:	2
Sublist:	chrom-8260HP33*sub13		
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\8260HP33.m		
Last Update:	19-Oct-2013 19:44:36	Calib Date:	19-Oct-2013 00:14:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK030		
First Level Reviewer: redmondj		Date:	19-Oct-2013 19:44:36

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.690	3.689	0.001	99	504983	30.0	
* 2 Chlorobenzene-d5	117	6.002	6.007	-0.005	86	334082	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.143	8.142	0.001	96	149807	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.270	3.269	0.001	80	117358	29.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.508	3.507	0.001	91	141005	29.7	
$ 6 Toluene-d8 (Surr)	98	4.803	4.802	0.001	94	457520	30.7	
$ 7 4-Bromofluorobenzene (Surr)	95	7.060	7.059	0.001	89	160483	30.6	
9 Dichlorodifluoromethane	85	1.171	1.171	0.0	45	2242	0.5007	
10 Chloromethane	50	1.299	1.298	0.001	25	2302	0.5669	M
11 Vinyl chloride	62	1.336	1.335	0.001	39	2192	0.4745	
12 Butadiene	54	1.348	1.353	-0.005	0	2045	0.4629	
13 Bromomethane	96	1.518	1.517	0.001	3	493	4.89	
14 Chloroethane	64	1.567	1.566	0.001	34	2792	0.7531	
15 Dichlorofluoromethane	67	1.683	1.675	0.007	48	3601	0.4876	
16 Trichlorofluoromethane	101	1.689	1.688	0.001	53	2502	0.4116	
18 Ethyl ether	59	1.841	1.840	0.001	69	1713	0.5076	
17 Ethanol	45	1.841	1.840	0.001	38	1483	125.3	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.944	1.943	0.001	43	1788	0.4952	
20 Acrolein	56	1.950	1.949	0.001	37	929	1.42	
21 1,1-Dichloroethene	96	1.975	1.974	0.0	74	1564	0.4760	
22 Acetone	58	2.029	2.028	0.001	96	3904	3.11	
26 Carbon disulfide	76	2.102	2.101	0.001	94	6324	0.5725	
29 Acetonitrile	41	2.175	2.174	0.001	44	1652	2.31	
27 3-Chloro-1-propene	76	2.175	2.174	0.001	35	1437	0.5565	
28 Methyl acetate	43	2.181	2.180	0.001	96	10290	2.45	
30 Methylene Chloride	84	2.254	2.253	0.001	62	2061	0.5181	
31 2-Methyl-2-propanol	59	2.303	2.302	0.001	26	1179	4.02	
32 Methyl tert-butyl ether	73	2.370	2.363	0.007	71	5731	0.4951	
33 trans-1,2-Dichloroethene	61	2.382	2.381	0.001	71	2595	0.4739	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
34 Acrylonitrile	53	2.431	2.424	0.007	94	7945	4.69	
35 Hexane	57	2.486	2.485	0.001	75	3543	0.5414	
36 Isopropyl ether	45	2.619	2.618	0.001	90	7172	0.4986	
37 1,1-Dichloroethane	63	2.644	2.637	0.007	10	2945	0.4047	
38 Vinyl acetate	43	2.644	2.643	0.001	96	11375	1.03	
39 2-Chloro-1,3-butadiene	53	2.674	2.673	0.001	56	2994	0.4661	
40 Tert-butyl ethyl ether	59	2.832	2.831	0.001	86	5860	0.4620	
41 2,2-Dichloropropane	77	2.966	2.965	0.001	68	2761	0.4795	
42 cis-1,2-Dichloroethene	61	2.984	2.983	0.001	49	3186	0.4648	
44 Ethyl acetate	43	2.997	2.996	0.001	78	7095	1.02	
43 2-Butanone (MEK)	72	2.997	2.996	0.001	91	1399	2.81	M
45 Propionitrile	54	3.082	3.081	0.001	63	3357	5.42	
46 Chlorobromomethane	130	3.136	3.135	0.001	57	872	0.4099	
47 Methacrylonitrile	41	3.149	3.142	0.007	93	14664	4.95	
48 Tetrahydrofuran	42	3.149	3.148	0.001	26	2700	1.36	
49 Chloroform	83	3.167	3.166	0.001	50	3865	0.5546	
51 1,1,1-Trichloroethane	97	3.264	3.263	0.001	38	2825	0.4935	
50 Cyclohexane	56	3.264	3.263	0.001	71	3562	0.4690	
53 Carbon tetrachloride	117	3.349	3.348	0.001	57	2270	0.4766	
54 1,1-Dichloropropene	75	3.368	3.367	0.001	53	2393	0.4571	
55 Isobutyl alcohol	43	3.465	3.458	0.007	64	3052	7.15	
56 Benzene	78	3.495	3.500	-0.005	40	7880	0.4832	
58 Tert-amyl methyl ether	73	3.544	3.543	0.001	83	5410	0.4744	
59 1,2-Dichloroethane	62	3.556	3.555	0.001	1	2242	0.4255	
60 n-Heptane	43	3.593	3.598	-0.005	81	3873	0.5624	
62 Trichloroethene	130	3.927	3.926	0.001	64	1817	0.4539	
63 Ethyl acrylate	55	4.012	4.005	0.007	0	5872	0.5010	
64 Cyclohexanone	55	4.012	4.005	0.007	61	5872	5.01	
65 Methylcyclohexane	83	4.012	4.012	0.0	76	3418	0.4647	
66 1,2-Dichloropropane	63	4.116	4.115	0.001	67	2005	0.4714	
68 Methyl methacrylate	41	4.171	4.164	0.007	73	4268	1.03	
69 Dibromomethane	93	4.201	4.206	-0.005	70	1166	0.5084	
70 1,4-Dioxane	88	4.213	4.212	0.001	61	1845	17.8	M
71 Dichlorobromomethane	83	4.304	4.304	0.0	40	2281	0.4724	
73 2-Chloroethyl vinyl ether	63	4.536	4.523	0.014	40	1086	0.4636	
72 2-Nitropropane	43	4.530	4.523	0.008	75	1284	6.37	
74 cis-1,3-Dichloropropene	75	4.639	4.638	0.001	47	2411	0.4400	
75 4-Methyl-2-pentanone (MIBK)	58	4.755	4.748	0.007	84	3816	2.62	
76 Toluene	91	4.858	4.851	0.007	75	7625	0.4862	
77 trans-1,3-Dichloropropene	75	5.089	5.088	0.001	54	1917	0.4115	
78 Ethyl methacrylate	69	5.114	5.100	0.014	33	2048	0.4252	
79 1,1,2-Trichloroethane	97	5.229	5.228	0.001	38	1197	0.3845	
80 Tetrachloroethene	166	5.272	5.271	0.001	71	1977	0.4898	
81 1,3-Dichloropropane	76	5.375	5.374	0.001	43	2727	0.4806	
82 2-Hexanone	58	5.430	5.411	0.019	82	2921	2.18	
83 n-Butyl acetate	43	5.491	5.490	0.001	33	1449	0.4871	
84 Chlorodibromomethane	127	5.533	5.532	0.001	7	1019	0.7461	
85 Ethylene Dibromide	107	5.643	5.636	0.007	37	1580	0.4809	
87 Chlorobenzene	112	6.032	6.031	0.001	61	4967	0.4794	
88 Ethylbenzene	91	6.093	6.092	0.001	82	9025	0.4964	
89 1,1,1,2-Tetrachloroethane	131	6.105	6.104	0.001	17	1531	0.4456	
90 m-Xylene & p-Xylene	91	6.209	6.202	0.007	90	7234	0.5125	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
91 o-Xylene	91	6.561	6.554	0.007	64	6639	0.5387	
92 Styrene	104	6.586	6.579	0.007	59	4845	0.4259	
93 Bromoform	173	6.768	6.767	0.001	19	830	2.61	
94 Isopropylbenzene	105	6.878	6.871	0.007	67	8415	0.4717	
95 Bromobenzene	77	7.188	7.187	0.001	66	3412	0.5182	
96 1,1,2,2-Tetrachloroethane	83	7.231	7.224	0.007	30	1818	0.4596	
97 N-Propylbenzene	91	7.255	7.254	0.001	80	10330	0.5014	
98 1,2,3-Trichloropropane	110	7.285	7.266	0.019	10	694	0.5102	M
100 2-Chlorotoluene	91	7.364	7.357	0.007	76	5699	0.4835	
101 1,3,5-Trimethylbenzene	105	7.431	7.424	0.007	66	6756	0.4816	
102 4-Chlorotoluene	91	7.474	7.467	0.007	69	6043	0.4862	
103 tert-Butylbenzene	119	7.717	7.716	0.001	63	5546	0.4552	
105 1,2,4-Trimethylbenzene	105	7.790	7.783	0.007	62	6637	0.4667	
106 sec-Butylbenzene	105	7.930	7.929	0.001	62	8173	0.4555	
108 1,3-Dichlorobenzene	146	8.076	8.069	0.007	49	3908	0.5024	
107 4-Isopropyltoluene	119	8.070	8.069	0.001	80	7281	0.4688	
109 1,4-Dichlorobenzene	146	8.167	8.160	0.007	60	4179	0.5282	
110 1,2,3-Trimethylbenzene	105	8.186	8.185	0.001	0	6909	0.4830	
111 Benzyl chloride	91	8.313	8.306	0.007	1	2502	2.60	
112 n-Butylbenzene	91	8.472	8.465	0.007	63	6410	0.4767	
113 1,2-Dichlorobenzene	146	8.526	8.519	0.007	46	3588	0.5055	
115 1,3,5-Trichlorobenzene	180	9.463	9.456	0.007	28	1971	0.4280	
116 1,2,4-Trichlorobenzene	180	10.175	10.162	0.013	17	1701	0.4227	
117 Hexachlorobutadiene	225	10.315	10.314	0.001	12	1149	0.5374	
118 Naphthalene	128	10.485	10.460	0.025	55	7051	0.5707	
119 1,2,3-Trichlorobenzene	180	10.771	10.758	0.013	34	1752	0.4775	
S 134 Xylenes, Total	1				0		1.05	
S 135 1,2-Dichloroethene, Total	1				0		0.9387	

QC Flag Legend

Review Flags
M - Manually Integrated

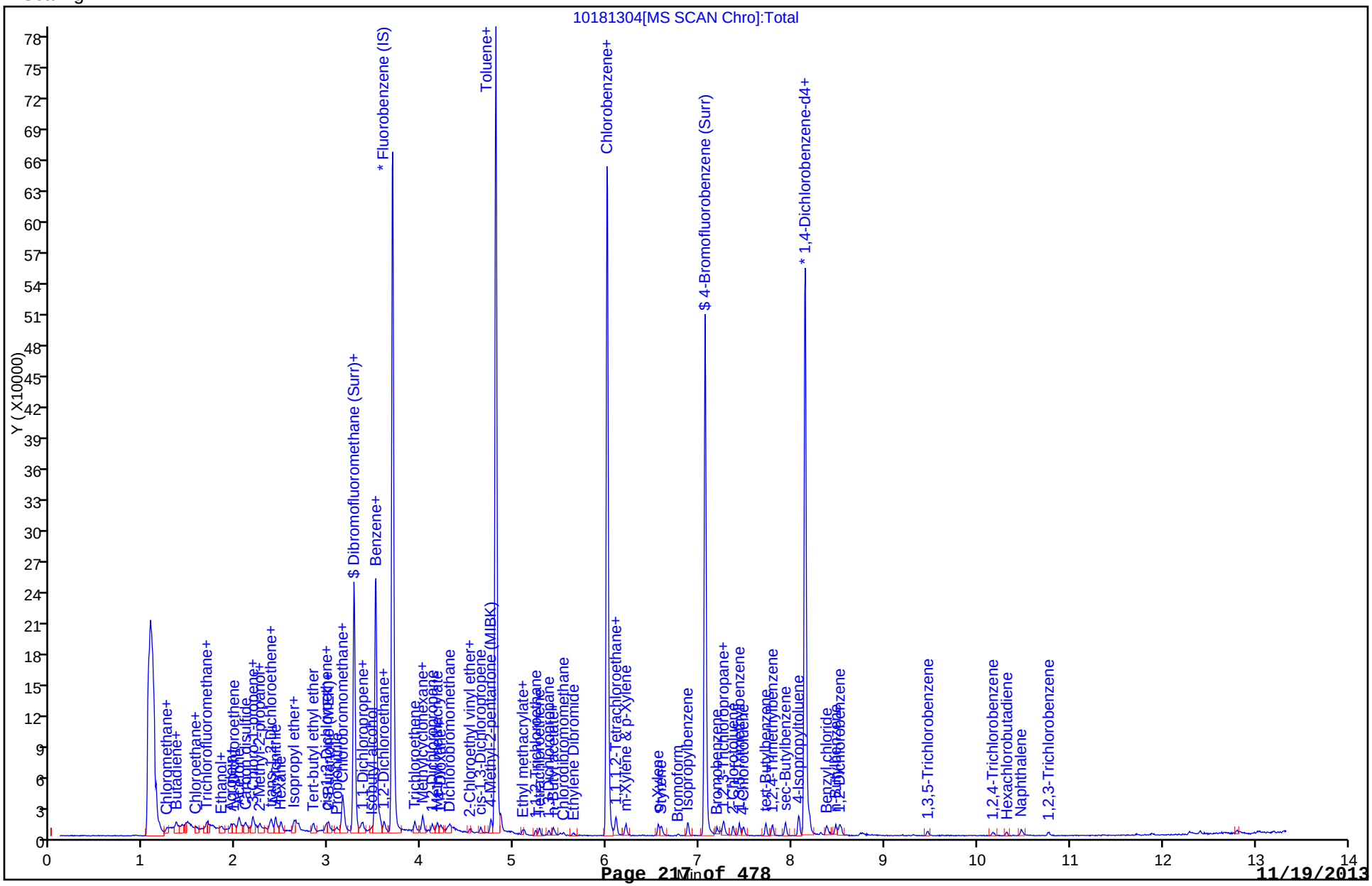
Report Date: 19-Oct-2013 19:44:36 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181304.D

Injection Date:	18-Oct-2013 20:11:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	2
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Manual Integration/User Assign Peak Report

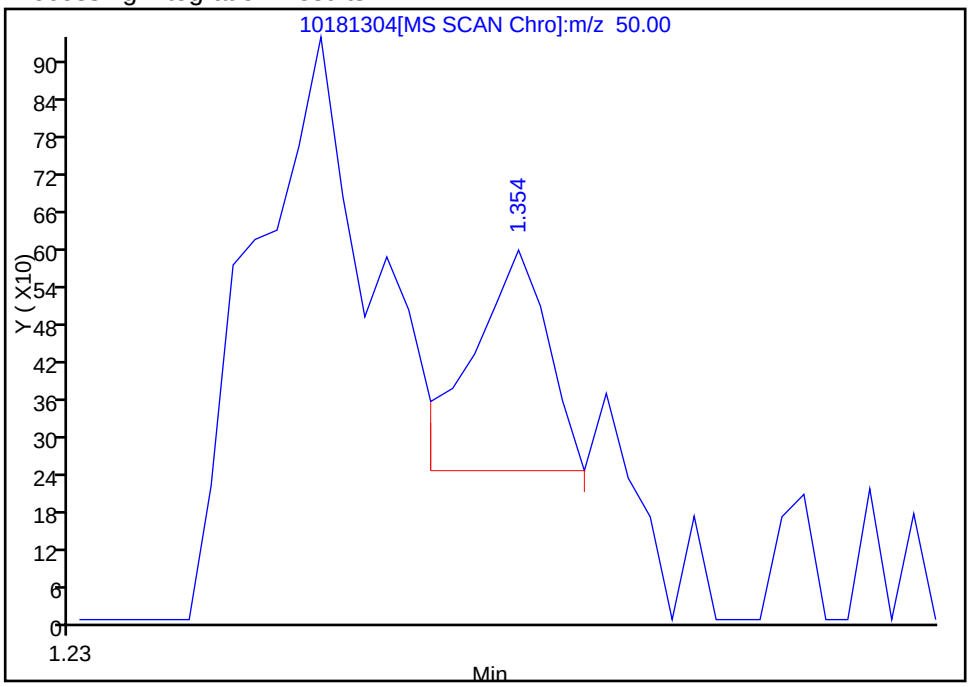
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181304.D		
Injection Date:	18-Oct-2013 20:11:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	2
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

10 Chloromethane, Signal: 1, m/z: 50.0 Type: quant, RT: 1.30

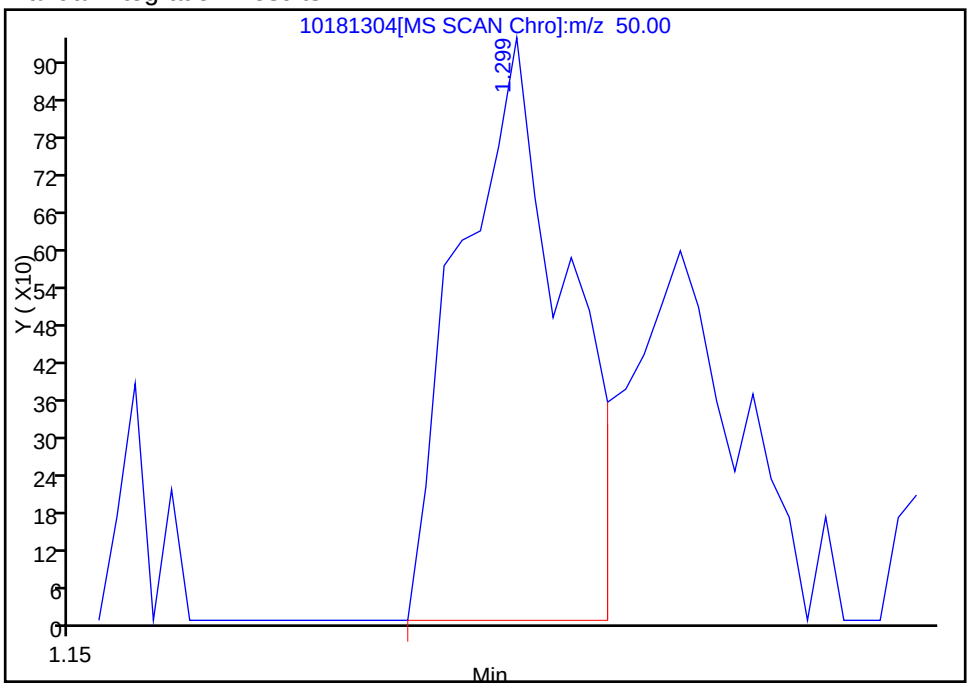
Processing Integration Results

RT: 1.35
Response: 522
Amount: 0.575261



Manual Integration Results

RT: 1.30
Response: 2302
Amount: 0.566901



Reviewer: redmondj, 19-Oct-2013 19:44:36
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

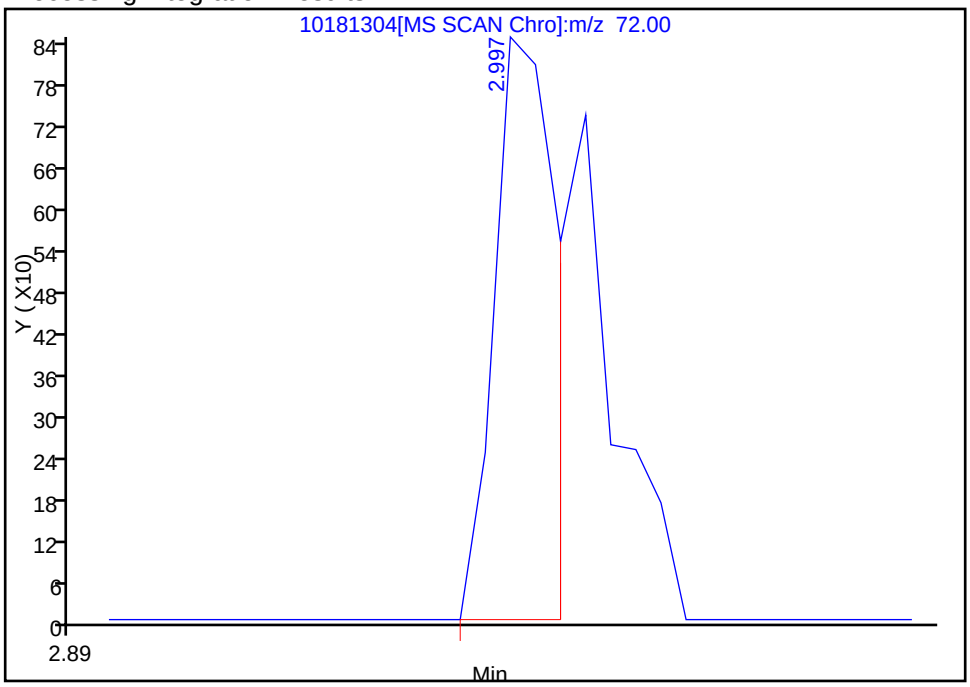
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181304.D		
Injection Date:	18-Oct-2013 20:11:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	2
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

43 2-Butanone (MEK), Signal: 1, m/z: 72.0 Type: quant, RT: 3.00

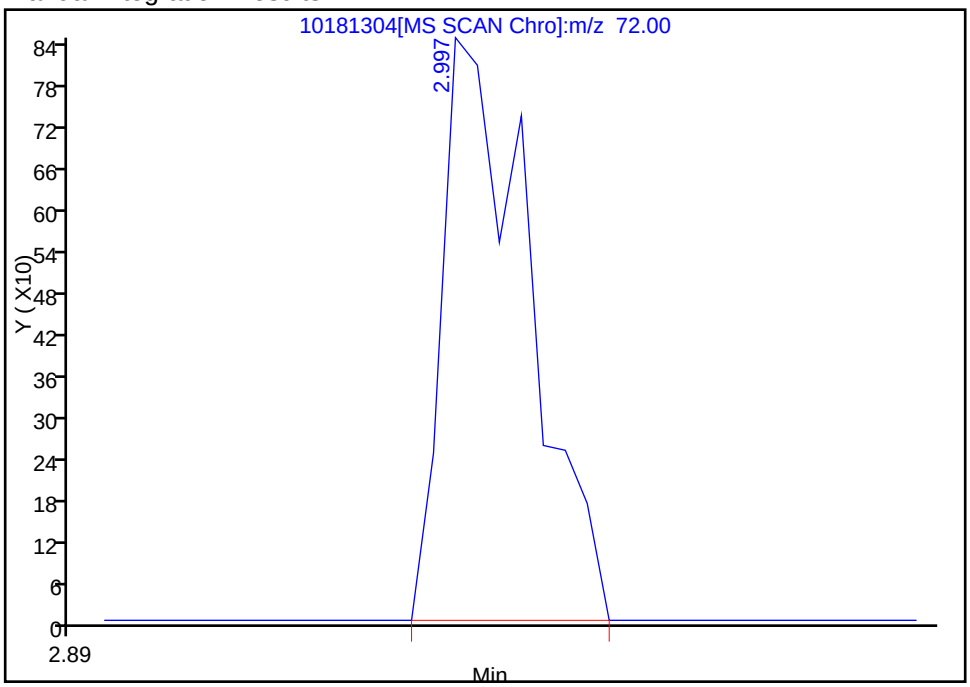
Processing Integration Results

RT: 3.00
Response: 889
Amount: 1.868810



Manual Integration Results

RT: 3.00
Response: 1399
Amount: 2.807148



Reviewer: redmondj, 19-Oct-2013 19:44:36
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

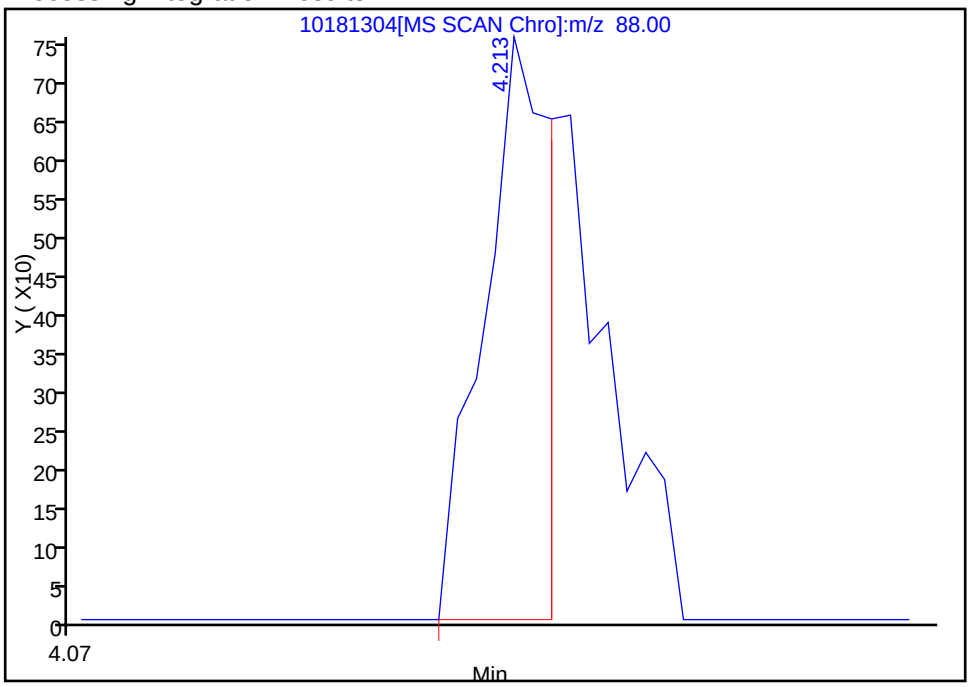
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181304.D		
Injection Date:	18-Oct-2013 20:11:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	2
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

70 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 4.21

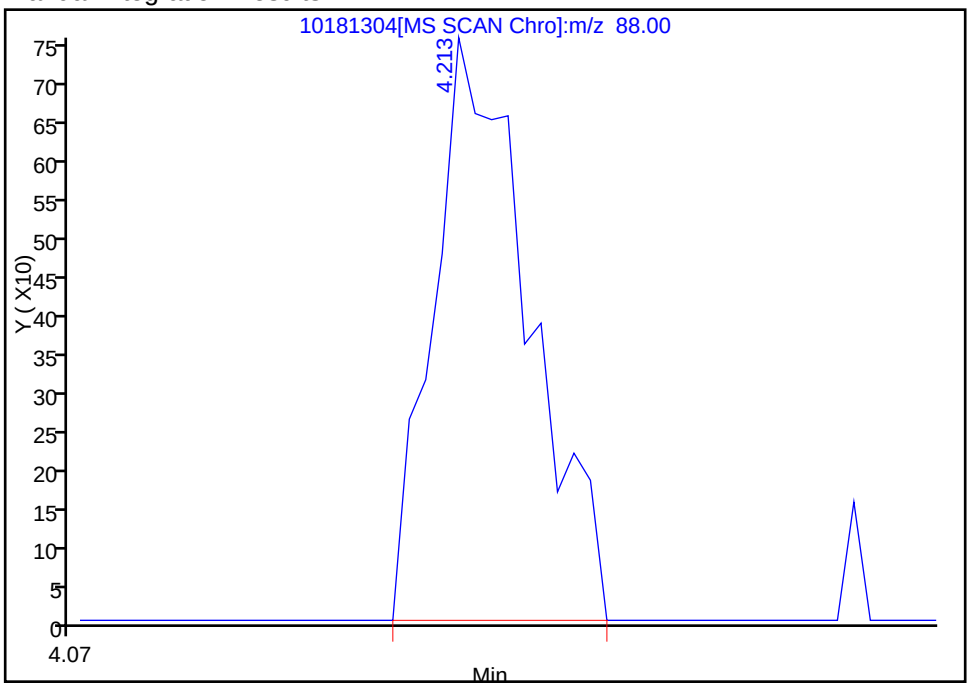
Processing Integration Results

RT: 4.21
Response: 1132
Amount: 7.950854



Manual Integration Results

RT: 4.21
Response: 1845
Amount: 17.750790



Reviewer: redmondj, 19-Oct-2013 19:44:36
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

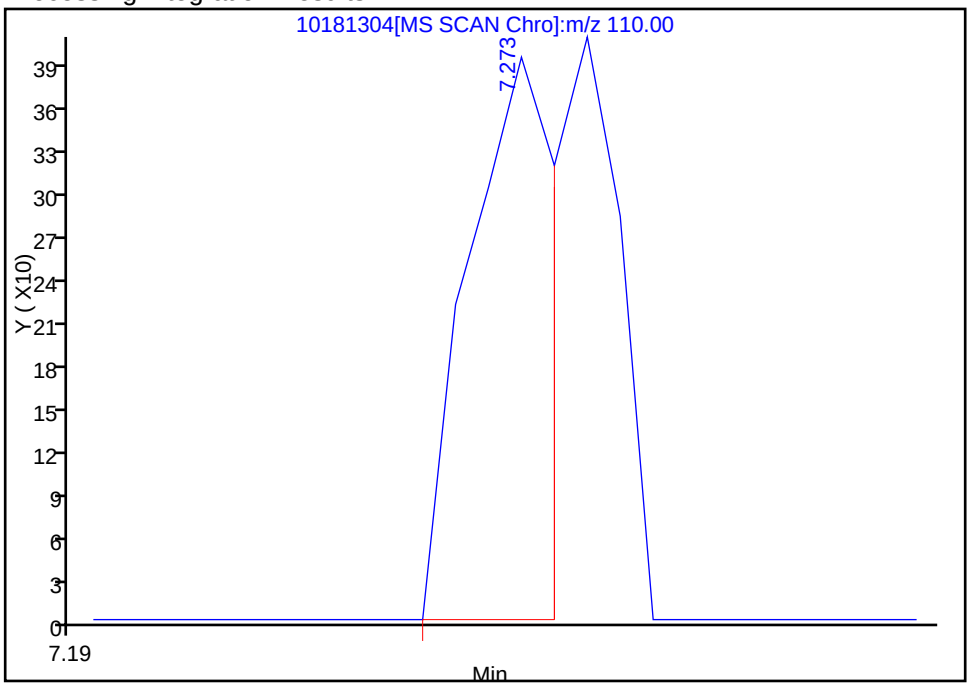
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181304.D		
Injection Date:	18-Oct-2013 20:11:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	2
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

98 1,2,3-Trichloropropane, Signal: 1, m/z: 110.0 Type: quant, RT: 7.27

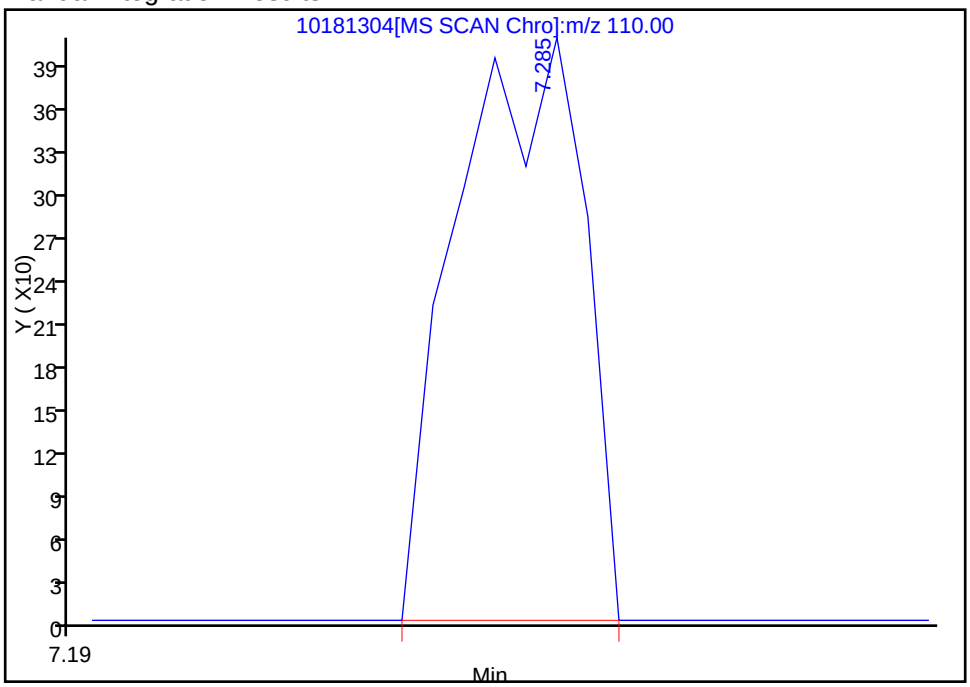
Processing Integration Results

RT: 7.27
Response: 445
Amount: 0.342862



Manual Integration Results

RT: 7.29
Response: 694
Amount: 0.510238



Reviewer: redmondj, 19-Oct-2013 19:44:36
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181305.D		
Lims ID:	std001	Client ID:	
Inject. Date:	18-Oct-2013 20:38:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	STD001		
Misc. Info.:	490-0026993-003		
Operator:	JJR	Instrument ID:	HP33
Purge Vol:	5.000 mL	ALS Bottle#:	5
Lims Batch ID:	115521	Lims Sample ID:	3
Sublist:	chrom-8260HP33*sub13		
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\8260HP33.m		
Last Update:	19-Oct-2013 19:47:07	Calib Date:	19-Oct-2013 00:14:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK030		
First Level Reviewer: redmondj		Date:	19-Oct-2013 19:47:07

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.685	3.689	-0.004	99	511012	30.0	
* 2 Chlorobenzene-d5	117	6.003	6.007	-0.004	85	344211	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.138	8.142	-0.004	95	154630	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.272	3.269	0.003	81	120617	29.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.503	3.507	-0.004	91	144061	30.0	
$ 6 Toluene-d8 (Surr)	98	4.805	4.802	0.003	93	459230	29.9	
$ 7 4-Bromofluorobenzene (Surr)	95	7.062	7.059	0.003	89	163248	30.2	
9 Dichlorodifluoromethane	85	1.167	1.171	-0.004	77	4298	0.9486	
10 Chloromethane	50	1.294	1.298	-0.004	67	5009	1.29	M
11 Vinyl chloride	62	1.337	1.335	0.002	66	4751	1.02	
12 Butadiene	54	1.355	1.353	0.002	0	4638	1.04	
13 Bromomethane	96	1.513	1.517	-0.004	34	1121	5.17	M
14 Chloroethane	64	1.568	1.566	0.002	72	2805	0.7469	
15 Dichlorofluoromethane	67	1.684	1.675	0.009	68	7585	1.01	
16 Trichlorofluoromethane	101	1.696	1.688	0.008	69	6228	1.01	
18 Ethyl ether	59	1.836	1.840	-0.004	75	3254	0.9529	
17 Ethanol	45	1.842	1.840	0.002	43	2691	133.0	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.945	1.943	0.002	66	3440	0.9415	
20 Acrolein	56	1.945	1.949	-0.004	27	1834	2.76	
21 1,1-Dichloroethene	96	1.982	1.974	0.008	79	3180	0.9565	
22 Acetone	58	2.031	2.028	0.003	99	5065	5.87	
25 Isopropyl alcohol	45	2.091	2.095	-0.004	1	1963	34.4	
26 Carbon disulfide	76	2.098	2.101	-0.003	95	11974	1.07	
29 Acetonitrile	41	2.171	2.174	-0.004	55	6157	12.1	
27 3-Chloro-1-propene	76	2.177	2.174	0.003	47	2778	1.06	
28 Methyl acetate	43	2.183	2.180	0.003	94	22178	5.21	
30 Methylene Chloride	84	2.256	2.253	0.003	82	4240	1.05	
31 2-Methyl-2-propanol	59	2.298	2.302	-0.004	75	2864	9.65	
32 Methyl tert-butyl ether	73	2.365	2.363	0.002	86	11485	0.9806	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
33 trans-1,2-Dichloroethene	61	2.377	2.381	-0.004	82	5561	1.00	
34 Acrylonitrile	53	2.426	2.424	0.002	97	17051	9.94	
35 Hexane	57	2.487	2.485	0.002	86	7031	1.06	
36 Isopropyl ether	45	2.621	2.618	0.003	94	15530	1.07	
37 1,1-Dichloroethane	63	2.639	2.637	0.002	64	7291	0.99	
38 Vinyl acetate	43	2.645	2.643	0.002	96	21934	1.97	
39 2-Chloro-1,3-butadiene	53	2.669	2.673	-0.004	85	6625	1.02	
40 Tert-butyl ethyl ether	59	2.828	2.831	-0.003	95	12598	0.9814	
41 2,2-Dichloropropane	77	2.967	2.965	0.002	75	5877	1.01	
42 cis-1,2-Dichloroethene	61	2.986	2.983	0.003	64	6653	0.9591	
44 Ethyl acetate	43	2.998	2.996	0.002	77	14211	2.03	
43 2-Butanone (MEK)	72	3.004	2.996	0.008	88	2328	4.62	
45 Propionitrile	54	3.083	3.081	0.002	88	6050	9.65	
46 Chlorobromomethane	130	3.138	3.135	0.003	32	2062	0.9579	
47 Methacrylonitrile	41	3.150	3.142	0.008	94	30273	10.1	
48 Tetrahydrofuran	42	3.150	3.148	0.002	26	4188	2.09	
49 Chloroform	83	3.162	3.166	-0.004	63	6889	0.9768	
51 1,1,1-Trichloroethane	97	3.266	3.263	0.003	59	5775	1.00	
50 Cyclohexane	56	3.259	3.263	-0.004	81	7685	1.00	
53 Carbon tetrachloride	117	3.351	3.348	0.003	75	4752	0.9860	
54 1,1-Dichloropropene	75	3.369	3.367	0.002	73	5482	1.03	
55 Isobutyl alcohol	43	3.460	3.458	0.002	73	3742	8.71	
56 Benzene	78	3.497	3.500	-0.003	47	16558	1.00	
58 Tert-amyl methyl ether	73	3.545	3.543	0.002	78	10961	0.9497	
59 1,2-Dichloroethane	62	3.551	3.555	-0.004	1	5229	0.9807	
60 n-Heptane	43	3.594	3.598	-0.004	82	6711	0.9630	
61 n-Butanol	56	3.916	3.914	0.002	66	2381	26.6	
62 Trichloroethene	130	3.929	3.926	0.003	78	3872	0.9559	
63 Ethyl acrylate	55	4.008	4.005	0.003	0	12033	1.01	
64 Cyclohexanone	55	4.008	4.005	0.003	62	12033	10.1	
65 Methylcyclohexane	83	4.014	4.012	0.002	77	7120	0.9565	
66 1,2-Dichloropropane	63	4.117	4.115	0.002	71	4199	0.9756	
68 Methyl methacrylate	41	4.166	4.164	0.002	86	8845	2.10	
69 Dibromomethane	93	4.202	4.206	-0.004	76	2195	0.9459	
70 1,4-Dioxane	88	4.221	4.212	0.009	33	1995	21.5	
71 Dichlorobromomethane	83	4.306	4.304	0.002	76	4368	0.8940	
72 2-Nitropropane	43	4.525	4.523	0.003	55	2905	7.11	
73 2-Chloroethyl vinyl ether	63	4.525	4.523	0.003	52	2167	0.8784	M
74 cis-1,3-Dichloropropene	75	4.640	4.638	0.002	63	4836	0.8565	
75 4-Methyl-2-pentanone (MIBK)	58	4.750	4.748	0.002	92	7024	4.67	
76 Toluene	91	4.853	4.851	0.002	88	15770	0.9759	
77 trans-1,3-Dichloropropene	75	5.091	5.088	0.003	75	4421	0.9212	
78 Ethyl methacrylate	69	5.109	5.100	0.009	73	4256	0.8576	
79 1,1,2-Trichloroethane	97	5.230	5.228	0.002	62	3333	1.04	
80 Tetrachloroethene	166	5.273	5.271	0.002	88	4226	1.02	
81 1,3-Dichloropropane	76	5.376	5.374	0.002	66	5682	0.9720	
82 2-Hexanone	58	5.425	5.411	0.014	85	6476	4.68	
83 n-Butyl acetate	43	5.498	5.490	0.008	69	2588	0.8598	
84 Chlorodibromomethane	127	5.529	5.532	-0.003	48	2213	1.12	
85 Ethylene Dibromide	107	5.644	5.636	0.008	52	3314	0.9789	
87 Chlorobenzene	112	6.027	6.031	-0.004	75	10734	1.01	
88 Ethylbenzene	91	6.094	6.092	0.002	92	18381	0.9812	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
89 1,1,1,2-Tetrachloroethane	131	6.113	6.104	0.009	64	3109	0.8782	
90 m-Xylene & p-Xylene	91	6.204	6.202	0.002	95	14042	0.9656	
91 o-Xylene	91	6.557	6.554	0.003	88	14115	1.11	
92 Styrene	104	6.587	6.579	0.008	81	10584	0.9031	
93 Bromoform	173	6.770	6.767	0.003	74	1605	2.87	
94 Isopropylbenzene	105	6.879	6.871	0.008	84	17789	0.9678	
95 Bromobenzene	77	7.189	7.187	0.002	78	6475	0.9526	
96 1,1,2,2-Tetrachloroethane	83	7.232	7.224	0.008	52	3935	0.9638	
97 N-Propylbenzene	91	7.256	7.254	0.002	94	20372	0.9579	
98 1,2,3-Trichloropropane	110	7.281	7.266	0.015	33	1251	0.8911	
99 trans-1,4-Dichloro-2-butene	53	7.299	7.284	0.015	1	648	1.33	
100 2-Chlorotoluene	91	7.366	7.357	0.009	87	12547	1.03	
101 1,3,5-Trimethylbenzene	105	7.433	7.424	0.009	80	13972	0.9650	
102 4-Chlorotoluene	91	7.475	7.467	0.008	85	11927	0.9297	
103 tert-Butylbenzene	119	7.719	7.716	0.003	78	12463	0.99	
105 1,2,4-Trimethylbenzene	105	7.786	7.783	0.003	81	13571	0.9246	
106 sec-Butylbenzene	105	7.932	7.929	0.003	82	17639	0.9525	
108 1,3-Dichlorobenzene	146	8.078	8.069	0.009	67	7806	0.9721	
107 4-Isopropyltoluene	119	8.071	8.069	0.002	89	14362	0.8958	
109 1,4-Dichlorobenzene	146	8.163	8.160	0.003	73	7977	0.9767	
110 1,2,3-Trimethylbenzene	105	8.187	8.185	0.002	0	14843	1.01	
111 Benzyl chloride	91	8.309	8.306	0.003	57	5130	2.88	
112 n-Butylbenzene	91	8.473	8.465	0.008	78	12818	0.9234	
113 1,2-Dichlorobenzene	146	8.528	8.519	0.009	86	6797	0.9278	
114 1,2-Dibromo-3-Chloropropane	157	9.313	9.298	0.014	4	689	1.36	
115 1,3,5-Trichlorobenzene	180	9.459	9.456	0.002	56	4235	0.8910	
116 1,2,4-Trichlorobenzene	180	10.182	10.162	0.020	5	3793	0.9221	
117 Hexachlorobutadiene	225	10.316	10.314	0.002	41	2232	1.01	
118 Naphthalene	128	10.468	10.460	0.008	74	12575	0.9861	
119 1,2,3-Trichlorobenzene	180	10.766	10.758	0.008	36	3313	0.8748	
S 134 Xylenes, Total	1				0		2.08	
S 135 1,2-Dichloroethene, Total	1				0		1.96	

QC Flag Legend

Review Flags
M - Manually Integrated

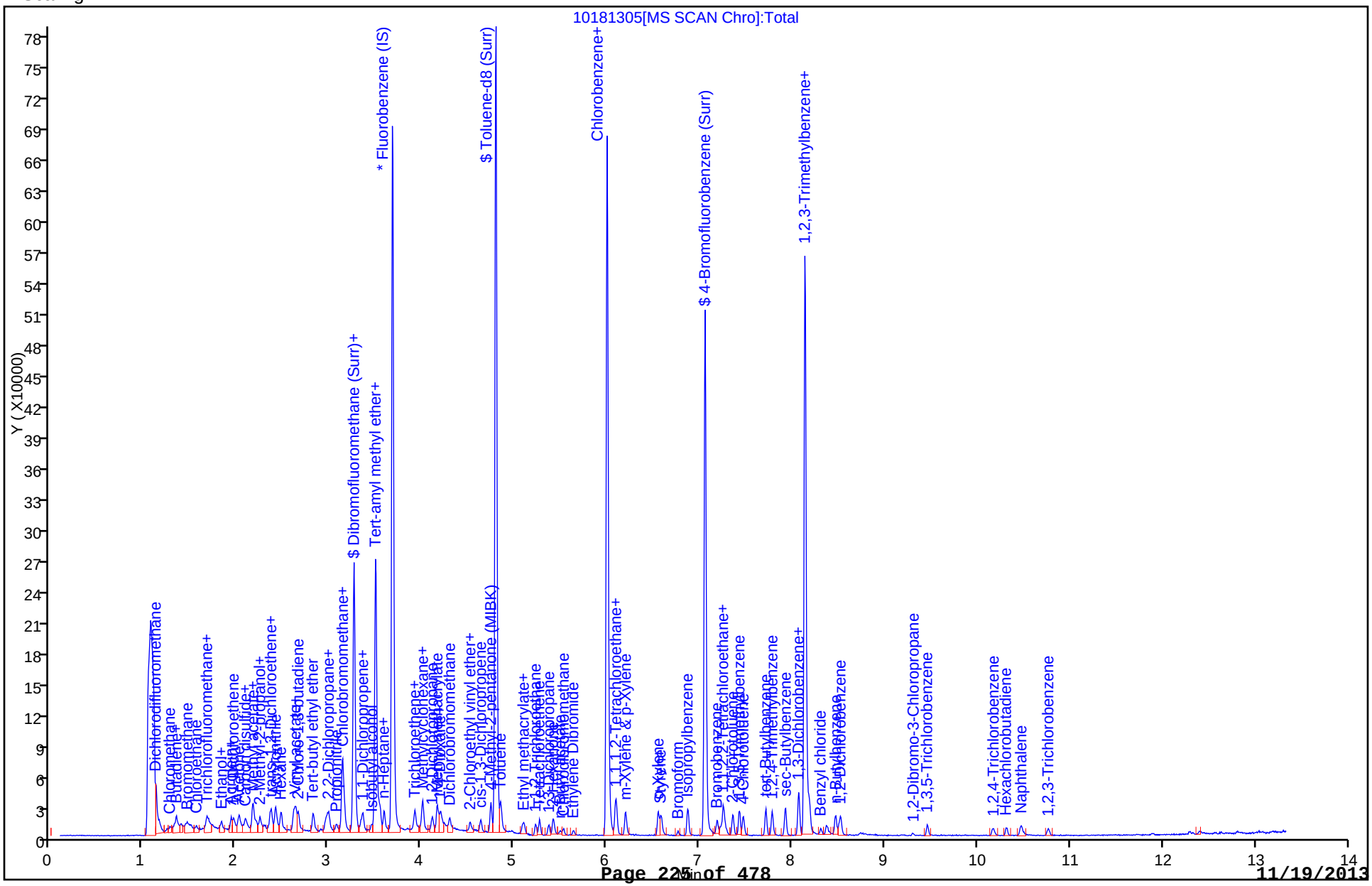
Report Date: 19-Oct-2013 19:47:07 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181305.D

Injection Date:	18-Oct-2013 20:38:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	3
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Manual Integration/User Assign Peak Report

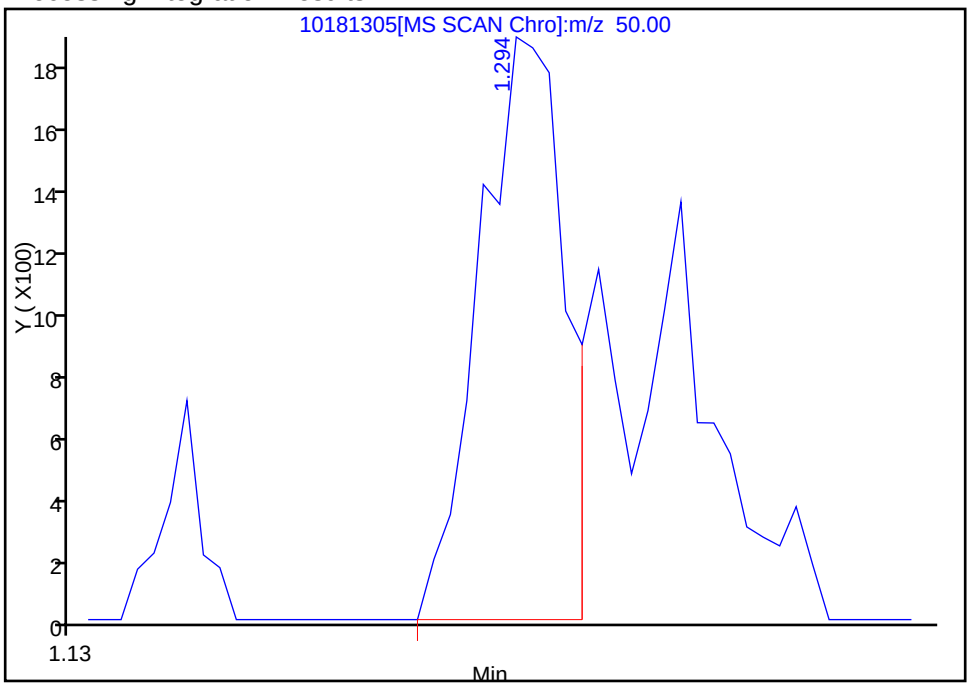
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181305.D		
Injection Date:	18-Oct-2013 20:38:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	3
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

10 Chloromethane, Signal: 1, m/z: 50.0 Type: quant, RT: 1.30

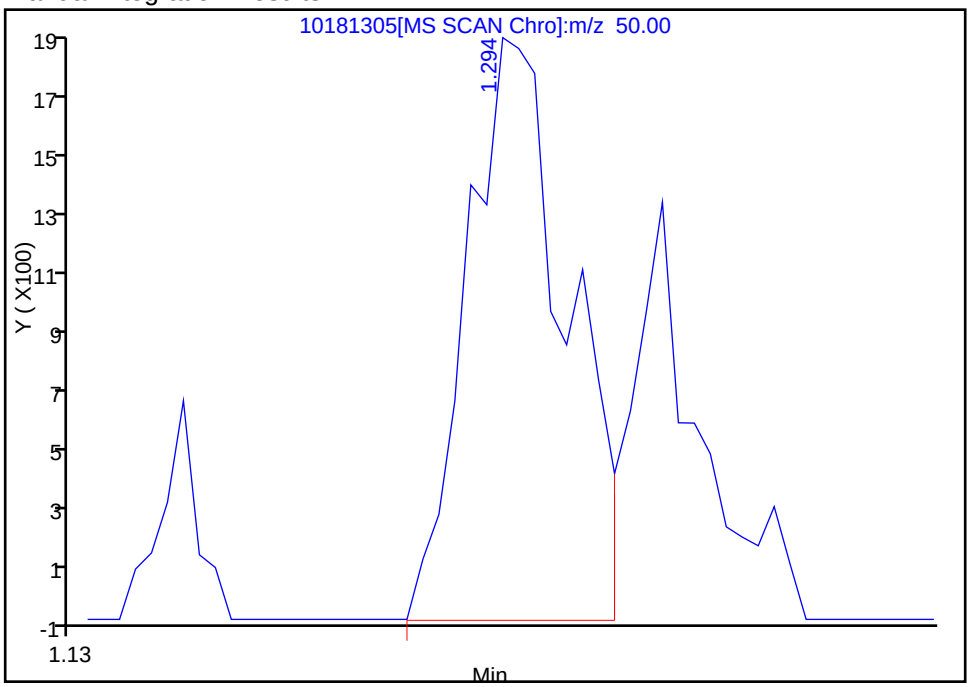
Processing Integration Results

RT: 1.29
Response: 4130
Amount: 1.005073



Manual Integration Results

RT: 1.29
Response: 5009
Amount: 1.289117



Reviewer: redmondj, 19-Oct-2013 19:47:07
Audit Action: Manually Integrated
Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

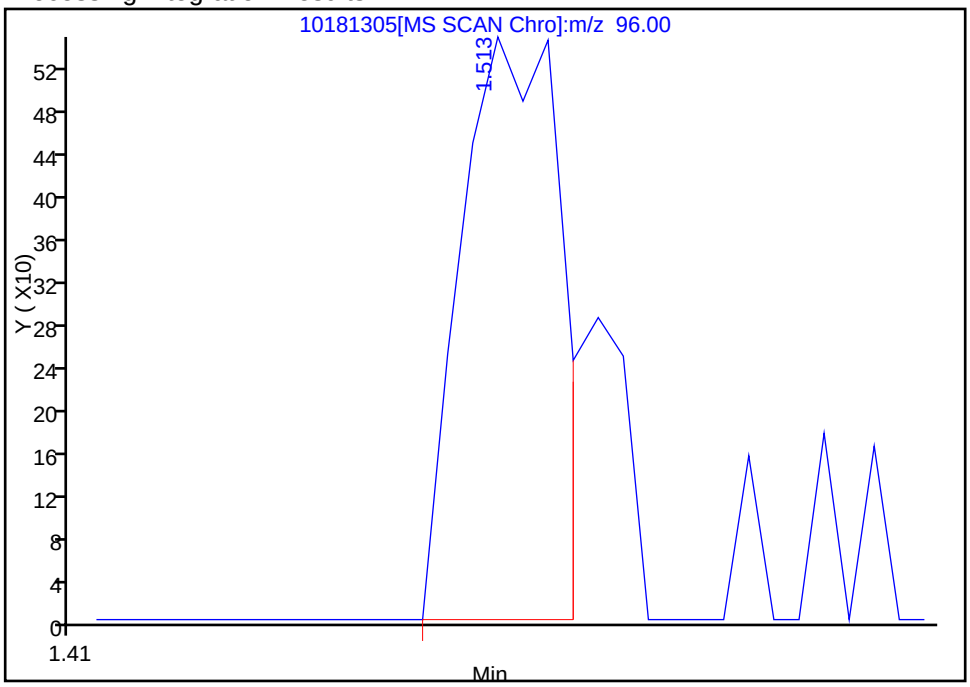
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181305.D		
Injection Date:	18-Oct-2013 20:38:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	3
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

13 Bromomethane, Signal: 1, m/z: 96.0 Type: quant, RT: 1.52

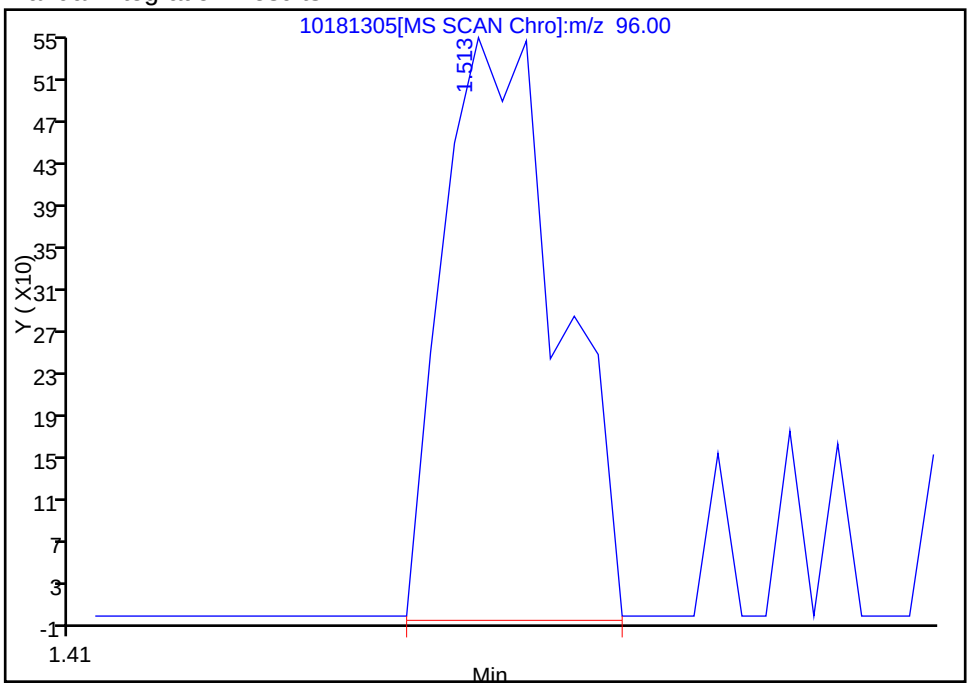
Processing Integration Results

RT: 1.51
Response: 914
Amount: 5.087295



Manual Integration Results

RT: 1.51
Response: 1121
Amount: 5.169720



Reviewer: redmondj, 19-Oct-2013 19:47:07
Audit Action: Manually Integrated
Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

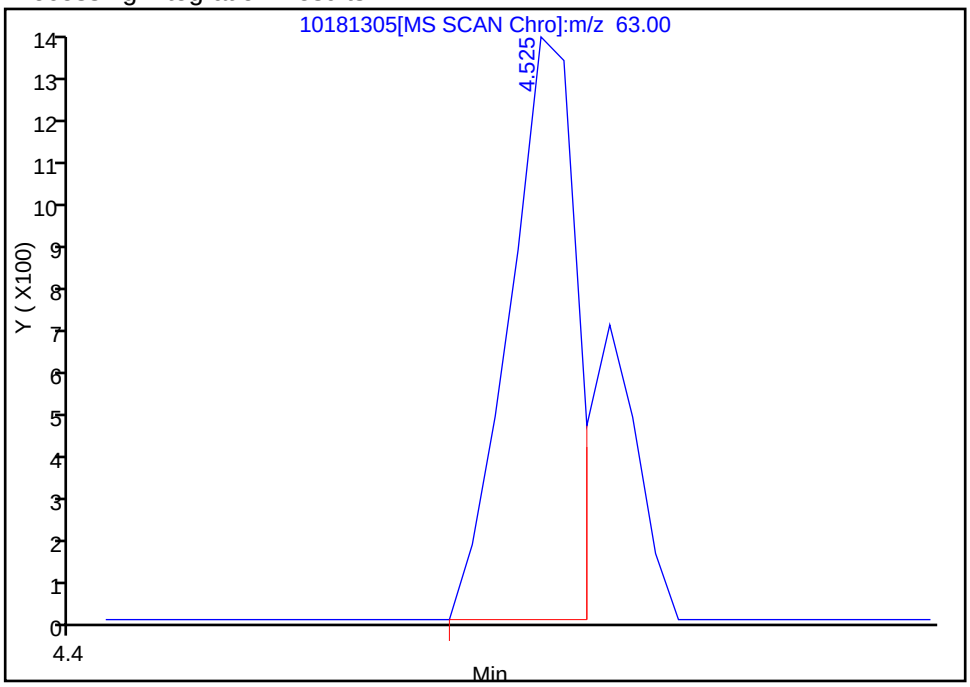
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181305.D		
Injection Date:	18-Oct-2013 20:38:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	3
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

73 2-Chloroethyl vinyl ether, Signal: 1, m/z: 63.0 Type: quant, RT: 4.52

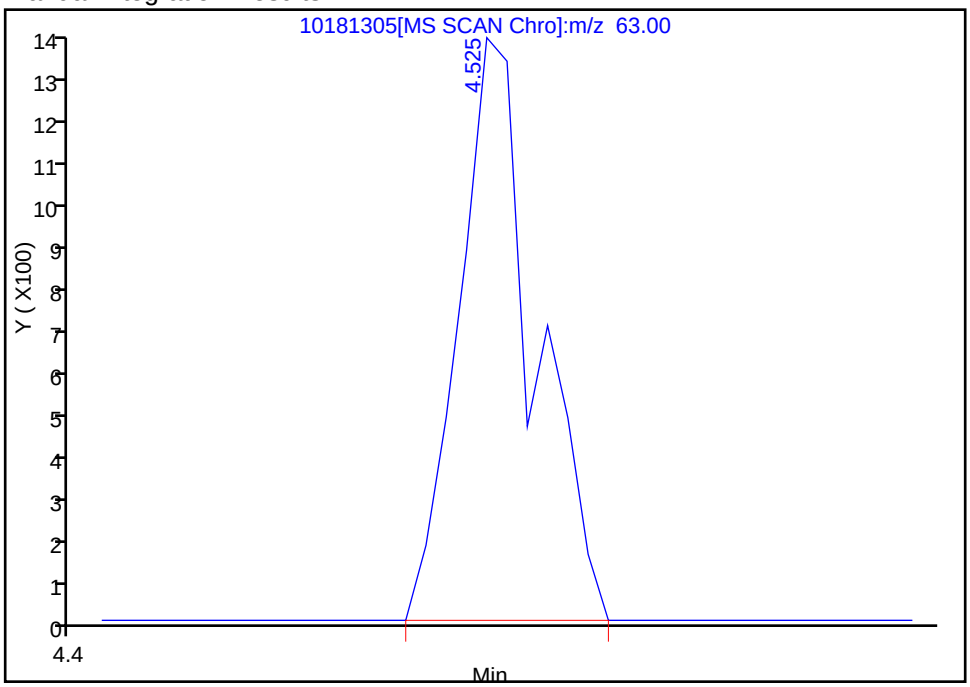
Processing Integration Results

RT: 4.52
Response: 1688
Amount: 0.699323



Manual Integration Results

RT: 4.52
Response: 2167
Amount: 0.878400



Reviewer: redmondj, 19-Oct-2013 19:47:07
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181306.D		
Lims ID:	std002	Client ID:	
Inject. Date:	18-Oct-2013 21:05:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	STD002		
Misc. Info.:	490-0026993-004		
Operator:	JJR	Instrument ID:	HP33
Purge Vol:	5.000 mL	ALS Bottle#:	6
Lims Batch ID:	115521	Lims Sample ID:	4
Sublist:	chrom-8260HP33*sub13		
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\8260HP33.m		
Last Update:	19-Oct-2013 19:48:38	Calib Date:	19-Oct-2013 00:14:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK030		
First Level Reviewer: redmondj		Date:	19-Oct-2013 19:48:38

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.690	3.689	0.001	98	499859	30.0	
* 2 Chlorobenzene-d5	117	6.007	6.007	0.0	84	330634	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.143	8.142	0.001	94	147886	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.270	3.269	0.001	85	117697	29.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.507	3.507	0.0	92	140102	29.8	
$ 6 Toluene-d8 (Surr)	98	4.803	4.802	0.001	93	446811	30.3	
$ 7 4-Bromofluorobenzene (Surr)	95	7.060	7.059	0.001	89	157807	30.5	
9 Dichlorodifluoromethane	85	1.171	1.171	0.0	86	8944	2.02	
10 Chloromethane	50	1.299	1.298	0.001	64	7902	1.87	M
11 Vinyl chloride	62	1.341	1.335	0.006	88	8673	1.90	
12 Butadiene	54	1.354	1.353	0.001	0	8015	1.83	
13 Bromomethane	96	1.518	1.517	0.001	67	1753	5.49	
14 Chloroethane	64	1.573	1.566	0.007	81	6520	1.93	
15 Dichlorofluoromethane	67	1.676	1.675	0.001	92	14187	1.94	
16 Trichlorofluoromethane	101	1.694	1.688	0.006	81	10884	1.81	
18 Ethyl ether	59	1.840	1.840	0.0	83	5768	1.73	
17 Ethanol	45	1.840	1.840	0.0	77	9401	207.2	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.944	1.943	0.001	69	6966	1.95	
20 Acrolein	56	1.956	1.949	0.007	35	3131	4.82	
21 1,1-Dichloroethene	96	1.974	1.974	0.0	83	6121	1.88	
22 Acetone	58	2.035	2.028	0.007	98	6242	9.13	
23 Iodomethane	142	2.065	2.071	-0.006	52	1180	2.92	
25 Isopropyl alcohol	45	2.096	2.095	0.001	1	3187	38.7	
26 Carbon disulfide	76	2.102	2.101	0.001	99	21079	1.93	
29 Acetonitrile	41	2.181	2.174	0.007	38	12186	25.3	
27 3-Chloro-1-propene	76	2.175	2.174	0.001	52	4852	1.90	
28 Methyl acetate	43	2.181	2.180	0.001	97	39420	9.47	
30 Methylene Chloride	84	2.254	2.253	0.001	86	7631	1.94	
31 2-Methyl-2-propanol	59	2.303	2.302	0.001	89	5868	20.2	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
32 Methyl tert-butyl ether	73	2.363	2.363	0.0	86	21963	1.92	
33 trans-1,2-Dichloroethene	61	2.382	2.381	0.001	94	10649	1.96	
34 Acrylonitrile	53	2.424	2.424	0.0	99	33251	19.8	
35 Hexane	57	2.485	2.485	0.0	86	12983	2.00	
36 Isopropyl ether	45	2.619	2.618	0.001	94	27785	1.95	
37 1,1-Dichloroethane	63	2.643	2.637	0.006	92	13747	1.91	
38 Vinyl acetate	43	2.643	2.643	0.0	97	43025	3.95	
39 2-Chloro-1,3-butadiene	53	2.668	2.673	-0.005	83	12263	1.93	
40 Tert-butyl ethyl ether	59	2.826	2.831	-0.005	98	24091	1.92	
41 2,2-Dichloropropane	77	2.966	2.965	0.001	89	11366	1.99	
42 cis-1,2-Dichloroethene	61	2.990	2.983	0.007	82	13609	2.01	
44 Ethyl acetate	43	3.002	2.996	0.006	92	24799	3.62	
43 2-Butanone (MEK)	72	3.002	2.996	0.006	90	4624	9.37	
45 Propionitrile	54	3.081	3.081	0.0	95	11444	18.7	
46 Chlorobromomethane	130	3.136	3.135	0.001	70	4486	2.13	
47 Methacrylonitrile	41	3.148	3.142	0.006	95	57211	19.5	
48 Tetrahydrofuran	42	3.148	3.148	0.0	21	7833	3.99	
49 Chloroform	83	3.166	3.166	0.0	65	13510	1.96	
51 1,1,1-Trichloroethane	97	3.264	3.263	0.001	78	10736	1.89	
50 Cyclohexane	56	3.264	3.263	0.001	88	14772	1.97	
53 Carbon tetrachloride	117	3.349	3.348	0.001	77	8739	1.85	
54 1,1-Dichloropropene	75	3.367	3.367	0.0	82	10173	1.96	
55 Isobutyl alcohol	43	3.465	3.458	0.007	82	8174	19.7	
56 Benzene	78	3.501	3.500	0.001	83	32412	2.01	
58 Tert-amyl methyl ether	73	3.544	3.543	0.001	94	20887	1.85	
59 1,2-Dichloroethane	62	3.556	3.555	0.001	60	9839	1.89	
60 n-Heptane	43	3.598	3.598	0.0	88	13131	1.93	
61 n-Butanol	56	3.915	3.914	0.001	78	3987	45.6	
62 Trichloroethene	130	3.927	3.926	0.001	91	7450	1.88	
63 Ethyl acrylate	55	4.006	4.005	0.001	0	22961	1.98	
64 Cyclohexanone	55	4.006	4.005	0.001	71	22961	19.8	
65 Methylcyclohexane	83	4.012	4.012	0.0	87	14460	1.99	
66 1,2-Dichloropropane	63	4.116	4.115	0.001	87	7996	1.90	
68 Methyl methacrylate	41	4.164	4.164	0.0	88	15311	3.72	
69 Dibromomethane	93	4.207	4.206	0.001	81	4137	1.82	
70 1,4-Dioxane	88	4.213	4.212	0.001	3	2395	34.7	
71 Dichlorobromomethane	83	4.304	4.304	0.0	85	8165	1.71	
72 2-Nitropropane	43	4.523	4.523	0.001	58	6593	8.88	
73 2-Chloroethyl vinyl ether	63	4.529	4.523	0.007	63	4619	1.95	
74 cis-1,3-Dichloropropene	75	4.639	4.638	0.001	68	9466	1.75	
75 4-Methyl-2-pentanone (MIBK)	58	4.748	4.748	0.0	96	12720	8.81	
76 Toluene	91	4.858	4.851	0.007	90	30197	1.95	
77 trans-1,3-Dichloropropene	75	5.089	5.088	0.001	81	8243	1.79	
78 Ethyl methacrylate	69	5.107	5.100	0.007	80	9159	1.92	
79 1,1,2-Trichloroethane	97	5.235	5.228	0.007	83	6025	1.96	
80 Tetrachloroethene	166	5.271	5.271	0.0	89	7997	2.00	
81 1,3-Dichloropropane	76	5.375	5.374	0.001	83	11034	1.97	
82 2-Hexanone	58	5.423	5.411	0.012	94	11875	8.94	
83 n-Butyl acetate	43	5.496	5.490	0.006	81	4416	1.50	
84 Chlorodibromomethane	127	5.533	5.532	0.001	68	4390	1.86	
85 Ethylene Dibromide	107	5.642	5.636	0.006	71	6184	1.90	
87 Chlorobenzene	112	6.032	6.031	0.001	90	19864	1.94	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
88 Ethylbenzene	91	6.093	6.092	0.001	95	35645	1.98	
89 1,1,1,2-Tetrachloroethane	131	6.105	6.104	0.001	82	6309	1.86	
90 m-Xylene & p-Xylene	91	6.202	6.202	0.0	97	27901	2.00	
91 o-Xylene	91	6.555	6.554	0.001	97	26494	2.17	
92 Styrene	104	6.585	6.579	0.006	88	21232	1.89	
93 Bromoform	173	6.774	6.767	0.007	76	3478	3.57	
94 Isopropylbenzene	105	6.877	6.871	0.006	91	34089	1.93	
95 Bromobenzene	77	7.188	7.187	0.001	91	13129	2.02	
96 1,1,2,2-Tetrachloroethane	83	7.230	7.224	0.006	77	8158	2.09	
97 N-Propylbenzene	91	7.255	7.254	0.001	96	39775	1.96	
98 1,2,3-Trichloropropane	110	7.273	7.266	0.007	63	2576	1.93	
99 trans-1,4-Dichloro-2-butene	53	7.291	7.284	0.007	1	1924	2.29	
100 2-Chlorotoluene	91	7.358	7.357	0.001	93	23150	1.98	
101 1,3,5-Trimethylbenzene	105	7.431	7.424	0.007	91	26506	1.91	
102 4-Chlorotoluene	91	7.474	7.467	0.007	93	24562	2.00	
103 tert-Butylbenzene	119	7.717	7.716	0.001	87	22683	1.89	
105 1,2,4-Trimethylbenzene	105	7.784	7.783	0.001	94	27642	1.97	
106 sec-Butylbenzene	105	7.930	7.929	0.001	87	35014	1.98	
108 1,3-Dichlorobenzene	146	8.076	8.069	0.007	68	14626	1.90	
107 4-Isopropyltoluene	119	8.070	8.069	0.001	93	29150	1.90	
109 1,4-Dichlorobenzene	146	8.167	8.160	0.007	84	15223	1.95	
110 1,2,3-Trimethylbenzene	105	8.185	8.185	0.0	0	27026	1.91	
111 Benzyl chloride	91	8.307	8.306	0.001	73	9781	3.43	
112 n-Butylbenzene	91	8.471	8.465	0.006	90	24202	1.82	
113 1,2-Dichlorobenzene	146	8.526	8.519	0.007	89	13388	1.91	
114 1,2-Dibromo-3-Chloropropane	157	9.311	9.298	0.013	28	1276	2.00	
115 1,3,5-Trichlorobenzene	180	9.463	9.456	0.007	79	8245	1.81	
116 1,2,4-Trichlorobenzene	180	10.169	10.162	0.007	60	7411	1.88	
117 Hexachlorobutadiene	225	10.315	10.314	0.001	59	4268	2.02	
118 Naphthalene	128	10.473	10.460	0.013	85	22360	1.83	
119 1,2,3-Trichlorobenzene	180	10.765	10.758	0.007	70	6476	1.79	
S 134 Xylenes, Total	1				0		4.17	
S 135 1,2-Dichloroethene, Total	1				0		3.97	

QC Flag Legend

Review Flags
M - Manually Integrated

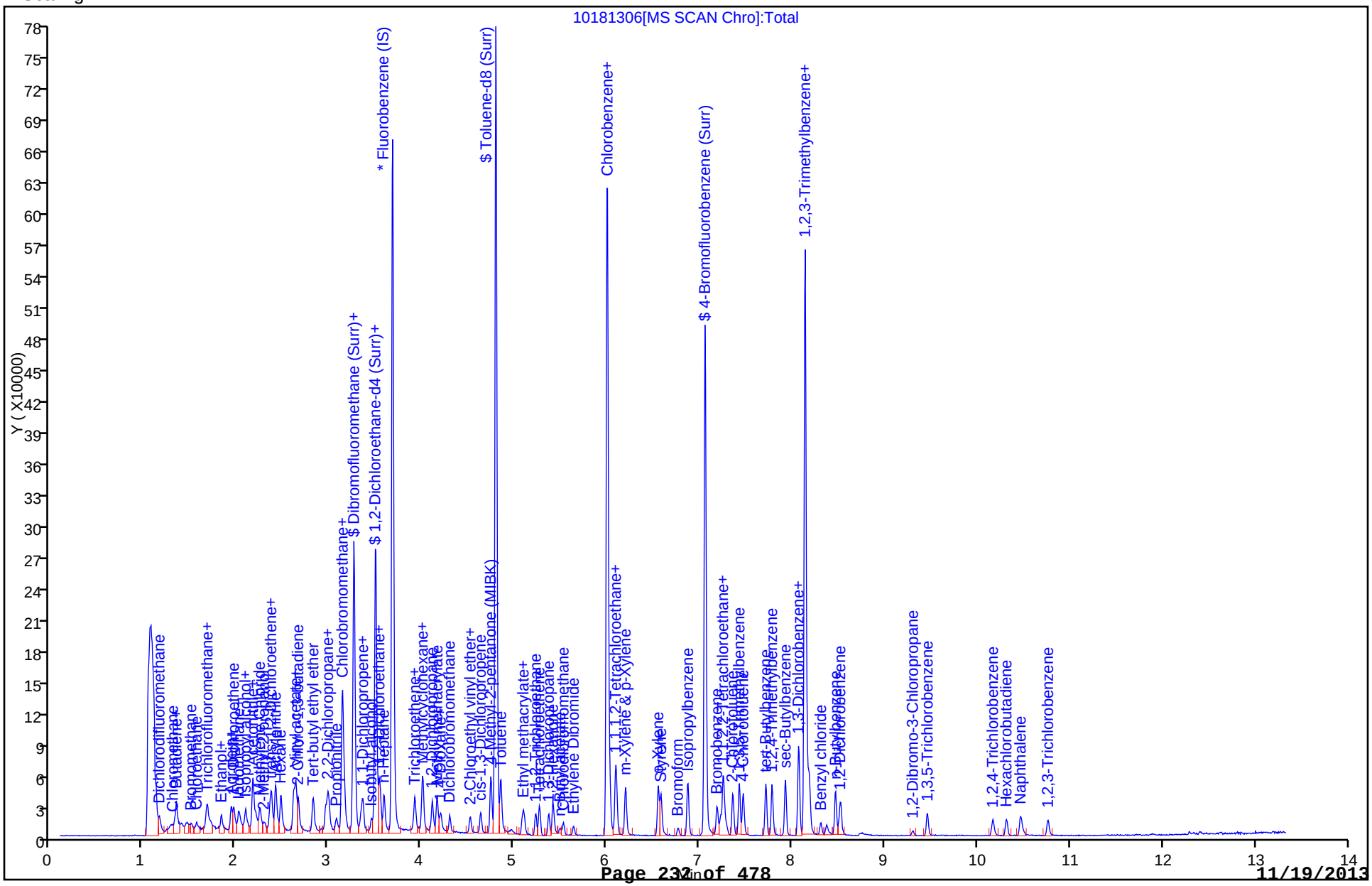
Report Date: 19-Oct-2013 19:48:38 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181306.D

Injection Date:	18-Oct-2013 21:05:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	4
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Manual Integration/User Assign Peak Report

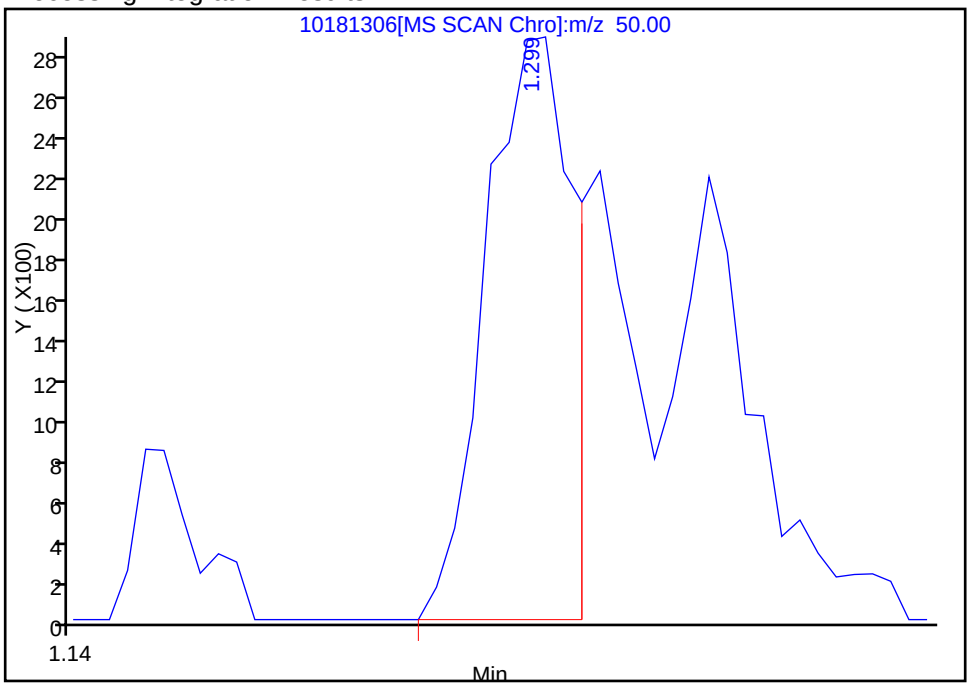
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181306.D		
Injection Date:	18-Oct-2013 21:05:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	4
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

10 Chloromethane, Signal: 1, m/z: 50.0 Type: quant, RT: 1.30

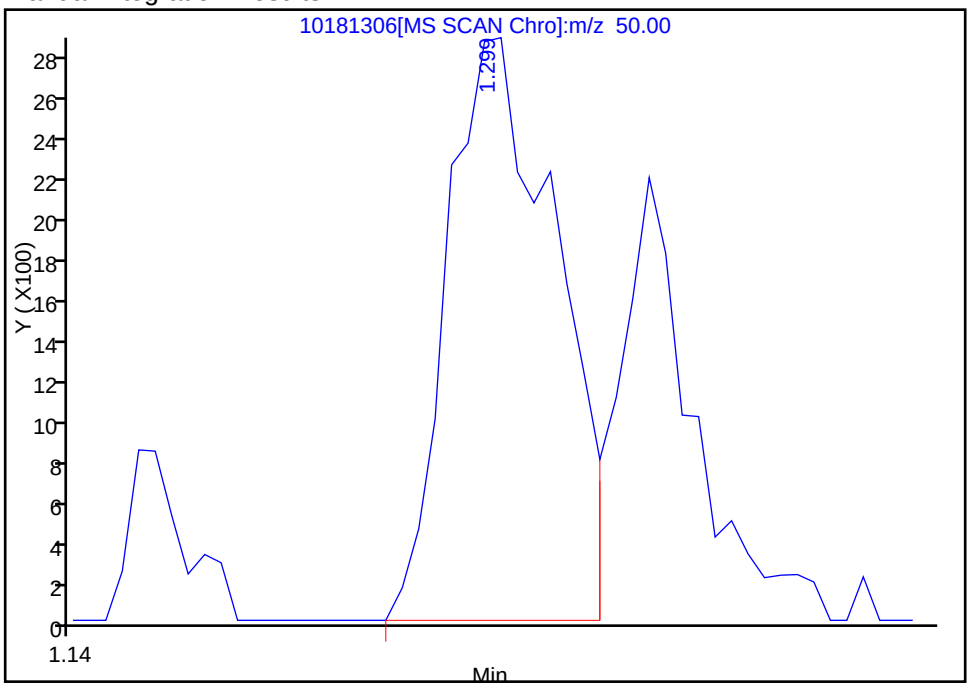
Processing Integration Results

RT: 1.30
Response: 5792
Amount: 1.487006



Manual Integration Results

RT: 1.30
Response: 7902
Amount: 1.867103



Reviewer: redmondj, 19-Oct-2013 19:48:38
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181307.D		
Lims ID:	std005	Client ID:	
Inject. Date:	18-Oct-2013 21:32:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	STD005		
Misc. Info.:	490-0026993-005		
Operator:	JJR	Instrument ID:	HP33
Purge Vol:	5.000 mL	ALS Bottle#:	7
Lims Batch ID:	115521	Lims Sample ID:	5
Sublist:	chrom-8260HP33*sub13		
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\8260HP33.m		
Last Update:	19-Oct-2013 19:51:28	Calib Date:	19-Oct-2013 00:14:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK030		
First Level Reviewer: redmondj		Date:	19-Oct-2013 19:51:28

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.688	3.689	-0.001	98	495878	30.0	
* 2 Chlorobenzene-d5	117	6.006	6.007	-0.001	85	338853	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.141	8.142	-0.001	95	151610	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.269	3.269	0.0	84	116329	29.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.506	3.507	-0.001	91	139806	30.0	
$ 6 Toluene-d8 (Surr)	98	4.802	4.802	0.0	93	450556	29.8	
$ 7 4-Bromofluorobenzene (Surr)	95	7.059	7.059	0.0	89	164300	31.0	
9 Dichlorodifluoromethane	85	1.170	1.171	-0.001	84	20746	4.72	
10 Chloromethane	50	1.304	1.298	0.006	90	19235	4.58	
11 Vinyl chloride	62	1.334	1.335	-0.001	87	21532	4.75	
12 Butadiene	54	1.352	1.353	-0.001	0	20360	4.69	
13 Bromomethane	96	1.517	1.517	0.0	82	3995	6.58	
14 Chloroethane	64	1.571	1.566	0.005	98	15809	4.89	
15 Dichlorofluoromethane	67	1.681	1.675	0.006	80	34899	4.81	
16 Trichlorofluoromethane	101	1.693	1.688	0.005	97	28217	4.73	
18 Ethyl ether	59	1.839	1.840	-0.001	88	16151	4.87	
17 Ethanol	45	1.839	1.840	-0.001	78	20211	315.0	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.942	1.943	-0.001	82	16770	4.73	
20 Acrolein	56	1.948	1.949	-0.001	42	7849	12.2	
21 1,1-Dichloroethene	96	1.973	1.974	-0.001	95	15523	4.81	
22 Acetone	58	2.028	2.028	0.0	97	11476	22.6	
23 Iodomethane	142	2.070	2.071	-0.001	91	6483	4.56	M
25 Isopropyl alcohol	45	2.101	2.095	0.006	1	7996	45.5	M
26 Carbon disulfide	76	2.101	2.101	0.0	99	49150	4.53	
29 Acetonitrile	41	2.174	2.174	0.0	75	23766	51.5	
27 3-Chloro-1-propene	76	2.174	2.174	0.0	86	11808	4.66	
28 Methyl acetate	43	2.180	2.180	0.0	98	99295	24.1	
30 Methylene Chloride	84	2.253	2.253	0.0	84	18900	4.84	
31 2-Methyl-2-propanol	59	2.301	2.302	-0.001	95	14430	50.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
32 Methyl tert-butyl ether	73	2.368	2.363	0.005	88	55451	4.88	
33 trans-1,2-Dichloroethene	61	2.380	2.381	-0.001	91	25971	4.83	
34 Acrylonitrile	53	2.423	2.424	-0.001	98	83431	50.1	
35 Hexane	57	2.484	2.485	-0.001	89	30116	4.69	
36 Isopropyl ether	45	2.618	2.618	0.0	94	68173	4.83	
37 1,1-Dichloroethane	63	2.642	2.637	0.005	75	35610	4.98	
38 Vinyl acetate	43	2.642	2.643	-0.001	97	104881	9.71	
39 2-Chloro-1,3-butadiene	53	2.672	2.673	-0.001	90	29461	4.67	
40 Tert-butyl ethyl ether	59	2.831	2.831	0.0	97	61530	4.94	
41 2,2-Dichloropropane	77	2.964	2.965	-0.001	90	27523	4.87	
42 cis-1,2-Dichloroethene	61	2.983	2.983	0.0	70	32772	4.87	
44 Ethyl acetate	43	3.001	2.996	0.005	93	66396	9.76	
43 2-Butanone (MEK)	72	3.001	2.996	0.005	97	11450	23.4	
45 Propionitrile	54	3.080	3.081	-0.001	99	28531	46.9	
46 Chlorobromomethane	130	3.135	3.135	0.0	75	10101	4.84	
47 Methacrylonitrile	41	3.147	3.142	0.005	94	142032	48.8	
48 Tetrahydrofuran	42	3.147	3.148	-0.001	27	17443	8.95	
49 Chloroform	83	3.165	3.166	-0.001	82	33564	4.90	
51 1,1,1-Trichloroethane	97	3.262	3.263	-0.001	80	25539	4.54	
50 Cyclohexane	56	3.262	3.263	-0.001	93	34903	4.68	
53 Carbon tetrachloride	117	3.348	3.348	0.0	80	21517	4.60	
54 1,1-Dichloropropene	75	3.366	3.367	-0.001	91	23729	4.62	
55 Isobutyl alcohol	43	3.463	3.458	0.005	95	19436	47.4	
56 Benzene	78	3.500	3.500	0.0	94	77328	4.83	
58 Tert-amyl methyl ether	73	3.542	3.543	-0.001	96	55423	4.95	
59 1,2-Dichloroethane	62	3.555	3.555	-0.001	74	25946	5.01	
60 n-Heptane	43	3.597	3.598	-0.001	92	31811	4.70	
61 n-Butanol	56	3.913	3.914	-0.001	87	10148	117.0	
62 Trichloroethene	130	3.932	3.926	0.006	92	19707	5.01	
63 Ethyl acrylate	55	4.011	4.005	0.006	0	54305	4.72	
64 Cyclohexanone	55	4.011	4.005	0.006	74	54305	47.2	
65 Methylcyclohexane	83	4.011	4.012	-0.001	88	34750	4.81	
66 1,2-Dichloropropane	63	4.114	4.115	-0.001	94	20227	4.84	
68 Methyl methacrylate	41	4.169	4.164	0.005	88	38679	9.47	
69 Dibromomethane	93	4.205	4.206	-0.001	81	10628	4.72	
70 1,4-Dioxane	88	4.218	4.212	0.006	3	4361	92.5	M
71 Dichlorobromomethane	83	4.303	4.304	-0.001	95	21818	4.60	
72 2-Nitropropane	43	4.522	4.523	0.0	74	15922	13.3	
73 2-Chloroethyl vinyl ether	63	4.528	4.523	0.006	80	11210	4.62	
74 cis-1,3-Dichloropropene	75	4.637	4.638	-0.001	80	26260	4.72	
75 4-Methyl-2-pentanone (MIBK)	58	4.747	4.748	-0.001	97	34435	23.3	
76 Toluene	91	4.856	4.851	0.005	95	78275	4.92	
77 trans-1,3-Dichloropropene	75	5.088	5.088	0.0	95	20850	4.41	
78 Ethyl methacrylate	69	5.106	5.100	0.006	86	22802	4.67	
79 1,1,2-Trichloroethane	97	5.234	5.228	0.006	85	15736	4.98	
80 Tetrachloroethene	166	5.276	5.271	0.005	82	19244	4.70	
81 1,3-Dichloropropane	76	5.373	5.374	-0.001	92	27721	4.82	
82 2-Hexanone	58	5.416	5.411	0.005	96	31894	23.4	
83 n-Butyl acetate	43	5.495	5.490	0.005	91	13805	4.73	
84 Chlorodibromomethane	127	5.532	5.532	0.0	81	11722	4.20	
85 Ethylene Dibromide	107	5.641	5.636	0.005	93	15972	4.79	
87 Chlorobenzene	112	6.030	6.031	-0.001	92	50943	4.85	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
88 Ethylbenzene	91	6.091	6.092	-0.001	98	87503	4.74	
89 1,1,1,2-Tetrachloroethane	131	6.103	6.104	-0.001	84	15707	4.51	
90 m-Xylene & p-Xylene	91	6.201	6.202	-0.001	98	68157	4.76	
91 o-Xylene	91	6.554	6.554	0.0	97	67049	5.36	
92 Styrene	104	6.584	6.579	0.005	94	55237	4.79	
93 Bromoform	173	6.773	6.767	0.006	91	9251	5.59	
94 Isopropylbenzene	105	6.876	6.871	0.005	95	86555	4.78	
95 Bromobenzene	77	7.186	7.187	-0.001	95	32508	4.88	
96 1,1,2,2-Tetrachloroethane	83	7.229	7.224	0.005	76	19476	4.87	
97 N-Propylbenzene	91	7.253	7.254	-0.001	92	103699	4.97	
98 1,2,3-Trichloropropane	110	7.272	7.266	0.006	80	7228	5.27	
99 trans-1,4-Dichloro-2-butene	53	7.296	7.284	0.012	27	5032	4.50	
100 2-Chlorotoluene	91	7.357	7.357	0.0	95	60689	5.07	
101 1,3,5-Trimethylbenzene	105	7.430	7.424	0.006	94	70662	4.98	
102 4-Chlorotoluene	91	7.472	7.467	0.005	97	62346	4.96	
103 tert-Butylbenzene	119	7.716	7.716	0.0	91	62530	5.07	
105 1,2,4-Trimethylbenzene	105	7.783	7.783	-0.001	96	72006	5.00	
106 sec-Butylbenzene	105	7.929	7.929	-0.001	93	90260	4.97	
108 1,3-Dichlorobenzene	146	8.075	8.069	0.006	85	38212	4.85	
107 4-Isopropyltoluene	119	8.068	8.069	-0.001	96	77001	4.90	
109 1,4-Dichlorobenzene	146	8.166	8.160	0.006	82	39924	4.99	
110 1,2,3-Trimethylbenzene	105	8.184	8.185	-0.001	0	71437	4.93	
111 Benzyl chloride	91	8.306	8.306	0.0	94	27194	5.32	
112 n-Butylbenzene	91	8.470	8.465	0.005	96	64513	4.74	
113 1,2-Dichlorobenzene	146	8.525	8.519	0.006	96	35680	4.97	
114 1,2-Dibromo-3-Chloropropane	157	9.303	9.298	0.005	55	3839	4.56	
115 1,3,5-Trichlorobenzene	180	9.455	9.456	-0.001	93	22073	4.74	
116 1,2,4-Trichlorobenzene	180	10.161	10.162	-0.001	90	18611	4.61	
117 Hexachlorobutadiene	225	10.313	10.314	-0.001	85	9909	4.58	
118 Naphthalene	128	10.465	10.460	0.005	96	57754	4.62	
119 1,2,3-Trichlorobenzene	180	10.763	10.758	0.005	90	18128	4.88	
S 134 Xylenes, Total	1				0		10.1	
S 135 1,2-Dichloroethene, Total	1				0		9.70	

QC Flag Legend

Review Flags
M - Manually Integrated

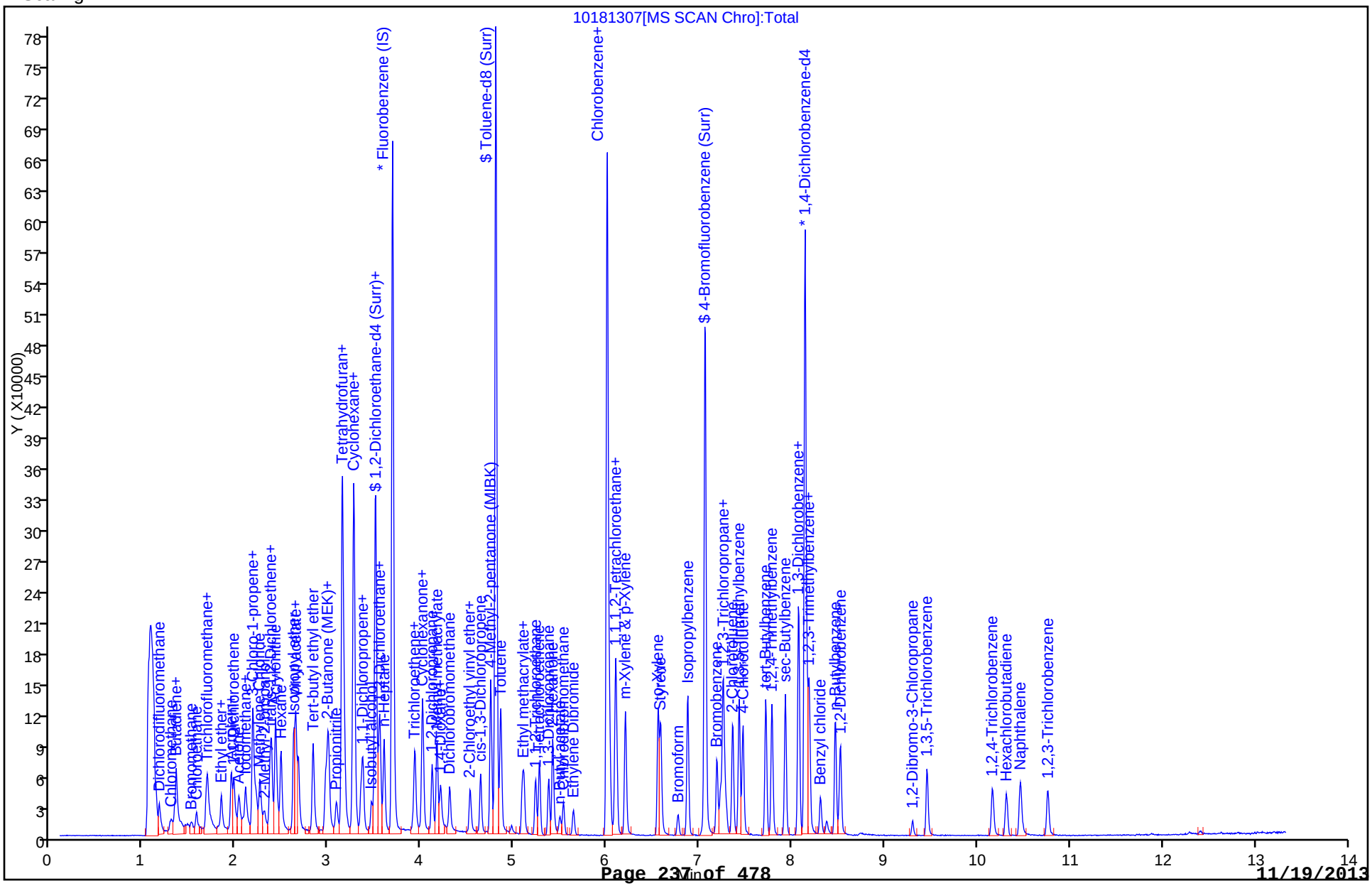
Report Date: 19-Oct-2013 19:51:28 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181307.D

Injection Date:	18-Oct-2013 21:32:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	5
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Manual Integration/User Assign Peak Report

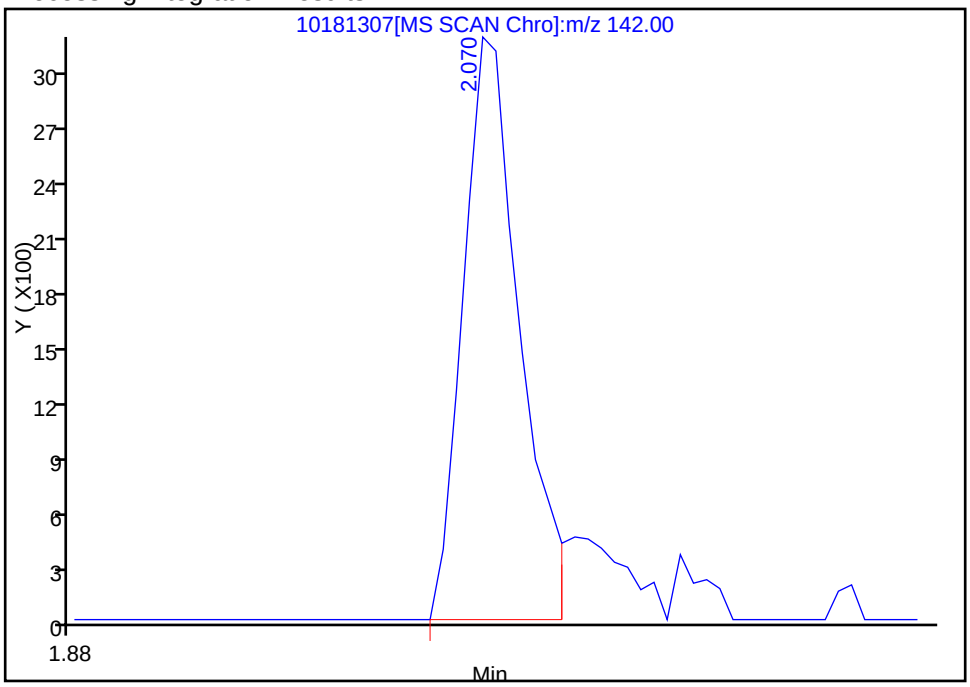
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181307.D		
Injection Date:	18-Oct-2013 21:32:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	5
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

23 Iodomethane, Signal: 1, m/z: 142.0 Type: quant, RT: 2.07

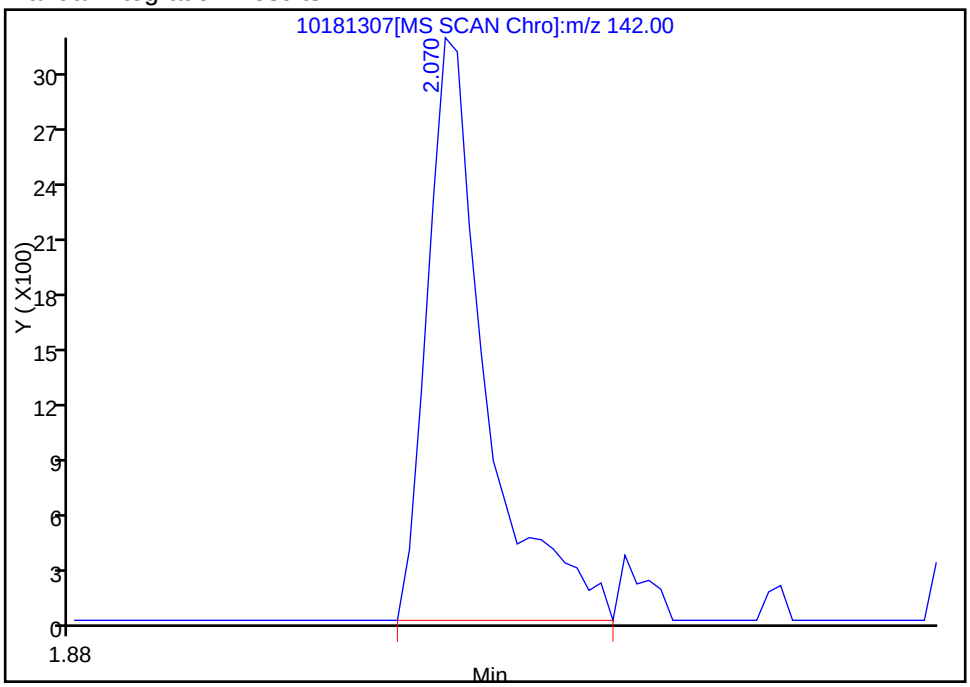
Processing Integration Results

RT: 2.07
Response: 5674
Amount: 4.360849



Manual Integration Results

RT: 2.07
Response: 6483
Amount: 4.559513



Reviewer: redmondj, 19-Oct-2013 19:51:28
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

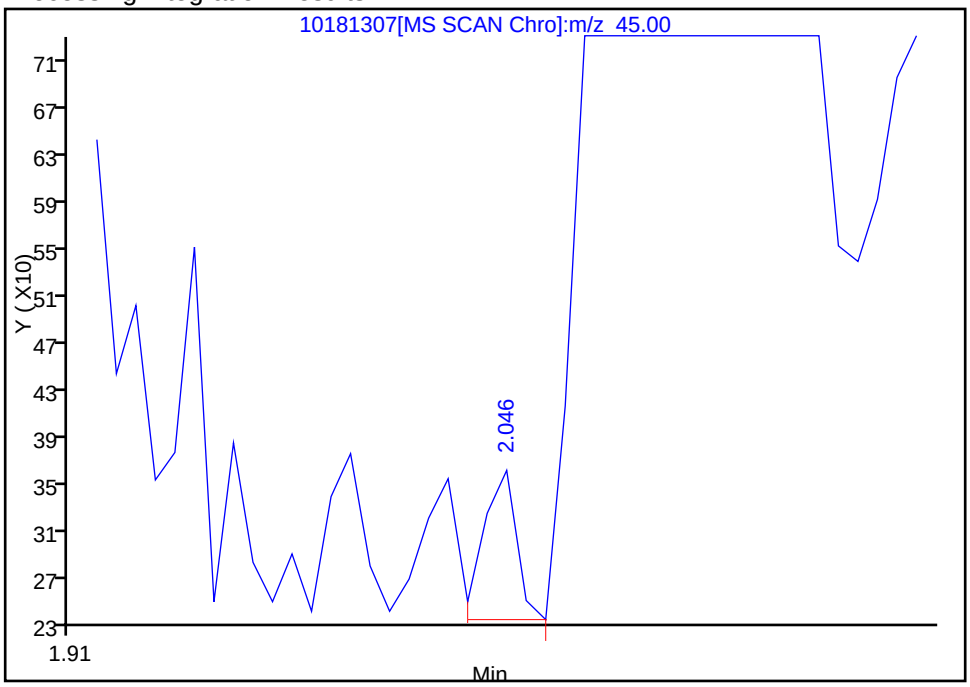
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181307.D		
Injection Date:	18-Oct-2013 21:32:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	5
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

25 Isopropyl alcohol, Signal: 1, m/z: 45.0 Type: quant, RT: 2.10

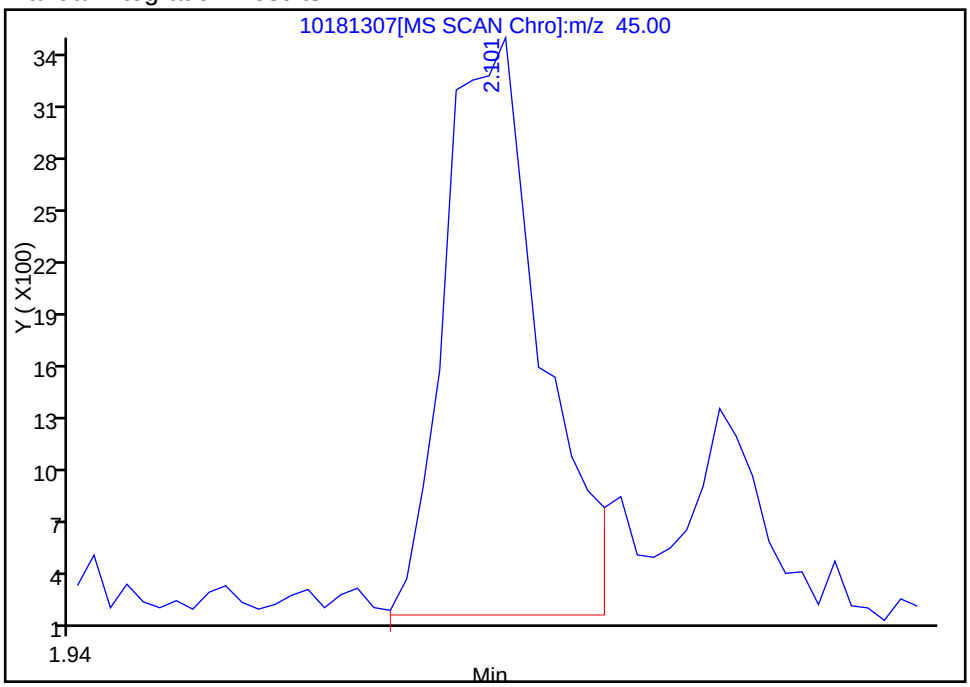
Processing Integration Results

RT: 2.05
Response: 89
Amount: 22.769100



Manual Integration Results

RT: 2.10
Response: 7996
Amount: 45.515424



Reviewer: redmondj, 19-Oct-2013 19:50:57
Audit Action: Manually Integrated
Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

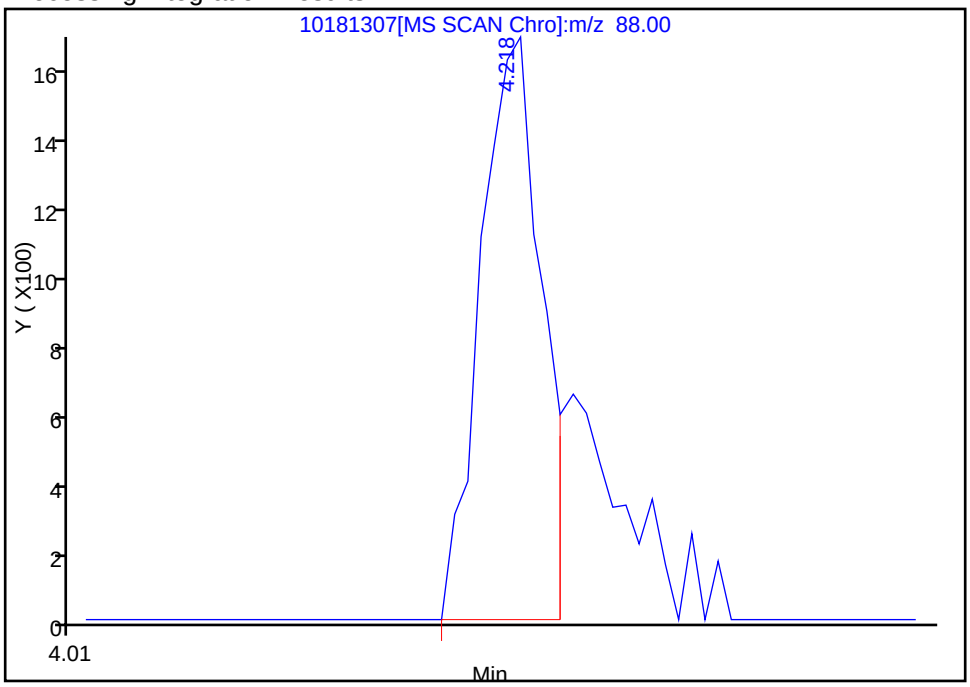
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181307.D		
Injection Date:	18-Oct-2013 21:32:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	5
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

70 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 4.21

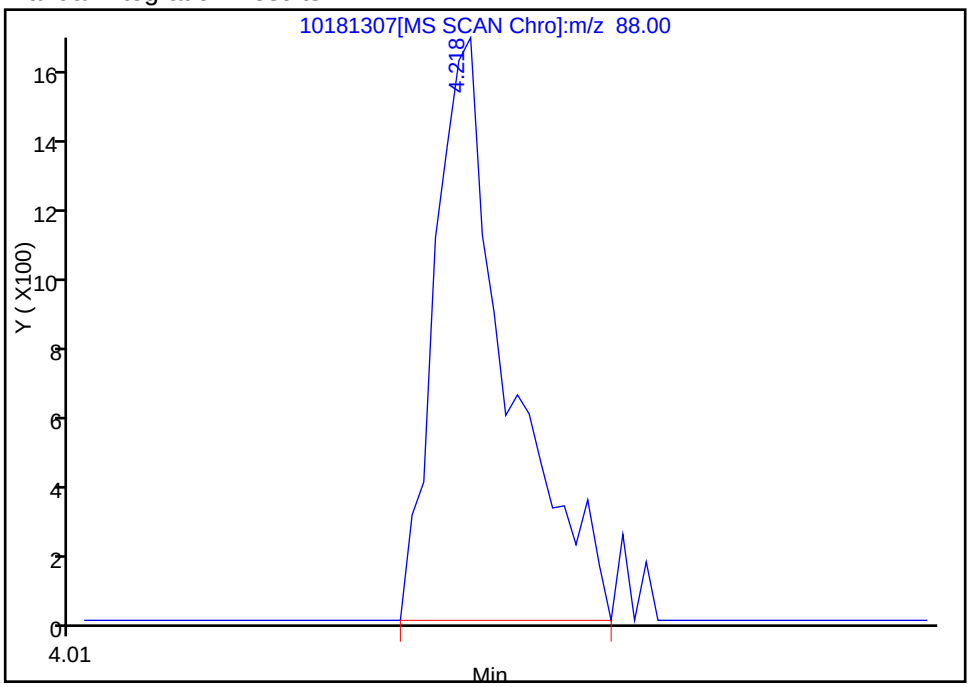
Processing Integration Results

RT: 4.22
Response: 3255
Amount: 61.079642



Manual Integration Results

RT: 4.22
Response: 4361
Amount: 92.462181



Reviewer: redmondj, 19-Oct-2013 19:49:13
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181308.D		
Lims ID:	std010	Client ID:	
Inject. Date:	18-Oct-2013 21:59:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	STD010		
Misc. Info.:	490-0026993-006		
Operator:	JJR	Instrument ID:	HP33
Purge Vol:	5.000 mL	ALS Bottle#:	8
Lims Batch ID:	115521	Lims Sample ID:	6
Sublist:	chrom-8260HP33*sub13		
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\8260HP33.m		
Last Update:	19-Oct-2013 19:52:39	Calib Date:	19-Oct-2013 00:14:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK030		
First Level Reviewer: redmondj		Date:	19-Oct-2013 19:52:39

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.688	3.689	-0.001	98	486969	30.0	
* 2 Chlorobenzene-d5	117	6.006	6.007	-0.001	86	332641	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.141	8.142	-0.001	94	155081	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.269	3.269	0.0	84	116277	30.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.506	3.507	-0.001	92	138973	30.3	
$ 6 Toluene-d8 (Surr)	98	4.802	4.802	0.0	92	448544	30.3	
$ 7 4-Bromofluorobenzene (Surr)	95	7.059	7.059	0.0	90	160814	29.7	
9 Dichlorodifluoromethane	85	1.170	1.171	-0.001	87	44842	10.4	
10 Chloromethane	50	1.298	1.298	0.0	89	37748	9.16	
11 Vinyl chloride	62	1.334	1.335	-0.001	78	45274	10.2	
12 Butadiene	54	1.352	1.353	-0.001	0	44028	10.3	
13 Bromomethane	96	1.517	1.517	0.0	91	9750	9.46	
14 Chloroethane	64	1.571	1.566	0.005	94	29807	9.49	
15 Dichlorofluoromethane	67	1.675	1.675	0.0	82	71581	10.1	
16 Trichlorofluoromethane	101	1.693	1.688	0.005	84	62795	10.7	
18 Ethyl ether	59	1.839	1.840	-0.001	84	33496	10.3	
17 Ethanol	45	1.839	1.840	-0.001	71	40511	474.3	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.949	1.943	0.006	91	35544	10.2	
20 Acrolein	56	1.949	1.949	0.0	46	15249	24.1	
21 1,1-Dichloroethene	96	1.973	1.974	-0.001	88	31956	10.1	
22 Acetone	58	2.028	2.028	0.0	100	21019	47.9	
23 Iodomethane	142	2.070	2.071	-0.001	96	17789	8.28	
25 Isopropyl alcohol	45	2.095	2.095	-0.001	7	17771	103.0	
26 Carbon disulfide	76	2.101	2.101	0.0	99	103055	9.67	
29 Acetonitrile	41	2.174	2.174	0.0	74	48882	109.8	
27 3-Chloro-1-propene	76	2.174	2.174	0.0	88	25351	10.2	
28 Methyl acetate	43	2.180	2.180	0.0	98	203084	50.1	
30 Methylene Chloride	84	2.259	2.253	0.006	87	38273	9.98	
31 2-Methyl-2-propanol	59	2.301	2.302	-0.001	95	30057	106.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
32 Methyl tert-butyl ether	73	2.368	2.363	0.005	88	112019	10.0	
33 trans-1,2-Dichloroethene	61	2.380	2.381	-0.001	96	52221	9.89	
34 Acrylonitrile	53	2.423	2.424	-0.001	97	165780	101.5	
35 Hexane	57	2.484	2.485	-0.001	90	61854	9.80	
36 Isopropyl ether	45	2.618	2.618	0.0	94	136793	9.86	
37 1,1-Dichloroethane	63	2.642	2.637	0.005	79	72273	10.3	
38 Vinyl acetate	43	2.642	2.643	-0.001	97	214172	20.2	
39 2-Chloro-1,3-butadiene	53	2.672	2.673	-0.001	88	63208	10.2	
40 Tert-butyl ethyl ether	59	2.831	2.831	0.0	98	122836	10.0	
41 2,2-Dichloropropane	77	2.964	2.965	-0.001	92	54431	9.80	
42 cis-1,2-Dichloroethene	61	2.983	2.983	0.0	71	66016	9.99	
44 Ethyl acetate	43	2.995	2.996	-0.001	91	133627	20.0	
43 2-Butanone (MEK)	72	2.995	2.996	-0.001	92	23876	49.7	
45 Propionitrile	54	3.080	3.081	-0.001	98	59168	99.0	
46 Chlorobromomethane	130	3.135	3.135	0.0	54	20578	10.0	
47 Methacrylonitrile	41	3.141	3.142	-0.001	94	291609	102.0	
48 Tetrahydrofuran	42	3.147	3.148	-0.001	28	36047	18.8	
49 Chloroform	83	3.165	3.166	-0.001	71	64153	9.55	
51 1,1,1-Trichloroethane	97	3.263	3.263	0.0	90	53499	9.69	
50 Cyclohexane	56	3.263	3.263	0.0	92	73111	9.98	
53 Carbon tetrachloride	117	3.348	3.348	0.0	91	45018	9.80	
54 1,1-Dichloropropene	75	3.366	3.367	-0.001	92	51347	10.2	
55 Isobutyl alcohol	43	3.457	3.458	-0.001	95	37713	93.9	
56 Benzene	78	3.500	3.500	0.0	97	157620	10.0	
58 Tert-amyl methyl ether	73	3.542	3.543	-0.001	97	109647	9.97	
59 1,2-Dichloroethane	62	3.555	3.555	0.0	77	52680	10.4	
60 n-Heptane	43	3.597	3.598	-0.001	92	64931	9.78	
61 n-Butanol	56	3.913	3.914	-0.001	89	21404	251.3	
62 Trichloroethene	130	3.932	3.926	0.006	93	39393	10.2	
63 Ethyl acrylate	55	4.011	4.005	0.006	0	113160	10.0	
64 Cyclohexanone	55	4.011	4.005	0.006	76	113160	100.1	
65 Methylcyclohexane	83	4.011	4.012	-0.001	88	71875	10.1	
66 1,2-Dichloropropane	63	4.114	4.115	-0.001	94	40819	9.95	
68 Methyl methacrylate	41	4.163	4.164	-0.001	89	76576	19.1	
69 Dibromomethane	93	4.205	4.206	-0.001	86	21070	9.53	
70 1,4-Dioxane	88	4.212	4.212	0.0	16	7782	197.7	M
71 Dichlorobromomethane	83	4.303	4.304	-0.001	92	45684	9.81	
72 2-Nitropropane	43	4.522	4.523	0.0	77	28347	19.5	
73 2-Chloroethyl vinyl ether	63	4.522	4.523	0.0	84	25065	10.5	
74 cis-1,3-Dichloropropene	75	4.637	4.638	-0.001	87	55739	10.2	
75 4-Methyl-2-pentanone (MIBK)	58	4.747	4.748	-0.001	97	70162	48.3	
76 Toluene	91	4.856	4.851	0.005	98	157763	10.1	
77 trans-1,3-Dichloropropene	75	5.088	5.088	0.0	94	45433	9.80	
78 Ethyl methacrylate	69	5.106	5.100	0.006	90	48302	10.1	
79 1,1,2-Trichloroethane	97	5.234	5.228	0.006	91	31334	10.1	
80 Tetrachloroethene	166	5.276	5.271	0.005	90	39605	9.86	
81 1,3-Dichloropropane	76	5.374	5.374	0.0	91	56092	9.93	
82 2-Hexanone	58	5.416	5.411	0.005	97	66800	50.0	
83 n-Butyl acetate	43	5.489	5.490	-0.001	92	30238	10.5	
84 Chlorodibromomethane	127	5.532	5.532	0.0	90	24263	8.39	
85 Ethylene Dibromide	107	5.641	5.636	0.005	96	32088	9.81	
87 Chlorobenzene	112	6.031	6.031	0.0	93	103672	10.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
88 Ethylbenzene	91	6.091	6.092	-0.001	98	180660	9.98	
89 1,1,1,2-Tetrachloroethane	131	6.110	6.104	0.006	83	34416	10.1	
90 m-Xylene & p-Xylene	91	6.201	6.202	-0.001	99	138020	9.82	
91 o-Xylene	91	6.554	6.554	0.0	97	138257	11.3	
92 Styrene	104	6.578	6.579	-0.001	95	114031	10.1	
93 Bromoform	173	6.767	6.767	0.0	95	19638	9.41	
94 Isopropylbenzene	105	6.870	6.871	-0.001	96	181317	10.2	
95 Bromobenzene	77	7.186	7.187	-0.001	96	68595	10.1	
96 1,1,2,2-Tetrachloroethane	83	7.229	7.224	0.005	79	41667	10.2	
97 N-Propylbenzene	91	7.253	7.254	-0.001	96	216428	10.1	
98 1,2,3-Trichloropropane	110	7.265	7.266	-0.001	75	14485	10.3	
99 trans-1,4-Dichloro-2-butene	53	7.290	7.284	0.006	46	10684	8.41	
100 2-Chlorotoluene	91	7.357	7.357	0.0	96	119180	9.73	
101 1,3,5-Trimethylbenzene	105	7.430	7.424	0.006	92	146675	10.1	
102 4-Chlorotoluene	91	7.466	7.467	-0.001	96	130044	10.1	
103 tert-Butylbenzene	119	7.716	7.716	0.0	92	126595	10.0	
105 1,2,4-Trimethylbenzene	105	7.783	7.783	0.0	97	149566	10.2	
106 sec-Butylbenzene	105	7.929	7.929	0.0	93	187816	10.1	
108 1,3-Dichlorobenzene	146	8.075	8.069	0.006	68	79420	9.86	
107 4-Isopropyltoluene	119	8.068	8.069	-0.001	97	161792	10.1	
109 1,4-Dichlorobenzene	146	8.166	8.160	0.006	87	78686	9.61	
110 1,2,3-Trimethylbenzene	105	8.184	8.185	-0.001	0	147785	9.98	
111 Benzyl chloride	91	8.306	8.306	0.0	98	60845	9.15	
112 n-Butylbenzene	91	8.464	8.465	-0.001	97	137400	9.87	
113 1,2-Dichlorobenzene	146	8.519	8.519	0.0	97	73611	10.0	
114 1,2-Dibromo-3-Chloropropane	157	9.297	9.298	-0.001	64	8367	8.96	
115 1,3,5-Trichlorobenzene	180	9.456	9.456	0.0	96	49193	10.3	
116 1,2,4-Trichlorobenzene	180	10.161	10.162	-0.001	93	41568	10.1	
117 Hexachlorobutadiene	225	10.319	10.314	0.005	87	20740	9.37	
118 Naphthalene	128	10.465	10.460	0.005	97	120753	9.44	
119 1,2,3-Trichlorobenzene	180	10.757	10.758	-0.001	95	38185	10.1	
S 134 Xylenes, Total	1				0		21.1	
S 135 1,2-Dichloroethene, Total	1				0		19.9	

QC Flag Legend

Review Flags
M - Manually Integrated

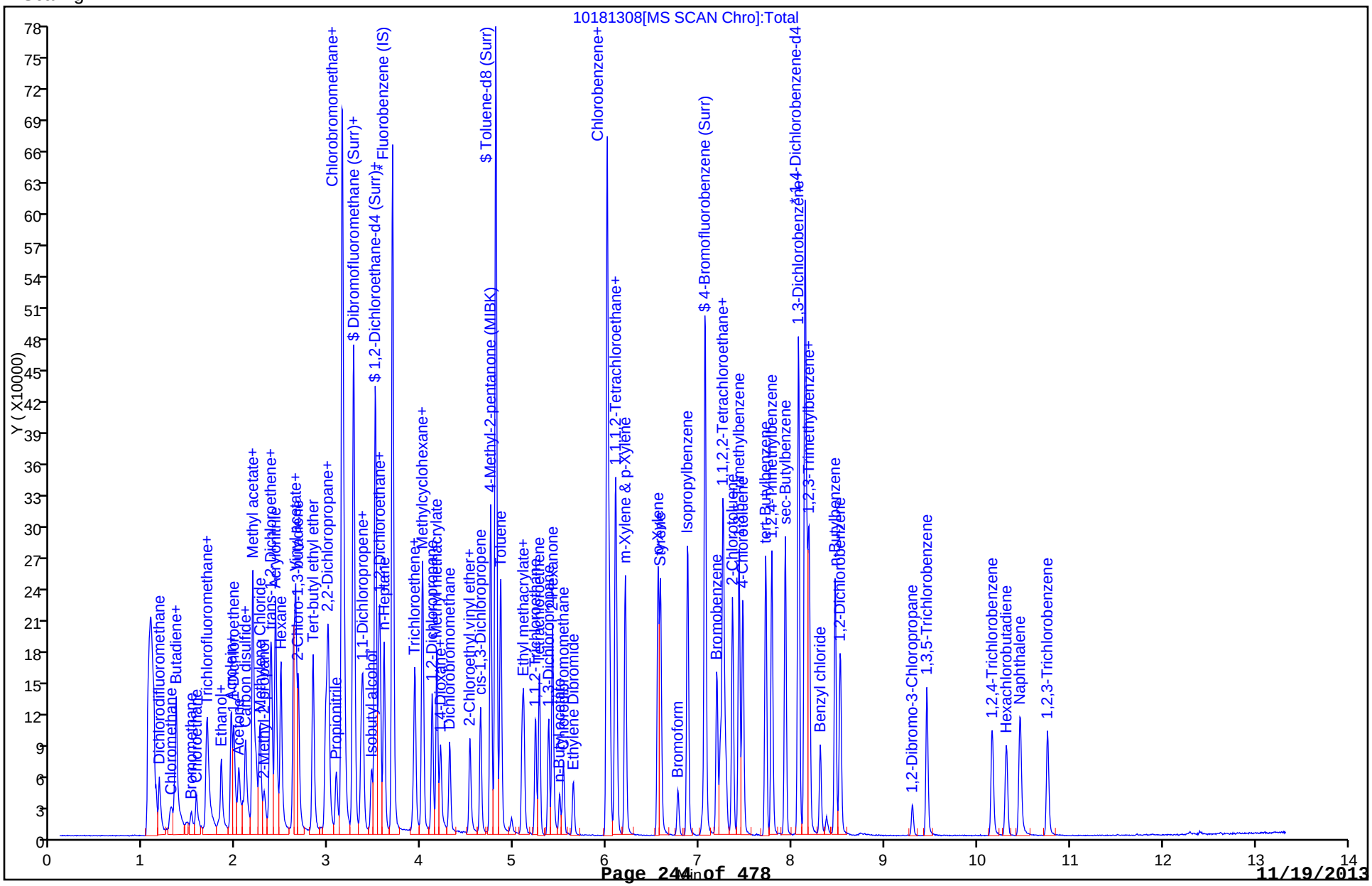
Report Date: 19-Oct-2013 19:52:40 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181308.D

Injection Date:	18-Oct-2013 21:59:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	6
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Manual Integration/User Assign Peak Report

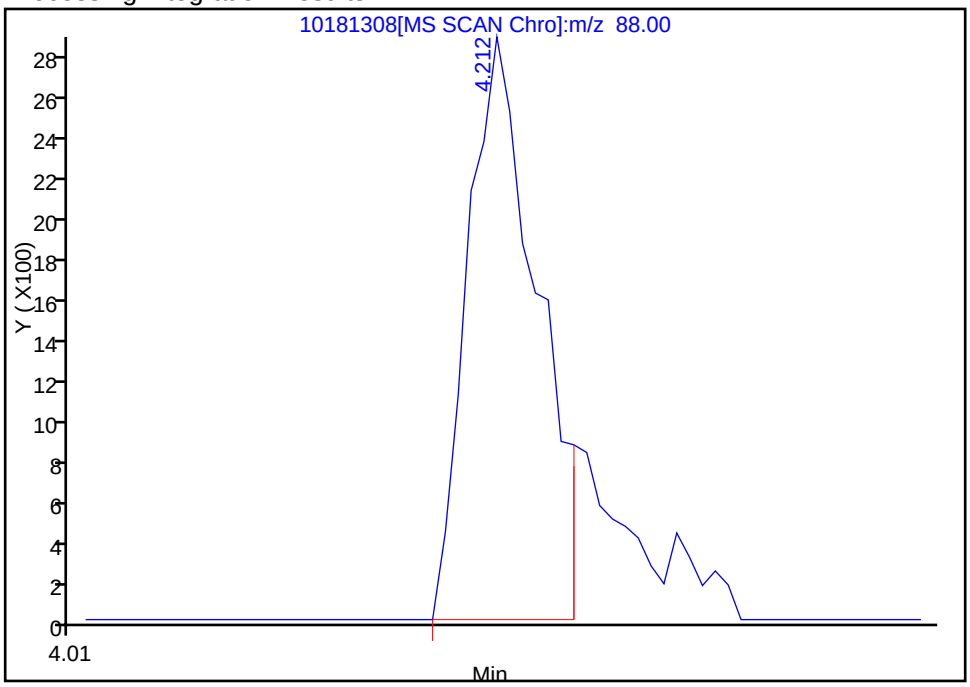
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181308.D		
Injection Date:	18-Oct-2013 21:59:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	6
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

70 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 4.21

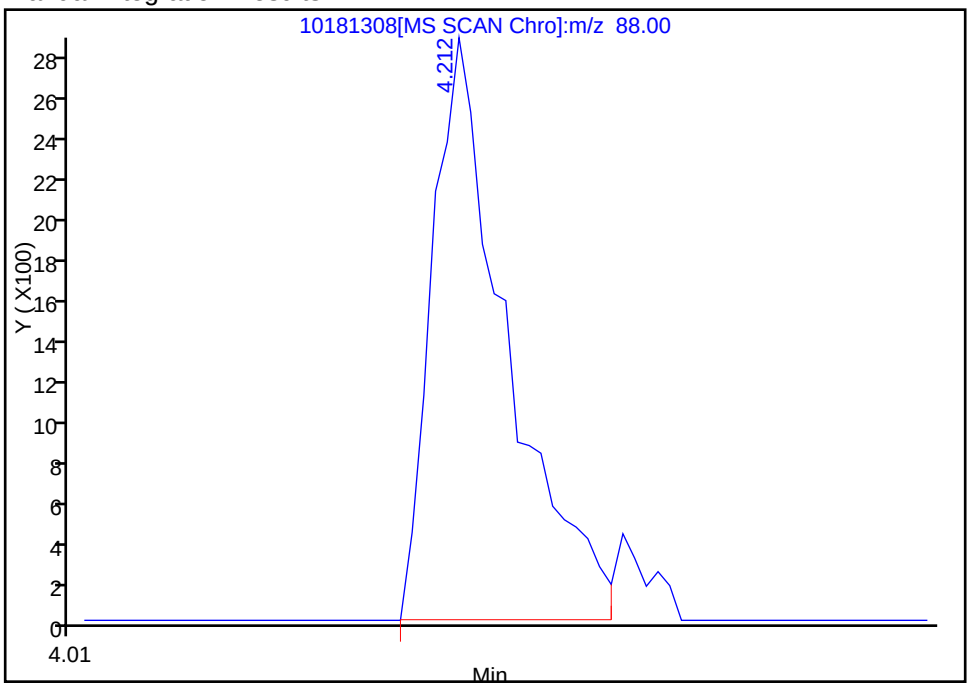
Processing Integration Results

RT: 4.21
Response: 6638
Amount: 164.2926



Manual Integration Results

RT: 4.21
Response: 7782
Amount: 197.7309



Reviewer: redmondj, 19-Oct-2013 19:52:39
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181309.D		
Lims ID:	icis	Client ID:	
Inject. Date:	18-Oct-2013 22:26:30	Dil. Factor:	1.0000
Sample Type:	ICIS	Calib Level:	6
Sample ID:	ICIS		
Misc. Info.:	490-0026993-007		
Operator:	JJR	Instrument ID:	HP33
Purge Vol:	5.000 mL	ALS Bottle#:	9
Lims Batch ID:	115521	Lims Sample ID:	7
Sublist:	chrom-8260HP33*sub13		
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\8260HP33.m		
Last Update:	19-Oct-2013 19:41:23	Calib Date:	19-Oct-2013 00:14:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK030		
First Level Reviewer: redmondj		Date:	19-Oct-2013 19:38:53

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.689	3.689	0.0	98	511147	30.0	
* 2 Chlorobenzene-d5	117	6.007	6.007	0.0	85	349463	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.142	8.142	0.0	94	161267	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.269	3.269	0.0	81	121845	30.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.507	3.507	0.0	86	146813	30.5	
$ 6 Toluene-d8 (Surr)	98	4.802	4.802	0.0	91	462180	29.7	
$ 7 4-Bromofluorobenzene (Surr)	95	7.059	7.059	0.0	89	169399	30.0	
9 Dichlorodifluoromethane	85	1.171	1.171	0.0	87	89974	19.9	
10 Chloromethane	50	1.298	1.298	0.0	99	77526	17.2	
11 Vinyl chloride	62	1.335	1.335	0.0	80	91095	19.5	
12 Butadiene	54	1.353	1.353	0.0	0	88131	19.7	
13 Bromomethane	96	1.517	1.517	0.0	90	21412	14.7	
14 Chloroethane	64	1.566	1.566	0.0	95	60374	19.2	
15 Dichlorofluoromethane	67	1.675	1.675	0.0	83	143830	19.2	
16 Trichlorofluoromethane	101	1.688	1.688	0.0	86	123293	20.0	
18 Ethyl ether	59	1.840	1.840	0.0	93	67630	19.8	
17 Ethanol	45	1.840	1.840	0.0	78	81072	980.3	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.943	1.943	0.0	84	71781	19.6	
20 Acrolein	56	1.949	1.949	0.0	54	29013	43.7	
21 1,1-Dichloroethene	96	1.974	1.974	0.0	90	66865	20.1	
22 Acetone	58	2.028	2.028	0.0	99	38379	88.3	
23 Iodomethane	142	2.071	2.071	0.0	98	46686	17.0	
25 Isopropyl alcohol	45	2.095	2.095	0.0	4	34863	198.2	
26 Carbon disulfide	76	2.101	2.101	0.0	99	210074	18.8	
29 Acetonitrile	41	2.174	2.174	0.0	72	98969	206.1	
27 3-Chloro-1-propene	76	2.174	2.174	0.0	88	51430	19.7	
28 Methyl acetate	43	2.180	2.180	0.0	98	416057	97.8	
30 Methylene Chloride	84	2.253	2.253	0.0	84	74943	18.6	
31 2-Methyl-2-propanol	59	2.302	2.302	0.0	95	56215	189.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
32 Methyl tert-butyl ether	73	2.363	2.363	0.0	88	226369	19.3	
33 trans-1,2-Dichloroethene	61	2.381	2.381	0.0	94	107887	19.5	
34 Acrylonitrile	53	2.424	2.424	0.0	98	326664	190.5	
35 Hexane	57	2.485	2.485	0.0	89	125144	18.9	
36 Isopropyl ether	45	2.618	2.618	0.0	94	276006	19.0	
37 1,1-Dichloroethane	63	2.637	2.637	0.0	85	145527	19.8	
38 Vinyl acetate	43	2.643	2.643	0.0	97	431596	38.8	
39 2-Chloro-1,3-butadiene	53	2.673	2.673	0.0	83	127860	19.7	
40 Tert-butyl ethyl ether	59	2.831	2.831	0.0	99	251874	19.6	
41 2,2-Dichloropropane	77	2.965	2.965	0.0	92	110759	19.0	
42 cis-1,2-Dichloroethene	61	2.983	2.983	0.0	71	133276	19.2	
44 Ethyl acetate	43	2.996	2.996	0.0	93	261891	37.4	
43 2-Butanone (MEK)	72	2.996	2.996	0.0	92	44434	92.3	
45 Propionitrile	54	3.081	3.081	0.0	99	119998	191.4	
46 Chlorobromomethane	130	3.135	3.135	0.0	79	42242	19.6	
47 Methacrylonitrile	41	3.142	3.142	0.0	94	577566	192.5	
48 Tetrahydrofuran	42	3.148	3.148	0.0	74	69395	34.6	
49 Chloroform	83	3.166	3.166	0.0	84	133451	18.9	
51 1,1,1-Trichloroethane	97	3.263	3.263	0.0	86	114586	19.8	
50 Cyclohexane	56	3.263	3.263	0.0	92	151206	19.7	
53 Carbon tetrachloride	117	3.348	3.348	0.0	81	91932	19.1	
54 1,1-Dichloropropene	75	3.367	3.367	0.0	95	103629	19.6	
55 Isobutyl alcohol	43	3.458	3.458	0.0	94	74977	178.1	
56 Benzene	78	3.500	3.500	0.0	94	318186	19.3	
58 Tert-amyl methyl ether	73	3.543	3.543	0.0	97	225735	19.6	
59 1,2-Dichloroethane	62	3.555	3.555	0.0	79	105185	18.5	
60 n-Heptane	43	3.598	3.598	0.0	92	132832	19.1	
61 n-Butanol	56	3.914	3.914	0.0	92	41445	436.0	
62 Trichloroethene	130	3.926	3.926	0.0	99	79058	19.5	
63 Ethyl acrylate	55	4.005	4.005	0.0	0	222334	18.7	
64 Cyclohexanone	55	4.005	4.005	0.0	77	222334	187.4	
65 Methylcyclohexane	83	4.012	4.012	0.0	93	145067	19.5	
66 1,2-Dichloropropane	63	4.115	4.115	0.0	94	84913	19.7	
68 Methyl methacrylate	41	4.164	4.164	0.0	91	159710	37.9	
69 Dibromomethane	93	4.206	4.206	0.0	85	46425	20.0	
70 1,4-Dioxane	88	4.212	4.212	0.0	1	13727	370.6	M
71 Dichlorobromomethane	83	4.304	4.304	0.0	93	95309	19.5	
73 2-Chloroethyl vinyl ether	63	4.523	4.523	0.0	84	49431	20.2	
72 2-Nitropropane	43	4.523	4.523	0.0	75	62431	34.5	
74 cis-1,3-Dichloropropene	75	4.638	4.638	0.0	90	115126	20.1	
75 4-Methyl-2-pentanone (MIBK)	58	4.748	4.748	0.0	97	145108	95.1	
76 Toluene	91	4.851	4.851	0.0	97	319645	19.5	
77 trans-1,3-Dichloropropene	75	5.088	5.088	0.0	94	96870	19.9	
78 Ethyl methacrylate	69	5.100	5.100	0.0	90	100622	20.0	
79 1,1,2-Trichloroethane	97	5.228	5.228	0.0	87	64933	19.9	
80 Tetrachloroethene	166	5.271	5.271	0.0	88	81315	19.3	
81 1,3-Dichloropropane	76	5.374	5.374	0.0	92	115132	19.4	
82 2-Hexanone	58	5.411	5.411	0.0	97	135252	96.3	
83 n-Butyl acetate	43	5.490	5.490	0.0	95	60951	17.9	
84 Chlorodibromomethane	127	5.532	5.532	0.0	88	51884	16.9	
85 Ethylene Dibromide	107	5.636	5.636	0.0	97	67244	19.5	
87 Chlorobenzene	112	6.031	6.031	0.0	93	210660	19.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
88 Ethylbenzene	91	6.092	6.092	0.0	98	370735	19.5	
89 1,1,1,2-Tetrachloroethane	131	6.104	6.104	0.0	84	69922	19.5	
90 m-Xylene & p-Xylene	91	6.202	6.202	0.0	98	283621	19.2	
91 o-Xylene	91	6.554	6.554	0.0	97	288823	22.4	
92 Styrene	104	6.579	6.579	0.0	95	237904	20.0	
93 Bromoform	173	6.767	6.767	0.0	95	41764	15.8	
94 Isopropylbenzene	105	6.871	6.871	0.0	96	365713	19.6	
95 Bromobenzene	77	7.187	7.187	0.0	94	135489	19.1	
96 1,1,2,2-Tetrachloroethane	83	7.224	7.224	0.0	81	82628	19.4	
97 N-Propylbenzene	91	7.254	7.254	0.0	97	436860	19.7	
98 1,2,3-Trichloropropane	110	7.266	7.266	0.0	81	27937	20.0	
99 trans-1,4-Dichloro-2-butene	53	7.284	7.284	0.0	32	23776	17.0	
100 2-Chlorotoluene	91	7.357	7.357	0.0	96	247324	19.5	
101 1,3,5-Trimethylbenzene	105	7.424	7.424	0.0	94	297918	19.7	
102 4-Chlorotoluene	91	7.467	7.467	0.0	97	262947	19.7	
103 tert-Butylbenzene	119	7.716	7.716	0.0	92	259436	19.8	
105 1,2,4-Trimethylbenzene	105	7.783	7.783	0.0	97	305127	19.9	
106 sec-Butylbenzene	105	7.929	7.929	0.0	94	385507	20.0	
108 1,3-Dichlorobenzene	146	8.069	8.069	0.0	70	165486	19.8	
107 4-Isopropyltoluene	119	8.069	8.069	0.0	97	334210	20.0	
109 1,4-Dichlorobenzene	146	8.160	8.160	0.0	92	164088	19.3	
110 1,2,3-Trimethylbenzene	105	8.185	8.185	0.0	0	304057	19.7	
111 Benzyl chloride	91	8.306	8.306	0.0	99	132461	16.8	
112 n-Butylbenzene	91	8.465	8.465	0.0	97	292932	20.2	
113 1,2-Dichlorobenzene	146	8.519	8.519	0.0	97	149744	19.6	
114 1,2-Dibromo-3-Chloropropane	157	9.298	9.298	0.0	74	17998	17.8	
115 1,3,5-Trichlorobenzene	180	9.456	9.456	0.0	97	101765	20.5	
116 1,2,4-Trichlorobenzene	180	10.162	10.162	0.0	93	86195	19.9	
117 Hexachlorobutadiene	225	10.314	10.314	0.0	94	44072	19.1	
118 Naphthalene	128	10.460	10.460	0.0	97	254387	19.1	
119 1,2,3-Trichlorobenzene	180	10.758	10.758	0.0	94	78463	19.9	
S 134 Xylenes, Total	1				0		41.6	
S 135 1,2-Dichloroethene, Total	1				0		38.7	

QC Flag Legend

Review Flags
M - Manually Integrated

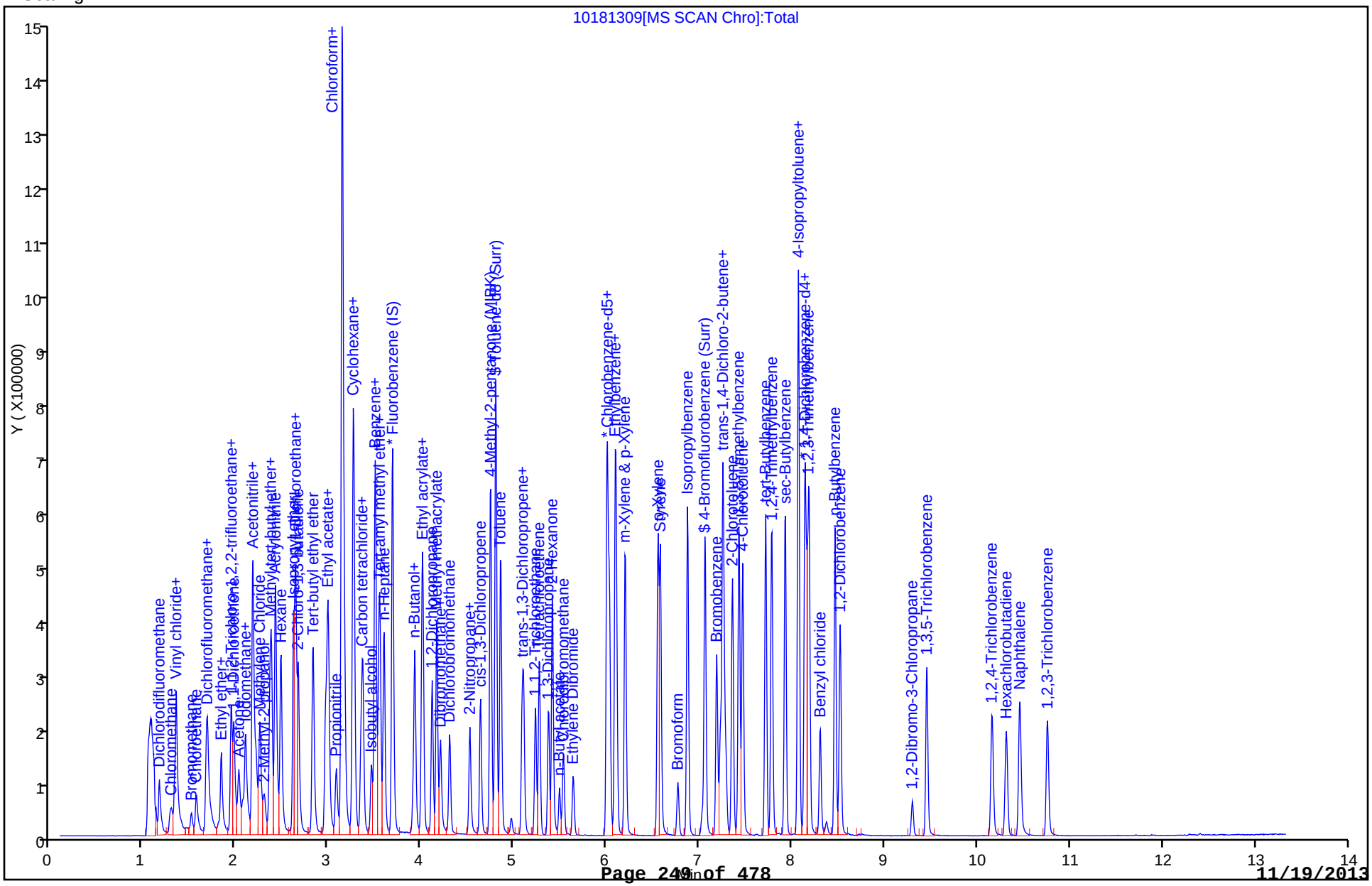
Report Date: 19-Oct-2013 19:41:23 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181309.D

Injection Date:	18-Oct-2013 22:26:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	7
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Manual Integration/User Assign Peak Report

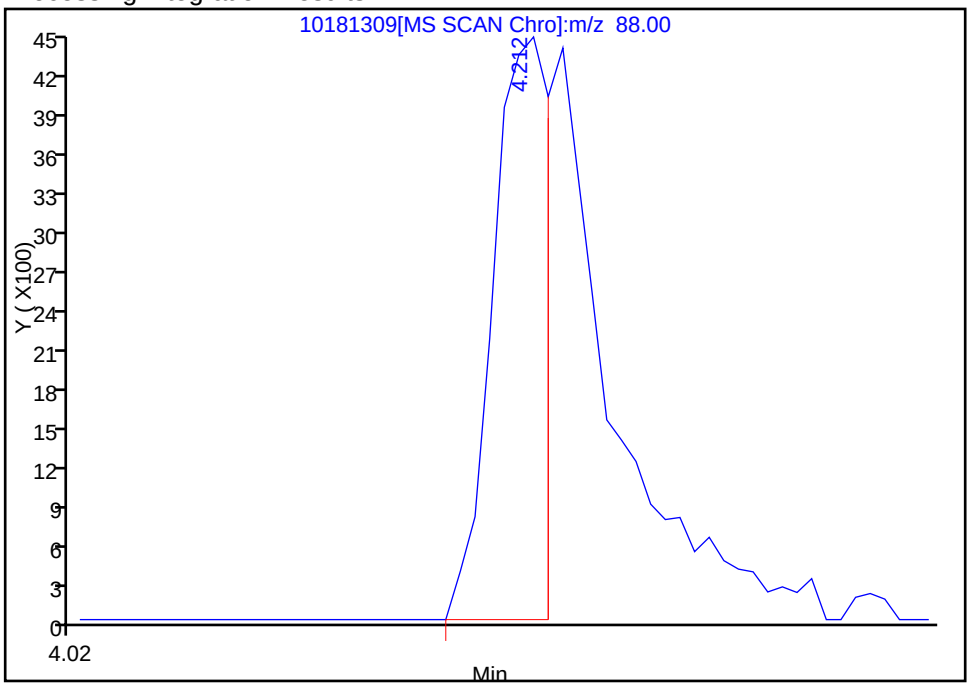
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181309.D		
Injection Date:	18-Oct-2013 22:26:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	7
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

70 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 4.21

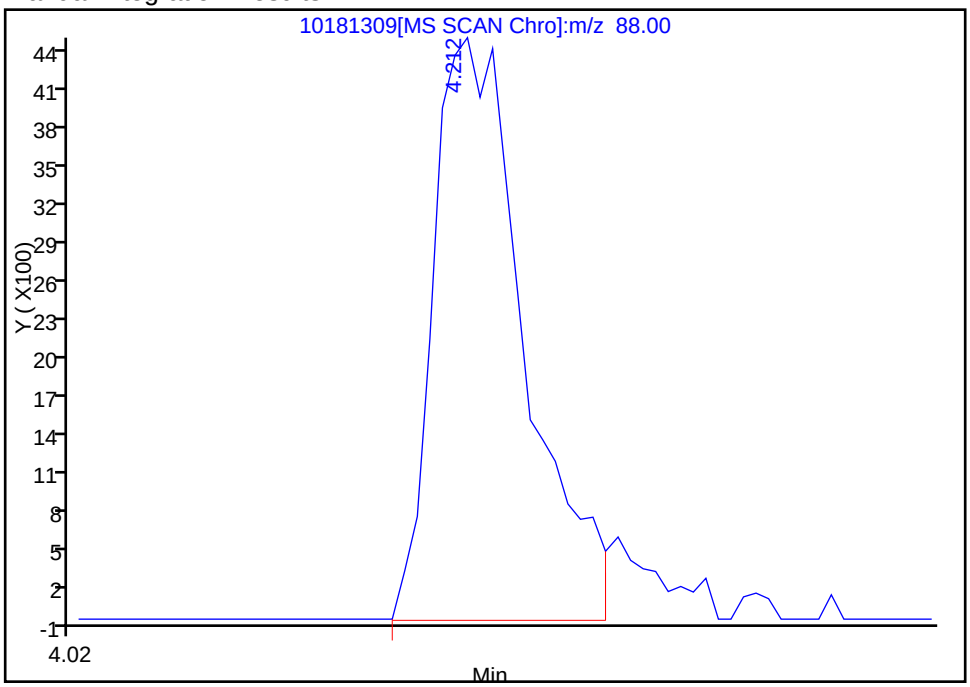
Processing Integration Results

RT: 4.21
Response: 7316
Amount: 222.1756



Manual Integration Results

RT: 4.21
Response: 13727
Amount: 370.6062



Reviewer: redmondj, 19-Oct-2013 19:38:53
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181310.D		
Lims ID:	std050	Client ID:	
Inject. Date:	18-Oct-2013 22:53:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	STD050		
Misc. Info.:	490-0026993-008		
Operator:	JJR	Instrument ID:	HP33
Purge Vol:	5.000 mL	ALS Bottle#:	10
Lims Batch ID:	115521	Lims Sample ID:	8
Sublist:	chrom-8260HP33*sub13		
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\8260HP33.m		
Last Update:	19-Oct-2013 19:53:36	Calib Date:	19-Oct-2013 00:14:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK030		

First Level Reviewer: redmondj Date: 19-Oct-2013 19:53:36

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.688	3.688	0.0	99	519995	30.0	
* 2 Chlorobenzene-d5	117	6.006	6.006	0.0	85	355525	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.142	8.142	0.0	94	173794	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.269	3.269	0.0	66	125360	30.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.506	3.506	0.0	76	143918	29.4	
$ 6 Toluene-d8 (Surr)	98	4.802	4.802	0.0	91	468031	29.5	
$ 7 4-Bromofluorobenzene (Surr)	95	7.059	7.059	0.0	88	177094	29.1	
9 Dichlorodifluoromethane	85	1.170	1.170	0.0	88	207149	44.9	
10 Chloromethane	50	1.292	1.292	0.0	89	190500	43.3	
11 Vinyl chloride	62	1.334	1.334	0.0	94	217797	45.8	
12 Butadiene	54	1.352	1.352	0.0	0	210303	46.2	
13 Bromomethane	96	1.511	1.511	0.0	90	67580	36.0	
14 Chloroethane	64	1.565	1.565	0.0	99	142090	42.8	
15 Dichlorofluoromethane	67	1.675	1.675	0.0	83	350201	46.0	
16 Trichlorofluoromethane	101	1.687	1.687	0.0	86	295928	47.3	
18 Ethyl ether	59	1.839	1.839	0.0	93	164126	47.2	
17 Ethanol	45	1.839	1.839	0.0	78	196421	2151.8	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.943	1.943	0.0	87	169830	45.7	
20 Acrolein	56	1.949	1.949	0.0	97	74022	109.6	
21 1,1-Dichloroethene	96	1.973	1.973	0.0	97	156923	46.4	
22 Acetone	58	2.028	2.028	0.0	99	88376	208.3	
23 Iodomethane	142	2.070	2.070	0.0	97	136795	44.2	
25 Isopropyl alcohol	45	2.095	2.095	0.0	7	85739	465.4	
26 Carbon disulfide	76	2.101	2.101	0.0	99	501830	44.1	
29 Acetonitrile	41	2.174	2.174	0.0	71	221463	471.7	
27 3-Chloro-1-propene	76	2.174	2.174	0.0	87	120546	45.3	
28 Methyl acetate	43	2.180	2.180	0.0	98	1027082	237.3	
30 Methylene Chloride	84	2.253	2.253	0.0	85	183724	44.8	
31 2-Methyl-2-propanol	59	2.301	2.301	0.0	97	143738	475.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
32 Methyl tert-butyl ether	73	2.362	2.362	0.0	88	555257	46.6	
33 trans-1,2-Dichloroethene	61	2.381	2.381	0.0	92	258055	45.8	
34 Acrylonitrile	53	2.423	2.423	0.0	97	812038	465.4	
35 Hexane	57	2.484	2.484	0.0	89	293618	43.6	
36 Isopropyl ether	45	2.618	2.618	0.0	95	676380	45.7	
37 1,1-Dichloroethane	63	2.636	2.636	0.0	84	353253	47.1	
38 Vinyl acetate	43	2.642	2.642	0.0	97	1033112	91.2	
39 2-Chloro-1,3-butadiene	53	2.666	2.666	0.0	91	304069	46.0	
40 Tert-butyl ethyl ether	59	2.825	2.825	0.0	99	614779	47.1	
41 2,2-Dichloropropane	77	2.965	2.965	0.0	93	272932	46.0	
42 cis-1,2-Dichloroethene	61	2.983	2.983	0.0	71	329501	46.7	
44 Ethyl acetate	43	2.995	2.995	0.0	92	671353	94.1	
43 2-Butanone (MEK)	72	2.995	2.995	0.0	97	122752	239.2	
45 Propionitrile	54	3.080	3.080	0.0	98	300445	470.9	
46 Chlorobromomethane	130	3.135	3.135	0.0	79	104215	47.6	
47 Methacrylonitrile	41	3.141	3.141	0.0	94	1447596	474.2	
48 Tetrahydrofuran	42	3.147	3.147	0.0	28	174364	85.3	
49 Chloroform	83	3.165	3.165	0.0	71	323161	45.0	
51 1,1,1-Trichloroethane	97	3.263	3.263	0.0	90	275490	46.7	
50 Cyclohexane	56	3.263	3.263	0.0	94	357206	45.7	
53 Carbon tetrachloride	117	3.348	3.348	0.0	82	228485	46.6	
54 1,1-Dichloropropene	75	3.366	3.366	0.0	94	246887	45.8	
55 Isobutyl alcohol	43	3.457	3.457	0.0	94	186329	435.3	
56 Benzene	78	3.500	3.500	0.0	98	773346	46.1	
58 Tert-amyl methyl ether	73	3.542	3.542	0.0	98	559223	47.6	
59 1,2-Dichloroethane	62	3.555	3.555	0.0	84	258980	47.7	
60 n-Heptane	43	3.597	3.597	0.0	92	321220	45.3	
61 n-Butanol	56	3.908	3.908	0.0	89	105457	1159.4	
62 Trichloroethene	130	3.926	3.926	0.0	94	193824	47.0	
63 Ethyl acrylate	55	4.005	4.005	0.0	0	552279	45.8	
64 Cyclohexanone	55	4.005	4.005	0.0	76	552279	457.6	
65 Methylcyclohexane	83	4.011	4.011	0.0	95	348123	46.0	
66 1,2-Dichloropropane	63	4.114	4.114	0.0	95	207099	47.3	
68 Methyl methacrylate	41	4.163	4.163	0.0	90	397529	92.8	
69 Dibromomethane	93	4.206	4.206	0.0	86	111797	47.3	
70 1,4-Dioxane	88	4.206	4.206	0.0	1	31464	856.6	
71 Dichlorobromomethane	83	4.303	4.303	0.0	93	245763	49.4	
72 2-Nitropropane	43	4.522	4.522	0.0	77	167717	81.8	
73 2-Chloroethyl vinyl ether	63	4.522	4.522	0.0	83	125730	49.3	
74 cis-1,3-Dichloropropene	75	4.638	4.638	0.0	90	291952	50.1	
75 4-Methyl-2-pentanone (MIBK)	58	4.747	4.747	0.0	97	375017	241.5	
76 Toluene	91	4.850	4.850	0.0	98	777913	46.6	
77 trans-1,3-Dichloropropene	75	5.082	5.082	0.0	95	251692	50.8	
78 Ethyl methacrylate	69	5.100	5.100	0.0	89	252546	49.3	
79 1,1,2-Trichloroethane	97	5.228	5.228	0.0	87	157558	47.6	
80 Tetrachloroethene	166	5.270	5.270	0.0	88	196269	45.7	
81 1,3-Dichloropropane	76	5.374	5.374	0.0	91	284984	47.2	
82 2-Hexanone	58	5.410	5.410	0.0	97	353742	247.6	
83 n-Butyl acetate	43	5.489	5.489	0.0	98	152309	49.7	
84 Chlorodibromomethane	127	5.532	5.532	0.0	89	135195	42.0	
85 Ethylene Dibromide	107	5.635	5.635	0.0	98	166345	47.6	
87 Chlorobenzene	112	6.031	6.031	0.0	94	516756	46.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
88 Ethylbenzene	91	6.091	6.091	0.0	99	904486	46.7	
89 1,1,1,2-Tetrachloroethane	131	6.104	6.104	0.0	84	181272	49.6	
90 m-Xylene & p-Xylene	91	6.195	6.195	0.0	98	698467	46.5	
91 o-Xylene	91	6.554	6.554	0.0	97	705791	53.8	
92 Styrene	104	6.578	6.578	0.0	95	597501	49.4	
93 Bromoform	173	6.767	6.767	0.0	96	118847	42.5	
94 Isopropylbenzene	105	6.870	6.870	0.0	96	904760	47.7	
95 Bromobenzene	77	7.186	7.186	0.0	94	346747	45.4	
96 1,1,2,2-Tetrachloroethane	83	7.229	7.229	0.0	79	212594	46.3	
97 N-Propylbenzene	91	7.253	7.253	0.0	97	1108776	46.4	
98 1,2,3-Trichloropropane	110	7.272	7.272	0.0	77	71707	45.7	
99 trans-1,4-Dichloro-2-butene	53	7.284	7.284	0.0	73	67466	43.4	
100 2-Chlorotoluene	91	7.357	7.357	0.0	96	629065	45.8	
101 1,3,5-Trimethylbenzene	105	7.430	7.430	0.0	85	761239	46.8	
102 4-Chlorotoluene	91	7.466	7.466	0.0	97	664726	46.1	
103 tert-Butylbenzene	119	7.716	7.716	0.0	88	659489	46.7	
105 1,2,4-Trimethylbenzene	105	7.783	7.783	0.0	98	782867	47.5	
106 sec-Butylbenzene	105	7.929	7.929	0.0	94	988980	47.5	
108 1,3-Dichlorobenzene	146	8.069	8.069	0.0	71	421550	46.7	
107 4-Isopropyltoluene	119	8.069	8.069	0.0	94	861047	47.8	
109 1,4-Dichlorobenzene	146	8.166	8.166	0.0	95	415727	45.3	
110 1,2,3-Trimethylbenzene	105	8.184	8.184	0.0	0	775484	46.7	
111 Benzyl chloride	91	8.300	8.300	0.0	99	387621	43.0	
112 n-Butylbenzene	91	8.464	8.464	0.0	97	753369	48.3	
113 1,2-Dichlorobenzene	146	8.519	8.519	0.0	96	384817	46.7	
114 1,2-Dibromo-3-Chloropropane	157	9.297	9.297	0.0	82	47077	42.3	
115 1,3,5-Trichlorobenzene	180	9.456	9.456	0.0	94	258585	48.4	
116 1,2,4-Trichlorobenzene	180	10.161	10.161	0.0	90	222696	48.2	
117 Hexachlorobutadiene	225	10.313	10.313	0.0	95	110065	44.4	
118 Naphthalene	128	10.459	10.459	0.0	97	657901	45.9	
119 1,2,3-Trichlorobenzene	180	10.757	10.757	0.0	93	199699	46.9	
S 134 Xylenes, Total	1				0		100.3	
S 135 1,2-Dichloroethene, Total	1				0		92.4	

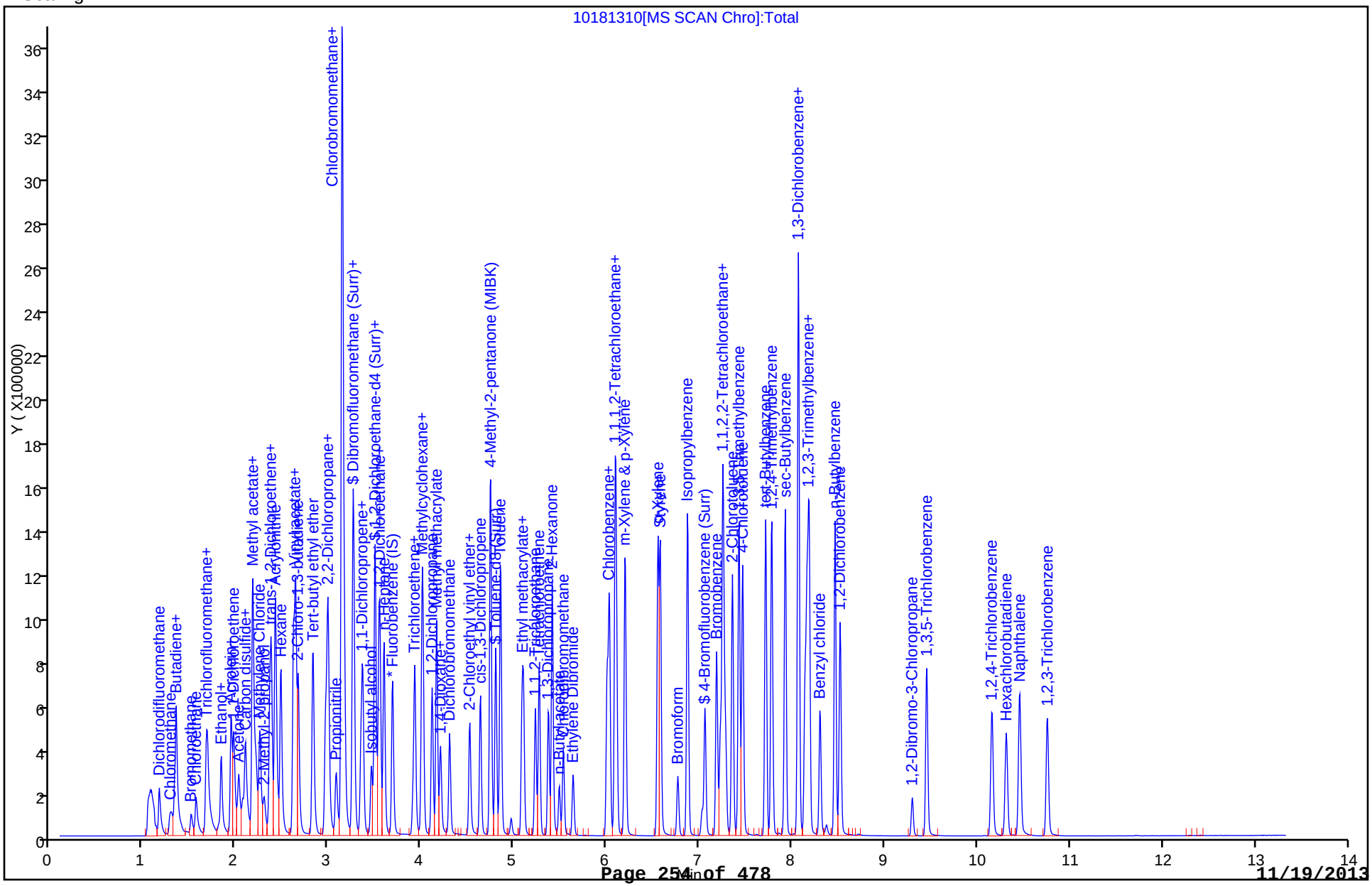
Report Date: 19-Oct-2013 19:53:37 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181310.D

Injection Date:	18-Oct-2013 22:53:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	8
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181312.D		
Lims ID:	std100	Client ID:	
Inject. Date:	18-Oct-2013 23:47:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	8
Sample ID:	STD100		
Misc. Info.:	490-0026993-010		
Operator:	JJR	Instrument ID:	HP33
Purge Vol:	5.000 mL	ALS Bottle#:	12
Lims Batch ID:	115521	Lims Sample ID:	10
Sublist:	chrom-8260HP33*sub13		
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\8260HP33.m		
Last Update:	19-Oct-2013 20:42:40	Calib Date:	19-Oct-2013 00:14:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK030		
First Level Reviewer: redmondj		Date:	19-Oct-2013 19:54:29

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.689	3.690	-0.001	99	503347	30.0	
* 2 Chlorobenzene-d5	117	6.007	6.002	0.005	83	347500	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.142	8.143	-0.001	93	168896	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.269	3.271	-0.002	61	121355	30.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.506	3.508	-0.002	70	142758	30.2	
$ 6 Toluene-d8 (Surr)	98	4.802	4.804	-0.002	91	462397	29.9	
$ 7 4-Bromofluorobenzene (Surr)	95	7.059	7.061	-0.002	88	172565	29.2	
9 Dichlorodifluoromethane	85	1.164	1.170	-0.006	88	511137	114.5	
10 Chloromethane	50	1.286	1.292	-0.006	89	485057	113.8	
11 Vinyl chloride	62	1.334	1.334	0.0	95	534324	116.0	
12 Butadiene	54	1.353	1.352	0.001	0	513971	116.7	
13 Bromomethane	96	1.505	1.511	-0.006	90	208748	104.8	
14 Chloroethane	64	1.560	1.565	-0.005	95	340027	110.0	
15 Dichlorofluoromethane	67	1.675	1.675	0.0	83	830329	112.8	
16 Trichlorofluoromethane	101	1.687	1.687	0.0	87	719719	118.8	
17 Ethanol	45	1.833	1.839	-0.006	90	469765	5297.9	
18 Ethyl ether	59	1.833	1.839	-0.006	96	388180	115.4	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.943	1.943	0.0	86	415105	115.3	
20 Acrolein	56	1.949	1.949	0.0	97	175253	268.1	
21 1,1-Dichloroethene	96	1.973	1.973	0.0	88	375677	114.7	
22 Acetone	58	2.028	2.028	0.0	99	214790	533.0	
23 Iodomethane	142	2.071	2.070	0.001	98	339021	108.6	
25 Isopropyl alcohol	45	2.095	2.095	0.0	71	195761	1097.8	
26 Carbon disulfide	76	2.095	2.101	-0.006	100	1213578	110.2	
29 Acetonitrile	41	2.174	2.174	0.0	71	509224	1003.8	
27 3-Chloro-1-propene	76	2.174	2.174	0.0	88	268195	104.2	
28 Methyl acetate	43	2.180	2.180	0.0	97	2326734	555.4	
30 Methylene Chloride	84	2.253	2.253	0.0	85	437743	110.4	
31 2-Methyl-2-propanol	59	2.302	2.301	0.001	97	326559	1116.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
32 Methyl tert-butyl ether	73	2.363	2.362	0.001	89	1301430	112.8	
33 trans-1,2-Dichloroethene	61	2.381	2.381	0.0	93	624157	114.3	
34 Acrylonitrile	53	2.423	2.423	0.0	99	1900185	1125.0	
35 Hexane	57	2.478	2.484	-0.006	89	716171	109.8	
36 Isopropyl ether	45	2.618	2.618	0.0	94	1584441	110.5	
37 1,1-Dichloroethane	63	2.636	2.636	0.0	85	852623	117.6	
38 Vinyl acetate	43	2.642	2.642	0.0	97	2378441	217.0	
39 2-Chloro-1,3-butadiene	53	2.667	2.666	0.001	92	733082	114.5	
40 Tert-butyl ethyl ether	59	2.825	2.825	0.0	98	1453895	115.0	
41 2,2-Dichloropropane	77	2.965	2.965	0.0	90	654736	114.1	
42 cis-1,2-Dichloroethene	61	2.983	2.983	0.0	70	786234	115.1	
44 Ethyl acetate	43	2.995	2.995	0.0	94	1569410	227.3	
43 2-Butanone (MEK)	72	2.995	2.995	0.0	97	283307	570.3	
45 Propionitrile	54	3.080	3.080	0.0	98	692378	1121.2	
46 Chlorobromomethane	130	3.135	3.135	0.0	51	247599	116.8	
47 Methacrylonitrile	41	3.147	3.141	0.006	93	3292660	1114.2	
48 Tetrahydrofuran	42	3.147	3.147	0.0	28	409801	207.2	
49 Chloroform	83	3.166	3.165	0.001	71	765761	110.2	
51 1,1,1-Trichloroethane	97	3.263	3.263	0.0	93	663590	116.3	
50 Cyclohexane	56	3.257	3.263	-0.006	93	875926	115.7	
53 Carbon tetrachloride	117	3.348	3.348	0.0	82	571187	120.3	
54 1,1-Dichloropropene	75	3.366	3.366	0.0	94	600081	115.0	
55 Isobutyl alcohol	43	3.458	3.457	0.001	94	428565	1088.6	
56 Benzene	78	3.494	3.500	-0.006	96	1841890	113.3	
58 Tert-amyl methyl ether	73	3.543	3.542	0.001	98	1324308	116.5	
59 1,2-Dichloroethane	62	3.555	3.555	0.0	84	608481	115.9	
60 n-Heptane	43	3.591	3.597	-0.006	92	775311	112.9	
61 n-Butanol	56	3.908	3.908	0.0	90	244496	2777.0	
62 Trichloroethene	130	3.926	3.926	0.0	94	462980	116.0	
63 Ethyl acrylate	55	4.005	4.005	0.0	0	1318604	112.9	
64 Cyclohexanone	55	4.005	4.005	0.0	76	1318604	1128.6	
65 Methylcyclohexane	83	4.011	4.011	0.0	95	853914	116.5	
66 1,2-Dichloropropane	63	4.115	4.114	0.001	95	488528	115.2	
68 Methyl methacrylate	41	4.163	4.163	0.0	90	939239	226.6	
69 Dibromomethane	93	4.206	4.206	0.0	90	266880	116.8	
70 1,4-Dioxane	88	4.212	4.206	0.006	69	70098	2086.5	
71 Dichlorobromomethane	83	4.303	4.303	0.0	93	599558	124.6	
72 2-Nitropropane	43	4.516	4.522	-0.006	80	417265	241.1	
73 2-Chloroethyl vinyl ether	63	4.522	4.522	0.0	81	294660	118.3	
74 cis-1,3-Dichloropropene	75	4.638	4.638	0.0	90	715178	125.5	
75 4-Methyl-2-pentanone (MIBK)	58	4.747	4.747	0.0	97	892843	588.3	
76 Toluene	91	4.851	4.850	0.001	98	1865807	114.4	
77 trans-1,3-Dichloropropene	75	5.082	5.082	0.0	94	617419	127.4	
78 Ethyl methacrylate	69	5.100	5.100	0.0	90	618185	123.4	
79 1,1,2-Trichloroethane	97	5.228	5.228	0.0	87	378287	116.8	
80 Tetrachloroethene	166	5.270	5.270	0.0	85	480832	114.5	
81 1,3-Dichloropropane	76	5.368	5.374	-0.006	92	675996	114.5	
82 2-Hexanone	58	5.410	5.410	0.0	97	849923	608.8	
83 n-Butyl acetate	43	5.483	5.489	-0.006	98	356509	120.2	
84 Chlorodibromomethane	127	5.532	5.532	0.0	88	341942	107.8	
85 Ethylene Dibromide	107	5.635	5.635	0.0	99	396859	116.1	
87 Chlorobenzene	112	6.031	6.031	0.0	94	1223619	113.6	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
88 Ethylbenzene	91	6.092	6.091	0.001	98	2171016	114.8	
89 1,1,1,2-Tetrachloroethane	131	6.104	6.104	0.0	85	446695	125.0	
90 m-Xylene & p-Xylene	91	6.195	6.195	0.0	99	1687537	114.9	
91 o-Xylene	91	6.554	6.554	0.0	97	1702638	117.1	
92 Styrene	104	6.578	6.578	0.0	95	1446577	122.3	
93 Bromoform	173	6.767	6.767	0.0	97	300076	108.5	
94 Isopropylbenzene	105	6.870	6.870	0.0	96	2172946	117.1	
95 Bromobenzene	77	7.187	7.186	0.001	94	826581	111.3	
96 1,1,2,2-Tetrachloroethane	83	7.229	7.229	0.0	89	499351	112.0	
97 N-Propylbenzene	91	7.254	7.253	0.001	97	2624182	113.0	
98 1,2,3-Trichloropropane	110	7.272	7.272	0.0	82	169760	111.2	
99 trans-1,4-Dichloro-2-butene	53	7.284	7.284	0.0	71	156665	117.4	
100 2-Chlorotoluene	91	7.357	7.357	0.0	96	1489900	111.7	
101 1,3,5-Trimethylbenzene	105	7.430	7.430	0.0	93	1804323	114.1	
102 4-Chlorotoluene	91	7.467	7.466	0.001	96	1598595	114.1	
103 tert-Butylbenzene	119	7.716	7.716	0.0	92	1590621	115.8	
105 1,2,4-Trimethylbenzene	105	7.783	7.783	0.0	97	1840960	114.8	
106 sec-Butylbenzene	105	7.929	7.929	0.0	94	2349985	116.2	
108 1,3-Dichlorobenzene	146	8.069	8.069	0.0	69	999699	114.0	
107 4-Isopropyltoluene	119	8.069	8.069	0.0	96	2081752	118.9	
109 1,4-Dichlorobenzene	146	8.166	8.166	0.0	94	1005016	112.7	
110 1,2,3-Trimethylbenzene	105	8.184	8.184	0.0	0	1827694	113.3	
111 Benzyl chloride	91	8.300	8.300	0.0	99	976649	108.2	
112 n-Butylbenzene	91	8.464	8.464	0.0	97	1824371	120.3	
113 1,2-Dichlorobenzene	146	8.519	8.519	0.0	96	918273	114.8	
114 1,2-Dibromo-3-Chloropropane	157	9.298	9.297	0.001	85	118650	108.2	
115 1,3,5-Trichlorobenzene	180	9.456	9.456	0.0	94	639007	123.1	
116 1,2,4-Trichlorobenzene	180	10.156	10.161	-0.005	93	550520	122.5	
117 Hexachlorobutadiene	225	10.314	10.313	0.001	96	274806	114.0	
118 Naphthalene	128	10.460	10.459	0.001	97	1599302	114.8	
119 1,2,3-Trichlorobenzene	180	10.758	10.757	0.001	93	504924	122.1	
S 134 Xylenes, Total	1				0		232.0	
S 135 1,2-Dichloroethene, Total	1				0		229.4	

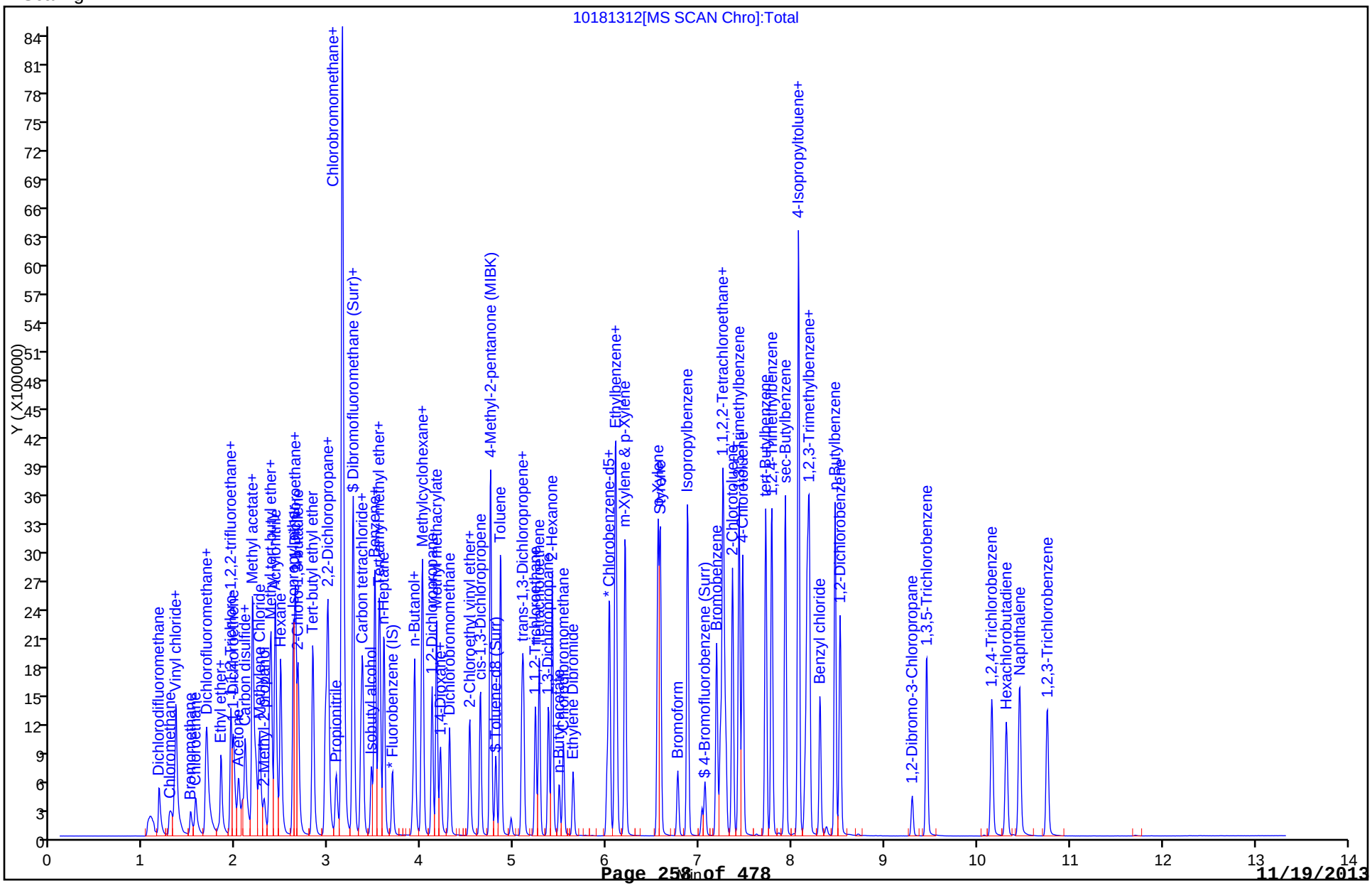
Report Date: 19-Oct-2013 20:42:41 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181312.D

Injection Date:	18-Oct-2013 23:47:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	10
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D		
Lims ID:	std200	Client ID:	
Inject. Date:	19-Oct-2013 00:14:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	9
Sample ID:	STD200		
Misc. Info.:	490-0026993-011		
Operator:	JJR	Instrument ID:	HP33
Purge Vol:	5.000 mL	ALS Bottle#:	13
Lims Batch ID:	115521	Lims Sample ID:	11
Sublist:	chrom-8260HP33*sub13		
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\8260HP33.m		
Last Update:	19-Oct-2013 20:29:47	Calib Date:	19-Oct-2013 00:14:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK030		
First Level Reviewer: redmondj		Date:	19-Oct-2013 20:29:19

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.684	3.688	-0.004	98	509359	30.0	
* 2 Chlorobenzene-d5	117	6.002	6.006	-0.004	85	366393	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.143	8.142	0.001	92	175725	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.270	3.269	0.001	58	123823	30.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.501	3.506	-0.005	44	144255	30.1	
$ 6 Toluene-d8 (Surr)	98	4.803	4.802	0.001	91	485885	29.8	
$ 7 4-Bromofluorobenzene (Surr)	95	7.060	7.059	0.001	82	182184	29.6	
9 Dichlorodifluoromethane	85	1.165	1.170	-0.005	89	923077	204.4	
10 Chloromethane	50	1.281	1.292	-0.011	89	949581	220.2	
11 Vinyl chloride	62	1.330	1.334	-0.004	79	997131	214.0	
12 Butadiene	54	1.348	1.352	-0.004	0	954630	214.2	
13 Bromomethane	96	1.500	1.511	-0.011	90	416597	201.3	
14 Chloroethane	64	1.555	1.565	-0.010	95	661093	211.4	
15 Dichlorofluoromethane	67	1.670	1.675	-0.005	82	1581012	212.2	
16 Trichlorofluoromethane	101	1.683	1.687	-0.004	87	1359058	221.6	
17 Ethanol	45	1.835	1.839	-0.004	80	911450	10146	
18 Ethyl ether	59	1.835	1.839	-0.004	94	732350	215.2	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.938	1.943	-0.005	86	784865	215.5	
20 Acrolein	56	1.944	1.949	-0.005	97	342035	517.0	
21 1,1-Dichloroethene	96	1.968	1.973	-0.005	89	728736	219.9	
22 Acetone	58	2.029	2.028	0.001	99	415248	1024.3	
23 Iodomethane	142	2.066	2.070	-0.004	98	636929	198.3	
25 Isopropyl alcohol	45	2.096	2.095	0.001	85	391309	2168.5	
26 Carbon disulfide	76	2.096	2.101	-0.005	100	2277834	204.4	
29 Acetonitrile	41	2.169	2.174	-0.005	71	860517	1676.3	
27 3-Chloro-1-propene	76	2.169	2.174	-0.005	90	517452	198.7	
28 Methyl acetate	43	2.175	2.180	-0.005	97	4359314	1028.2	
30 Methylene Chloride	84	2.254	2.253	0.001	84	838855	209.0	
31 2-Methyl-2-propanol	59	2.303	2.301	0.002	97	675315	2282.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
32 Methyl tert-butyl ether	73	2.364	2.362	0.002	92	2487341	213.1	
33 trans-1,2-Dichloroethene	61	2.376	2.381	-0.005	92	1192924	216.0	
34 Acrylonitrile	53	2.419	2.423	-0.004	97	3594080	2102.8	
35 Hexane	57	2.479	2.484	-0.005	89	1349065	204.4	
36 Isopropyl ether	45	2.619	2.618	0.001	96	3022531	208.3	
37 1,1-Dichloroethane	63	2.638	2.636	0.002	83	1634154	222.6	
38 Vinyl acetate	43	2.638	2.642	-0.004	97	4633060	417.7	
39 2-Chloro-1,3-butadiene	53	2.668	2.666	0.002	88	1402169	216.4	
40 Tert-butyl ethyl ether	59	2.826	2.825	0.001	98	2741504	214.3	
41 2,2-Dichloropropane	77	2.960	2.965	-0.005	90	1242907	214.0	
42 cis-1,2-Dichloroethene	61	2.984	2.983	0.001	70	1508655	218.2	
44 Ethyl acetate	43	2.997	2.995	0.002	94	2986014	427.4	
43 2-Butanone (MEK)	72	2.997	2.995	0.002	98	557413	1108.9	
45 Propionitrile	54	3.082	3.080	0.002	98	1337436	2140.2	
46 Chlorobromomethane	130	3.136	3.135	0.001	61	466208	217.3	
47 Methacrylonitrile	41	3.149	3.141	0.008	90	6020026	2013.1	
48 Tetrahydrofuran	42	3.149	3.147	0.002	28	807525	403.5	
49 Chloroform	83	3.167	3.165	0.002	81	1477167	210.1	
51 1,1,1-Trichloroethane	97	3.264	3.263	0.001	91	1274820	220.8	
50 Cyclohexane	56	3.258	3.263	-0.005	92	1671158	218.2	
53 Carbon tetrachloride	117	3.349	3.348	0.001	82	1100208	229.0	
54 1,1-Dichloropropene	75	3.362	3.366	-0.004	93	1146523	217.1	
55 Isobutyl alcohol	43	3.465	3.457	0.008	95	863397	2167.2	
56 Benzene	78	3.495	3.500	-0.005	97	3420951	208.0	
58 Tert-amyl methyl ether	73	3.544	3.542	0.002	97	2518675	218.9	
59 1,2-Dichloroethane	62	3.556	3.555	0.001	84	1154213	217.2	
60 n-Heptane	43	3.593	3.597	-0.004	91	1448617	208.5	
61 n-Butanol	56	3.909	3.908	0.001	90	497076	5579.2	
62 Trichloroethene	130	3.927	3.926	0.001	95	885601	219.3	
63 Ethyl acrylate	55	4.006	4.005	0.001	0	2527047	213.7	
64 Cyclohexanone	55	4.006	4.005	0.001	76	2527047	2137.4	
65 Methylcyclohexane	83	4.013	4.011	0.001	93	1613692	217.5	
66 1,2-Dichloropropane	63	4.116	4.114	0.002	95	930150	216.8	
68 Methyl methacrylate	41	4.165	4.163	0.002	89	1813822	432.4	
69 Dibromomethane	93	4.207	4.206	0.001	92	515833	223.0	
70 1,4-Dioxane	88	4.213	4.206	0.007	78	145123	4415.9	
71 Dichlorobromomethane	83	4.305	4.303	0.001	94	1165254	239.3	
73 2-Chloroethyl vinyl ether	63	4.524	4.522	0.002	80	582218	221.7	
72 2-Nitropropane	43	4.517	4.522	-0.005	80	861740	492.0	
74 cis-1,3-Dichloropropene	75	4.633	4.638	-0.005	90	1399105	232.8	
75 4-Methyl-2-pentanone (MIBK)	58	4.749	4.747	0.002	95	1837699	1148.4	
76 Toluene	91	4.852	4.850	0.002	98	3560031	207.0	
77 trans-1,3-Dichloropropene	75	5.083	5.082	0.001	94	1242219	243.2	
78 Ethyl methacrylate	69	5.101	5.100	0.001	90	1239572	234.6	
79 1,1,2-Trichloroethane	97	5.229	5.228	0.001	87	744532	218.1	
80 Tetrachloroethene	166	5.272	5.270	0.002	84	934012	211.0	
81 1,3-Dichloropropane	76	5.369	5.374	-0.005	92	1329803	213.7	
82 2-Hexanone	58	5.412	5.410	0.002	96	1753150	1190.9	
83 n-Butyl acetate	43	5.485	5.489	-0.004	98	724716	241.5	
84 Chlorodibromomethane	127	5.533	5.532	0.001	89	686721	204.7	
85 Ethylene Dibromide	107	5.637	5.635	0.002	98	777192	215.7	
87 Chlorobenzene	112	6.032	6.031	0.001	94	2379635	209.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
88 Ethylbenzene	91	6.093	6.091	0.002	98	4112676	206.2	
89 1,1,1,2-Tetrachloroethane	131	6.105	6.104	0.001	85	890231	236.3	
90 m-Xylene & p-Xylene	91	6.203	6.195	0.008	99	3208847	207.3	
91 o-Xylene	91	6.555	6.554	0.001	96	3277580	213.7	
92 Styrene	104	6.580	6.578	0.002	95	2814568	225.6	
93 Bromoform	173	6.768	6.767	0.001	97	599693	204.9	
94 Isopropylbenzene	105	6.872	6.870	0.002	97	4078380	208.4	
95 Bromobenzene	77	7.188	7.186	0.002	94	1610381	208.5	
96 1,1,2,2-Tetrachloroethane	83	7.231	7.229	0.002	89	988539	213.1	
97 N-Propylbenzene	91	7.255	7.253	0.002	97	4882314	202.0	
98 1,2,3-Trichloropropane	110	7.273	7.272	0.001	85	331738	208.9	
99 trans-1,4-Dichloro-2-butene	53	7.285	7.284	0.001	77	333285	240.0	
100 2-Chlorotoluene	91	7.358	7.357	0.001	96	2844280	205.0	
101 1,3,5-Trimethylbenzene	105	7.431	7.430	0.001	94	3441886	209.2	
102 4-Chlorotoluene	91	7.468	7.466	0.002	96	3060621	209.9	
103 tert-Butylbenzene	119	7.717	7.716	0.001	92	3020605	211.4	
105 1,2,4-Trimethylbenzene	105	7.784	7.783	0.001	97	3491387	209.3	
106 sec-Butylbenzene	105	7.930	7.929	0.001	95	4345036	206.5	
108 1,3-Dichlorobenzene	146	8.070	8.069	0.001	95	1919959	210.4	
107 4-Isopropyltoluene	119	8.070	8.069	0.001	95	3959267	217.3	
109 1,4-Dichlorobenzene	146	8.168	8.166	0.002	93	1928895	207.8	
110 1,2,3-Trimethylbenzene	105	8.186	8.184	0.002	0	3462603	206.4	
111 Benzyl chloride	91	8.301	8.300	0.001	99	1927845	200.0	
112 n-Butylbenzene	91	8.466	8.464	0.002	94	3456987	219.2	
113 1,2-Dichlorobenzene	146	8.520	8.519	0.001	96	1744748	209.6	
114 1,2-Dibromo-3-Chloropropane	157	9.299	9.297	0.002	86	231105	201.5	
115 1,3,5-Trichlorobenzene	180	9.457	9.456	0.001	97	1233324	228.3	
116 1,2,4-Trichlorobenzene	180	10.157	10.161	-0.004	94	1083526	231.8	
117 Hexachlorobutadiene	225	10.315	10.313	0.002	96	533753	212.8	
118 Naphthalene	128	10.455	10.459	-0.004	97	3086408	213.0	
119 1,2,3-Trichlorobenzene	180	10.759	10.757	0.002	93	983081	228.4	
S 134 Xylenes, Total	1				0		421.0	
S 135 1,2-Dichloroethene, Total	1				0		434.2	

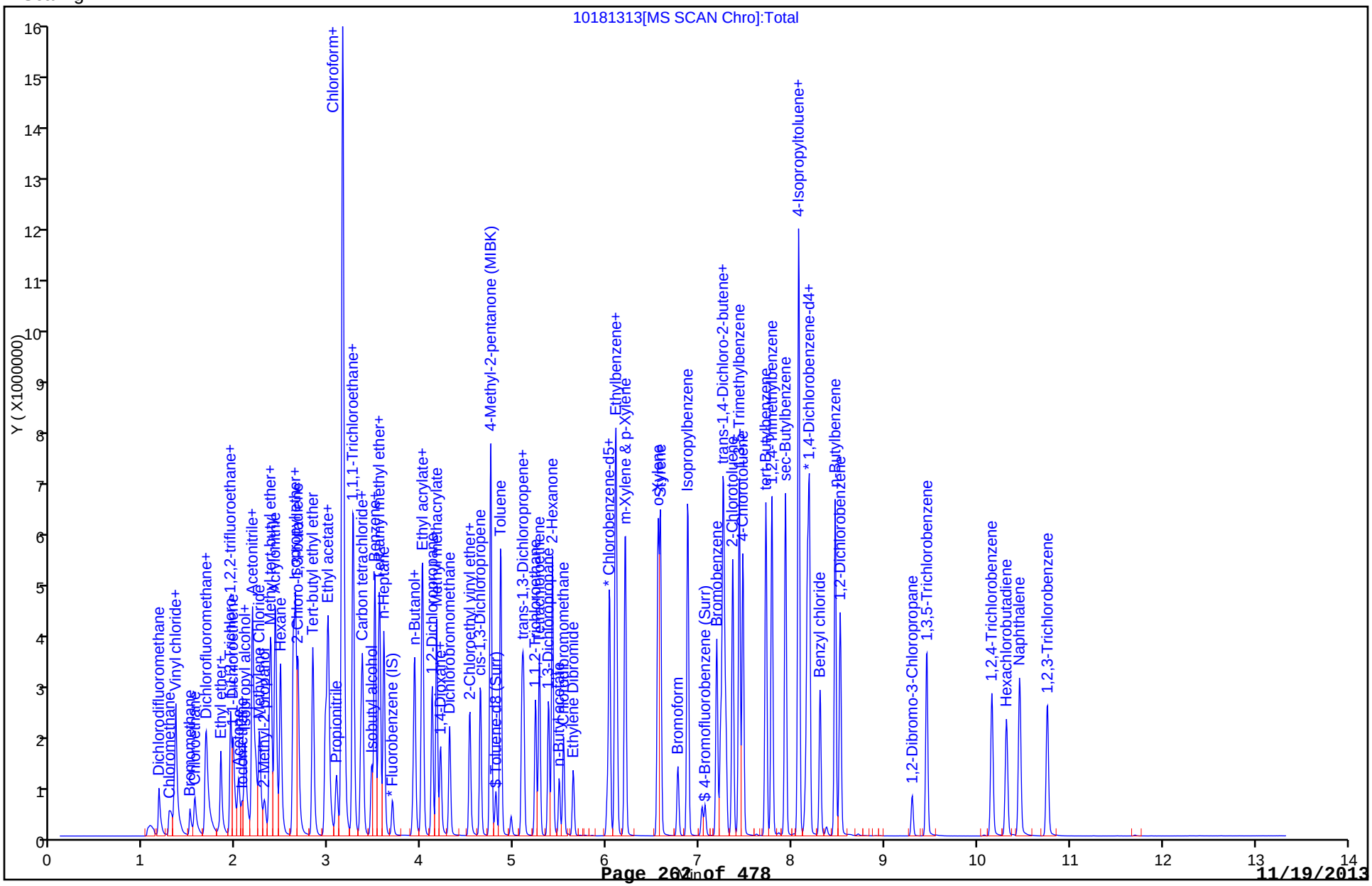
Report Date: 19-Oct-2013 20:29:47 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D

Injection Date:	19-Oct-2013 00:14:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	11
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Lab Sample ID: ICV 490-115521/9 Calibration Date: 10/18/2013 23:20

Instrument ID: HP33 Calib Start Date: 10/18/2013 20:11

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/19/2013 00:14

Lab File ID: 10181311.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2660	0.2505		47.1	50.0	-5.8	30.0
Chloromethane	Ave	0.2540	0.2192	0.1000	43.1	50.0	-13.7	30.0
Vinyl chloride	Ave	0.2744	0.2509		45.7	50.0	-8.6	30.0
Butadiene	Ave	0.2625	0.2379		45.3	50.0	-9.4	30.0
Bromomethane	Lin		0.0892		41.1	50.0	-17.9	30.0
Chloroethane	Ave	0.1842	0.1644		44.6	50.0	-10.7	30.0
Dichlorofluoromethane	Ave	0.4388	0.4066		46.3	50.0	-7.3	30.0
Trichlorofluoromethane	Ave	0.3611	0.3544		49.1	50.0	-1.9	30.0
Diethyl ether	Ave	0.2005	0.2090		52.1	50.0	4.2	30.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.2145	0.2107		49.1	50.0	-1.8	30.0
Acrolein	Ave	0.0390	0.0359		115	125	-7.9	30.0
1,1-Dichloroethene	Ave	0.1952	0.2025		51.9	50.0	3.7	30.0
Acetone	Lin1		0.0243		249	250	-0.3	30.0
Iodomethane	Lin1		0.1646		46.5	50.0	-7.0	30.0
Isopropyl alcohol	Ave	0.0106	0.0122		576	500	15.1	30.0
Carbon disulfide	Ave	0.6562	0.6468		49.3	50.0	-1.4	30.0
3-Chloro-1-propene	Ave	0.1534	0.1335		43.5	50.0	-13.0	30.0
Acetonitrile	Ave	0.0302	0.0266		440	500	-12.0	30.0
Methyl acetate	Ave	0.2497	0.2364		237	250	-5.3	30.0
Methylene Chloride	Ave	0.2363	0.2338		49.5	50.0	-1.1	30.0
tert-Butyl alcohol (TBA)	Ave	0.0174	0.0194		555	500	11.1	30.0
Methyl tert-butyl ether	Ave	0.6876	0.6916		50.3	50.0	0.6	30.0
trans-1,2-Dichloroethene	Ave	0.3253	0.3283		50.5	50.0	0.9	30.0
Acrylonitrile	Ave	0.1007	0.1021		507	500	1.4	30.0
Hexane	Ave	0.3888	0.3850		49.5	50.0	-1.0	30.0
Diisopropyl ether	Ave	0.8545	0.8704		50.9	50.0	1.9	30.0
1,1-Dichloroethane	Ave	0.4323	0.4500	0.1000	52.1	50.0	4.1	30.0
Vinyl acetate	Ave	0.6533	0.6994		107	100	7.1	30.0
Chloroprene	Ave	0.3816	0.3818		50.0	50.0	0.0	30.0
Ethyl tert-butyl ether	Ave	0.7536	0.7672		50.9	50.0	1.8	30.0
2,2-Dichloropropane	Ave	0.3421	0.3261		47.7	50.0	-4.7	30.0
cis-1,2-Dichloroethene	Ave	0.4072	0.4210		51.7	50.0	3.4	30.0
2-Butanone (MEK)	Ave	0.0296	0.0302		255	250	2.1	30.0
Ethyl acetate	Ave	0.4114	0.4579		111	100	11.3	30.0
Propionitrile	Ave	0.0368	0.0365		496	500	-0.9	30.0
Bromochloromethane	Ave	0.1264	0.1279		50.6	50.0	1.2	30.0
Methacrylonitrile	Ave	0.1761	0.1788		507	500	1.5	30.0
Tetrahydrofuran	Ave	0.1179	0.1072		91.0	100	-9.0	30.0
Chloroform	Ave	0.4140	0.4030		48.7	50.0	-2.7	30.0
Cyclohexane	Ave	0.4512	0.4437		49.2	50.0	-1.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Lab Sample ID: ICV 490-115521/9 Calibration Date: 10/18/2013 23:20

Instrument ID: HP33 Calib Start Date: 10/18/2013 20:11

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/19/2013 00:14

Lab File ID: 10181311.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Ave	0.3401	0.3404		50.1	50.0	0.1	30.0
Carbon tetrachloride	Ave	0.2829	0.2948		52.1	50.0	4.2	30.0
1,1-Dichloropropene	Ave	0.3110	0.3317		53.3	50.0	6.6	30.0
Isobutanol	Ave	0.0235	0.0248		528	500	5.7	30.0
Benzene	Ave	0.9688	0.9678		50.0	50.0	-0.1	30.0
Tert-amyl methyl ether	Ave	0.6775	0.7020		51.8	50.0	3.6	30.0
1,2-Dichloroethane	Ave	0.3130	0.3213		51.3	50.0	2.6	30.0
Heptane	Ave	0.4091	0.4057		49.6	50.0	-0.8	30.0
n-Butanol	Ave	0.0052	0.0062		1467	1250	17.3	30.0
Trichloroethene	Ave	0.2378	0.2467		51.9	50.0	3.7	30.0
Cyclohexanone	Ave	0.0696	0.0697		500	500	0.0	30.0
Ethyl acrylate	Ave	0.6963	0.6968		50.0	50.0	0.0	
Methylcyclohexane	Ave	0.4370	0.4368		50.0	50.0	-0.0	30.0
1,2-Dichloropropane	Ave	0.2527	0.2580		51.1	50.0	2.1	30.0
Methyl methacrylate	Ave	0.2471	0.2477		100	100	0.3	30.0
1,4-Dioxane	Lin2		0.0026		1275	1000	27.5	30.0
Dibromomethane	Ave	0.1362	0.1375		50.5	50.0	0.9	30.0
Bromodichloromethane	Ave	0.2869	0.2974		51.8	50.0	3.7	30.0
2-Nitropropane	Ave	0.1032	0.1008		97.7	100	-2.3	30.0
2-Chloroethyl vinyl ether	Ave	0.2150	0.2218		51.6	50.0	3.1	30.0
cis-1,3-Dichloropropene	Ave	0.4921	0.5439		55.3	50.0	10.5	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1310	0.1330		254	250	1.5	30.0
Toluene	Ave	1.408	1.425		50.6	50.0	1.2	30.0
trans-1,3-Dichloropropene	Ave	0.4183	0.4985		59.6	50.0	19.2	30.0
Ethyl methacrylate	Ave	0.4325	0.4688		54.2	50.0	8.4	30.0
1,1,2-Trichloroethane	Ave	0.2796	0.2877		51.5	50.0	2.9	30.0
Tetrachloroethene	Ave	0.3624	0.3639		50.2	50.0	0.4	30.0
1,3-Dichloropropane	Ave	0.5095	0.5145		50.5	50.0	1.0	30.0
2-Hexanone	Ave	0.1205	0.1276		265	250	5.9	30.0
n-Butyl acetate	Ave	0.1767	0.2436		68.9	50.0	37.9*	30.0
Chlorodibromomethane	Lin1		0.2518		46.4	50.0	-7.3	30.0
1,2-Dibromoethane (EDB)	Ave	0.2951	0.3020		51.2	50.0	2.4	30.0
Chlorobenzene	Ave	0.9303	0.9404	0.3000	50.5	50.0	1.1	30.0
Ethylbenzene	Ave	1.633	1.663		50.9	50.0	1.8	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3085	0.3383		54.8	50.0	9.6	30.0
m,p-Xylene	Ave	1.267	1.273		50.2	50.0	0.5	30.0
o-Xylene	Ave	1.256	1.298		51.7	50.0	3.4	30.0
Styrene	Ave	1.021	1.072		52.5	50.0	4.9	30.0
Bromoform	Lin1		0.2152	0.1000	45.6	50.0	-8.8	30.0
Isopropylbenzene	Ave	1.602	1.658		51.7	50.0	3.5	30.0
Bromobenzene	Ave	1.319	1.325		50.2	50.0	0.5	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Lab Sample ID: ICV 490-115521/9 Calibration Date: 10/18/2013 23:20

Instrument ID: HP33 Calib Start Date: 10/18/2013 20:11

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/19/2013 00:14

Lab File ID: 10181311.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,2,2-Tetrachloroethane	Ave	0.7921	0.8267	0.3000	52.2	50.0	4.4	30.0
N-Propylbenzene	Ave	4.126	4.248		51.5	50.0	2.9	30.0
1,2,3-Trichloropropane	Ave	0.2711	0.2765		51.0	50.0	2.0	30.0
trans-1,4-Dichloro-2-butene	Ave	0.2371	0.2574		54.3	50.0	8.6	30.0
2-Chlorotoluene	Ave	2.369	2.382		50.3	50.0	0.5	30.0
1,3,5-Trimethylbenzene	Ave	2.809	2.861		50.9	50.0	1.9	30.0
4-Chlorotoluene	Ave	2.489	2.516		50.5	50.0	1.1	30.0
tert-Butylbenzene	Ave	2.440	2.525		51.8	50.0	3.5	30.0
1,2,4-Trimethylbenzene	Ave	2.848	2.894		50.8	50.0	1.6	30.0
sec-Butylbenzene	Ave	3.593	3.730		51.9	50.0	3.8	30.0
1,3-Dichlorobenzene	Ave	1.558	1.594		51.2	50.0	2.3	30.0
p-Isopropyltoluene	Ave	3.111	3.241		52.1	50.0	4.2	30.0
1,4-Dichlorobenzene	Ave	1.585	1.608		50.8	50.0	1.5	30.0
1,2,3-Trimethylbenzene	Ave	2.865	2.918		50.9	50.0	1.9	30.0
Benzyl chloride	Lin1		0.6962		46.4	50.0	-7.1	30.0
n-Butylbenzene	Ave	2.693	2.838		52.7	50.0	5.4	30.0
1,2-Dichlorobenzene	Ave	1.421	1.461		51.4	50.0	2.8	30.0
1,2-Dibromo-3-Chloropropane	Lin1		0.1878		48.8	50.0	-2.3	30.0
1,3,5-Trichlorobenzene	Ave	0.9222	1.011		54.8	50.0	9.6	30.0
1,2,4-Trichlorobenzene	Ave	0.7981	0.8663		54.3	50.0	8.5	30.0
Hexachlorobutadiene	Ave	0.4281	0.4358		50.9	50.0	1.8	30.0
Naphthalene	Ave	2.474	2.632		53.2	50.0	6.4	30.0
1,2,3-Trichlorobenzene	Ave	0.7347	0.8118		55.2	50.0	10.5	30.0
Ethanol	Lin1					2500	-100.0*	30.0
Dibromofluoromethane (Surr)	Ave	0.2379	0.2383		30.1	30.0	0.2	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2822	0.2789		29.7	30.0	-1.2	30.0
Toluene-d8 (Surr)	Ave	1.337	1.325		29.7	30.0	-0.9	30.0
4-Bromofluorobenzene (Surr)	Ave	1.049	1.041		29.8	30.0	-0.8	30.0

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181311.D
Lims ID: icv Client ID:
Inject. Date: 18-Oct-2013 23:20:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: ICV
Misc. Info.: 490-0026993-009
Operator: JJR Instrument ID: HP33
Purge Vol: 5.000 mL ALS Bottle#: 11
Lims Batch ID: 115521 Lims Sample ID: 9
Sublist:
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP33\20131018-26993.b\8260HP33.m
Last Update: 19-Oct-2013 21:41:02 Calib Date: 19-Oct-2013 00:14:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK030

First Level Reviewer: redmondj Date: 19-Oct-2013 20:32:12

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.689	3.690	-0.001	98	505561	30.0	
* 2 Chlorobenzene-d5	117	6.007	6.002	0.005	84	343991	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.142	8.143	-0.001	94	163651	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.269	3.271	-0.002	64	120473	30.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.507	3.508	-0.001	84	141005	29.7	
$ 6 Toluene-d8 (Surr)	98	4.802	4.804	-0.002	91	455816	29.7	
$ 7 4-Bromofluorobenzene (Surr)	95	7.059	7.061	-0.002	88	170316	29.8	
9 Dichlorodifluoromethane	85	1.171	1.170	0.001	88	211039	47.1	
10 Chloromethane	50	1.292	1.292	0.0	88	184652	43.1	
11 Vinyl chloride	62	1.335	1.334	0.001	79	211418	45.7	
12 Butadiene	54	1.353	1.352	0.001	0	200421	45.3	
13 Bromomethane	96	1.511	1.511	0.0	90	75160	41.1	
14 Chloroethane	64	1.566	1.565	0.001	96	138537	44.6	
15 Dichlorofluoromethane	67	1.675	1.675	0.0	83	342632	46.3	
16 Trichlorofluoromethane	101	1.688	1.687	0.001	87	298608	49.1	
18 Ethyl ether	59	1.840	1.839	0.001	94	176081	52.1	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.943	1.943	0.0	86	177537	49.1	
20 Acrolein	56	1.949	1.949	0.0	86	75630	115.2	
21 1,1-Dichloroethene	96	1.974	1.973	0.001	86	170618	51.9	
22 Acetone	58	2.028	2.028	0.0	99	102285	249.2	
23 Iodomethane	142	2.071	2.070	0.001	98	138680	46.5	
25 Isopropyl alcohol	45	2.095	2.095	0.0	75	103094	575.6	
26 Carbon disulfide	76	2.101	2.101	0.0	100	544986	49.3	
29 Acetonitrile	41	2.174	2.174	0.0	73	224171	440.0	
27 3-Chloro-1-propene	76	2.174	2.174	0.0	89	112494	43.5	
28 Methyl acetate	43	2.180	2.180	0.0	98	996022	236.7	
30 Methylene Chloride	84	2.253	2.253	0.0	84	196956	49.5	
31 2-Methyl-2-propanol	59	2.302	2.301	0.001	94	163099	555.4	
32 Methyl tert-butyl ether	73	2.363	2.362	0.001	89	582770	50.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
33 trans-1,2-Dichloroethene	61	2.381	2.381	0.0	93	276661	50.5	
34 Acrylonitrile	53	2.424	2.423	0.001	97	860072	507.0	
35 Hexane	57	2.479	2.484	-0.006	89	324373	49.5	
36 Isopropyl ether	45	2.618	2.618	0.0	94	733412	50.9	
37 1,1-Dichloroethane	63	2.637	2.636	0.001	85	379156	52.0	
38 Vinyl acetate	43	2.643	2.642	0.001	97	1178658	107.1	
39 2-Chloro-1,3-butadiene	53	2.667	2.666	0.001	80	321703	50.0	
40 Tert-butyl ethyl ether	59	2.825	2.825	0.0	98	646428	50.9	
41 2,2-Dichloropropane	77	2.965	2.965	0.0	92	274800	47.7	
42 cis-1,2-Dichloroethene	61	2.983	2.983	0.0	70	354771	51.7	
44 Ethyl acetate	43	2.996	2.995	0.001	95	771691	111.3	
43 2-Butanone (MEK)	72	2.996	2.995	0.001	97	127377	255.3	
45 Propionitrile	54	3.081	3.080	0.001	98	307314	495.5	
46 Chlorobromomethane	130	3.136	3.135	0.001	80	107791	50.6	
47 Methacrylonitrile	41	3.142	3.141	0.001	94	1506111	507.4	
48 Tetrahydrofuran	42	3.148	3.147	0.001	28	180704	91.0	
49 Chloroform	83	3.166	3.165	0.001	71	339554	48.7	
51 1,1,1-Trichloroethane	97	3.263	3.263	0.0	91	286820	50.1	
50 Cyclohexane	56	3.257	3.263	-0.006	92	373857	49.2	
53 Carbon tetrachloride	117	3.348	3.348	0.0	81	248420	52.1	
54 1,1-Dichloropropene	75	3.367	3.366	0.001	94	279466	53.3	
55 Isobutyl alcohol	43	3.458	3.457	0.001	95	208924	528.3	
56 Benzene	78	3.494	3.500	-0.006	96	815439	49.9	
58 Tert-amyl methyl ether	73	3.543	3.542	0.001	99	591490	51.8	
59 1,2-Dichloroethane	62	3.555	3.555	0.0	84	270710	51.3	
60 n-Heptane	43	3.592	3.597	-0.005	92	341842	49.6	
61 n-Butanol	56	3.908	3.908	0.0	90	129686	1466.5	
62 Trichloroethene	130	3.926	3.926	0.0	94	207848	51.9	
63 Ethyl acrylate	55	4.005	4.005	0.0	0	587086	50.0	
64 Cyclohexanone	55	4.005	4.005	0.0	76	587086	500.3	
65 Methylcyclohexane	83	4.012	4.011	0.001	95	368043	50.0	
66 1,2-Dichloropropane	63	4.115	4.114	0.001	95	217360	51.0	
68 Methyl methacrylate	41	4.164	4.163	0.001	90	417429	100.3	
69 Dibromomethane	93	4.206	4.206	0.0	86	115821	50.4	
70 1,4-Dioxane	88	4.206	4.206	0.0	3	43459	1275.2	
71 Dichlorobromomethane	83	4.304	4.303	0.001	93	250586	51.8	
72 2-Nitropropane	43	4.516	4.522	-0.006	78	169799	97.7	
73 2-Chloroethyl vinyl ether	63	4.523	4.522	0.001	82	127133	51.6	
74 cis-1,3-Dichloropropene	75	4.638	4.638	0.0	90	311820	55.3	
75 4-Methyl-2-pentanone (MIBK)	58	4.742	4.747	-0.005	97	381276	253.8	
76 Toluene	91	4.851	4.850	0.001	98	816967	50.6	
77 trans-1,3-Dichloropropene	75	5.082	5.082	0.0	94	285792	59.6	
78 Ethyl methacrylate	69	5.100	5.100	0.0	89	268795	54.2	
79 1,1,2-Trichloroethane	97	5.228	5.228	0.0	87	164948	51.5	
80 Tetrachloroethene	166	5.271	5.270	0.001	85	208639	50.2	
81 1,3-Dichloropropane	76	5.368	5.374	-0.006	92	294953	50.5	
82 2-Hexanone	58	5.411	5.410	0.001	97	365758	264.6	
83 n-Butyl acetate	43	5.484	5.489	-0.005	98	205286	68.9	
84 Chlorodibromomethane	127	5.532	5.532	0.0	89	144381	46.4	
85 Ethylene Dibromide	107	5.636	5.635	0.001	99	173146	51.2	
87 Chlorobenzene	112	6.031	6.031	0.0	94	539148	50.5	
88 Ethylbenzene	91	6.092	6.091	0.001	98	953282	50.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
89 1,1,1,2-Tetrachloroethane	131	6.104	6.104	0.0	85	193932	54.8	
90 m-Xylene & p-Xylene	91	6.195	6.195	0.0	98	729973	50.2	
91 o-Xylene	91	6.554	6.554	0.0	97	744389	51.7	
92 Styrene	104	6.579	6.578	0.001	95	614585	52.5	
93 Bromoform	173	6.767	6.767	0.0	96	123351	45.6	
94 Isopropylbenzene	105	6.871	6.870	0.001	96	950472	51.7	
95 Bromobenzene	77	7.187	7.186	0.001	93	361402	50.2	
96 1,1,2,2-Tetrachloroethane	83	7.224	7.229	-0.005	87	225492	52.2	
97 N-Propylbenzene	91	7.254	7.253	0.001	93	1158572	51.5	
98 1,2,3-Trichloropropane	110	7.266	7.272	-0.006	81	75407	51.0	
99 trans-1,4-Dichloro-2-butene	53	7.284	7.284	0.0	71	70214	54.3	
100 2-Chlorotoluene	91	7.357	7.357	0.0	96	649596	50.3	
101 1,3,5-Trimethylbenzene	105	7.424	7.430	-0.006	84	780335	50.9	
102 4-Chlorotoluene	91	7.467	7.466	0.001	97	686234	50.5	
103 tert-Butylbenzene	119	7.716	7.716	0.0	93	688824	51.8	
105 1,2,4-Trimethylbenzene	105	7.783	7.783	0.0	98	789364	50.8	
106 sec-Butylbenzene	105	7.929	7.929	0.0	94	1017377	51.9	
108 1,3-Dichlorobenzene	146	8.069	8.069	0.0	69	434697	51.2	
107 4-Isopropyltoluene	119	8.069	8.069	0.0	94	884065	52.1	
109 1,4-Dichlorobenzene	146	8.160	8.166	-0.006	94	438691	50.8	
110 1,2,3-Trimethylbenzene	105	8.185	8.184	0.001	0	795788	50.9	
111 Benzyl chloride	91	8.300	8.300	0.0	99	399136	46.4	
112 n-Butylbenzene	91	8.465	8.464	0.001	98	773936	52.7	
113 1,2-Dichlorobenzene	146	8.519	8.519	0.0	96	398554	51.4	
114 1,2-Dibromo-3-Chloropropane	157	9.298	9.297	0.001	84	51232	48.8	
115 1,3,5-Trichlorobenzene	180	9.456	9.456	0.0	97	275756	54.8	
116 1,2,4-Trichlorobenzene	180	10.156	10.161	-0.005	94	236279	54.3	
117 Hexachlorobutadiene	225	10.314	10.313	0.001	96	118875	50.9	
118 Naphthalene	128	10.460	10.459	0.001	97	717930	53.2	
119 1,2,3-Trichlorobenzene	180	10.758	10.757	0.001	94	221412	55.2	
S 134 Xylenes, Total	1				0		101.9	
S 135 1,2-Dichloroethene, Total	1				0		102.2	

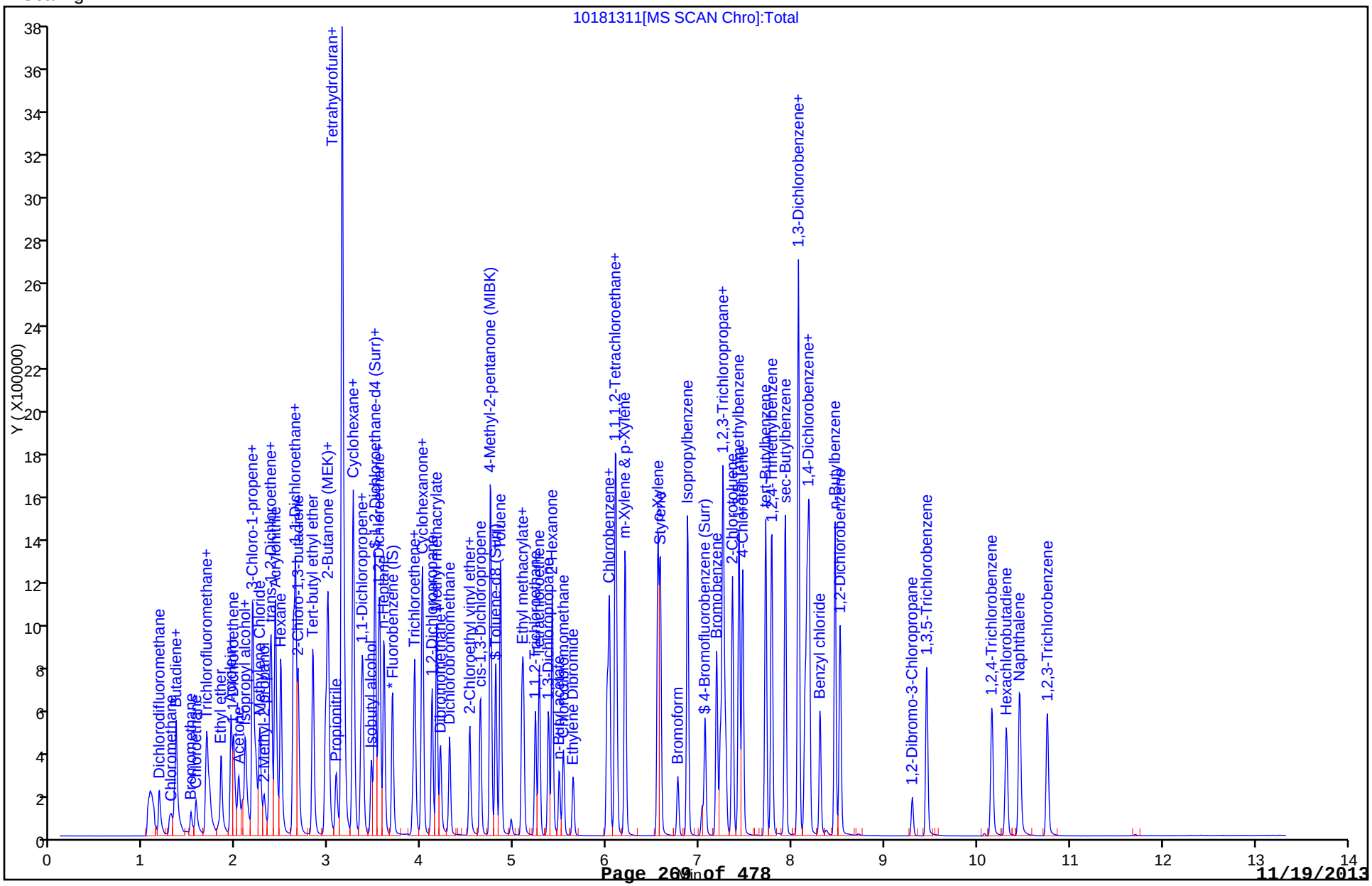
Report Date: 19-Oct-2013 21:41:03 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181311.D

Injection Date:	18-Oct-2013 23:20:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	9
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Lab Sample ID: CCVIS 490-121823/2 Calibration Date: 11/14/2013 09:16

Instrument ID: HP33 Calib Start Date: 10/18/2013 20:11

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/19/2013 00:14

Lab File ID: 11141302.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2660	0.2606		19.6	20.0	-2.0	20.0
Chloromethane	Ave	0.2540	0.2084	0.1000	16.4	20.0	-18.0	20.0
Vinyl chloride	Ave	0.2744	0.2505		18.3	20.0	-8.7	20.0
Butadiene	Ave	0.2625	0.2256		17.2	20.0	-14.0	20.0
Bromomethane	Lin		0.0951		20.6	20.0	3.2	20.0
Chloroethane	Ave	0.1842	0.1712		18.6	20.0	-7.0	20.0
Dichlorofluoromethane	Ave	0.4388	0.4015		18.3	20.0	-8.5	20.0
Trichlorofluoromethane	Ave	0.3611	0.3365		18.6	20.0	-6.8	20.0
Diethyl ether	Ave	0.2005	0.2030		20.3	20.0	1.2	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.2145	0.2316		21.6	20.0	8.0	20.0
Acrolein	Ave	0.0390	0.0326		41.8	50.0	-16.4	40.0
1,1-Dichloroethene	Ave	0.1952	0.2161		22.2	20.0	10.7	20.0
Acetone	Lin1		0.0231		90.9	100	-9.2	20.0
Iodomethane	Lin1		0.1465		19.0	20.0	-4.9	20.0
Ethanol	Lin1		0.0023		446	1000	-55.4*	40.0
Isopropyl alcohol	Ave	0.0106	0.0115		216	200	8.0	20.0
Carbon disulfide	Ave	0.6562	0.6282		19.1	20.0	-4.3	20.0
3-Chloro-1-propene	Ave	0.1534	0.1783		23.2	20.0	16.2	20.0
Acetonitrile	Ave	0.0302	0.0244		161	200	-19.3	20.0
Methyl acetate	Ave	0.2497	0.2029		81.2	100	-18.8	20.0
Methylene Chloride	Ave	0.2363	0.2446		20.7	20.0	3.5	20.0
tert-Butyl alcohol (TBA)	Ave	0.0174	0.0178		204	200	2.2	40.0
Methyl tert-butyl ether	Ave	0.6876	0.6689		19.5	20.0	-2.7	20.0
trans-1,2-Dichloroethene	Ave	0.3253	0.3219		19.8	20.0	-1.0	20.0
Acrylonitrile	Ave	0.1007	0.1007		200	200	0.0	20.0
Hexane	Ave	0.3888	0.3962		20.4	20.0	1.9	20.0
Diisopropyl ether	Ave	0.8545	0.8025		18.8	20.0	-6.1	20.0
1,1-Dichloroethane	Ave	0.4323	0.4380	0.1000	20.3	20.0	1.3	20.0
Vinyl acetate	Ave	0.6533	0.6760		41.4	40.0	3.5	40.0
Chloroprene	Ave	0.3816	0.3662		19.2	20.0	-4.0	20.0
Ethyl tert-butyl ether	Ave	0.7536	0.7177		19.1	20.0	-4.8	20.0
2,2-Dichloropropane	Ave	0.3421	0.3231		18.9	20.0	-5.5	20.0
cis-1,2-Dichloroethene	Ave	0.4072	0.4360		21.4	20.0	7.1	20.0
2-Butanone (MEK)	Ave	0.0296	0.0301		102	100	1.6	20.0
Ethyl acetate	Ave	0.4114	0.5031		48.9	40.0	22.3*	20.0
Propionitrile	Ave	0.0368	0.0389		211	200	5.6	20.0
Bromochloromethane	Ave	0.1264	0.1460		23.1	20.0	15.5	20.0
Methacrylonitrile	Ave	0.1761	0.1670		190	200	-5.2	20.0
Tetrahydrofuran	Ave	0.1179	0.1043		35.4	40.0	-11.5	20.0
Chloroform	Ave	0.4140	0.4182		20.2	20.0	1.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Lab Sample ID: CCVIS 490-121823/2 Calibration Date: 11/14/2013 09:16

Instrument ID: HP33 Calib Start Date: 10/18/2013 20:11

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/19/2013 00:14

Lab File ID: 11141302.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Cyclohexane	Ave	0.4512	0.4561		20.2	20.0	1.1	20.0
1,1,1-Trichloroethane	Ave	0.3401	0.3356		19.7	20.0	-1.3	20.0
Carbon tetrachloride	Ave	0.2829	0.2876		20.3	20.0	1.7	20.0
1,1-Dichloropropene	Ave	0.3110	0.3189		20.5	20.0	2.5	20.0
Isobutanol	Ave	0.0235	0.0236		201	200	0.3	20.0
Benzene	Ave	0.9688	1.022		21.1	20.0	5.4	20.0
Tert-amyl methyl ether	Ave	0.6775	0.6587		19.4	20.0	-2.8	20.0
1,2-Dichloroethane	Ave	0.3130	0.3137		20.0	20.0	0.2	20.0
Heptane	Ave	0.4091	0.4011		19.6	20.0	-2.0	20.0
n-Butanol	Ave	0.0052	0.0051		485	500	-3.0	20.0
Trichloroethene	Ave	0.2378	0.2576		21.7	20.0	8.3	20.0
Cyclohexanone	Ave	0.0696	0.0678		195	200	-2.7	20.0
Ethyl acrylate	Ave	0.6963	0.6776		19.5	20.0	-2.7	20.0
Methylcyclohexane	Ave	0.4370	0.4684		21.4	20.0	7.2	20.0
1,2-Dichloropropane	Ave	0.2527	0.2596		20.6	20.0	2.7	20.0
Methyl methacrylate	Ave	0.2471	0.2250		36.4	40.0	-8.9	20.0
Dibromomethane	Ave	0.1362	0.1438		21.1	20.0	5.5	20.0
1,4-Dioxane	Lin2		0.0021		400	400	-0.0	20.0
Bromodichloromethane	Ave	0.2869	0.2949		20.6	20.0	2.8	20.0
2-Nitropropane	Ave	0.1032	0.1218		47.2	40.0	18.1	20.0
2-Chloroethyl vinyl ether	Ave	0.2150	0.2409		22.4	20.0	12.0	20.0
cis-1,3-Dichloropropene	Ave	0.4921	0.5497		22.3	20.0	11.7	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1310	0.1436		110	100	9.6	20.0
Toluene	Ave	1.408	1.570		22.3	20.0	11.4	20.0
trans-1,3-Dichloropropene	Ave	0.4183	0.4213		20.2	20.0	0.7	20.0
Ethyl methacrylate	Ave	0.4325	0.4854		22.4	20.0	12.2	20.0
1,1,2-Trichloroethane	Ave	0.2796	0.3026		21.7	20.0	8.2	20.0
Tetrachloroethene	Ave	0.3624	0.4032		22.3	20.0	11.2	20.0
1,3-Dichloropropane	Ave	0.5095	0.5194		20.4	20.0	1.9	20.0
2-Hexanone	Ave	0.1205	0.1211		101	100	0.5	20.0
n-Butyl acetate	Ave	0.1767	0.2985		33.8	20.0	68.9*	20.0
Chlorodibromomethane	Lin1		0.2334		17.6	20.0	-11.9	20.0
1,2-Dibromoethane (EDB)	Ave	0.2951	0.3083		20.9	20.0	4.5	20.0
Chlorobenzene	Ave	0.9303	0.9937	0.3000	21.4	20.0	6.8	20.0
Ethylbenzene	Ave	1.633	1.673		20.5	20.0	2.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3085	0.3277		21.3	20.0	6.2	20.0
m,p-Xylene	Ave	1.267	1.263		19.9	20.0	-0.3	20.0
o-Xylene	Ave	1.256	1.293		20.6	20.0	2.9	20.0
Styrene	Ave	1.021	1.105		21.6	20.0	8.2	20.0
Bromoform	Lin1		0.2065	0.1000	18.1	20.0	-9.8	20.0
Isopropylbenzene	Ave	1.602	1.687		21.1	20.0	5.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Lab Sample ID: CCVIS 490-121823/2 Calibration Date: 11/14/2013 09:16

Instrument ID: HP33 Calib Start Date: 10/18/2013 20:11

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/19/2013 00:14

Lab File ID: 11141302.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Bromobenzene	Ave	1.319	1.253		19.0	20.0	-5.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7921	0.8300	0.3000	21.0	20.0	4.8	20.0
N-Propylbenzene	Ave	4.126	4.225		20.5	20.0	2.4	20.0
1,2,3-Trichloropropane	Ave	0.2711	0.2695		19.9	20.0	-0.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2371	0.1971		16.6	20.0	-16.9	20.0
2-Chlorotoluene	Ave	2.369	2.378		20.1	20.0	0.4	20.0
1,3,5-Trimethylbenzene	Ave	2.809	2.926		20.8	20.0	4.2	20.0
4-Chlorotoluene	Ave	2.489	2.597		20.9	20.0	4.3	20.0
tert-Butylbenzene	Ave	2.440	2.576		21.1	20.0	5.6	20.0
1,2,4-Trimethylbenzene	Ave	2.848	2.929		20.6	20.0	2.9	20.0
sec-Butylbenzene	Ave	3.593	3.774		21.0	20.0	5.0	20.0
1,3-Dichlorobenzene	Ave	1.558	1.693		21.7	20.0	8.7	20.0
p-Isopropyltoluene	Ave	3.111	3.299		21.2	20.0	6.1	20.0
1,4-Dichlorobenzene	Ave	1.585	1.736		21.9	20.0	9.6	20.0
1,2,3-Trimethylbenzene	Ave	2.865	2.894		20.2	20.0	1.0	20.0
Benzyl chloride	Lin1		0.5466		16.6	20.0	-16.8	20.0
n-Butylbenzene	Ave	2.693	2.743		20.4	20.0	1.9	20.0
1,2-Dichlorobenzene	Ave	1.421	1.556		21.9	20.0	9.5	20.0
1,2-Dibromo-3-Chloropropane	Lin1		0.1699		18.4	20.0	-8.0	20.0
1,3,5-Trichlorobenzene	Ave	0.9222	1.004		21.8	20.0	8.8	20.0
1,2,4-Trichlorobenzene	Ave	0.7981	0.8329		20.9	20.0	4.4	20.0
Hexachlorobutadiene	Ave	0.4281	0.4524		21.1	20.0	5.7	20.0
Naphthalene	Ave	2.474	2.259		18.3	20.0	-8.7	20.0
1,2,3-Trichlorobenzene	Ave	0.7347	0.7839		21.3	20.0	6.7	20.0
Dibromofluoromethane (Surr)	Ave	0.2379	0.2382		30.0	30.0	0.1	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2822	0.2583		27.5	30.0	-8.5	30.0
Toluene-d8 (Surr)	Ave	1.337	1.386		31.1	30.0	3.7	30.0
4-Bromofluorobenzene (Surr)	Ave	1.049	0.9713		27.8	30.0	-7.4	30.0

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP33\20131114-28420.b\11141302.D
Lims ID: ccvis Lab Sample ID:
Client ID:
Sample Type: CCVIS
Inject. Date: 14-Nov-2013 09:16:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 490-0028420-002
Operator ID: JJR Instrument ID: HP33
Sublist: chrom-8260HP33*sub13

Method: \\Nvlchrom\ChromData\HP33\20131114-28420.b\8260HP33.m
Limit Group: MSV 8260B ICAL
Last Update: 14-Nov-2013 09:35:23 Calib Date: 19-Oct-2013 00:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D

Column 1 : Detector MS SCAN
Process Host: XAWRK035

First Level Reviewer: redmondj Date: 14-Nov-2013 09:35:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.686	3.686	0.0	99	476710	30.0	
* 2 Chlorobenzene-d5	117	6.004	6.004	0.0	83	327966	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.139	8.139	0.0	94	156476	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.272	3.272	0.0	82	113549	30.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.503	3.503	0.0	92	123118	27.5	
$ 6 Toluene-d8 (Surr)	98	4.799	4.799	0.0	91	454622	31.1	
$ 7 4-Bromofluorobenzene (Surr)	95	7.062	7.062	0.0	93	151980	27.8	
9 Dichlorodifluoromethane	85	1.167	1.167	0.0	87	82817	19.6	
10 Chloromethane	50	1.295	1.295	0.0	100	66228	16.4	
11 Vinyl chloride	62	1.338	1.338	0.0	94	79609	18.3	
12 Butadiene	54	1.350	1.350	0.0	0	71705	17.2	
13 Bromomethane	96	1.514	1.514	0.0	90	30223	20.6	
14 Chloroethane	64	1.569	1.569	0.0	94	54419	18.6	
15 Dichlorofluoromethane	67	1.678	1.678	0.0	82	127599	18.3	
16 Trichlorofluoromethane	101	1.690	1.690	0.0	86	106954	18.6	
18 Ethyl ether	59	1.836	1.836	0.0	92	64506	20.2	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.940	1.940	0.0	87	73616	21.6	
20 Acrolein	56	1.946	1.946	0.0	45	25883	41.8	
21 1,1-Dichloroethene	96	1.976	1.976	0.0	90	68692	22.1	
22 Acetone	58	2.031	2.031	0.0	98	36757	90.8	
23 Iodomethane	142	2.068	2.068	0.0	98	46542	19.0	
17 Ethanol	45	2.092	2.092	0.0	1	36477	446.0	
25 Isopropyl alcohol	45	2.092	2.092	0.0	9	36477	216.0	
26 Carbon disulfide	76	2.098	2.098	0.0	99	199632	19.1	
27 3-Chloro-1-propene	76	2.171	2.171	0.0	90	56653	23.2	
29 Acetonitrile	41	2.177	2.177	0.0	71	77507	161.3	
28 Methyl acetate	43	2.177	2.177	0.0	97	322343	81.2	
30 Methylene Chloride	84	2.256	2.256	0.0	82	77726	20.7	
31 2-Methyl-2-propanol	59	2.299	2.299	0.0	96	56614	204.4	
32 Methyl tert-butyl ether	73	2.360	2.360	0.0	88	212590	19.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
33 trans-1,2-Dichloroethene	61	2.378	2.378	0.0	95	102310	19.8	
34 Acrylonitrile	53	2.420	2.420	0.0	98	319987	200.0	
35 Hexane	57	2.481	2.481	0.0	88	125907	20.4	
36 Isopropyl ether	45	2.615	2.615	0.0	94	255045	18.8	
38 Vinyl acetate	43	2.639	2.639	0.0	97	429701	41.4	
37 1,1-Dichloroethane	63	2.639	2.639	0.0	84	139211	20.3	
39 2-Chloro-1,3-butadiene	53	2.670	2.670	0.0	88	116370	19.2	
40 Tert-butyl ethyl ether	59	2.828	2.828	0.0	98	228089	19.0	
41 2,2-Dichloropropane	77	2.962	2.962	0.0	92	102684	18.9	
42 cis-1,2-Dichloroethene	61	2.980	2.980	0.0	84	138577	21.4	
44 Ethyl acetate	43	2.992	2.992	0.0	94	319799	48.9	
43 2-Butanone (MEK)	72	2.992	2.992	0.0	94	47781	101.6	
45 Propionitrile	54	3.077	3.077	0.0	100	123522	211.2	
46 Chlorobromomethane	130	3.132	3.132	0.0	76	46400	23.1	
47 Methacrylonitrile	41	3.144	3.144	0.0	92	530578	189.6	
48 Tetrahydrofuran	42	3.144	3.144	0.0	66	66291	35.4	
49 Chloroform	83	3.163	3.163	0.0	78	132894	20.2	
50 Cyclohexane	56	3.260	3.260	0.0	90	144945	20.2	
51 1,1,1-Trichloroethane	97	3.266	3.266	0.0	90	106644	19.7	
53 Carbon tetrachloride	117	3.345	3.345	0.0	90	91415	20.3	
54 1,1-Dichloropropene	75	3.369	3.369	0.0	97	101337	20.5	
55 Isobutyl alcohol	43	3.461	3.461	0.0	96	74829	200.7	
56 Benzene	78	3.497	3.497	0.0	96	324650	21.1	
58 Tert-amyl methyl ether	73	3.540	3.540	0.0	96	209340	19.4	
59 1,2-Dichloroethane	62	3.552	3.552	0.0	96	99700	20.0	
60 n-Heptane	43	3.595	3.595	0.0	91	127461	19.6	
61 n-Butanol	56	3.911	3.911	0.0	87	40434	484.9	
62 Trichloroethene	130	3.929	3.929	0.0	94	81879	21.7	
63 Ethyl acrylate	55	4.008	4.008	0.0	0	215346	19.5	
64 Cyclohexanone	55	4.008	4.008	0.0	75	215346	194.6	
65 Methylcyclohexane	83	4.014	4.014	0.0	93	148847	21.4	
66 1,2-Dichloropropane	63	4.118	4.118	0.0	96	82501	20.5	
68 Methyl methacrylate	41	4.166	4.166	0.0	88	143004	36.4	
69 Dibromomethane	93	4.203	4.203	0.0	86	45685	21.1	
70 1,4-Dioxane	88	4.209	4.209	0.0	1	13558	399.8	
71 Dichlorobromomethane	83	4.306	4.306	0.0	99	93722	20.6	
72 2-Nitropropane	43	4.519	4.519	0.0	87	77411	47.2	
73 2-Chloroethyl vinyl ether	63	4.525	4.525	0.0	83	52667	22.4	
74 cis-1,3-Dichloropropene	75	4.635	4.635	0.0	92	120186	22.3	
75 4-Methyl-2-pentanone (MIBK)	58	4.744	4.744	0.0	97	157001	109.6	
76 Toluene	91	4.854	4.854	0.0	98	343173	22.3	
77 trans-1,3-Dichloropropene	75	5.085	5.085	0.0	92	92124	20.1	
78 Ethyl methacrylate	69	5.103	5.103	0.0	90	106126	22.4	
79 1,1,2-Trichloroethane	97	5.231	5.231	0.0	91	66153	21.6	
80 Tetrachloroethene	166	5.267	5.267	0.0	86	88151	22.2	
81 1,3-Dichloropropane	76	5.371	5.371	0.0	90	113557	20.4	
82 2-Hexanone	58	5.414	5.414	0.0	97	132392	100.5	
83 n-Butyl acetate	43	5.487	5.487	0.0	98	94851	33.8	
84 Chlorodibromomethane	127	5.535	5.535	0.0	88	51021	17.6	
85 Ethylene Dibromide	107	5.639	5.639	0.0	97	67409	20.9	
87 Chlorobenzene	112	6.028	6.028	0.0	95	217259	21.4	
88 Ethylbenzene	91	6.089	6.089	0.0	98	365742	20.5	

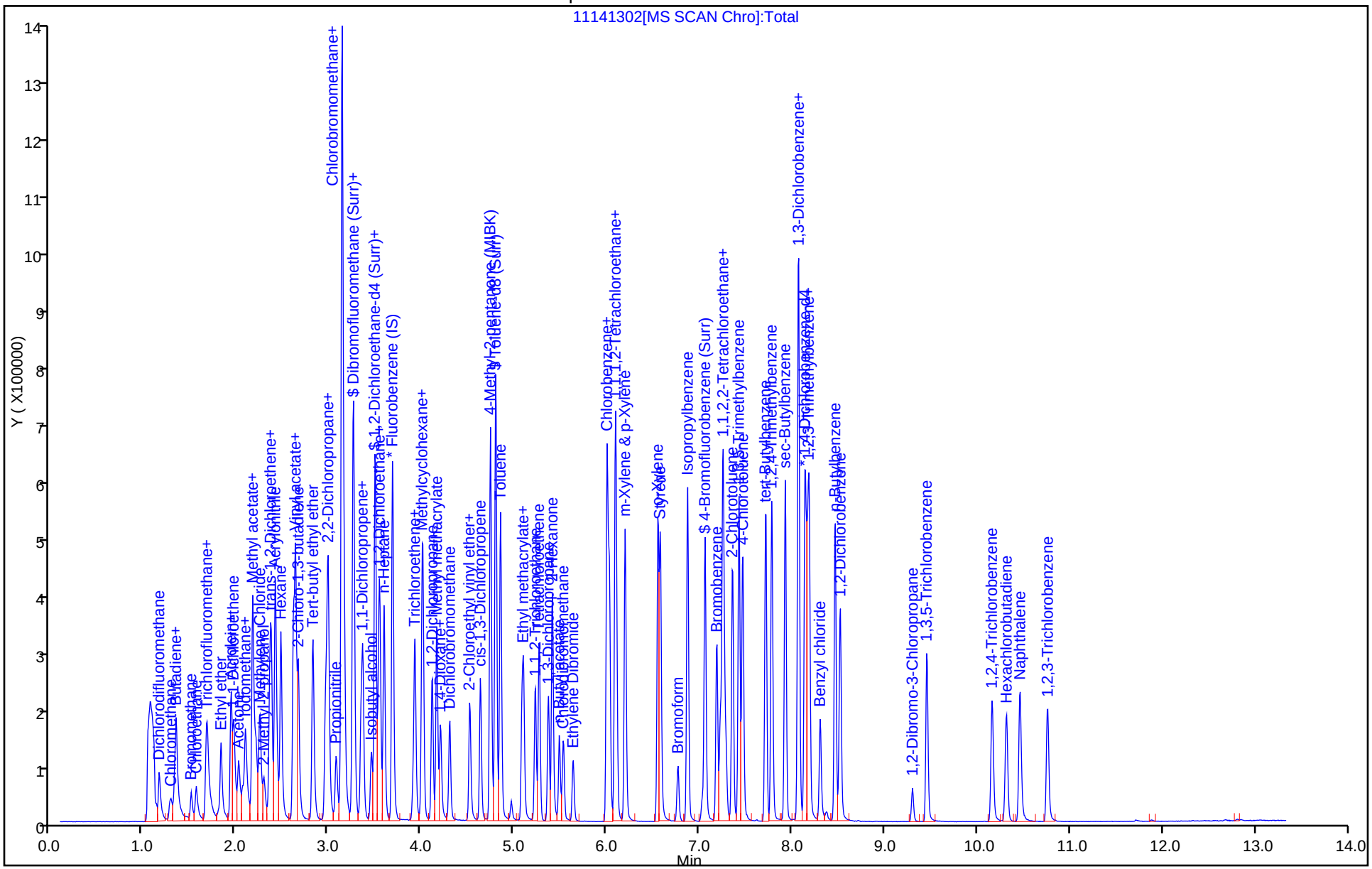
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
89 1,1,1,2-Tetrachloroethane	131	6.107	6.107	0.0	87	71659	21.2	
90 m-Xylene & p-Xylene	91	6.198	6.198	0.0	99	276174	19.9	
91 o-Xylene	91	6.551	6.551	0.0	96	282622	20.6	
92 Styrene	104	6.582	6.582	0.0	95	241660	21.6	
93 Bromoform	173	6.770	6.770	0.0	97	45149	18.0	
94 Isopropylbenzene	105	6.874	6.874	0.0	95	368910	21.1	
95 Bromobenzene	77	7.190	7.190	0.0	90	130679	19.0	
96 1,1,2,2-Tetrachloroethane	83	7.226	7.226	0.0	80	86581	21.0	
97 N-Propylbenzene	91	7.251	7.251	0.0	98	440772	20.5	
98 1,2,3-Trichloropropane	110	7.269	7.269	0.0	76	28117	19.9	
99 trans-1,4-Dichloro-2-butene	53	7.287	7.287	0.0	49	20563	16.6	
100 2-Chlorotoluene	91	7.360	7.360	0.0	97	248076	20.1	
101 1,3,5-Trimethylbenzene	105	7.427	7.427	0.0	85	305228	20.8	
102 4-Chlorotoluene	91	7.470	7.470	0.0	97	270927	20.9	
103 tert-Butylbenzene	119	7.719	7.719	0.0	90	268683	21.1	
105 1,2,4-Trimethylbenzene	105	7.780	7.780	0.0	97	305581	20.6	
106 sec-Butylbenzene	105	7.926	7.926	0.0	93	393658	21.0	
108 1,3-Dichlorobenzene	146	8.072	8.072	0.0	70	176594	21.7	
107 4-Isopropyltoluene	119	8.072	8.072	0.0	95	344158	21.2	
109 1,4-Dichlorobenzene	146	8.163	8.163	0.0	96	181110	21.9	
110 1,2,3-Trimethylbenzene	105	8.188	8.188	0.0	0	301887	20.2	
111 Benzyl chloride	91	8.303	8.303	0.0	98	119500	16.6	
112 n-Butylbenzene	91	8.467	8.467	0.0	97	286160	20.4	
113 1,2-Dichlorobenzene	146	8.522	8.522	0.0	98	162307	21.9	
114 1,2-Dibromo-3-Chloropropane	157	9.301	9.301	0.0	80	17725	18.4	
115 1,3,5-Trichlorobenzene	180	9.459	9.459	0.0	98	104697	21.8	
116 1,2,4-Trichlorobenzene	180	10.159	10.159	0.0	93	86885	20.9	
117 Hexachlorobutadiene	225	10.317	10.317	0.0	95	47196	21.1	
118 Naphthalene	128	10.463	10.463	0.0	97	235702	18.3	
119 1,2,3-Trichlorobenzene	180	10.755	10.755	0.0	94	81779	21.3	
S 134 Xylenes, Total	1				0		40.5	
S 135 1,2-Dichloroethene, Total	1				0		41.2	

Report Date: 14-Nov-2013 09:35:24 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131114-28420.b\11141302.D

Injection Date:	14-Nov-2013 09:16:30	Instrument ID:	HP33	Operator ID:	JJR
Lims ID:	ccvis	Lab Sample ID:		Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260HP33	Limit Group:	MSV 8260B ICAL		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Lab Sample ID: CCVIS 490-121948/2 Calibration Date: 11/14/2013 21:53

Instrument ID: HP33 Calib Start Date: 10/18/2013 20:11

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/19/2013 00:14

Lab File ID: 11141329.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2660	0.2563		19.3	20.0	-3.6	20.0
Chloromethane	Ave	0.2540	0.1997	0.1000	15.7	20.0	-21.4*	20.0
Vinyl chloride	Ave	0.2744	0.2551		18.6	20.0	-7.0	20.0
Butadiene	Ave	0.2625	0.2324		17.7	20.0	-11.4	20.0
Bromomethane	Lin		0.0700		16.6	20.0	-16.9	20.0
Chloroethane	Ave	0.1842	0.1658		18.0	20.0	-10.0	20.0
Dichlorofluoromethane	Ave	0.4388	0.4036		18.4	20.0	-8.0	20.0
Trichlorofluoromethane	Ave	0.3611	0.3358		18.6	20.0	-7.0	20.0
Diethyl ether	Ave	0.2005	0.2014		20.1	20.0	0.5	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.2145	0.2308		21.5	20.0	7.6	20.0
Acrolein	Ave	0.0390	0.0286		36.7	50.0	-26.6	40.0
1,1-Dichloroethene	Ave	0.1952	0.2064		21.2	20.0	5.7	20.0
Acetone	Lin1		0.0233		91.4	100	-8.6	20.0
Iodomethane	Lin1		0.1121		15.5	20.0	-22.7*	20.0
Ethanol	Lin1		0.0023		445	1000	-55.5*	40.0
Isopropyl alcohol	Ave	0.0106	0.0115		216	200	7.9	20.0
Carbon disulfide	Ave	0.6562	0.6429		19.6	20.0	-2.0	20.0
3-Chloro-1-propene	Ave	0.1534	0.1575		20.5	20.0	2.7	20.0
Acetonitrile	Ave	0.0302	0.0240		159	200	-20.5*	20.0
Methyl acetate	Ave	0.2497	0.2012		80.6	100	-19.4	20.0
Methylene Chloride	Ave	0.2363	0.2419		20.5	20.0	2.4	20.0
tert-Butyl alcohol (TBA)	Ave	0.0174	0.0183		210	200	5.0	40.0
Methyl tert-butyl ether	Ave	0.6876	0.6665		19.4	20.0	-3.1	20.0
trans-1,2-Dichloroethene	Ave	0.3253	0.3287		20.2	20.0	1.0	20.0
Acrylonitrile	Ave	0.1007	0.1012		201	200	0.5	20.0
Hexane	Ave	0.3888	0.3488		17.9	20.0	-10.3	20.0
Diisopropyl ether	Ave	0.8545	0.7995		18.7	20.0	-6.4	20.0
1,1-Dichloroethane	Ave	0.4323	0.4427	0.1000	20.5	20.0	2.4	20.0
Vinyl acetate	Ave	0.6533	0.4303		26.4	40.0	-34.1	40.0
Chloroprene	Ave	0.3816	0.3631		19.0	20.0	-4.9	20.0
Ethyl tert-butyl ether	Ave	0.7536	0.7111		18.9	20.0	-5.6	20.0
2,2-Dichloropropane	Ave	0.3421	0.2967		17.4	20.0	-13.3	20.0
cis-1,2-Dichloroethene	Ave	0.4072	0.4354		21.4	20.0	6.9	20.0
2-Butanone (MEK)	Ave	0.0296	0.0304		103	100	2.6	20.0
Ethyl acetate	Ave	0.4114	0.4841		47.1	40.0	17.7	20.0
Propionitrile	Ave	0.0368	0.0385		209	200	4.6	20.0
Bromochloromethane	Ave	0.1264	0.1350		21.4	20.0	6.8	20.0
Methacrylonitrile	Ave	0.1761	0.1658		188	200	-5.9	20.0
Tetrahydrofuran	Ave	0.1179	0.1041		35.3	40.0	-11.7	20.0
Chloroform	Ave	0.4140	0.4130		20.0	20.0	-0.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Lab Sample ID: CCVIS 490-121948/2 Calibration Date: 11/14/2013 21:53

Instrument ID: HP33 Calib Start Date: 10/18/2013 20:11

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/19/2013 00:14

Lab File ID: 11141329.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Cyclohexane	Ave	0.4512	0.4531		20.1	20.0	0.4	20.0
1,1,1-Trichloroethane	Ave	0.3401	0.3387		19.9	20.0	-0.4	20.0
Carbon tetrachloride	Ave	0.2829	0.2868		20.3	20.0	1.4	20.0
1,1-Dichloropropene	Ave	0.3110	0.3133		20.2	20.0	0.7	20.0
Isobutanol	Ave	0.0235	0.0244		208	200	3.8	20.0
Benzene	Ave	0.9688	1.014		20.9	20.0	4.7	20.0
Tert-amyl methyl ether	Ave	0.6775	0.6379		18.8	20.0	-5.9	20.0
1,2-Dichloroethane	Ave	0.3130	0.3076		19.7	20.0	-1.7	20.0
Heptane	Ave	0.4091	0.3325		16.3	20.0	-18.7	20.0
n-Butanol	Ave	0.0052	0.0057		539	500	7.8	20.0
Trichloroethene	Ave	0.2378	0.2655		22.3	20.0	11.6	20.0
Cyclohexanone	Ave	0.0696	0.0656		189	200	-5.7	20.0
Ethyl acrylate	Ave	0.6963	0.6564		18.9	20.0	-5.7	20.0
Methylcyclohexane	Ave	0.4370	0.4495		20.6	20.0	2.9	20.0
1,2-Dichloropropane	Ave	0.2527	0.2608		20.6	20.0	3.2	20.0
Methyl methacrylate	Ave	0.2471	0.2237		36.2	40.0	-9.4	20.0
Dibromomethane	Ave	0.1362	0.1411		20.7	20.0	3.6	20.0
1,4-Dioxane	Lin2		0.0023		439	400	9.7	20.0
Bromodichloromethane	Ave	0.2869	0.2979		20.8	20.0	3.8	20.0
2-Chloroethyl vinyl ether	Ave	0.2150	0.2484		23.1	20.0	15.5	20.0
2-Nitropropane	Ave	0.1032	0.1170		45.4	40.0	13.4	20.0
cis-1,3-Dichloropropene	Ave	0.4921	0.5333		21.7	20.0	8.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1310	0.1426		109	100	8.8	20.0
Toluene	Ave	1.408	1.538		21.8	20.0	9.2	20.0
trans-1,3-Dichloropropene	Ave	0.4183	0.4092		19.6	20.0	-2.2	20.0
Ethyl methacrylate	Ave	0.4325	0.4650		21.5	20.0	7.5	20.0
1,1,2-Trichloroethane	Ave	0.2796	0.2960		21.2	20.0	5.9	20.0
Tetrachloroethene	Ave	0.3624	0.3860		21.3	20.0	6.5	20.0
1,3-Dichloropropane	Ave	0.5095	0.5170		20.3	20.0	1.5	20.0
2-Hexanone	Ave	0.1205	0.1162		96.4	100	-3.6	20.0
n-Butyl acetate	Ave	0.1767	0.3081		34.9	20.0	74.4*	20.0
Chlorodibromomethane	Lin1		0.2351		17.8	20.0	-11.2	20.0
1,2-Dibromoethane (EDB)	Ave	0.2951	0.3032		20.6	20.0	2.8	20.0
Chlorobenzene	Ave	0.9303	0.9881	0.3000	21.2	20.0	6.2	20.0
Ethylbenzene	Ave	1.633	1.666		20.4	20.0	2.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3085	0.3276		21.2	20.0	6.2	20.0
m,p-Xylene	Ave	1.267	1.258		19.9	20.0	-0.7	20.0
o-Xylene	Ave	1.256	1.291		20.6	20.0	2.8	20.0
Styrene	Ave	1.021	1.082		21.2	20.0	5.9	20.0
Bromoform	Lin1		0.2036	0.1000	17.8	20.0	-11.0	20.0
Isopropylbenzene	Ave	1.602	1.682		21.0	20.0	5.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Lab Sample ID: CCVIS 490-121948/2 Calibration Date: 11/14/2013 21:53

Instrument ID: HP33 Calib Start Date: 10/18/2013 20:11

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/19/2013 00:14

Lab File ID: 11141329.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Bromobenzene	Ave	1.319	1.238		18.8	20.0	-6.2	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7921	0.7596	0.3000	19.2	20.0	-4.1	20.0
N-Propylbenzene	Ave	4.126	4.087		19.8	20.0	-1.0	20.0
1,2,3-Trichloropropane	Ave	0.2711	0.2664		19.7	20.0	-1.8	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2371	0.1914		16.1	20.0	-19.3	20.0
2-Chlorotoluene	Ave	2.369	2.263		19.1	20.0	-4.5	20.0
1,3,5-Trimethylbenzene	Ave	2.809	2.809		20.0	20.0	0.0	20.0
4-Chlorotoluene	Ave	2.489	2.499		20.1	20.0	0.4	20.0
tert-Butylbenzene	Ave	2.440	2.532		20.8	20.0	3.8	20.0
1,2,4-Trimethylbenzene	Ave	2.848	2.887		20.3	20.0	1.4	20.0
sec-Butylbenzene	Ave	3.593	3.668		20.4	20.0	2.1	20.0
1,3-Dichlorobenzene	Ave	1.558	1.628		20.9	20.0	4.5	20.0
p-Isopropyltoluene	Ave	3.111	3.224		20.7	20.0	3.7	20.0
1,4-Dichlorobenzene	Ave	1.585	1.646		20.8	20.0	3.9	20.0
1,2,3-Trimethylbenzene	Ave	2.865	2.828		19.8	20.0	-1.3	20.0
Benzyl chloride	Lin1		0.4420		14.0	20.0	-29.9*	20.0
n-Butylbenzene	Ave	2.693	2.663		19.8	20.0	-1.1	20.0
1,2-Dichlorobenzene	Ave	1.421	1.483		20.9	20.0	4.4	20.0
1,2-Dibromo-3-Chloropropane	Lin1		0.1599		17.4	20.0	-13.1	20.0
1,3,5-Trichlorobenzene	Ave	0.9222	0.9918		21.5	20.0	7.5	20.0
1,2,4-Trichlorobenzene	Ave	0.7981	0.8299		20.8	20.0	4.0	20.0
Hexachlorobutadiene	Ave	0.4281	0.4316		20.2	20.0	0.8	20.0
Naphthalene	Ave	2.474	2.249		18.2	20.0	-9.1	20.0
1,2,3-Trichlorobenzene	Ave	0.7347	0.7993		21.8	20.0	8.8	20.0
Dibromofluoromethane (Surr)	Ave	0.2379	0.2368		29.9	30.0	-0.5	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2822	0.2568		27.3	30.0	-9.0	30.0
Toluene-d8 (Surr)	Ave	1.337	1.388		31.2	30.0	3.9	30.0
4-Bromofluorobenzene (Surr)	Ave	1.049	0.9577		27.4	30.0	-8.7	30.0

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP33\20131114-28445.b\11141329.D
Lims ID: ccvis Lab Sample ID:
Client ID:
Sample Type: CCVIS
Inject. Date: 14-Nov-2013 21:53:30 ALS Bottle#: 29 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 490-0028445-002
Operator ID: JJR Instrument ID: HP33
Sublist: chrom-8260HP33*sub13

Method: \\Nvlchrom\ChromData\HP33\20131114-28445.b\8260HP33.m
Limit Group: MSV 8260B ICAL
Last Update: 15-Nov-2013 09:36:49 Calib Date: 19-Oct-2013 00:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D

Column 1 : Detector MS SCAN
Process Host: XAWRK026

First Level Reviewer: redmondj Date: 15-Nov-2013 09:35:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.687	3.687	0.0	99	481692	30.0	
* 2 Chlorobenzene-d5	117	6.004	6.004	0.0	83	332251	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.140	8.140	0.0	93	161329	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.273	3.273	0.0	82	114056	29.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.504	3.504	0.0	85	123718	27.3	
$ 6 Toluene-d8 (Surr)	98	4.800	4.800	0.0	91	461198	31.2	
$ 7 4-Bromofluorobenzene (Surr)	95	7.063	7.063	0.0	94	154509	27.4	
9 Dichlorodifluoromethane	85	1.168	1.168	0.0	98	82310	19.3	
10 Chloromethane	50	1.290	1.290	0.0	98	64115	15.7	
11 Vinyl chloride	62	1.338	1.338	0.0	79	81917	18.6	
12 Butadiene	54	1.351	1.351	0.0	0	74637	17.7	
13 Bromomethane	96	1.515	1.515	0.0	86	22484	16.6	
14 Chloroethane	64	1.570	1.570	0.0	95	53248	18.0	
15 Dichlorofluoromethane	67	1.679	1.679	0.0	98	129597	18.4	
16 Trichlorofluoromethane	101	1.691	1.691	0.0	86	107849	18.6	
18 Ethyl ether	59	1.837	1.837	0.0	90	64680	20.1	
20 Acrolein	56	1.947	1.947	0.0	41	22957	36.7	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.947	1.947	0.0	86	74108	21.5	
21 1,1-Dichloroethene	96	1.977	1.977	0.0	95	66277	21.1	
22 Acetone	58	2.026	2.026	0.0	100	37339	91.4	
23 Iodomethane	142	2.068	2.068	0.0	97	35985	15.5	
25 Isopropyl alcohol	45	2.093	2.093	0.0	1	36810	215.7	
17 Ethanol	45	2.093	2.093	0.0	1	36810	445.4	
26 Carbon disulfide	76	2.099	2.099	0.0	99	206458	19.6	
27 3-Chloro-1-propene	76	2.172	2.172	0.0	90	50572	20.5	
29 Acetonitrile	41	2.178	2.178	0.0	75	77184	159.0	
28 Methyl acetate	43	2.178	2.178	0.0	97	323021	80.6	
30 Methylene Chloride	84	2.257	2.257	0.0	87	77694	20.5	
31 2-Methyl-2-propanol	59	2.300	2.300	0.0	95	58758	210.0	
32 Methyl tert-butyl ether	73	2.360	2.360	0.0	88	214035	19.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
33 trans-1,2-Dichloroethene	61	2.379	2.379	0.0	94	105542	20.2	
34 Acrylonitrile	53	2.421	2.421	0.0	97	324867	201.0	
35 Hexane	57	2.482	2.482	0.0	88	112007	17.9	
36 Isopropyl ether	45	2.616	2.616	0.0	95	256738	18.7	
37 1,1-Dichloroethane	63	2.640	2.640	0.0	97	142160	20.5	
38 Vinyl acetate	43	2.640	2.640	0.0	96	276365	26.3	
39 2-Chloro-1,3-butadiene	53	2.671	2.671	0.0	86	116585	19.0	
40 Tert-butyl ethyl ether	59	2.829	2.829	0.0	97	228353	18.9	
41 2,2-Dichloropropane	77	2.963	2.963	0.0	91	95276	17.3	
42 cis-1,2-Dichloroethene	61	2.981	2.981	0.0	71	139806	21.4	
44 Ethyl acetate	43	2.993	2.993	0.0	93	310893	47.1	
43 2-Butanone (MEK)	72	2.993	2.993	0.0	91	48758	102.6	
45 Propionitrile	54	3.078	3.078	0.0	99	123619	209.2	
46 Chlorobromomethane	130	3.139	3.139	0.0	92	43340	21.4	
47 Methacrylonitrile	41	3.145	3.145	0.0	92	532371	188.2	
48 Tetrahydrofuran	42	3.145	3.145	0.0	69	66867	35.3	
49 Chloroform	83	3.170	3.170	0.0	84	132638	20.0	
50 Cyclohexane	56	3.261	3.261	0.0	91	145499	20.1	
51 1,1,1-Trichloroethane	97	3.267	3.267	0.0	91	108760	19.9	
53 Carbon tetrachloride	117	3.352	3.352	0.0	90	92093	20.3	
54 1,1-Dichloropropene	75	3.370	3.370	0.0	98	100619	20.1	
55 Isobutyl alcohol	43	3.462	3.462	0.0	96	78207	207.6	
56 Benzene	78	3.498	3.498	0.0	95	325732	20.9	
58 Tert-amyl methyl ether	73	3.541	3.541	0.0	97	204843	18.8	
59 1,2-Dichloroethane	62	3.553	3.553	0.0	86	98768	19.7	
60 n-Heptane	43	3.595	3.595	0.0	90	106779	16.3	
61 n-Butanol	56	3.906	3.906	0.0	89	45434	539.2	
62 Trichloroethene	130	3.930	3.930	0.0	95	85263	22.3	
64 Cyclohexanone	55	4.009	4.009	0.0	75	210773	188.5	
63 Ethyl acrylate	55	4.009	4.009	0.0	0	210773	18.9	
65 Methylcyclohexane	83	4.015	4.015	0.0	94	144344	20.6	
66 1,2-Dichloropropane	63	4.113	4.113	0.0	95	83743	20.6	
68 Methyl methacrylate	41	4.161	4.161	0.0	89	143691	36.2	
69 Dibromomethane	93	4.204	4.204	0.0	86	45321	20.7	
70 1,4-Dioxane	88	4.210	4.210	0.0	16	14931	438.7	
71 Dichlorobromomethane	83	4.307	4.307	0.0	94	95653	20.8	
73 2-Chloroethyl vinyl ether	63	4.520	4.520	0.0	82	55009	23.1	
72 2-Nitropropane	43	4.520	4.520	0.0	80	75152	45.4	
74 cis-1,3-Dichloropropene	75	4.636	4.636	0.0	91	118130	21.7	
75 4-Methyl-2-pentanone (MIBK)	58	4.745	4.745	0.0	96	157894	108.8	
76 Toluene	91	4.855	4.855	0.0	98	340634	21.8	
77 trans-1,3-Dichloropropene	75	5.086	5.086	0.0	96	90631	19.6	
78 Ethyl methacrylate	69	5.104	5.104	0.0	90	102987	21.5	
79 1,1,2-Trichloroethane	97	5.232	5.232	0.0	85	65571	21.2	
80 Tetrachloroethene	166	5.268	5.268	0.0	86	85494	21.3	
81 1,3-Dichloropropane	76	5.372	5.372	0.0	90	114512	20.3	
82 2-Hexanone	58	5.414	5.414	0.0	96	128689	96.4	
83 n-Butyl acetate	43	5.487	5.487	0.0	98	98951	34.9	
84 Chlorodibromomethane	127	5.530	5.530	0.0	90	52077	17.8	
85 Ethylene Dibromide	107	5.639	5.639	0.0	98	67161	20.6	
87 Chlorobenzene	112	6.029	6.029	0.0	95	218856	21.2	
88 Ethylbenzene	91	6.090	6.090	0.0	98	368991	20.4	

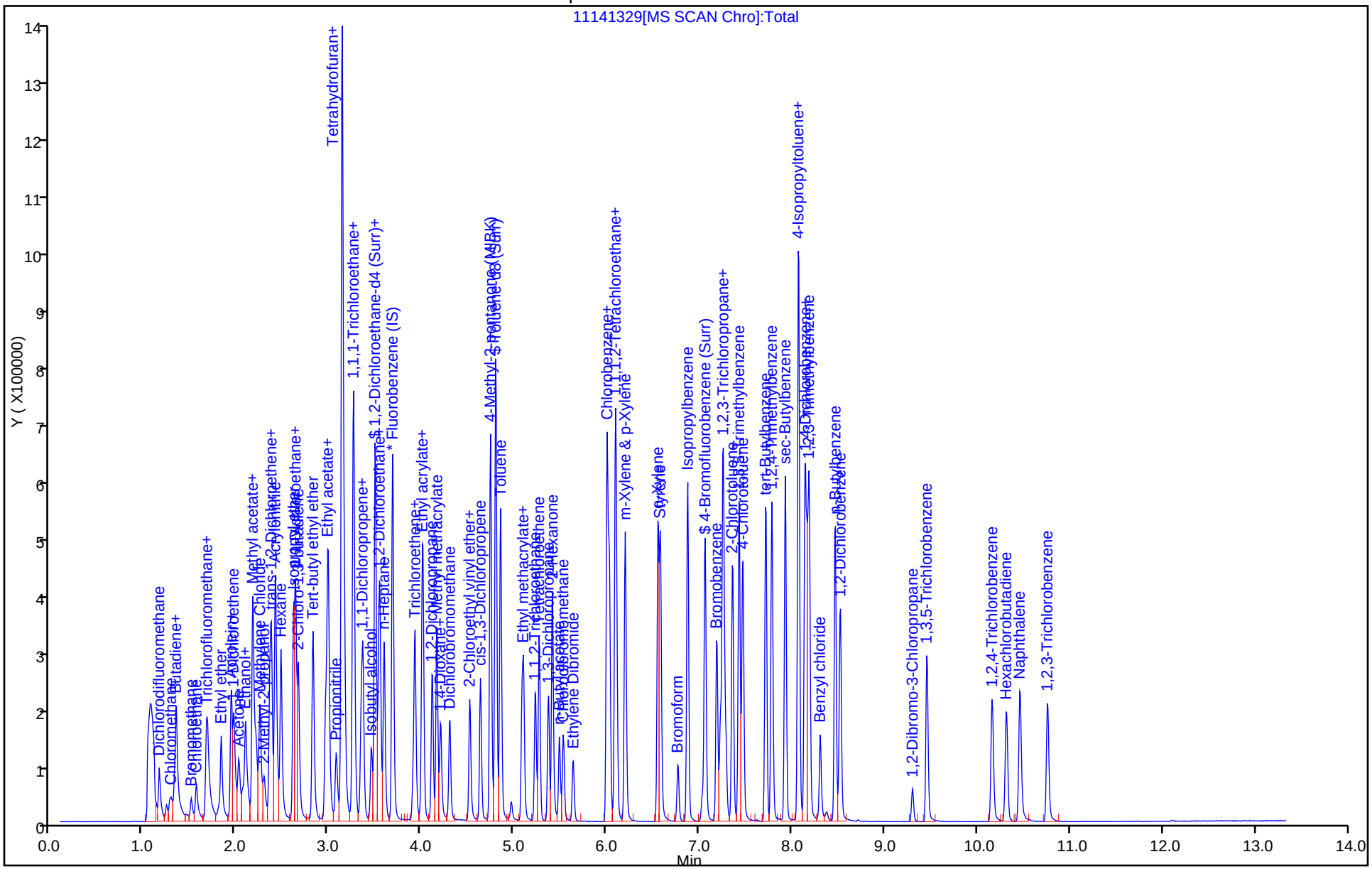
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
89 1,1,1,2-Tetrachloroethane	131	6.108	6.108	0.0	85	72570	21.2	
90 m-Xylene & p-Xylene	91	6.199	6.199	0.0	100	278742	19.9	
91 o-Xylene	91	6.552	6.552	0.0	97	286046	20.6	
92 Styrene	104	6.582	6.582	0.0	95	239583	21.2	
93 Bromoform	173	6.771	6.771	0.0	97	45091	17.8	
94 Isopropylbenzene	105	6.874	6.874	0.0	95	372604	21.0	
95 Bromobenzene	77	7.185	7.185	0.0	92	133099	18.8	
96 1,1,2,2-Tetrachloroethane	83	7.227	7.227	0.0	79	81695	19.2	
97 N-Propylbenzene	91	7.252	7.252	0.0	98	439554	19.8	
98 1,2,3-Trichloropropane	110	7.270	7.270	0.0	80	28649	19.6	
99 trans-1,4-Dichloro-2-butene	53	7.288	7.288	0.0	59	20584	16.1	
100 2-Chlorotoluene	91	7.361	7.361	0.0	97	243347	19.1	
101 1,3,5-Trimethylbenzene	105	7.428	7.428	0.0	94	302104	20.0	
102 4-Chlorotoluene	91	7.471	7.471	0.0	96	268802	20.1	
103 tert-Butylbenzene	119	7.714	7.714	0.0	91	272318	20.8	
105 1,2,4-Trimethylbenzene	105	7.781	7.781	0.0	97	310514	20.3	
106 sec-Butylbenzene	105	7.927	7.927	0.0	94	394556	20.4	
107 4-Isopropyltoluene	119	8.073	8.073	0.0	95	346797	20.7	
108 1,3-Dichlorobenzene	146	8.073	8.073	0.0	70	175118	20.9	
109 1,4-Dichlorobenzene	146	8.164	8.164	0.0	95	177080	20.8	
110 1,2,3-Trimethylbenzene	105	8.182	8.182	0.0	0	304203	19.7	
111 Benzyl chloride	91	8.304	8.304	0.0	98	97904	14.0	
112 n-Butylbenzene	91	8.468	8.468	0.0	94	286443	19.8	
113 1,2-Dichlorobenzene	146	8.523	8.523	0.0	98	159532	20.9	
114 1,2-Dibromo-3-Chloropropane	157	9.302	9.302	0.0	76	17202	17.4	
115 1,3,5-Trichlorobenzene	180	9.454	9.454	0.0	97	106666	21.5	
116 1,2,4-Trichlorobenzene	180	10.160	10.160	0.0	93	89260	20.8	
117 Hexachlorobutadiene	225	10.318	10.318	0.0	94	46421	20.2	
118 Naphthalene	128	10.464	10.464	0.0	97	241903	18.2	
119 1,2,3-Trichlorobenzene	180	10.756	10.756	0.0	94	85968	21.8	
S 134 Xylenes, Total	1				0		40.4	
S 135 1,2-Dichloroethene, Total	1				0		41.6	

Report Date: 15-Nov-2013 09:36:50 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131114-28445.b\11141329.D

Injection Date:	14-Nov-2013 21:53:30	Instrument ID:	HP33	Operator ID:	JJR
Lims ID:	ccvis	Lab Sample ID:		Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	8260HP33	Limit Group:	MSV 8260B ICAL		



TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181302.D		
Lims ID:	bfb	Client ID:	
Inject. Date:	18-Oct-2013 19:05:30	Dil. Factor:	1.0000
Sample Type:	BFB		
Sample ID:	BFB		
Misc. Info.:	490-0026993-001		
Operator:	JJR	Instrument ID:	HP33
Purge Vol:	5.000 mL	ALS Bottle#:	2
Lims Batch ID:	115521	Lims Sample ID:	1
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\8260HP33.m		
Last Update:	19-Oct-2013 20:38:18	Calib Date:	19-Oct-2013 00:14:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK030		
First Level Reviewer: redmondj		Date:	18-Oct-2013 20:04:42

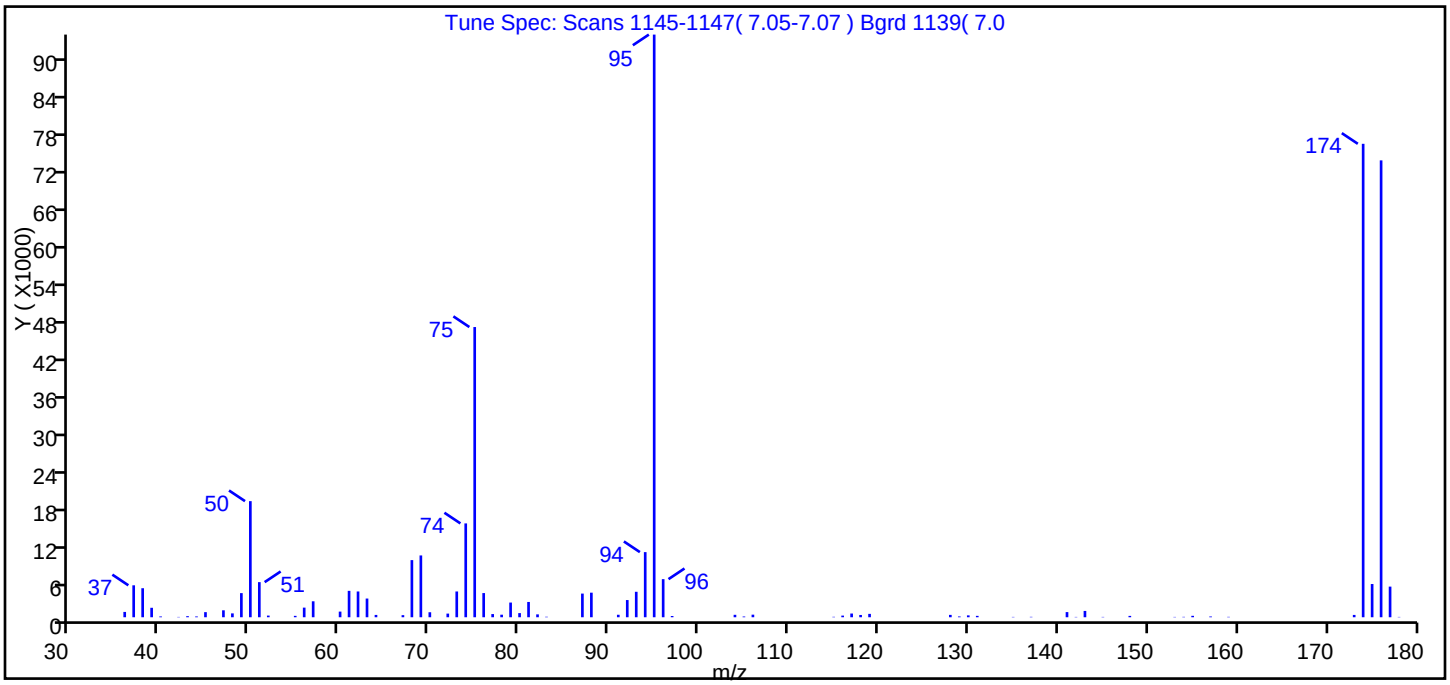
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.690	3.690	0.0	99	508151	30.0	
* 2 Chlorobenzene-d5	117	6.002	6.002	0.0	85	349735	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.143	8.143	0.0	95	154263	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.271	3.271	0.0	62	121462	30.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.508	3.508	0.0	98	141486	29.6	
$ 6 Toluene-d8 (Surr)	98	4.804	4.804	0.0	93	464479	29.8	
$ 7 4-Bromofluorobenzene (Surr)	95	7.061	7.061	0.0	89	165844	30.7	
$ 8 BFB	95	7.061	7.061	0.0	0	165844	0	

MS Tune Report

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181302.D		
Injection Date:	18-Oct-2013 19:05:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	1
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Tune Method:	BFB Method 8260		

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.93
75	30.00 - 60.00% of mass 95	49.81
96	5.00 - 9.00% of mass 95	6.54
173	Less than 2.00% of mass 174	0.40 (0.49)
174	Greater than 50.00% of mass 95	81.26
175	5.00 - 9.00% of mass 174	5.70 (7.02)
176	95.00 - 101.00% of mass 174	78.41 (96.50)
177	5.00 - 9.00% of mass 176	5.26 (6.71)

Data File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181302.D\8260HP33.rslt\spectra.d
Injection Date: 18-Oct-2013 19:05:30
Spectrum: Tune Spec: Scans 1145-1147(7.05-7.07) Bgrd 1139(7.0
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 78

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	854	62.00	4132	88.00	3940	135.00	56
37.00	5120	63.00	2999	91.00	401	137.00	68
38.00	4654	64.00	373	92.00	2757	141.00	827
39.00	1518	67.00	337	93.00	4082	142.00	55
40.00	128	68.00	9158	94.00	10440	143.00	1012
42.00	53	69.00	9907	95.00	93384	145.00	56
43.00	175	70.00	803	96.00	6107	148.00	219
44.00	130	72.00	586	97.00	198	153.00	54
45.00	819	73.00	4132	104.00	393	154.00	66
47.00	1116	74.00	15041	105.00	121	155.00	229
48.00	621	75.00	46512	106.00	416	157.00	123
49.00	3869	76.00	3875	115.00	71	159.00	66
50.00	18608	77.00	512	116.00	265	173.00	373
51.00	5628	78.00	410	117.00	598	174.00	75880
52.00	269	79.00	2356	118.00	366	175.00	5327
55.00	225	80.00	665	119.00	542	176.00	73224
56.00	1544	81.00	2452	128.00	380	177.00	4911
57.00	2559	82.00	462	129.00	128	178.00	53
60.00	906	83.00	80	130.00	302		
61.00	4232	87.00	3794	131.00	223		

Report Date: 14-Nov-2013 09:36:25 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP33\20131114-28420.b\11141301.D
Lims ID: bfb Lab Sample ID:
Client ID:
Sample Type: BFB
Inject. Date: 14-Nov-2013 08:49:30 ALS Bottle#: 1 Worklist Smp#: 1
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 490-0028420-001
Operator ID: JJR Instrument ID: HP33

Method: \\Nvlchrom\ChromData\HP33\20131114-28420.b\8260HP33.m
Limit Group: MSV 8260B ICAL
Last Update: 14-Nov-2013 09:36:24 Calib Date: 19-Oct-2013 00:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D

Column 1 : Detector MS SCAN
Process Host: XAWRK035

First Level Reviewer: redmondj Date: 14-Nov-2013 09:36:24

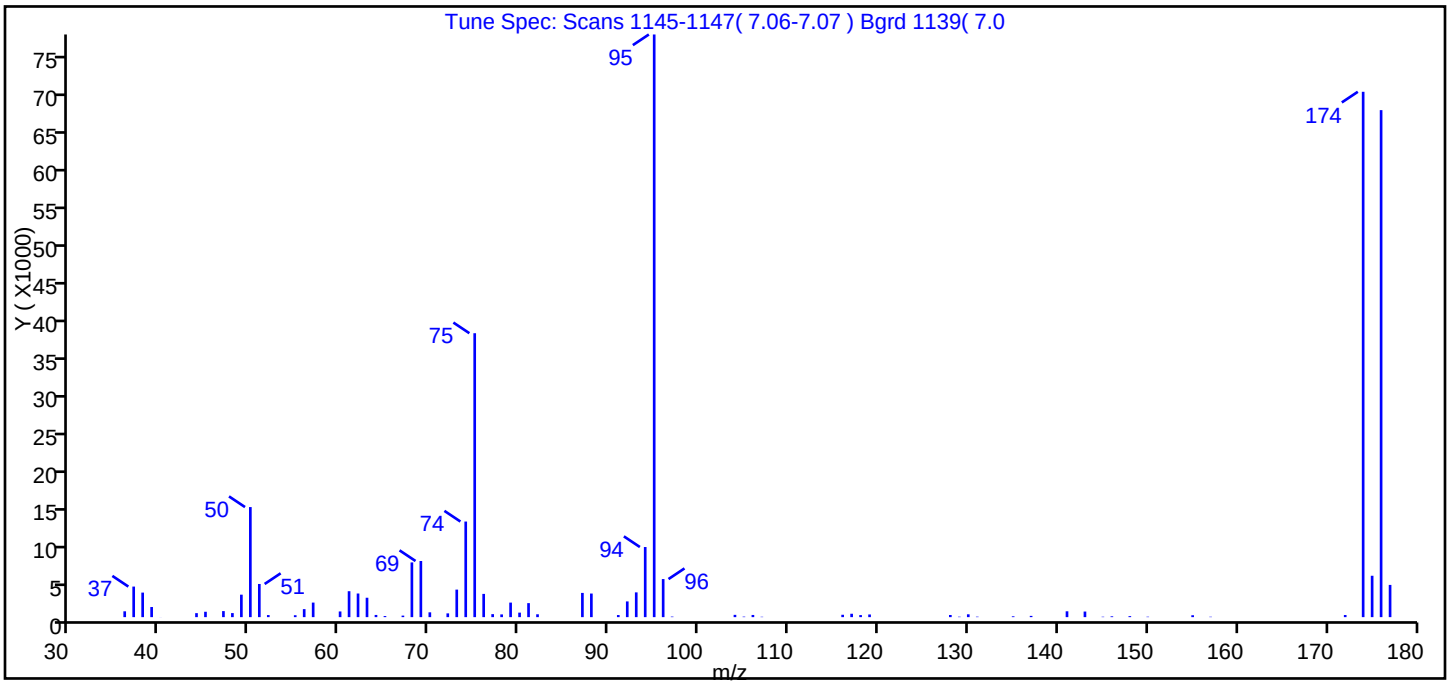
	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
*	1 Fluorobenzene (IS)	96	3.692	3.692	0.0	99	485855	30.0	
*	2 Chlorobenzene-d5	117	6.003	6.003	0.0	86	326545	30.0	
*	3 1,4-Dichlorobenzene-d4	152	8.145	8.145	0.0	94	150072	30.0	
$	4 Dibromofluoromethane (Surr)	111	3.272	3.272	0.0	59	113903	29.6	
$	5 1,2-Dichloroethane-d4 (Surr)	65	3.503	3.503	0.0	91	121518	26.6	
$	6 Toluene-d8 (Surr)	98	4.805	4.805	0.0	93	452317	31.1	
$	7 4-Bromofluorobenzene (Surr)	95	7.062	7.062	0.0	93	142710	27.2	
$	8 BFB	95	7.062	7.062	0.0	0	142710	0	

MS Tune Report

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131114-28420.b\11141301.D
Injection Date: 14-Nov-2013 08:49:30 Instrument ID: HP33
Lims ID: bfb Lab Sample ID:
Client ID:
Operator ID: JJR ALS Bottle#: 1 Worklist Smp#: 1
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260HP33 Limit Group: MSV 8260B ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.90
75	30.00 - 60.00% of mass 95	48.70
96	5.00 - 9.00% of mass 95	6.50
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	90.20
175	5.00 - 9.00% of mass 174	7.10 (7.90)
176	95.00 - 101.00% of mass 174	87.00 (96.50)
177	5.00 - 9.00% of mass 176	5.50 (6.40)

Data File: \\Nvlchrom\ChromData\HP33\20131114-28420.b\11141301.D\8260HP33.rslt\spectra.d
Injection Date: 14-Nov-2013 08:49:30
Spectrum: Tune Spec: Scans 1145-1147(7.06-7.07) Bgrd 1139(7.0
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 73

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	781	63.00	2597	88.00	3160	131.00	64
37.00	4092	64.00	294	91.00	280	135.00	111
38.00	3286	65.00	146	92.00	2105	137.00	169
39.00	1355	67.00	205	93.00	3316	141.00	784
40.00	8	68.00	7326	94.00	9386	143.00	749
44.00	536	69.00	7515	95.00	78000	145.00	56
45.00	721	70.00	646	96.00	5097	146.00	109
47.00	809	72.00	505	97.00	73	148.00	134
48.00	543	73.00	3686	104.00	307	150.00	58
49.00	3009	74.00	12799	105.00	69	155.00	255
50.00	14735	75.00	38008	106.00	292	157.00	53
51.00	4440	76.00	3113	107.00	50	172.00	284
52.00	278	77.00	403	116.00	319	174.00	70328
55.00	256	78.00	367	117.00	454	175.00	5540
56.00	1074	79.00	1947	118.00	275	176.00	67872
57.00	1949	80.00	604	119.00	358	177.00	4315
60.00	761	81.00	1876	128.00	288		
61.00	3472	82.00	383	129.00	59		
62.00	3164	87.00	3244	130.00	380		

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP33\20131114-28445.b\11141328.D
Lims ID: bfb Lab Sample ID:
Client ID:
Sample Type: BFB
Inject. Date: 14-Nov-2013 21:26:30 ALS Bottle#: 28 Worklist Smp#: 1
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 490-0028445-001
Operator ID: JJR Instrument ID: HP33

Method: \\Nvlchrom\ChromData\HP33\20131114-28445.b\8260HP33.m
Limit Group: MSV 8260B ICAL
Last Update: 15-Nov-2013 09:36:25 Calib Date: 19-Oct-2013 00:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D

Column 1 : Detector MS SCAN
Process Host: XAWRK026

First Level Reviewer: redmondj Date: 15-Nov-2013 09:36:25

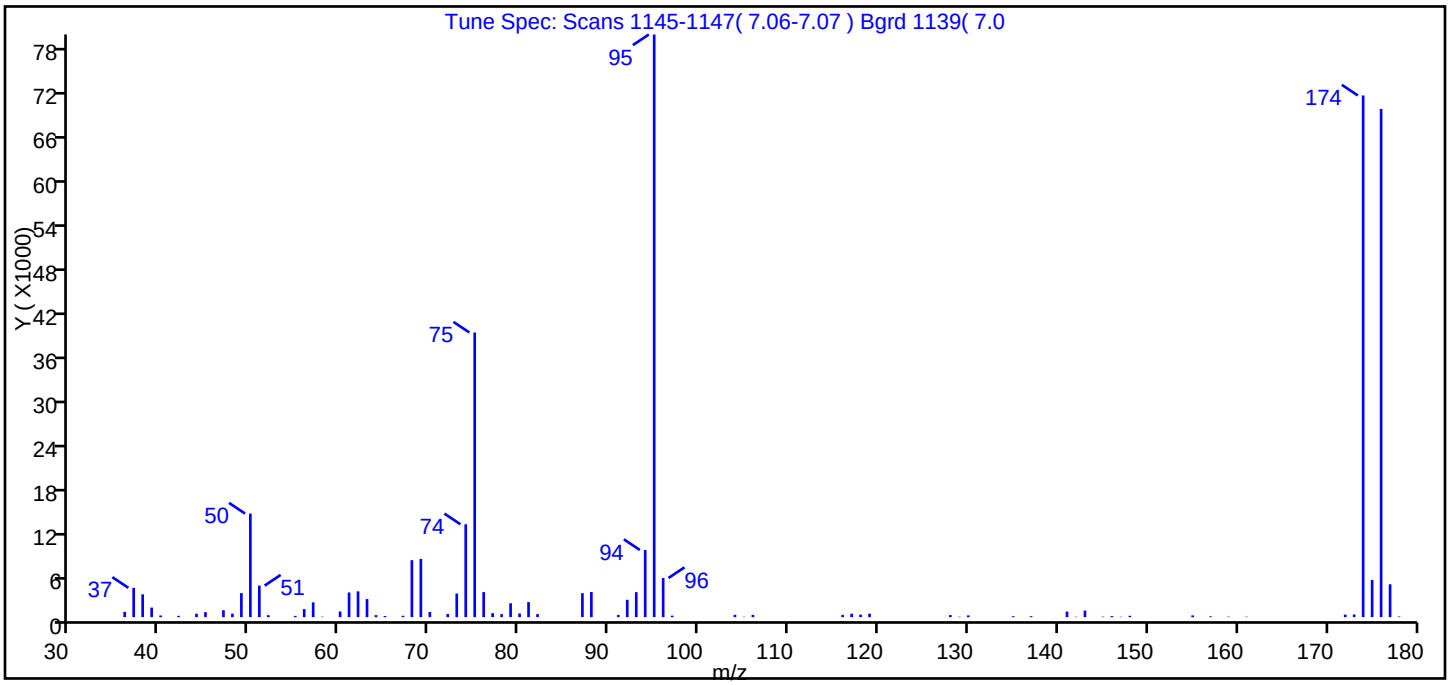
	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
*	1 Fluorobenzene (IS)	96	3.692	3.692	0.0	99	475502	30.0	
*	2 Chlorobenzene-d5	117	6.003	6.003	0.0	84	322212	30.0	
*	3 1,4-Dichlorobenzene-d4	152	8.145	8.145	0.0	94	147271	30.0	
$	4 Dibromofluoromethane (Surr)	111	3.272	3.272	0.0	79	112750	29.9	
$	5 1,2-Dichloroethane-d4 (Surr)	65	3.509	3.509	0.0	91	124689	27.9	
$	6 Toluene-d8 (Surr)	98	4.805	4.805	0.0	93	462003	32.2	
$	7 4-Bromofluorobenzene (Surr)	95	7.062	7.062	0.0	93	144880	28.1	
$	8 BFB	95	7.062	7.062	0.0	0	144880	0	

MS Tune Report

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131114-28445.b\11141328.D
Injection Date: 14-Nov-2013 21:26:30 Instrument ID: HP33
Lims ID: bfb Lab Sample ID:
Client ID:
Operator ID: JJR ALS Bottle#: 28 Worklist Smp#: 1
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260HP33 Limit Group: MSV 8260B ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.80
75	30.00 - 60.00% of mass 95	48.90
96	5.00 - 9.00% of mass 95	6.70
173	Less than 2.00% of mass 174	0.50 (0.50)
174	Greater than 50.00% of mass 95	89.50
175	5.00 - 9.00% of mass 174	6.40 (7.10)
176	95.00 - 101.00% of mass 174	87.20 (97.40)
177	5.00 - 9.00% of mass 176	5.60 (6.50)

Data File: \\Nvlchrom\ChromData\HP33\20131114-28445.b\11141328.D\8260HP33.rslt\spectra.d
Injection Date: 14-Nov-2013 21:26:30
Spectrum: Tune Spec: Scans 1145-1147(7.06-7.07) Bgrd 1139(7.0
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 78

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	727	62.00	3512	88.00	3417	141.00	760
37.00	3995	63.00	2468	91.00	302	142.00	52
38.00	3104	64.00	275	92.00	2365	143.00	896
39.00	1302	65.00	152	93.00	3404	145.00	65
40.00	227	67.00	189	94.00	9151	146.00	147
42.00	178	68.00	7763	95.00	79408	147.00	53
44.00	467	69.00	7944	96.00	5335	148.00	183
45.00	685	70.00	698	97.00	204	155.00	238
47.00	942	72.00	435	104.00	315	157.00	107
48.00	474	73.00	3221	105.00	50	159.00	67
49.00	3273	74.00	12657	106.00	307	161.00	58
50.00	14117	75.00	38792	116.00	309	172.00	348
51.00	4301	76.00	3406	117.00	467	173.00	364
52.00	265	77.00	540	118.00	339	174.00	71096
55.00	169	78.00	408	119.00	472	175.00	5064
56.00	1099	79.00	1890	128.00	281	176.00	69264
57.00	2016	80.00	499	129.00	51	177.00	4482
58.00	53	81.00	2053	130.00	239	178.00	84
60.00	770	82.00	412	135.00	131		
61.00	3361	87.00	3263	137.00	132		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-121823/5

Matrix: Water | Lab File ID: 11141306.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/14/2013 11:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121823 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND		1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	ND		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-121823/5

Matrix: Water | Lab File ID: 11141306.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/14/2013 11:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121823 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND		5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	0.2659	J	1.00	0.200
75-69-4	Trichlorofluoromethane	ND		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		1.00	0.330
75-01-4	Vinyl chloride	ND		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		70-130
2037-26-5	Toluene-d8 (Surr)	105		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP33\20131114-28420.b\11141306.D
Lims ID: mb Lab Sample ID: MB 490-121825/5-A
Client ID:
Sample Type: MB
Inject. Date: 14-Nov-2013 11:10:30 ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 490-0028420-005
Operator ID: JJR Instrument ID: HP33

Method: \\Nvlchrom\ChromData\HP33\20131114-28420.b\8260HP33.m
Limit Group: MSV 8260B ICAL
Last Update: 15-Nov-2013 09:55:48 Calib Date: 19-Oct-2013 00:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D

Column 1 : Detector MS SCAN
Process Host: XAWRK026

First Level Reviewer: redmondj Date: 15-Nov-2013 09:55:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.689	3.692	-0.003	99	451620	30.0	
* 2 Chlorobenzene-d5	117	6.007	6.003	0.004	85	302464	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.142	8.145	-0.003	94	136317	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.269	3.272	-0.003	66	106337	29.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.506	3.503	0.003	91	117403	27.6	
$ 6 Toluene-d8 (Surr)	98	4.802	4.805	-0.003	93	426331	31.6	
$ 7 4-Bromofluorobenzene (Surr)	95	7.059	7.062	-0.003	93	133350	28.0	
49 Chloroform	83	3.166	3.163	0.003	35	1285	0.2062	
62 Trichloroethene	130	3.932	3.929	0.003	53	952	0.2659	
109 1,4-Dichlorobenzene	146	8.154	8.163	-0.009	28	765	0.1063	M
117 Hexachlorobutadiene	225	10.320	10.317	0.003	1	1289	0.6626	
119 1,2,3-Trichlorobenzene	180	10.776	10.755	0.021	1	2103	0.6299	M

QC Flag Legend

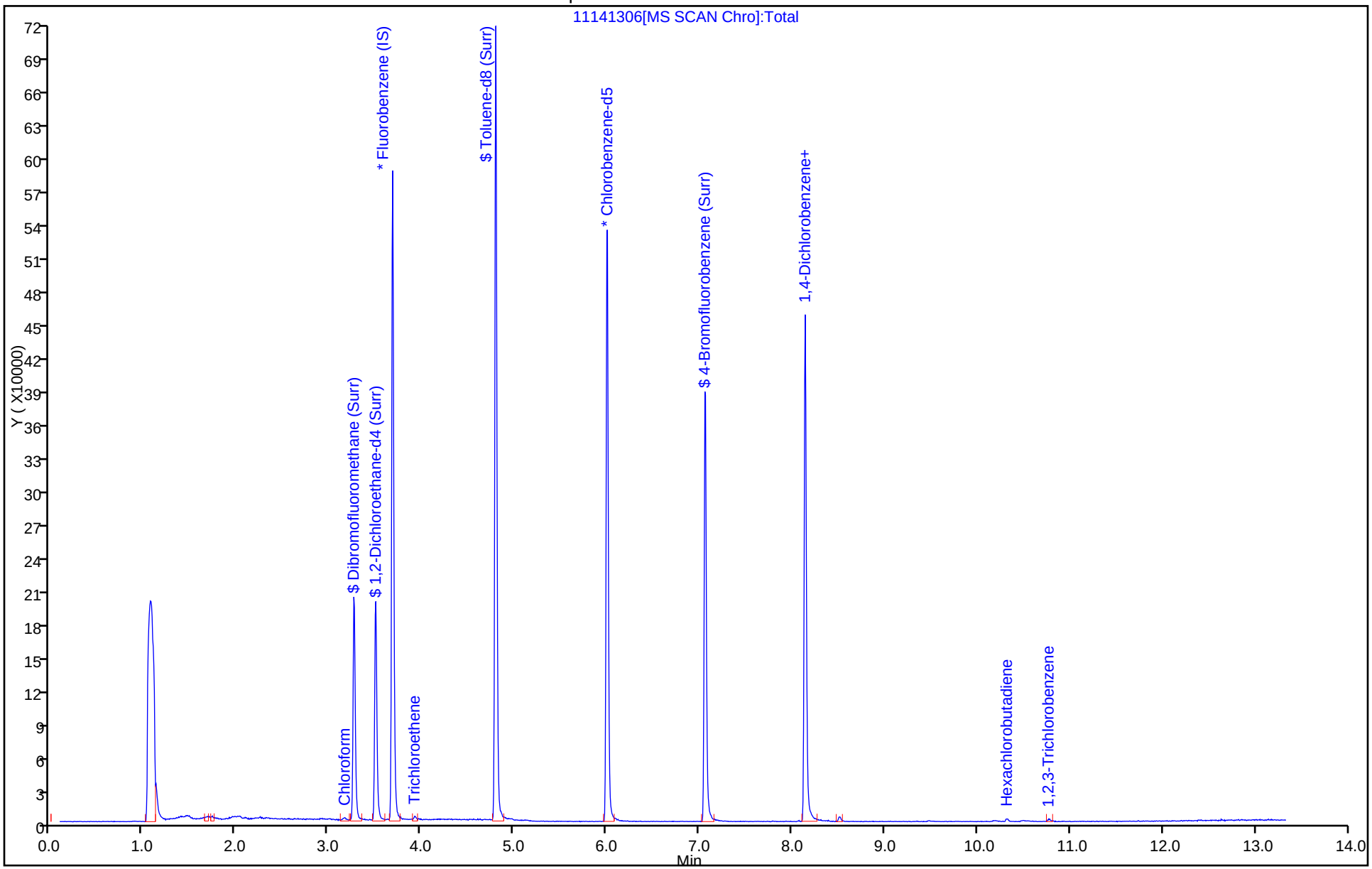
Review Flags
M - Manually Integrated

Report Date: 15-Nov-2013 09:55:48 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131114-28420.b\11141306.D

Injection Date:	14-Nov-2013 11:10:30	Instrument ID:	HP33	Operator ID:	JJR
Lims ID:	mb	Lab Sample ID:	MB 490-121825/5-A	Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260HP33	Limit Group:	MSV 8260B ICAL		



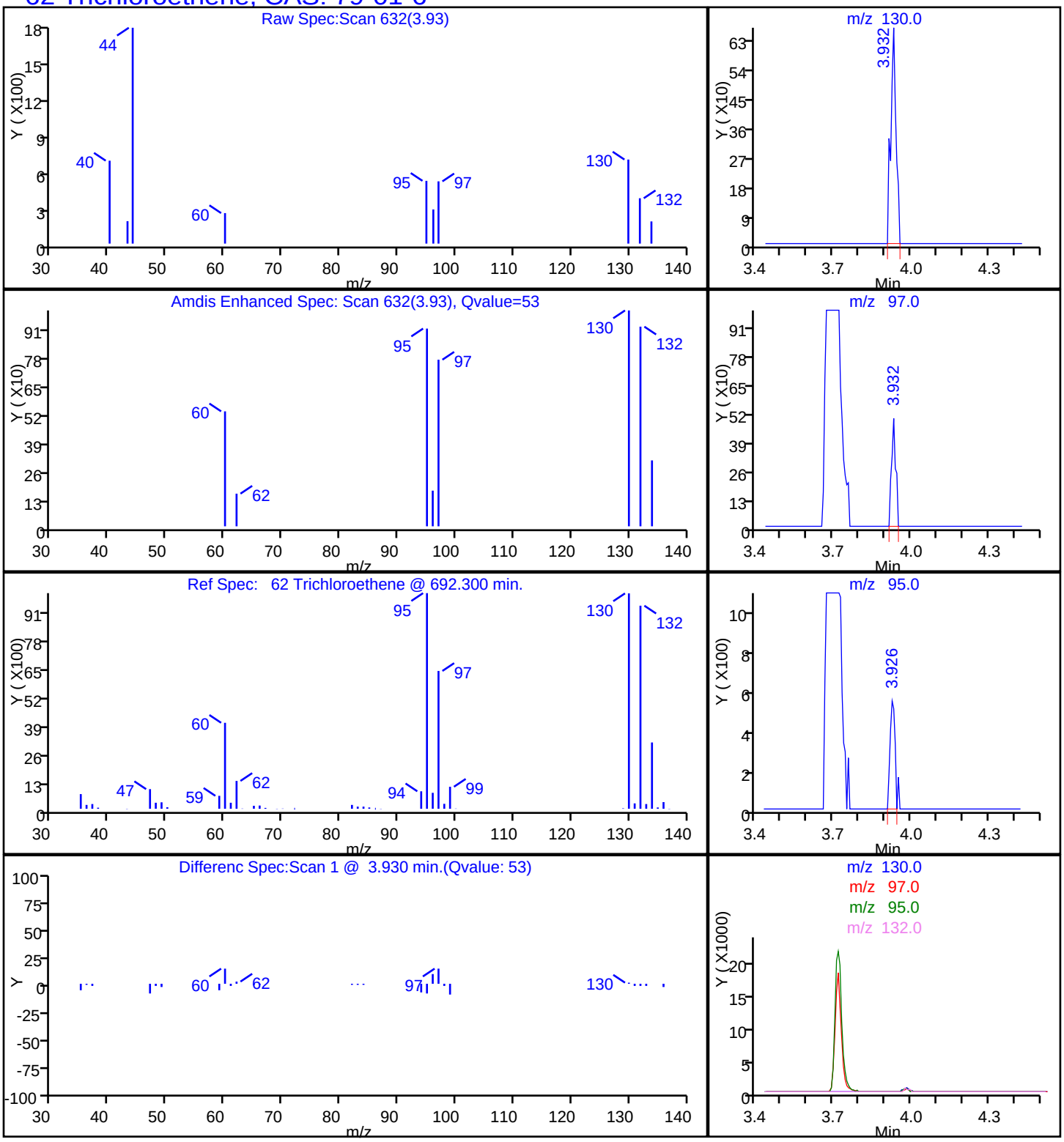
Report Date: 15-Nov-2013 09:55:48 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131114-28420.b\11141306.D

Injection Date:	14-Nov-2013 11:10:30	Instrument ID:	HP33		
Lims ID:	mb	Lab Sample ID:	MB 490-121825/5-A		
Client ID:					
Operator ID:	JJR	ALS Bottle#:	6	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260HP33	Limit Group:	MSV 8260B ICAL		
Column:		Detector	MS SCAN		

62 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

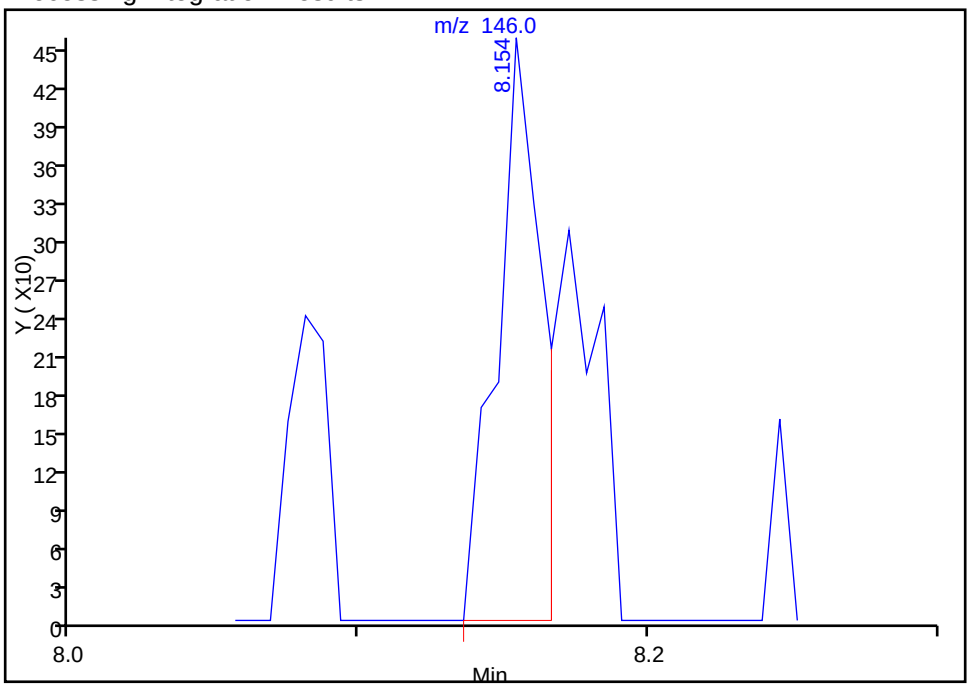
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131114-28420.b\11141306.D				
Injection Date:	14-Nov-2013 11:10:30	Instrument ID:	HP33		
Lims ID:	mb	Lab Sample ID:	MB 490-121825/5-A		
Client ID:					
Operator ID:	JJR	ALS Bottle#:	6	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260HP33	Limit Group:	MSV 8260B ICAL		
Column:		Detector	MS SCAN		

109 1,4-Dichlorobenzene, CAS: 106-46-7

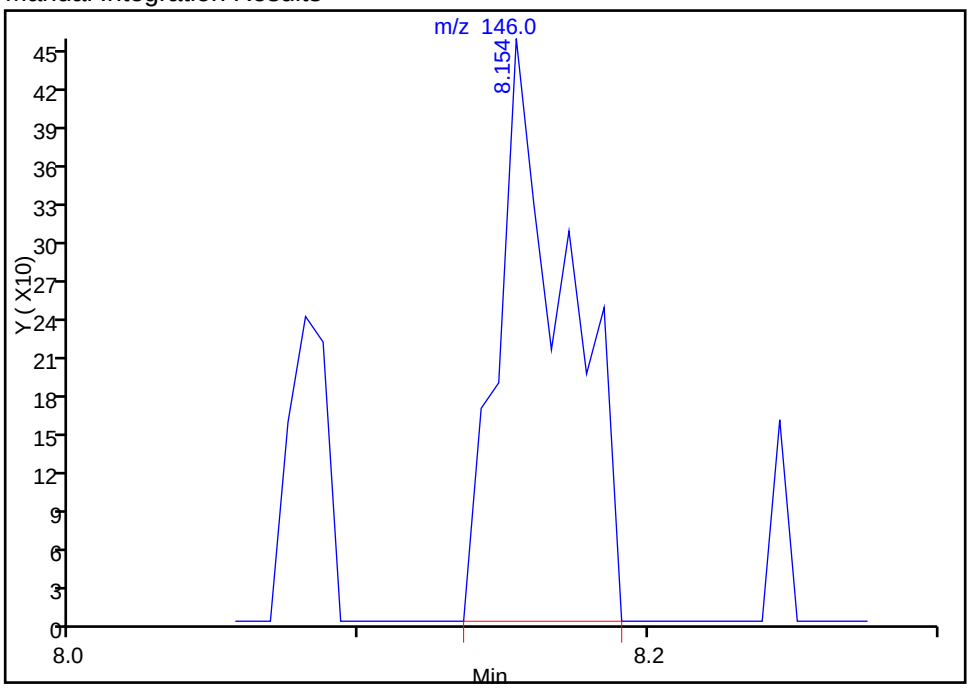
Processing Integration Results

RT: 8.15
Response: 493
Amount: 0.068473



Manual Integration Results

RT: 8.15
Response: 765
Amount: 0.106251



Reviewer: redmondj, 15-Nov-2013 09:55:47
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-121948/4

Matrix: Water | Lab File ID: 11141332.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/14/2013 23:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121948 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND		1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	ND		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-121948/4

Matrix: Water | Lab File ID: 11141332.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/14/2013 23:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121948 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND		5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND		1.00	0.200
75-69-4	Trichlorofluoromethane	ND		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		1.00	0.330
75-01-4	Vinyl chloride	ND		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130
1868-53-7	Dibromofluoromethane (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		70-130
2037-26-5	Toluene-d8 (Surr)	104		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP33\20131114-28445.b\11141332.D
Lims ID: mb Lab Sample ID: MB 490-121950/4-A
Client ID:
Sample Type: MB
Inject. Date: 14-Nov-2013 23:14:30 ALS Bottle#: 32 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 490-0028445-004
Operator ID: JJR Instrument ID: HP33

Method: \\Nvlchrom\ChromData\HP33\20131114-28445.b\8260HP33.m
Limit Group: MSV 8260B ICAL
Last Update: 15-Nov-2013 10:50:28 Calib Date: 19-Oct-2013 00:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D

Column 1 : Detector MS SCAN
Process Host: XAWRK026

First Level Reviewer: redmondj Date: 15-Nov-2013 10:50:28

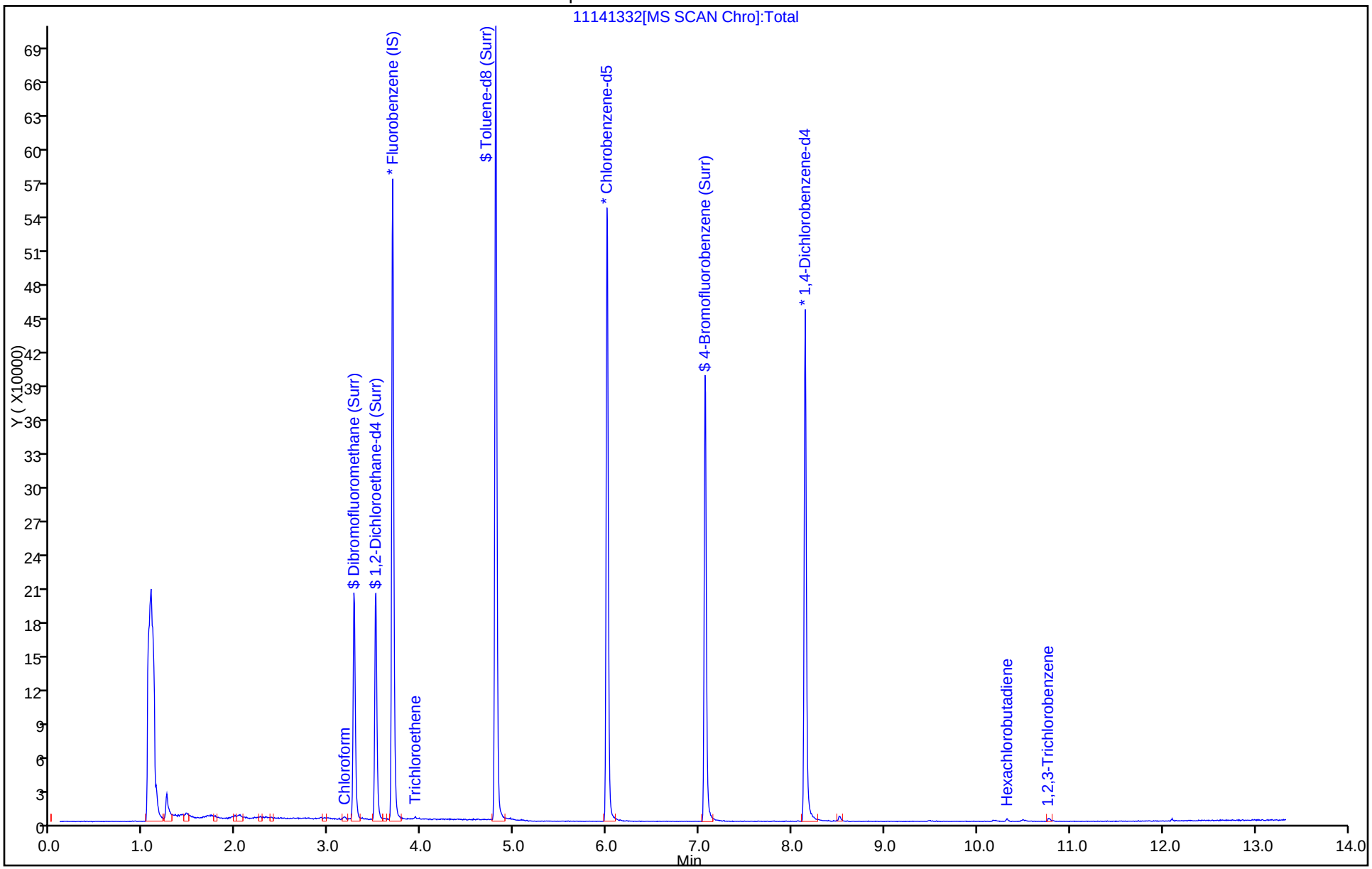
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.690	3.687	0.003	99	440163	30.0	
* 2 Chlorobenzene-d5	117	6.001	6.004	-0.003	84	299643	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.143	8.140	0.003	94	131933	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.270	3.273	-0.003	58	105500	30.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.507	3.504	0.003	91	115885	28.0	
$ 6 Toluene-d8 (Surr)	98	4.803	4.800	0.003	93	418136	31.3	
$ 7 4-Bromofluorobenzene (Surr)	95	7.060	7.063	-0.003	92	131704	28.5	
49 Chloroform	83	3.173	3.170	0.003	24	1285	0.2115	
62 Trichloroethene	130	3.933	3.930	0.003	35	327	0.0937	
117 Hexachlorobutadiene	225	10.321	10.318	0.003	1	1087	0.5773	
119 1,2,3-Trichlorobenzene	180	10.771	10.756	0.015	7	1847	0.5716	

Report Date: 15-Nov-2013 10:50:29 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131114-28445.b\11141332.D

Injection Date:	14-Nov-2013 23:14:30	Instrument ID:	HP33	Operator ID:	JJR
Lims ID:	mb	Lab Sample ID:	MB 490-121950/4-A	Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	8260HP33	Limit Group:	MSV 8260B ICAL		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-121823/3

Matrix: Water | Lab File ID: 11141303.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/14/2013 09:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121823 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	90.95		5.00	2.66
71-43-2	Benzene	19.50		1.00	0.200
74-97-5	Bromochloromethane	20.54		1.00	0.150
75-27-4	Bromodichloromethane	18.88		1.00	0.170
75-25-2	Bromoform	16.52		1.00	0.290
74-83-9	Bromomethane	18.70		1.00	0.350
78-93-3	2-Butanone (MEK)	100.8		50.0	2.64
75-15-0	Carbon disulfide	17.73		1.00	0.220
56-23-5	Carbon tetrachloride	18.92		1.00	0.180
108-90-7	Chlorobenzene	19.83		1.00	0.180
124-48-1	Chlorodibromomethane	16.05		1.00	0.250
75-00-3	Chloroethane	16.96		1.00	0.360
67-66-3	Chloroform	18.37		1.00	0.230
74-87-3	Chloromethane	15.81		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	20.23		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	20.29		1.00	0.170
110-82-7	Cyclohexane	19.31		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	17.04		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	18.76		1.00	0.210
95-50-1	1,2-Dichlorobenzene	19.45		1.00	0.190
541-73-1	1,3-Dichlorobenzene	19.69		1.00	0.180
106-46-7	1,4-Dichlorobenzene	19.14		1.00	0.170
75-71-8	Dichlorodifluoromethane	18.22		1.00	0.170
75-34-3	1,1-Dichloroethane	18.91		1.00	0.240
107-06-2	1,2-Dichloroethane	18.38		1.00	0.200
75-35-4	1,1-Dichloroethene	20.04		1.00	0.250
78-87-5	1,2-Dichloropropane	18.97		1.00	0.250
100-41-4	Ethylbenzene	19.05		1.00	0.190
591-78-6	2-Hexanone	95.51		5.00	1.28
98-82-8	Isopropylbenzene	19.33		1.00	0.330
79-20-9	Methyl acetate	76.29		10.0	0.720
108-87-2	Methylcyclohexane	19.91		5.00	0.200
75-09-2	Methylene Chloride	19.20		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	105.0		5.00	0.810
1634-04-4	Methyl tert-butyl ether	17.98		1.00	0.170
103-65-1	N-Propylbenzene	18.27		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-121823/3

Matrix: Water | Lab File ID: 11141303.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/14/2013 09:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121823 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	19.73		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	18.76		1.00	0.190
127-18-4	Tetrachloroethene	20.09		1.00	0.140
109-99-9	Tetrahydrofuran	34.18		5.00	2.84
108-88-3	Toluene	20.34		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	18.12		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	18.97		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	21.30		1.00	0.200
71-55-6	1,1,1-Trichloroethane	18.46		1.00	0.190
79-00-5	1,1,2-Trichloroethane	20.09		1.00	0.190
79-01-6	Trichloroethene	20.42		1.00	0.200
75-69-4	Trichlorofluoromethane	17.28		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	20.33		1.00	0.330
75-01-4	Vinyl chloride	17.07		1.00	0.180
1330-20-7	Xylenes, Total	36.95		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	89		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		70-130
2037-26-5	Toluene-d8 (Surr)	104		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP33\20131114-28420.b\11141303.D
Lims ID: lcs Lab Sample ID: LCS 490-121825/3-A
Client ID:
Sample Type: LCS
Inject. Date: 14-Nov-2013 09:49:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 490-0028420-003
Operator ID: JJR Instrument ID: HP33

Method: \\Nvlchrom\ChromData\HP33\20131114-28420.b\8260HP33.m
Limit Group: MSV 8260B ICAL
Last Update: 14-Nov-2013 10:40:33 Calib Date: 19-Oct-2013 00:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D

Column 1 : Detector MS SCAN
Process Host: XAWRK035

First Level Reviewer: redmondj Date: 14-Nov-2013 10:40:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.684	3.692	-0.008	99	506214	30.0	
* 2 Chlorobenzene-d5	117	6.002	6.003	-0.001	84	347802	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.143	8.145	-0.002	93	171063	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.270	3.272	-0.002	82	120383	30.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.501	3.503	-0.002	86	130321	27.4	
$ 6 Toluene-d8 (Surr)	98	4.803	4.805	-0.002	91	482610	31.1	
$ 7 4-Bromofluorobenzene (Surr)	95	7.060	7.062	-0.002	92	159934	26.7	
9 Dichlorodifluoromethane	85	1.171	1.167	0.004	98	81780	18.2	
10 Chloromethane	50	1.293	1.295	-0.002	100	67783	15.8	
11 Vinyl chloride	62	1.336	1.338	-0.002	80	79063	17.1	
12 Butadiene	54	1.354	1.350	0.004	0	72983	16.5	
13 Bromomethane	96	1.512	1.514	-0.002	89	28006	18.7	
14 Chloroethane	64	1.567	1.569	-0.002	99	52713	17.0	
15 Dichlorofluoromethane	67	1.676	1.678	-0.002	82	125918	17.0	
16 Trichlorofluoromethane	101	1.688	1.690	-0.002	87	105299	17.3	
18 Ethyl ether	59	1.834	1.836	-0.002	91	62265	18.4	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.944	1.940	0.004	83	73565	20.3	
20 Acrolein	56	1.950	1.946	0.004	48	25675	39.1	
21 1,1-Dichloroethene	96	1.974	1.976	-0.002	88	66002	20.0	
22 Acetone	58	2.029	2.031	-0.002	100	39075	91.0	
23 Iodomethane	142	2.072	2.068	0.004	97	39212	15.9	
17 Ethanol	45	2.090	2.092	-0.002	4	36545	421.5	
25 Isopropyl alcohol	45	2.090	2.092	-0.002	8	36545	203.8	
26 Carbon disulfide	76	2.102	2.098	0.004	99	196280	17.7	
27 3-Chloro-1-propene	76	2.175	2.171	0.004	87	55955	21.6	
29 Acetonitrile	41	2.175	2.177	-0.002	70	83373	163.4	
28 Methyl acetate	43	2.181	2.177	0.004	97	321455	76.3	
30 Methylene Chloride	84	2.254	2.256	-0.002	87	76582	19.2	
31 2-Methyl-2-propanol	59	2.303	2.299	0.004	97	58635	199.4	
32 Methyl tert-butyl ether	73	2.364	2.360	0.004	88	208633	18.0	
33 trans-1,2-Dichloroethene	61	2.376	2.378	-0.002	94	99484	18.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
34 Acrylonitrile	53	2.424	2.420	0.004	99	329215	193.8	
35 Hexane	57	2.479	2.481	-0.002	87	125026	19.1	
36 Isopropyl ether	45	2.619	2.615	0.004	94	252965	17.5	
38 Vinyl acetate	43	2.643	2.639	0.004	97	417644	37.9	
37 1,1-Dichloroethane	63	2.637	2.639	-0.002	96	137917	18.9	
39 2-Chloro-1,3-butadiene	53	2.668	2.670	-0.002	85	114510	17.8	
40 Tert-butyl ethyl ether	59	2.826	2.828	-0.002	98	224937	17.7	
41 2,2-Dichloropropane	77	2.960	2.962	-0.002	93	102816	17.8	
42 cis-1,2-Dichloroethene	61	2.984	2.980	0.004	77	139024	20.2	
44 Ethyl acetate	43	2.996	2.992	0.004	95	321013	46.2	
43 2-Butanone (MEK)	72	2.996	2.992	0.004	96	50343	100.8	
45 Propionitrile	54	3.081	3.077	0.004	99	125242	201.7	
46 Chlorobromomethane	130	3.136	3.132	0.004	78	43804	20.5	
47 Methacrylonitrile	41	3.142	3.144	-0.002	92	538948	181.3	
48 Tetrahydrofuran	42	3.142	3.144	-0.002	29	67976	34.2	
49 Chloroform	83	3.167	3.163	0.004	70	128369	18.4	
50 Cyclohexane	56	3.258	3.260	-0.002	92	146982	19.3	
51 1,1,1-Trichloroethane	97	3.264	3.266	-0.002	85	105912	18.5	
53 Carbon tetrachloride	117	3.349	3.345	0.004	81	90310	18.9	
54 1,1-Dichloropropene	75	3.367	3.369	-0.002	97	101330	19.3	
55 Isobutyl alcohol	43	3.459	3.461	-0.002	95	82165	207.5	
56 Benzene	78	3.495	3.497	-0.002	95	318757	19.5	
58 Tert-amyl methyl ether	73	3.544	3.540	0.004	99	205988	18.0	
59 1,2-Dichloroethane	62	3.550	3.552	-0.002	85	97091	18.4	
60 n-Heptane	43	3.592	3.595	-0.003	89	125589	18.2	
61 n-Butanol	56	3.915	3.911	0.004	86	47380	535.1	
62 Trichloroethene	130	3.927	3.929	-0.002	93	81956	20.4	
63 Ethyl acrylate	55	4.006	4.008	-0.002	0	216008	18.4	
64 Cyclohexanone	55	4.006	4.008	-0.002	75	216008	183.8	
65 Methylcyclohexane	83	4.012	4.014	-0.002	94	146827	19.9	
66 1,2-Dichloropropane	63	4.116	4.118	-0.002	95	80879	19.0	
68 Methyl methacrylate	41	4.164	4.166	-0.002	89	143878	34.5	
69 Dibromomethane	93	4.207	4.203	0.004	86	44513	19.4	
70 1,4-Dioxane	88	4.207	4.209	-0.002	15	16693	468.8	
71 Dichlorobromomethane	83	4.304	4.306	-0.002	99	91401	18.9	
72 2-Nitropropane	43	4.523	4.519	0.004	77	73690	42.3	
73 2-Chloroethyl vinyl ether	63	4.523	4.525	-0.002	82	52713	21.1	
74 cis-1,3-Dichloropropene	75	4.633	4.635	-0.002	91	115766	20.3	
75 4-Methyl-2-pentanone (MIBK)	58	4.742	4.744	-0.002	96	159543	105.0	
76 Toluene	91	4.852	4.854	-0.002	98	332151	20.3	
77 trans-1,3-Dichloropropene	75	5.083	5.085	-0.002	94	92003	19.0	
78 Ethyl methacrylate	69	5.101	5.103	-0.002	88	105697	21.1	
79 1,1,2-Trichloroethane	97	5.229	5.231	-0.002	86	65117	20.1	
80 Tetrachloroethene	166	5.272	5.267	0.005	86	84411	20.1	
81 1,3-Dichloropropane	76	5.369	5.371	-0.002	90	112651	19.1	
82 2-Hexanone	58	5.411	5.414	-0.003	96	133466	95.5	
83 n-Butyl acetate	43	5.491	5.487	0.004	98	89341	30.0	
84 Chlorodibromomethane	127	5.533	5.535	-0.002	90	49088	16.1	
85 Ethylene Dibromide	107	5.637	5.639	-0.003	99	64186	18.8	
87 Chlorobenzene	112	6.026	6.028	-0.002	95	213916	19.8	
88 Ethylbenzene	91	6.093	6.089	0.004	98	360605	19.1	
89 1,1,1,2-Tetrachloroethane	131	6.105	6.107	-0.002	85	69639	19.5	

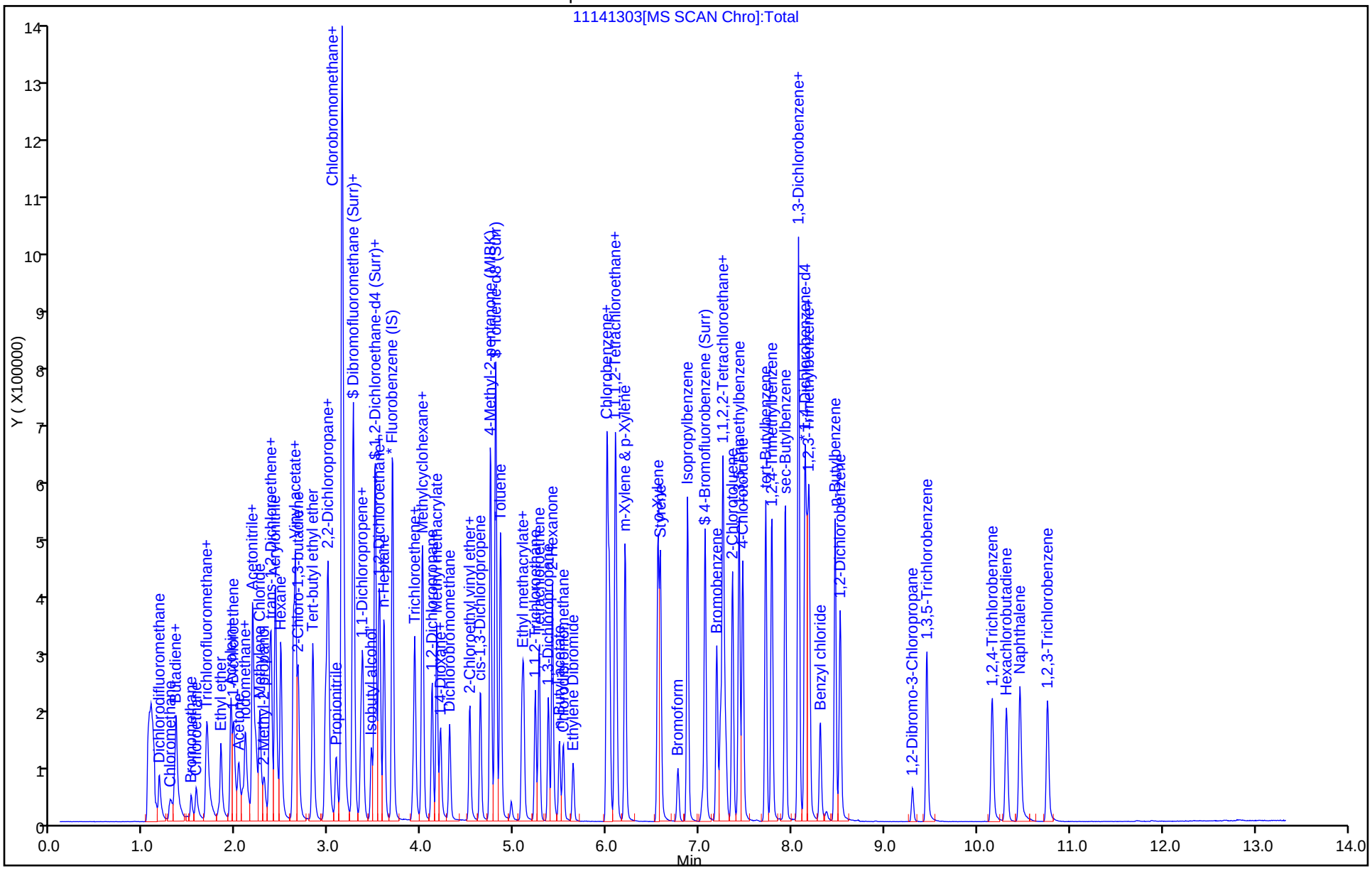
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
90 m-Xylene & p-Xylene	91	6.196	6.198	-0.002	99	266488	18.1	
91 o-Xylene	91	6.555	6.551	0.004	96	273893	18.8	
92 Styrene	104	6.579	6.582	-0.003	96	233661	19.7	
93 Bromoform	173	6.768	6.770	-0.002	97	43624	16.5	
94 Isopropylbenzene	105	6.871	6.874	-0.003	95	359075	19.3	
95 Bromobenzene	77	7.188	7.190	-0.002	91	129588	17.2	
96 1,1,2,2-Tetrachloroethane	83	7.230	7.226	0.004	80	84719	18.8	
97 N-Propylbenzene	91	7.255	7.251	0.004	98	429790	18.3	
98 1,2,3-Trichloropropane	110	7.273	7.269	0.004	75	28546	18.5	
99 trans-1,4-Dichloro-2-butene	53	7.285	7.287	-0.002	63	20192	14.9	
100 2-Chlorotoluene	91	7.358	7.360	-0.002	97	242810	18.0	
101 1,3,5-Trimethylbenzene	105	7.431	7.427	0.004	93	299633	18.7	
102 4-Chlorotoluene	91	7.468	7.470	-0.002	96	252937	17.8	
103 tert-Butylbenzene	119	7.717	7.719	-0.002	91	266941	19.2	
105 1,2,4-Trimethylbenzene	105	7.784	7.780	0.004	97	305928	18.8	
106 sec-Butylbenzene	105	7.930	7.926	0.004	94	393880	19.2	
108 1,3-Dichlorobenzene	146	8.070	8.072	-0.002	68	174952	19.7	
107 4-Isopropyltoluene	119	8.070	8.072	-0.002	96	349541	19.7	
109 1,4-Dichlorobenzene	146	8.161	8.163	-0.002	95	172890	19.1	
110 1,2,3-Trimethylbenzene	105	8.185	8.188	-0.003	0	298454	18.3	
111 Benzyl chloride	91	8.307	8.303	0.004	98	120416	16.0	
112 n-Butylbenzene	91	8.465	8.467	-0.002	94	291918	19.0	
113 1,2-Dichlorobenzene	146	8.520	8.522	-0.002	98	157653	19.5	
114 1,2-Dibromo-3-Chloropropane	157	9.299	9.301	-0.002	78	17862	17.0	
115 1,3,5-Trichlorobenzene	180	9.457	9.459	-0.002	98	108955	20.7	
116 1,2,4-Trichlorobenzene	180	10.163	10.159	0.004	93	96949	21.3	
117 Hexachlorobutadiene	225	10.315	10.317	-0.002	94	50646	20.7	
118 Naphthalene	128	10.461	10.463	-0.002	97	264842	18.8	
119 1,2,3-Trichlorobenzene	180	10.759	10.755	0.004	95	86951	20.8	
S 134 Xylenes, Total	1				0		36.9	
S 135 1,2-Dichloroethene, Total	1				0		38.4	

Report Date: 14-Nov-2013 10:40:33 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131114-28420.b\11141303.D

Injection Date:	14-Nov-2013 09:49:30	Instrument ID:	HP33	Operator ID:	JJR
Lims ID:	lcs	Lab Sample ID:	LCS 490-121825/3-A	Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260HP33	Limit Group:	MSV 8260B ICAL		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-121948/3

Matrix: Water | Lab File ID: 11141330.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/14/2013 22:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121948 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	99.90		5.00	2.66
71-43-2	Benzene	20.70		1.00	0.200
74-97-5	Bromochloromethane	21.58		1.00	0.150
75-27-4	Bromodichloromethane	20.25		1.00	0.170
75-25-2	Bromoform	17.70		1.00	0.290
74-83-9	Bromomethane	14.95		1.00	0.350
78-93-3	2-Butanone (MEK)	104.4		50.0	2.64
75-15-0	Carbon disulfide	19.60		1.00	0.220
56-23-5	Carbon tetrachloride	20.20		1.00	0.180
108-90-7	Chlorobenzene	21.14		1.00	0.180
124-48-1	Chlorodibromomethane	17.52		1.00	0.250
75-00-3	Chloroethane	17.74		1.00	0.360
67-66-3	Chloroform	19.80		1.00	0.230
74-87-3	Chloromethane	15.43		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	21.33		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	21.29		1.00	0.170
110-82-7	Cyclohexane	20.25		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	17.78		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	20.42		1.00	0.210
95-50-1	1,2-Dichlorobenzene	20.79		1.00	0.190
541-73-1	1,3-Dichlorobenzene	20.70		1.00	0.180
106-46-7	1,4-Dichlorobenzene	20.68		1.00	0.170
75-71-8	Dichlorodifluoromethane	19.55		1.00	0.170
75-34-3	1,1-Dichloroethane	20.51		1.00	0.240
107-06-2	1,2-Dichloroethane	20.12		1.00	0.200
75-35-4	1,1-Dichloroethene	22.12		1.00	0.250
78-87-5	1,2-Dichloropropane	20.16		1.00	0.250
100-41-4	Ethylbenzene	20.46		1.00	0.190
591-78-6	2-Hexanone	99.45		5.00	1.28
98-82-8	Isopropylbenzene	20.97		1.00	0.330
79-20-9	Methyl acetate	81.63		10.0	0.720
108-87-2	Methylcyclohexane	20.83		5.00	0.200
75-09-2	Methylene Chloride	20.90		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	110.3		5.00	0.810
1634-04-4	Methyl tert-butyl ether	19.35		1.00	0.170
103-65-1	N-Propylbenzene	19.53		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-121948/3

Matrix: Water | Lab File ID: 11141330.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/14/2013 22:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121948 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	21.13		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	20.00		1.00	0.190
127-18-4	Tetrachloroethene	21.42		1.00	0.140
109-99-9	Tetrahydrofuran	35.24		5.00	2.84
108-88-3	Toluene	21.61		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	20.03		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	19.49		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	20.82		1.00	0.200
71-55-6	1,1,1-Trichloroethane	19.93		1.00	0.190
79-00-5	1,1,2-Trichloroethane	21.63		1.00	0.190
79-01-6	Trichloroethene	21.76		1.00	0.200
75-69-4	Trichlorofluoromethane	18.45		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	21.13		1.00	0.330
75-01-4	Vinyl chloride	18.26		1.00	0.180
1330-20-7	Xylenes, Total	41.06		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	90		70-130
1868-53-7	Dibromofluoromethane (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP33\20131114-28445.b\11141330.D
Lims ID: lcs Lab Sample ID: LCS 490-121950/3-A
Client ID:
Sample Type: LCS
Inject. Date: 14-Nov-2013 22:20:30 ALS Bottle#: 30 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 490-0028445-003
Operator ID: JJR Instrument ID: HP33

Method: \\Nvlchrom\ChromData\HP33\20131114-28445.b\8260HP33.m
Limit Group: MSV 8260B ICAL
Last Update: 15-Nov-2013 09:38:11 Calib Date: 19-Oct-2013 00:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D

Column 1 : Detector MS SCAN
Process Host: XAWRK026

First Level Reviewer: redmondj Date: 15-Nov-2013 09:38:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.686	3.687	-0.001	99	468881	30.0	
* 2 Chlorobenzene-d5	117	6.004	6.004	0.0	83	325127	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.139	8.140	-0.001	94	162368	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.272	3.273	-0.001	81	113121	30.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.504	3.504	0.0	85	127536	28.9	
$ 6 Toluene-d8 (Surr)	98	4.799	4.800	-0.001	91	444687	30.7	
$ 7 4-Bromofluorobenzene (Surr)	95	7.062	7.063	-0.001	92	153466	27.0	
9 Dichlorodifluoromethane	85	1.168	1.168	0.0	87	81295	19.6	
10 Chloromethane	50	1.295	1.290	0.005	81	61253	15.4	
11 Vinyl chloride	62	1.338	1.338	0.0	76	78324	18.3	
12 Butadiene	54	1.356	1.351	0.005	0	68895	16.8	
13 Bromomethane	96	1.514	1.515	-0.001	87	18604	15.0	
14 Chloroethane	64	1.569	1.570	-0.001	95	51089	17.7	
15 Dichlorofluoromethane	67	1.679	1.679	0.0	93	125781	18.3	
16 Trichlorofluoromethane	101	1.691	1.691	0.0	87	104146	18.5	
18 Ethyl ether	59	1.837	1.837	0.0	92	64737	20.7	
20 Acrolein	56	1.952	1.947	0.005	93	22275	36.6	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.946	1.947	-0.001	84	70830	21.1	
21 1,1-Dichloroethene	96	1.977	1.977	0.0	89	67486	22.1	
22 Acetone	58	2.031	2.026	0.005	100	39511	99.9	
23 Iodomethane	142	2.068	2.068	0.0	97	40854	17.4	
25 Isopropyl alcohol	45	2.092	2.093	-0.001	73	42122	253.6	
17 Ethanol	45	2.092	2.093	-0.001	57	42122	521.4	
26 Carbon disulfide	76	2.098	2.099	-0.001	99	201060	19.6	
27 3-Chloro-1-propene	76	2.177	2.172	0.005	89	48189	20.1	
29 Acetonitrile	41	2.171	2.178	-0.007	73	81799	173.1	
28 Methyl acetate	43	2.183	2.178	0.005	97	318575	81.6	
30 Methylene Chloride	84	2.256	2.257	-0.001	83	77210	20.9	
31 2-Methyl-2-propanol	59	2.299	2.300	-0.001	96	58697	215.5	
32 Methyl tert-butyl ether	73	2.366	2.360	0.006	89	207922	19.3	
33 trans-1,2-Dichloroethene	61	2.378	2.379	-0.001	97	101870	20.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
34 Acrylonitrile	53	2.421	2.421	0.0	100	320339	203.6	
35 Hexane	57	2.482	2.482	0.0	88	109204	18.0	
36 Isopropyl ether	45	2.621	2.616	0.005	93	248422	18.6	
37 1,1-Dichloroethane	63	2.640	2.640	0.0	84	138557	20.5	
38 Vinyl acetate	43	2.640	2.640	0.0	95	309656	30.3	
39 2-Chloro-1,3-butadiene	53	2.670	2.671	-0.001	90	113439	19.0	
40 Tert-butyl ethyl ether	59	2.828	2.829	-0.001	97	222023	18.9	
41 2,2-Dichloropropane	77	2.962	2.963	-0.001	93	91485	17.1	
42 cis-1,2-Dichloroethene	61	2.986	2.981	0.005	69	135786	21.3	
44 Ethyl acetate	43	2.993	2.993	0.0	93	317514	49.4	
43 2-Butanone (MEK)	72	2.993	2.993	0.0	91	48299	104.4	
45 Propionitrile	54	3.078	3.078	0.0	98	122989	213.8	
46 Chlorobromomethane	130	3.139	3.139	0.0	78	42618	21.6	
47 Methacrylonitrile	41	3.145	3.145	0.0	92	526200	191.1	
48 Tetrahydrofuran	42	3.145	3.145	0.0	64	64923	35.2	
49 Chloroform	83	3.169	3.170	-0.001	76	128111	19.8	
50 Cyclohexane	56	3.260	3.261	-0.001	91	142812	20.3	
51 1,1,1-Trichloroethane	97	3.266	3.267	-0.001	87	105927	19.9	
53 Carbon tetrachloride	117	3.345	3.352	-0.007	82	89312	20.2	
54 1,1-Dichloropropene	75	3.370	3.370	0.0	96	99581	20.5	
55 Isobutyl alcohol	43	3.461	3.462	-0.001	94	80971	220.8	
56 Benzene	78	3.497	3.498	-0.001	95	313364	20.7	
58 Tert-amyl methyl ether	73	3.540	3.541	-0.001	96	201114	19.0	
59 1,2-Dichloroethane	62	3.552	3.553	-0.001	79	98452	20.1	
60 n-Heptane	43	3.595	3.595	0.0	91	105770	16.5	
61 n-Butanol	56	3.911	3.906	0.005	89	47209	575.6	
62 Trichloroethene	130	3.929	3.930	-0.001	94	80876	21.8	
64 Cyclohexanone	55	4.008	4.009	-0.001	76	208038	191.2	
63 Ethyl acrylate	55	4.008	4.009	-0.001	0	208038	19.1	
65 Methylcyclohexane	83	4.015	4.015	0.0	93	142234	20.8	
66 1,2-Dichloropropane	63	4.118	4.113	0.005	96	79608	20.2	
68 Methyl methacrylate	41	4.167	4.161	0.006	88	143026	37.0	
69 Dibromomethane	93	4.203	4.204	-0.001	89	43986	20.7	
70 1,4-Dioxane	88	4.215	4.210	0.005	3	17160	523.9	
71 Dichlorobromomethane	83	4.307	4.307	0.0	98	90777	20.2	
73 2-Chloroethyl vinyl ether	63	4.526	4.520	0.006	82	52221	22.4	
72 2-Nitropropane	43	4.520	4.520	0.0	81	73343	45.5	
74 cis-1,3-Dichloropropene	75	4.635	4.636	-0.001	92	113543	21.3	
75 4-Methyl-2-pentanone (MIBK)	58	4.745	4.745	0.0	96	156577	110.3	
76 Toluene	91	4.854	4.855	-0.001	98	329828	21.6	
77 trans-1,3-Dichloropropene	75	5.085	5.086	-0.001	96	88340	19.5	
78 Ethyl methacrylate	69	5.104	5.104	0.0	89	102949	22.0	
79 1,1,2-Trichloroethane	97	5.231	5.232	-0.001	85	65524	21.6	
80 Tetrachloroethene	166	5.274	5.268	0.006	86	84153	21.4	
81 1,3-Dichloropropane	76	5.371	5.372	-0.001	90	113057	20.5	
82 2-Hexanone	58	5.414	5.414	0.0	96	129910	99.5	
83 n-Butyl acetate	43	5.487	5.487	0.0	98	92174	33.4	
84 Chlorodibromomethane	127	5.529	5.530	-0.001	90	50273	17.5	
85 Ethylene Dibromide	107	5.639	5.639	0.0	98	65295	20.4	
87 Chlorobenzene	112	6.028	6.029	-0.001	94	213106	21.1	
88 Ethylbenzene	91	6.089	6.090	-0.001	98	362115	20.5	
89 1,1,1,2-Tetrachloroethane	131	6.107	6.108	-0.001	85	71509	21.4	

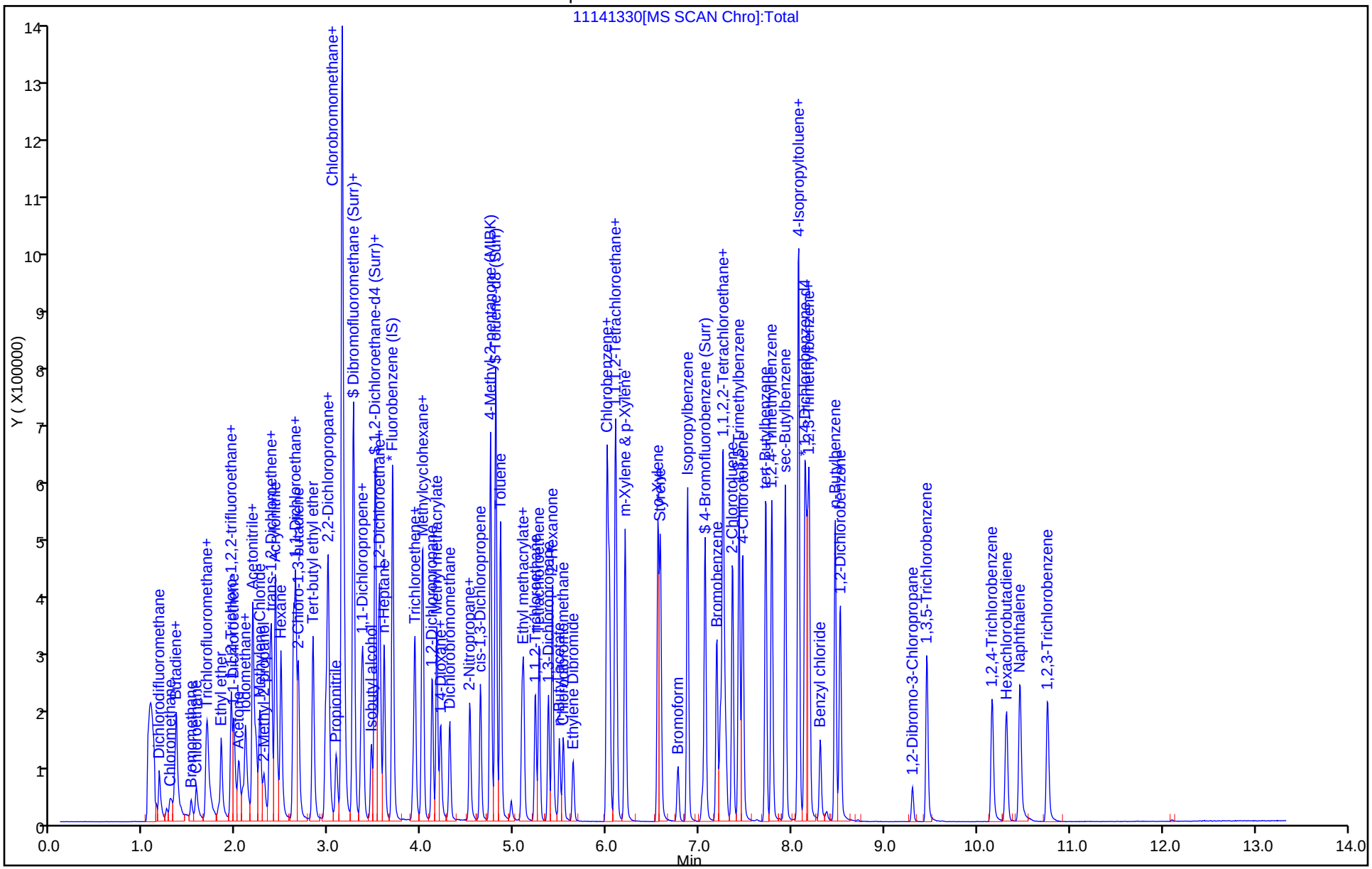
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
90 m-Xylene & p-Xylene	91	6.199	6.199	0.0	99	280070	20.4	
91 o-Xylene	91	6.551	6.552	-0.001	97	281247	20.7	
92 Styrene	104	6.582	6.582	0.0	95	233900	21.1	
93 Bromoform	173	6.770	6.771	-0.001	97	43858	17.7	
94 Isopropylbenzene	105	6.874	6.874	0.0	95	364116	21.0	
95 Bromobenzene	77	7.190	7.185	0.005	90	134069	18.8	
96 1,1,2,2-Tetrachloroethane	83	7.227	7.227	0.0	81	85747	20.0	
97 N-Propylbenzene	91	7.251	7.252	-0.001	99	436162	19.5	
98 1,2,3-Trichloropropane	110	7.269	7.270	-0.001	75	28623	19.5	
99 trans-1,4-Dichloro-2-butene	53	7.287	7.288	-0.001	67	20760	16.2	
100 2-Chlorotoluene	91	7.354	7.361	-0.007	97	241945	18.9	
101 1,3,5-Trimethylbenzene	105	7.427	7.428	-0.001	85	305749	20.1	
102 4-Chlorotoluene	91	7.470	7.471	-0.001	96	268791	20.0	
103 tert-Butylbenzene	119	7.719	7.714	0.005	90	267523	20.3	
105 1,2,4-Trimethylbenzene	105	7.780	7.781	-0.001	97	306696	19.9	
106 sec-Butylbenzene	105	7.926	7.927	-0.001	93	391336	20.1	
107 4-Isopropyltoluene	119	8.072	8.073	-0.001	97	343823	20.4	
108 1,3-Dichlorobenzene	146	8.072	8.073	-0.001	69	174558	20.7	
109 1,4-Dichlorobenzene	146	8.163	8.164	-0.001	95	177368	20.7	
110 1,2,3-Trimethylbenzene	105	8.188	8.182	0.006	0	301215	19.4	
111 Benzyl chloride	91	8.303	8.304	-0.001	98	97858	14.3	
112 n-Butylbenzene	91	8.468	8.468	0.0	95	288308	19.8	
113 1,2-Dichlorobenzene	146	8.522	8.523	-0.001	98	159955	20.8	
114 1,2-Dibromo-3-Chloropropane	157	9.295	9.302	-0.007	75	17746	17.8	
115 1,3,5-Trichlorobenzene	180	9.459	9.454	0.005	97	108225	21.7	
116 1,2,4-Trichlorobenzene	180	10.159	10.160	-0.001	94	89951	20.8	
117 Hexachlorobutadiene	225	10.317	10.318	-0.001	95	47779	20.6	
118 Naphthalene	128	10.463	10.464	-0.001	97	264986	19.8	
119 1,2,3-Trichlorobenzene	180	10.761	10.756	0.005	95	88277	22.2	
S 134 Xylenes, Total	1				0		41.1	
S 135 1,2-Dichloroethene, Total	1				0		41.4	

Report Date: 15-Nov-2013 09:38:12 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131114-28445.b\11141330.D

Injection Date:	14-Nov-2013 22:20:30	Instrument ID:	HP33	Operator ID:	JJR
Lims ID:	lcs	Lab Sample ID:	LCS 490-121950/3-A	Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	8260HP33	Limit Group:	MSV 8260B ICAL		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 490-121823/4

Matrix: Water | Lab File ID: 11141304.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/14/2013 10:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121823 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	93.49		5.00	2.66
71-43-2	Benzene	20.10		1.00	0.200
74-97-5	Bromochloromethane	21.55		1.00	0.150
75-27-4	Bromodichloromethane	19.74		1.00	0.170
75-25-2	Bromoform	17.77		1.00	0.290
74-83-9	Bromomethane	18.58		1.00	0.350
78-93-3	2-Butanone (MEK)	106.2		50.0	2.64
75-15-0	Carbon disulfide	18.33		1.00	0.220
56-23-5	Carbon tetrachloride	20.16		1.00	0.180
108-90-7	Chlorobenzene	20.68		1.00	0.180
124-48-1	Chlorodibromomethane	17.40		1.00	0.250
75-00-3	Chloroethane	17.40		1.00	0.360
67-66-3	Chloroform	19.11		1.00	0.230
74-87-3	Chloromethane	15.88		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	21.30		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	21.78		1.00	0.170
110-82-7	Cyclohexane	19.65		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	18.53		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	20.62		1.00	0.210
95-50-1	1,2-Dichlorobenzene	20.49		1.00	0.190
541-73-1	1,3-Dichlorobenzene	20.70		1.00	0.180
106-46-7	1,4-Dichlorobenzene	20.68		1.00	0.170
75-71-8	Dichlorodifluoromethane	18.82		1.00	0.170
75-34-3	1,1-Dichloroethane	20.09		1.00	0.240
107-06-2	1,2-Dichloroethane	20.13		1.00	0.200
75-35-4	1,1-Dichloroethene	20.25		1.00	0.250
78-87-5	1,2-Dichloropropane	19.99		1.00	0.250
100-41-4	Ethylbenzene	19.67		1.00	0.190
591-78-6	2-Hexanone	104.0		5.00	1.28
98-82-8	Isopropylbenzene	20.24		1.00	0.330
79-20-9	Methyl acetate	82.87		10.0	0.720
108-87-2	Methylcyclohexane	20.38		5.00	0.200
75-09-2	Methylene Chloride	19.99		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	114.3		5.00	0.810
1634-04-4	Methyl tert-butyl ether	19.15		1.00	0.170
103-65-1	N-Propylbenzene	19.13		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 490-121823/4

Matrix: Water | Lab File ID: 11141304.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/14/2013 10:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121823 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	20.58		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	19.67		1.00	0.190
127-18-4	Tetrachloroethene	21.04		1.00	0.140
109-99-9	Tetrahydrofuran	36.31		5.00	2.84
108-88-3	Toluene	21.39		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	19.18		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	20.52		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	20.99		1.00	0.200
71-55-6	1,1,1-Trichloroethane	19.31		1.00	0.190
79-00-5	1,1,2-Trichloroethane	21.48		1.00	0.190
79-01-6	Trichloroethene	20.98		1.00	0.200
75-69-4	Trichlorofluoromethane	17.83		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	21.12		1.00	0.330
75-01-4	Vinyl chloride	17.45		1.00	0.180
1330-20-7	Xylenes, Total	38.75		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	91		70-130
1868-53-7	Dibromofluoromethane (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		70-130
2037-26-5	Toluene-d8 (Surr)	105		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP33\20131114-28420.b\11141304.D
Lims ID: lcsd Lab Sample ID: LCSD 490-121825/4-A
Client ID:
Sample Type: LCSD
Inject. Date: 14-Nov-2013 10:16:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 490-0028420-004
Operator ID: JJR Instrument ID: HP33

Method: \\Nvlchrom\ChromData\HP33\20131114-28420.b\8260HP33.m
Limit Group: MSV 8260B ICAL
Last Update: 14-Nov-2013 10:41:42 Calib Date: 19-Oct-2013 00:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D

Column 1 : Detector MS SCAN
Process Host: XAWRK035

First Level Reviewer: redmondj Date: 14-Nov-2013 10:41:42

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
*	1 Fluorobenzene (IS)	96	3.689	3.692	-0.003	99	472411	30.0	
*	2 Chlorobenzene-d5	117	6.001	6.003	-0.002	85	320312	30.0	
*	3 1,4-Dichlorobenzene-d4	152	8.142	8.145	-0.003	93	157843	30.0	
$	4 Dibromofluoromethane (Surr)	111	3.269	3.272	-0.003	81	113323	30.3	
$	5 1,2-Dichloroethane-d4 (Surr)	65	3.506	3.503	0.003	84	124060	27.9	
$	6 Toluene-d8 (Surr)	98	4.802	4.805	-0.003	91	451508	31.6	
$	7 4-Bromofluorobenzene (Surr)	95	7.059	7.062	-0.003	91	150541	27.3	
	9 Dichlorodifluoromethane	85	1.170	1.167	0.003	87	78812	18.8	
	10 Chloromethane	50	1.286	1.295	-0.009	100	63531	15.9	
	11 Vinyl chloride	62	1.335	1.338	-0.003	79	75386	17.4	
	12 Butadiene	54	1.353	1.350	0.003	0	69965	16.9	
	13 Bromomethane	96	1.511	1.514	-0.003	88	25896	18.6	
	14 Chloroethane	64	1.566	1.569	-0.003	99	50461	17.4	
	15 Dichlorofluoromethane	67	1.675	1.678	-0.003	82	118931	17.2	
	16 Trichlorofluoromethane	101	1.688	1.690	-0.002	97	101413	17.8	
	18 Ethyl ether	59	1.840	1.836	0.004	92	64162	20.3	
	19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.943	1.940	0.003	85	71338	21.1	
	20 Acrolein	56	1.949	1.946	0.003	44	24910	40.6	
	21 1,1-Dichloroethene	96	1.973	1.976	-0.003	89	62253	20.3	
	22 Acetone	58	2.028	2.031	-0.003	99	37414	93.5	
	23 Iodomethane	142	2.071	2.068	0.003	98	44122	18.4	
	17 Ethanol	45	2.089	2.092	-0.003	4	37318	460.0	
	25 Isopropyl alcohol	45	2.089	2.092	-0.003	17	37318	223.0	
	26 Carbon disulfide	76	2.101	2.098	0.003	99	189368	18.3	
	27 3-Chloro-1-propene	76	2.174	2.171	0.003	90	48809	20.2	
	29 Acetonitrile	41	2.174	2.177	-0.003	74	77050	161.8	
	28 Methyl acetate	43	2.180	2.177	0.003	97	325859	82.9	
	30 Methylene Chloride	84	2.253	2.256	-0.003	87	74395	20.0	
	31 2-Methyl-2-propanol	59	2.302	2.299	0.003	94	58772	214.2	
	32 Methyl tert-butyl ether	73	2.363	2.360	0.003	88	207358	19.2	
	33 trans-1,2-Dichloroethene	61	2.381	2.378	0.003	94	98247	19.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
34 Acrylonitrile	53	2.424	2.420	0.004	98	319563	201.6	
35 Hexane	57	2.484	2.481	0.003	86	117894	19.3	
36 Isopropyl ether	45	2.618	2.615	0.003	94	250635	18.6	
38 Vinyl acetate	43	2.643	2.639	0.004	97	415344	40.4	
37 1,1-Dichloroethane	63	2.637	2.639	-0.002	84	136791	20.1	
39 2-Chloro-1,3-butadiene	53	2.673	2.670	0.003	86	110201	18.3	
40 Tert-butyl ethyl ether	59	2.825	2.828	-0.003	98	224803	18.9	
41 2,2-Dichloropropane	77	2.965	2.962	0.003	90	98056	18.2	
42 cis-1,2-Dichloroethene	61	2.983	2.980	0.003	80	136556	21.3	
44 Ethyl acetate	43	2.995	2.992	0.003	94	317629	49.0	
43 2-Butanone (MEK)	72	2.995	2.992	0.003	91	49508	106.2	
45 Propionitrile	54	3.081	3.077	0.004	98	124338	214.5	
46 Chlorobromomethane	130	3.135	3.132	0.003	77	42876	21.5	
47 Methacrylonitrile	41	3.141	3.144	-0.003	92	537066	193.6	
48 Tetrahydrofuran	42	3.148	3.144	0.004	81	67390	36.3	
49 Chloroform	83	3.166	3.163	0.003	71	124602	19.1	
50 Cyclohexane	56	3.263	3.260	0.003	90	139628	19.7	
51 1,1,1-Trichloroethane	97	3.263	3.266	-0.003	85	103384	19.3	
53 Carbon tetrachloride	117	3.348	3.345	0.003	81	89823	20.2	
54 1,1-Dichloropropene	75	3.367	3.369	-0.002	97	97213	19.8	
55 Isobutyl alcohol	43	3.458	3.461	-0.003	96	81181	219.7	
56 Benzene	78	3.494	3.497	-0.003	97	306623	20.1	
58 Tert-amyl methyl ether	73	3.543	3.540	0.003	96	203114	19.0	
59 1,2-Dichloroethane	62	3.555	3.552	0.003	84	99208	20.1	
60 n-Heptane	43	3.598	3.595	0.003	90	119087	18.5	
61 n-Butanol	56	3.908	3.911	-0.003	88	46336	560.8	
62 Trichloroethene	130	3.926	3.929	-0.003	97	78552	21.0	
63 Ethyl acrylate	55	4.005	4.008	-0.003	0	207901	19.0	
64 Cyclohexanone	55	4.005	4.008	-0.003	75	207901	189.6	
65 Methylcyclohexane	83	4.011	4.014	-0.003	93	140271	20.4	
66 1,2-Dichloropropane	63	4.115	4.118	-0.003	95	79552	20.0	
68 Methyl methacrylate	41	4.164	4.166	-0.002	90	140936	36.2	
69 Dibromomethane	93	4.206	4.203	0.003	89	45015	21.0	
70 1,4-Dioxane	88	4.212	4.209	0.003	14	16192	488.6	
71 Dichlorobromomethane	83	4.303	4.306	-0.003	93	89160	19.7	
72 2-Nitropropane	43	4.516	4.519	-0.003	80	75743	46.6	
73 2-Chloroethyl vinyl ether	63	4.522	4.525	-0.003	82	53797	23.4	
74 cis-1,3-Dichloropropene	75	4.638	4.635	0.003	91	114446	21.8	
75 4-Methyl-2-pentanone (MIBK)	58	4.748	4.744	0.004	96	159874	114.3	
76 Toluene	91	4.851	4.854	-0.003	98	321671	21.4	
77 trans-1,3-Dichloropropene	75	5.082	5.085	-0.003	91	91635	20.5	
78 Ethyl methacrylate	69	5.100	5.103	-0.003	87	104547	22.6	
79 1,1,2-Trichloroethane	97	5.228	5.231	-0.003	85	64101	21.5	
80 Tetrachloroethene	166	5.271	5.267	0.004	86	81420	21.0	
81 1,3-Dichloropropane	76	5.368	5.371	-0.003	90	111059	20.4	
82 2-Hexanone	58	5.411	5.414	-0.003	96	133897	104.0	
83 n-Butyl acetate	43	5.490	5.487	0.004	99	97906	35.2	
84 Chlorodibromomethane	127	5.532	5.535	-0.003	87	49175	17.4	
85 Ethylene Dibromide	107	5.636	5.639	-0.003	98	64953	20.6	
87 Chlorobenzene	112	6.025	6.028	-0.003	94	205441	20.7	
88 Ethylbenzene	91	6.092	6.089	0.003	98	342926	19.7	
89 1,1,1,2-Tetrachloroethane	131	6.104	6.107	-0.003	84	69153	21.0	

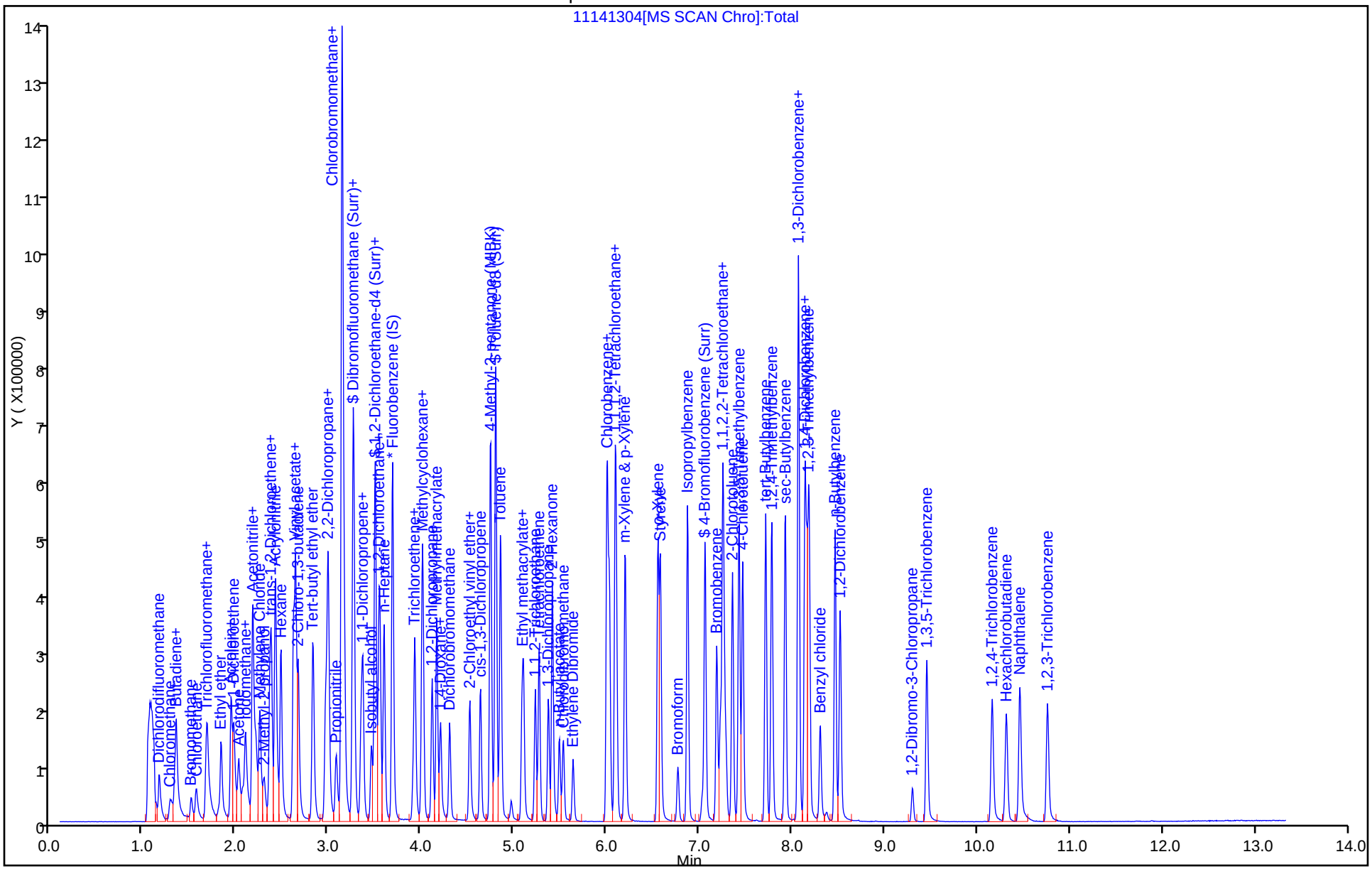
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
90 m-Xylene & p-Xylene	91	6.195	6.198	-0.003	99	257155	19.0	
91 o-Xylene	91	6.554	6.551	0.003	96	264733	19.7	
92 Styrene	104	6.579	6.582	-0.003	95	224472	20.6	
93 Bromoform	173	6.767	6.770	-0.003	97	43374	17.8	
94 Isopropylbenzene	105	6.871	6.874	-0.003	95	346204	20.2	
95 Bromobenzene	77	7.187	7.190	-0.003	92	128557	18.5	
96 1,1,2,2-Tetrachloroethane	83	7.230	7.226	0.004	80	81986	19.7	
97 N-Propylbenzene	91	7.254	7.251	0.003	96	415382	19.1	
98 1,2,3-Trichloropropane	110	7.272	7.269	0.003	74	28922	20.3	
99 trans-1,4-Dichloro-2-butene	53	7.290	7.287	0.003	49	19668	15.8	
100 2-Chlorotoluene	91	7.357	7.360	-0.003	97	227254	18.2	
101 1,3,5-Trimethylbenzene	105	7.430	7.427	0.003	85	285069	19.3	
102 4-Chlorotoluene	91	7.467	7.470	-0.003	96	246820	18.8	
103 tert-Butylbenzene	119	7.716	7.719	-0.003	91	251220	19.6	
105 1,2,4-Trimethylbenzene	105	7.783	7.780	0.003	97	295178	19.7	
106 sec-Butylbenzene	105	7.929	7.926	0.003	94	368148	19.5	
108 1,3-Dichlorobenzene	146	8.069	8.072	-0.003	70	169634	20.7	
107 4-Isopropyltoluene	119	8.069	8.072	-0.003	96	330414	20.2	
109 1,4-Dichlorobenzene	146	8.160	8.163	-0.003	92	172441	20.7	
110 1,2,3-Trimethylbenzene	105	8.185	8.188	-0.003	0	287072	19.0	
111 Benzyl chloride	91	8.306	8.303	0.003	98	116699	16.6	
112 n-Butylbenzene	91	8.465	8.467	-0.003	95	275508	19.4	
113 1,2-Dichlorobenzene	146	8.519	8.522	-0.003	98	153192	20.5	
114 1,2-Dibromo-3-Chloropropane	157	9.304	9.301	0.003	81	18023	18.5	
115 1,3,5-Trichlorobenzene	180	9.456	9.459	-0.003	97	105950	21.8	
116 1,2,4-Trichlorobenzene	180	10.162	10.159	0.003	94	88128	21.0	
117 Hexachlorobutadiene	225	10.314	10.317	-0.003	93	46397	20.6	
118 Naphthalene	128	10.460	10.463	-0.003	97	260574	20.0	
119 1,2,3-Trichlorobenzene	180	10.758	10.755	0.003	94	88083	22.8	
S 134 Xylenes, Total	1				0		38.7	
S 135 1,2-Dichloroethene, Total	1				0		40.5	

Report Date: 14-Nov-2013 10:41:42 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131114-28420.b\11141304.D

Injection Date:	14-Nov-2013 10:16:30	Instrument ID:	HP33	Operator ID:	JJR
Lims ID:	lcsd	Lab Sample ID:	LCSD 490-121825/4-A	Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260HP33	Limit Group:	MSV 8260B ICAL		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: | Lab Sample ID: 490-39510-B-1 MS

Matrix: Water | Lab File ID: 11141326.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/14/2013 20:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121823 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	239.2		5.00	2.66
71-43-2	Benzene	50.56		1.00	0.200
74-97-5	Bromochloromethane	51.86		1.00	0.150
75-27-4	Bromodichloromethane	50.70		1.00	0.170
75-25-2	Bromoform	44.20		1.00	0.290
74-83-9	Bromomethane	29.04		1.00	0.350
78-93-3	2-Butanone (MEK)	249.7		50.0	2.64
75-15-0	Carbon disulfide	46.68		1.00	0.220
56-23-5	Carbon tetrachloride	52.08		1.00	0.180
108-90-7	Chlorobenzene	49.78		1.00	0.180
124-48-1	Chlorodibromomethane	43.08		1.00	0.250
75-00-3	Chloroethane	49.03		1.00	0.360
67-66-3	Chloroform	47.41		1.00	0.230
74-87-3	Chloromethane	41.33		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	50.73		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	51.79		1.00	0.170
110-82-7	Cyclohexane	57.41		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	42.39		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	47.50		1.00	0.210
95-50-1	1,2-Dichlorobenzene	48.57		1.00	0.190
541-73-1	1,3-Dichlorobenzene	48.97		1.00	0.180
106-46-7	1,4-Dichlorobenzene	48.49		1.00	0.170
75-71-8	Dichlorodifluoromethane	54.33		1.00	0.170
75-34-3	1,1-Dichloroethane	50.08		1.00	0.240
107-06-2	1,2-Dichloroethane	46.58		1.00	0.200
75-35-4	1,1-Dichloroethene	54.65		1.00	0.250
78-87-5	1,2-Dichloropropane	48.93		1.00	0.250
100-41-4	Ethylbenzene	49.39		1.00	0.190
591-78-6	2-Hexanone	253.9		5.00	1.28
98-82-8	Isopropylbenzene	52.28		1.00	0.330
79-20-9	Methyl acetate	185.8		10.0	0.720
108-87-2	Methylcyclohexane	54.43		5.00	0.200
75-09-2	Methylene Chloride	48.75		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	273.7		5.00	0.810
1634-04-4	Methyl tert-butyl ether	49.35		1.00	0.170
103-65-1	N-Propylbenzene	49.76		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: | Lab Sample ID: 490-39510-B-1 MS

Matrix: Water | Lab File ID: 11141326.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/14/2013 20:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121823 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	50.94		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	46.96		1.00	0.190
127-18-4	Tetrachloroethene	52.81		1.00	0.140
109-99-9	Tetrahydrofuran	208.0		5.00	2.84
108-88-3	Toluene	51.62		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	49.69		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	49.20		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	50.82		1.00	0.200
71-55-6	1,1,1-Trichloroethane	49.60		1.00	0.190
79-00-5	1,1,2-Trichloroethane	49.13		1.00	0.190
79-01-6	Trichloroethene	52.43		1.00	0.200
75-69-4	Trichlorofluoromethane	52.52		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	52.91		1.00	0.330
75-01-4	Vinyl chloride	49.77		1.00	0.180
1330-20-7	Xylenes, Total	98.54		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	91		70-130
1868-53-7	Dibromofluoromethane (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP33\20131114-28420.b\11141326.D
Lims ID: 490-39510-B-1 MS Lab Sample ID: 490-39510-1
Client ID:
Sample Type: MS
Inject. Date: 14-Nov-2013 20:32:30 ALS Bottle#: 26 Worklist Smp#: 46
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 490-39510-B-1 MS
Misc. Info.: 490-0028420-046
Operator ID: JJR Instrument ID: HP33

Method: \\Nvlchrom\ChromData\HP33\20131114-28420.b\8260HP33.m
Limit Group: MSV 8260B ICAL
Last Update: 15-Nov-2013 10:08:52 Calib Date: 19-Oct-2013 00:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D

Column 1 : Detector MS SCAN
Process Host: XAWRK026

First Level Reviewer: redmondj Date: 15-Nov-2013 10:10:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.692	3.692	0.0	99	479559	30.0	
* 2 Chlorobenzene-d5	117	6.003	6.003	0.0	85	338768	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.139	8.145	-0.006	93	166220	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.272	3.272	0.0	70	115277	30.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.503	3.503	0.0	83	123873	27.5	
$ 6 Toluene-d8 (Surr)	98	4.799	4.805	-0.006	90	458364	30.4	
$ 7 4-Bromofluorobenzene (Surr)	95	7.062	7.062	0.0	92	159126	27.4	
9 Dichlorodifluoromethane	85	1.167	1.167	0.0	88	231007	54.3	
10 Chloromethane	50	1.289	1.295	-0.006	89	167821	41.3	
11 Vinyl chloride	62	1.337	1.338	-0.001	83	218325	49.8	
12 Butadiene	54	1.350	1.350	0.0	0	205990	49.1	
13 Bromomethane	96	1.508	1.514	-0.006	89	47247	29.0	
14 Chloroethane	64	1.569	1.569	0.0	100	144382	49.0	
15 Dichlorofluoromethane	67	1.678	1.678	0.0	82	346115	49.3	
16 Trichlorofluoromethane	101	1.690	1.690	0.0	88	303181	52.5	
18 Ethyl ether	59	1.836	1.836	0.0	93	152051	47.4	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.946	1.940	0.006	85	181402	52.9	
20 Acrolein	56	1.946	1.946	0.0	96	59387	95.4	
21 1,1-Dichloroethene	96	1.976	1.976	0.0	88	170503	54.6	
22 Acetone	58	2.031	2.031	0.0	100	93225	239.2	
23 Iodomethane	142	2.067	2.068	-0.001	97	119507	42.6	
17 Ethanol	45	2.092	2.092	0.0	1	92895	1109.6	
25 Isopropyl alcohol	45	2.092	2.092	0.0	10	92895	546.8	
26 Carbon disulfide	76	2.098	2.098	0.0	99	489719	46.7	
27 3-Chloro-1-propene	76	2.177	2.171	0.006	85	138355	56.4	
29 Acetonitrile	41	2.177	2.177	0.0	67	214569	444.0	
28 Methyl acetate	43	2.183	2.177	0.006	97	741447	185.8	
30 Methylene Chloride	84	2.256	2.256	0.0	82	184195	48.8	
31 2-Methyl-2-propanol	59	2.305	2.299	0.006	95	237802	853.6	
32 Methyl tert-butyl ether	73	2.366	2.360	0.006	87	542450	49.4	
33 trans-1,2-Dichloroethene	61	2.378	2.378	0.0	93	258421	49.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
34 Acrylonitrile	53	2.420	2.420	0.0	98	744117	462.4	
35 Hexane	57	2.481	2.481	0.0	88	292465	47.1	
36 Isopropyl ether	45	2.621	2.615	0.006	93	612386	44.8	
38 Vinyl acetate	43	2.645	2.639	0.006	97	941544	90.2	
37 1,1-Dichloroethane	63	2.639	2.639	0.0	83	346067	50.1	
39 2-Chloro-1,3-butadiene	53	2.670	2.670	0.0	88	292035	47.9	
40 Tert-butyl ethyl ether	59	2.828	2.828	0.0	98	535805	44.5	
41 2,2-Dichloropropane	77	2.968	2.962	0.006	88	241556	44.2	
42 cis-1,2-Dichloroethene	61	2.986	2.980	0.006	67	330193	50.7	
44 Ethyl acetate	43	2.992	2.992	0.0	93	726562	110.5	
43 2-Butanone (MEK)	72	2.998	2.992	0.006	97	118166	249.7	
45 Propionitrile	54	3.077	3.077	0.0	99	289396	491.9	
46 Chlorobromomethane	130	3.138	3.132	0.006	85	104759	51.9	
47 Methacrylonitrile	41	3.144	3.144	0.0	93	1374052	488.0	
48 Tetrahydrofuran	42	3.144	3.144	0.0	38	391844	208.0	
49 Chloroform	83	3.169	3.163	0.006	80	313791	47.4	
50 Cyclohexane	56	3.260	3.260	0.0	93	414007	57.4	
52 tert-Butyl Formate	59	3.260	3.265	-0.005	28	3355	0.8164	
51 1,1,1-Trichloroethane	97	3.266	3.266	0.0	90	269604	49.6	
53 Carbon tetrachloride	117	3.351	3.345	0.006	90	235570	52.1	
54 1,1-Dichloropropene	75	3.369	3.369	0.0	96	251594	50.6	
55 Isobutyl alcohol	43	3.461	3.461	0.0	95	202798	540.7	
56 Benzene	78	3.497	3.497	0.0	97	782939	50.6	
57 t-Amyl alcohol	59	3.540	3.532	0.008	43	12802	40.2	
58 Tert-amyl methyl ether	73	3.540	3.540	0.0	97	493246	45.5	
59 1,2-Dichloroethane	62	3.558	3.552	0.006	84	233080	46.6	
60 n-Heptane	43	3.594	3.595	-0.001	90	287591	44.0	
61 n-Butanol	56	3.911	3.911	0.0	89	116550	1389.5	
62 Trichloroethene	130	3.929	3.929	0.0	94	199297	52.4	
63 Ethyl acrylate	55	4.008	4.008	0.0	0	532535	47.8	
64 Cyclohexanone	55	4.008	4.008	0.0	76	532535	478.4	
65 Methylcyclohexane	83	4.014	4.014	0.0	94	380189	54.4	
66 1,2-Dichloropropane	63	4.118	4.118	0.0	95	197619	48.9	
68 Methyl methacrylate	41	4.166	4.166	0.0	88	344944	87.3	
69 Dibromomethane	93	4.203	4.203	0.0	89	105437	48.4	
70 1,4-Dioxane	88	4.209	4.209	0.0	13	38008	1173.2	
71 Dichlorobromomethane	83	4.306	4.306	0.0	94	232481	50.7	
72 2-Nitropropane	43	4.519	4.519	0.0	97	106540	64.6	
74 cis-1,3-Dichloropropene	75	4.635	4.635	0.0	93	287803	51.8	
75 4-Methyl-2-pentanone (MIBK)	58	4.744	4.744	0.0	96	405016	273.7	
76 Toluene	91	4.854	4.854	0.0	98	820950	51.6	
77 trans-1,3-Dichloropropene	75	5.085	5.085	0.0	91	232388	49.2	
78 Ethyl methacrylate	69	5.103	5.103	0.0	90	258663	53.0	
79 1,1,2-Trichloroethane	97	5.231	5.231	0.0	91	155101	49.1	
80 Tetrachloroethene	166	5.273	5.267	0.006	86	216137	52.8	
81 1,3-Dichloropropane	76	5.371	5.371	0.0	91	272153	47.3	
82 2-Hexanone	58	5.413	5.414	-0.001	96	345519	253.9	
83 n-Butyl acetate	43	5.486	5.487	0.0	98	227565	80.6	
84 Chlorodibromomethane	127	5.529	5.535	-0.006	88	131928	43.1	
85 Ethylene Dibromide	107	5.638	5.639	-0.001	99	158272	47.5	
86 1-Chlorohexane	91	6.003	6.002	0.001	14	792	0.1156	
87 Chlorobenzene	112	6.028	6.028	0.0	95	522970	49.8	

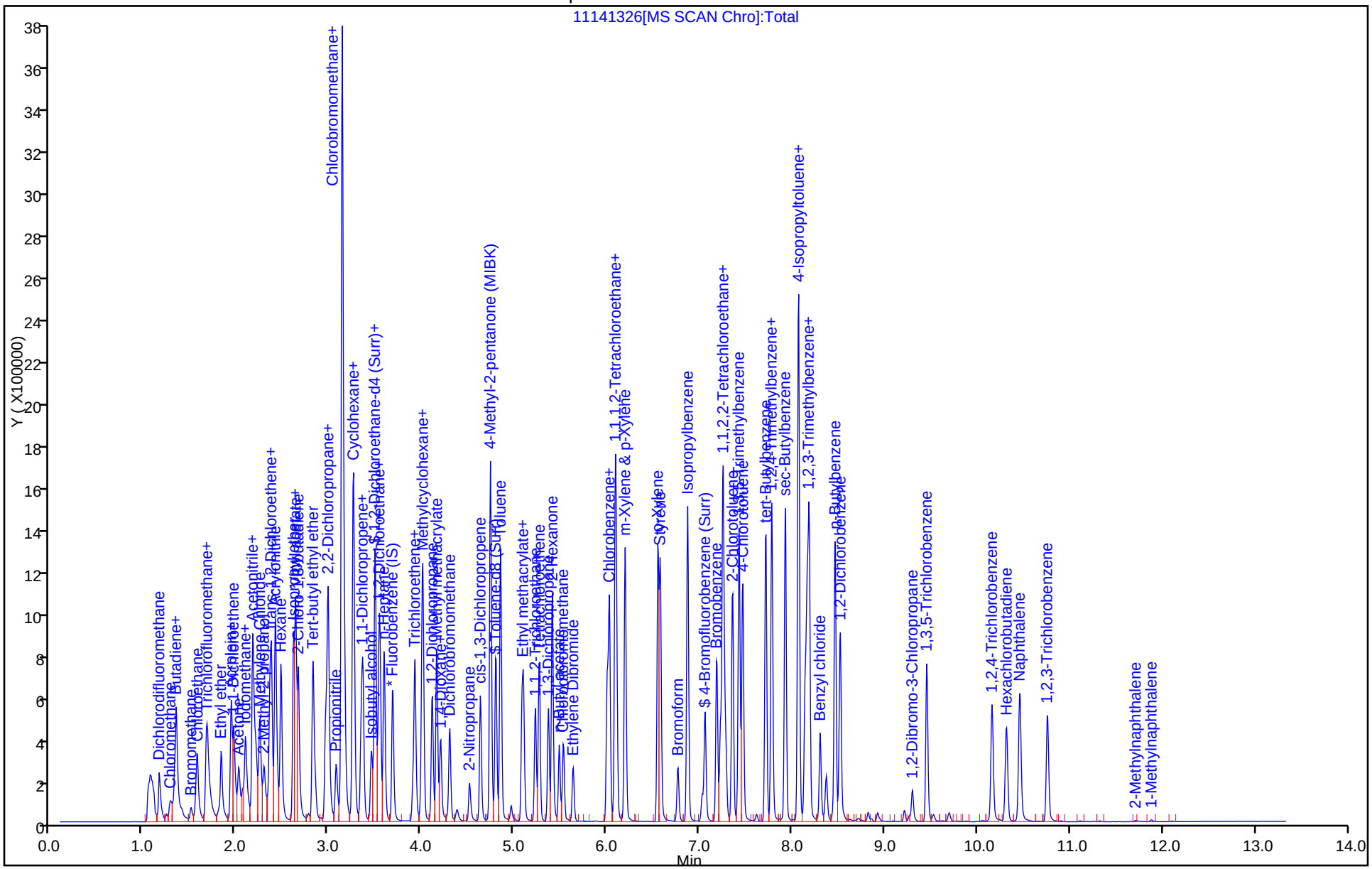
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
88 Ethylbenzene	91	6.089	6.089	0.0	98	910589	49.4	
89 1,1,1,2-Tetrachloroethane	131	6.107	6.107	0.0	86	177924	51.1	
90 m-Xylene & p-Xylene	91	6.198	6.198	0.0	99	703678	49.2	
91 o-Xylene	91	6.551	6.551	0.0	97	700051	49.4	
92 Styrene	104	6.575	6.582	-0.007	96	587580	50.9	
93 Bromoform	173	6.770	6.770	0.0	98	117696	44.2	
94 Isopropylbenzene	105	6.873	6.874	-0.001	95	945762	52.3	
95 Bromobenzene	77	7.184	7.190	-0.006	93	324880	44.5	
96 1,1,2,2-Tetrachloroethane	83	7.226	7.226	0.0	92	206094	47.0	
97 N-Propylbenzene	91	7.251	7.251	0.0	98	1137563	49.8	
98 1,2,3-Trichloropropane	110	7.269	7.269	0.0	75	68123	45.3	
99 trans-1,4-Dichloro-2-butene	53	7.287	7.287	0.0	75	51405	39.1	
100 2-Chlorotoluene	91	7.360	7.360	0.0	97	604396	46.1	
101 1,3,5-Trimethylbenzene	105	7.427	7.427	0.0	93	751519	48.3	
102 4-Chlorotoluene	91	7.470	7.470	0.0	96	654150	47.4	
103 tert-Butylbenzene	119	7.719	7.719	0.0	91	680476	50.3	
104 Pentachloroethane	167	7.780	7.780	0.0	10	1505	0.9182	
105 1,2,4-Trimethylbenzene	105	7.780	7.780	0.0	97	822219	52.1	
106 sec-Butylbenzene	105	7.926	7.926	0.0	94	1006984	50.6	
108 1,3-Dichlorobenzene	146	8.072	8.072	0.0	68	422682	49.0	
107 4-Isopropyltoluene	119	8.072	8.072	0.0	95	881481	51.1	
109 1,4-Dichlorobenzene	146	8.163	8.163	0.0	95	425747	48.5	
110 1,2,3-Trimethylbenzene	105	8.187	8.188	-0.001	0	763120	48.1	
111 Benzyl chloride	91	8.303	8.303	0.0	98	278381	33.8	
112 n-Butylbenzene	91	8.467	8.467	0.0	94	743092	49.8	
113 1,2-Dichlorobenzene	146	8.522	8.522	0.0	97	382497	48.6	
114 1,2-Dibromo-3-Chloropropane	157	9.301	9.301	0.0	81	45007	42.4	
115 1,3,5-Trichlorobenzene	180	9.453	9.459	-0.006	95	260313	50.9	
116 1,2,4-Trichlorobenzene	180	10.158	10.159	-0.001	89	224713	50.8	
117 Hexachlorobutadiene	225	10.317	10.317	0.0	95	112713	47.5	
118 Naphthalene	128	10.457	10.463	-0.006	97	640381	46.7	
119 1,2,3-Trichlorobenzene	180	10.755	10.755	0.0	96	200619	49.3	
120 2-Methylnaphthalene	142	11.704	11.698	0.006	36	4964	5.19	
121 1-Methylnaphthalene	142	11.880	11.879	0.001	36	6360	1.75	
S 134 Xylenes, Total	1				0		98.5	
S 135 1,2-Dichloroethene, Total	1				0		100.4	

Report Date: 15-Nov-2013 10:10:21 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131114-28420.b\11141326.D

Injection Date:	14-Nov-2013 20:32:30	Instrument ID:	HP33	Operator ID:	JJR
Lims ID:	490-39510-B-1 MS	Lab Sample ID:	490-39510-1	Worklist Smp#:	46
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	8260HP33	Limit Group:	MSV 8260B ICAL		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: | Lab Sample ID: 490-40098-B-1 MS

Matrix: Water | Lab File ID: 11141351.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/15/2013 07:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121948 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	272.1		5.00	2.66
71-43-2	Benzene	49.91		1.00	0.200
74-97-5	Bromochloromethane	51.93		1.00	0.150
75-27-4	Bromodichloromethane	50.59		1.00	0.170
75-25-2	Bromoform	43.47		1.00	0.290
74-83-9	Bromomethane	32.77		1.00	0.350
78-93-3	2-Butanone (MEK)	265.1		50.0	2.64
75-15-0	Carbon disulfide	48.01		1.00	0.220
56-23-5	Carbon tetrachloride	51.98		1.00	0.180
108-90-7	Chlorobenzene	50.40		1.00	0.180
124-48-1	Chlorodibromomethane	43.09		1.00	0.250
75-00-3	Chloroethane	49.76		1.00	0.360
67-66-3	Chloroform	48.51		1.00	0.230
74-87-3	Chloromethane	45.45		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	49.30		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	49.62		1.00	0.170
110-82-7	Cyclohexane	52.54		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	42.11		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	48.30		1.00	0.210
95-50-1	1,2-Dichlorobenzene	49.17		1.00	0.190
541-73-1	1,3-Dichlorobenzene	49.93		1.00	0.180
106-46-7	1,4-Dichlorobenzene	49.17		1.00	0.170
75-71-8	Dichlorodifluoromethane	53.48		1.00	0.170
75-34-3	1,1-Dichloroethane	49.99		1.00	0.240
107-06-2	1,2-Dichloroethane	46.24		1.00	0.200
75-35-4	1,1-Dichloroethene	53.30		1.00	0.250
78-87-5	1,2-Dichloropropane	47.81		1.00	0.250
100-41-4	Ethylbenzene	49.57		1.00	0.190
591-78-6	2-Hexanone	255.3		5.00	1.28
98-82-8	Isopropylbenzene	51.57		1.00	0.330
79-20-9	Methyl acetate	149.1		10.0	0.720
108-87-2	Methylcyclohexane	51.31		5.00	0.200
75-09-2	Methylene Chloride	48.75		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	266.7		5.00	0.810
1634-04-4	Methyl tert-butyl ether	45.88		1.00	0.170
103-65-1	N-Propylbenzene	48.17		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: | Lab Sample ID: 490-40098-B-1 MS

Matrix: Water | Lab File ID: 11141351.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/15/2013 07:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121948 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	41.05		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	47.82		1.00	0.190
127-18-4	Tetrachloroethene	55.78		1.00	0.140
109-99-9	Tetrahydrofuran	142.7		5.00	2.84
108-88-3	Toluene	52.22		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	50.00		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	47.56		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	50.49		1.00	0.200
71-55-6	1,1,1-Trichloroethane	49.20		1.00	0.190
79-00-5	1,1,2-Trichloroethane	51.01		1.00	0.190
79-01-6	Trichloroethene	51.21		1.00	0.200
75-69-4	Trichlorofluoromethane	52.97		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	53.10		1.00	0.330
75-01-4	Vinyl chloride	51.39		1.00	0.180
1330-20-7	Xylenes, Total	98.05		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
2037-26-5	Toluene-d8 (Surr)	103		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP33\20131114-28445.b\11141351.D
Lims ID: 490-40098-B-1 MS Lab Sample ID: 490-40098-1
Client ID:
Sample Type: MS
Inject. Date: 15-Nov-2013 07:46:30 ALS Bottle#: 51 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 490-40098-B-1 MS
Misc. Info.: 490-0028445-023
Operator ID: JJR Instrument ID: HP33

Method: \\Nvlchrom\ChromData\HP33\20131114-28445.b\8260HP33.m
Limit Group: MSV 8260B ICAL
Last Update: 15-Nov-2013 10:55:31 Calib Date: 19-Oct-2013 00:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D

Column 1 : Detector MS SCAN
Process Host: XAWRK026

First Level Reviewer: redmondj Date: 15-Nov-2013 10:55:33

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
*	1 Fluorobenzene (IS)	96	3.689	3.687	0.002	99	455003	30.0	
*	2 Chlorobenzene-d5	117	6.007	6.004	0.003	83	318631	30.0	
*	3 1,4-Dichlorobenzene-d4	152	8.143	8.140	0.003	93	158604	30.0	
$	4 Dibromofluoromethane (Surr)	111	3.270	3.273	-0.003	71	108758	30.1	
$	5 1,2-Dichloroethane-d4 (Surr)	65	3.507	3.504	0.003	85	120241	28.1	
$	6 Toluene-d8 (Surr)	98	4.803	4.800	0.003	91	439371	31.0	
$	7 4-Bromofluorobenzene (Surr)	95	7.060	7.063	-0.003	90	156488	28.2	
	9 Dichlorodifluoromethane	85	1.171	1.168	0.003	88	215745	53.5	
	10 Chloromethane	50	1.293	1.290	0.003	89	175082	45.4	
	11 Vinyl chloride	62	1.335	1.338	-0.003	79	213905	51.4	
	12 Butadiene	54	1.353	1.351	0.002	0	180656	45.4	
	13 Bromomethane	96	1.512	1.515	-0.003	91	51916	32.8	
	14 Chloroethane	64	1.566	1.570	-0.004	95	139021	49.8	
	15 Dichlorofluoromethane	67	1.676	1.679	-0.003	83	328720	49.4	
	16 Trichlorofluoromethane	101	1.688	1.691	-0.003	87	290108	53.0	
	18 Ethyl ether	59	1.840	1.837	0.003	93	145927	48.0	
	19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.944	1.947	-0.003	86	172755	53.1	
	20 Acrolein	56	1.950	1.947	0.003	41	49856	84.4	
	21 1,1-Dichloroethene	96	1.974	1.977	-0.003	89	157776	53.3	
	22 Acetone	58	2.029	2.026	0.003	100	100282	272.1	
	23 Iodomethane	142	2.071	2.068	0.003	97	125673	46.8	
	24 Ethyl bromide	108	2.096	2.088	0.008	1	1587	0.7052	
	17 Ethanol	45	2.090	2.093	-0.003	59	87749	1104.8	
	25 Isopropyl alcohol	45	2.090	2.093	-0.003	74	87749	544.4	
	26 Carbon disulfide	76	2.102	2.099	0.003	99	477875	48.0	
	27 3-Chloro-1-propene	76	2.175	2.172	0.003	89	123236	53.0	
	29 Acetonitrile	41	2.175	2.178	-0.003	72	183269	399.7	
	28 Methyl acetate	43	2.181	2.178	0.003	97	564842	149.1	
	30 Methylene Chloride	84	2.254	2.257	-0.003	84	174740	48.7	
	31 2-Methyl-2-propanol	59	2.302	2.300	0.002	96	148602	562.2	
	32 Methyl tert-butyl ether	73	2.363	2.360	0.003	90	478419	45.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
33 trans-1,2-Dichloroethene	61	2.382	2.379	0.003	97	246695	50.0	
34 Acrylonitrile	53	2.424	2.421	0.003	98	724820	474.7	
35 Hexane	57	2.485	2.482	0.003	87	261877	44.4	
36 Isopropyl ether	45	2.619	2.616	0.003	95	580676	44.8	
38 Vinyl acetate	43	2.643	2.640	0.003	97	732012	73.9	
37 1,1-Dichloroethane	63	2.637	2.640	-0.003	83	327743	50.0	
39 2-Chloro-1,3-butadiene	53	2.667	2.671	-0.004	89	274192	47.4	
40 Tert-butyl ethyl ether	59	2.826	2.829	-0.003	98	512097	44.8	
41 2,2-Dichloropropane	77	2.966	2.963	0.003	90	184890	35.6	
42 cis-1,2-Dichloroethene	61	2.984	2.981	0.003	78	304483	49.3	
44 Ethyl acetate	43	2.996	2.993	0.003	94	685512	109.9	
43 2-Butanone (MEK)	72	2.996	2.993	0.003	92	119032	265.1	
45 Propionitrile	54	3.081	3.078	0.003	98	277201	496.6	
46 Chlorobromomethane	130	3.136	3.139	-0.003	78	99532	51.9	
47 Methacrylonitrile	41	3.142	3.145	-0.003	93	1249024	467.6	
48 Tetrahydrofuran	42	3.142	3.145	-0.003	72	255083	142.7	
49 Chloroform	83	3.166	3.170	-0.004	71	304646	48.5	
50 Cyclohexane	56	3.264	3.261	0.003	92	359489	52.5	
52 tert-Butyl Formate	59	3.264	3.265	-0.001	33	3184	0.8166	
51 1,1,1-Trichloroethane	97	3.264	3.267	-0.003	92	253761	49.2	
53 Carbon tetrachloride	117	3.349	3.352	-0.003	82	223081	52.0	
54 1,1-Dichloropropene	75	3.367	3.370	-0.003	96	239516	50.8	
55 Isobutyl alcohol	43	3.458	3.462	-0.004	89	261217	734.0	
56 Benzene	78	3.501	3.498	0.003	96	733265	49.9	
57 t-Amyl alcohol	59	3.543	3.532	0.011	39	10448	34.6	
58 Tert-amyl methyl ether	73	3.543	3.541	0.002	95	448681	43.7	
59 1,2-Dichloroethane	62	3.556	3.553	0.003	91	219529	46.2	
60 n-Heptane	43	3.598	3.595	0.003	90	238550	38.4	
61 n-Butanol	56	3.908	3.906	0.002	88	104317	1310.7	
62 Trichloroethene	130	3.927	3.930	-0.003	95	184704	51.2	
63 Ethyl acrylate	55	4.006	4.009	-0.003	0	493892	46.8	
64 Cyclohexanone	55	4.006	4.009	-0.003	75	493892	467.6	
65 Methylcyclohexane	83	4.012	4.015	-0.003	93	340055	51.3	
66 1,2-Dichloropropane	63	4.115	4.113	0.002	96	183208	47.8	
68 Methyl methacrylate	41	4.164	4.161	0.003	89	323297	86.3	
69 Dibromomethane	93	4.207	4.204	0.003	89	98784	47.8	
70 1,4-Dioxane	88	4.207	4.210	-0.003	12	29416	950.9	
71 Dichlorobromomethane	83	4.304	4.307	-0.003	94	220079	50.6	
72 2-Nitropropane	43	4.517	4.520	-0.003	97	98738	63.1	
74 cis-1,3-Dichloropropene	75	4.638	4.636	0.002	92	259319	49.6	
75 4-Methyl-2-pentanone (MIBK)	58	4.742	4.745	-0.003	96	371100	266.7	
76 Toluene	91	4.851	4.855	-0.004	98	781089	52.2	
77 trans-1,3-Dichloropropene	75	5.083	5.086	-0.003	96	211308	47.6	
78 Ethyl methacrylate	69	5.101	5.104	-0.003	89	246297	53.6	
79 1,1,2-Trichloroethane	97	5.229	5.232	-0.003	86	151446	51.0	
80 Tetrachloroethene	166	5.271	5.268	0.003	90	214704	55.8	
81 1,3-Dichloropropane	76	5.368	5.372	-0.004	90	263094	48.6	
82 2-Hexanone	58	5.411	5.414	-0.003	96	326771	255.3	
83 n-Butyl acetate	43	5.490	5.487	0.003	98	186014	69.4	
84 Chlorodibromomethane	127	5.533	5.530	0.003	90	124126	43.1	
85 Ethylene Dibromide	107	5.636	5.639	-0.003	99	151375	48.3	
86 1-Chlorohexane	91	6.007	6.002	0.005	14	551	0.0848	

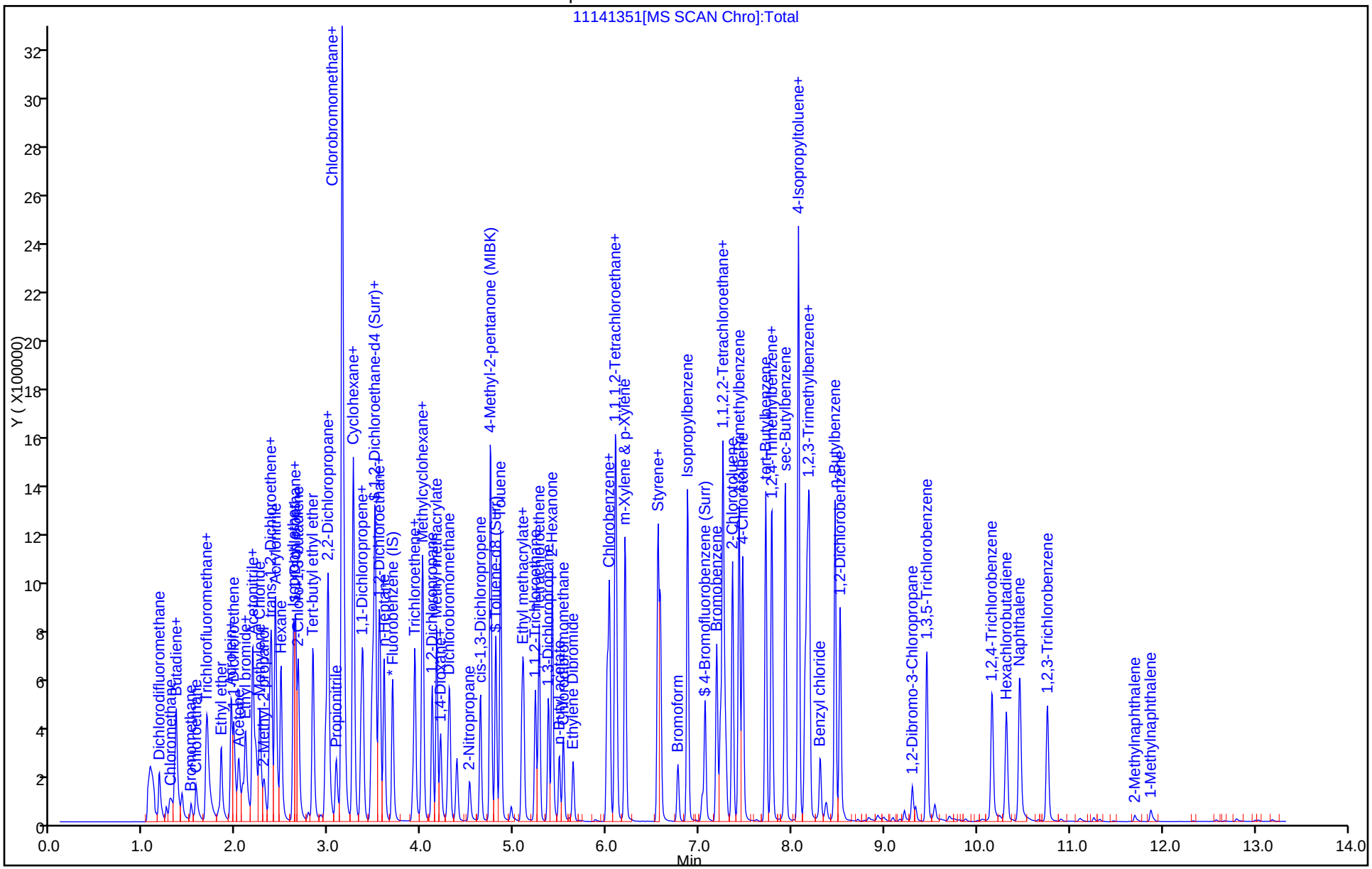
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
87 Chlorobenzene	112	6.026	6.029	-0.003	95	497959	50.4	
88 Ethylbenzene	91	6.092	6.090	0.002	98	859662	49.6	
89 1,1,1,2-Tetrachloroethane	131	6.105	6.108	-0.003	85	172152	52.5	
90 m-Xylene & p-Xylene	91	6.196	6.199	-0.003	99	650769	48.3	
91 o-Xylene	91	6.555	6.552	0.003	96	662996	49.7	
92 Styrene	104	6.579	6.582	-0.003	95	445327	41.0	
93 Bromoform	173	6.768	6.771	-0.003	97	108836	43.5	
94 Isopropylbenzene	105	6.871	6.874	-0.003	95	877528	51.6	
95 Bromobenzene	77	7.187	7.185	0.002	92	311464	44.7	
96 1,1,2,2-Tetrachloroethane	83	7.230	7.227	0.003	88	200265	47.8	
97 N-Propylbenzene	91	7.254	7.252	0.002	93	1050664	48.2	
98 1,2,3-Trichloropropane	110	7.273	7.270	0.003	81	64524	45.0	
99 trans-1,4-Dichloro-2-butene	53	7.285	7.288	-0.003	60	46969	37.5	
100 2-Chlorotoluene	91	7.358	7.361	-0.003	97	576163	46.0	
101 1,3,5-Trimethylbenzene	105	7.431	7.428	0.003	94	718020	48.3	
102 4-Chlorotoluene	91	7.467	7.471	-0.004	95	609094	46.3	
103 tert-Butylbenzene	119	7.717	7.714	0.003	91	649047	50.3	
104 Pentachloroethane	167	7.778	7.780	-0.002	15	1571	0.99	
105 1,2,4-Trimethylbenzene	105	7.784	7.781	0.003	97	726995	48.3	
106 sec-Butylbenzene	105	7.930	7.927	0.003	94	979513	51.6	
108 1,3-Dichlorobenzene	146	8.070	8.073	-0.003	68	411197	49.9	
107 4-Isopropyltoluene	119	8.070	8.073	-0.003	97	839999	51.1	
109 1,4-Dichlorobenzene	146	8.161	8.164	-0.003	94	411880	49.2	
110 1,2,3-Trimethylbenzene	105	8.185	8.182	0.003	0	714426	47.2	
111 Benzyl chloride	91	8.301	8.304	-0.003	98	181289	24.3	
112 n-Butylbenzene	91	8.465	8.468	-0.003	95	721943	50.7	
113 1,2-Dichlorobenzene	146	8.520	8.523	-0.003	97	369491	49.2	
114 1,2-Dibromo-3-Chloropropane	157	9.298	9.302	-0.004	82	42659	42.1	
115 1,3,5-Trichlorobenzene	180	9.457	9.454	0.003	97	249514	51.2	
116 1,2,4-Trichlorobenzene	180	10.156	10.160	-0.004	92	213041	50.5	
117 Hexachlorobutadiene	225	10.314	10.318	-0.004	96	109885	48.5	
118 Naphthalene	128	10.460	10.464	-0.004	97	660117	50.5	
119 1,2,3-Trichlorobenzene	180	10.758	10.756	0.002	95	189176	48.7	
120 2-Methylnaphthalene	142	11.701	11.698	0.003	77	18825	6.98	
121 1-Methylnaphthalene	142	11.872	11.879	-0.007	85	33273	5.04	
S 134 Xylenes, Total	1				0		98.1	
S 135 1,2-Dichloroethene, Total	1				0		99.3	

Report Date: 15-Nov-2013 10:55:34 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131114-28445.b\11141351.D

Injection Date:	15-Nov-2013 07:46:30	Instrument ID:	HP33	Operator ID:	JJR
Lims ID:	490-40098-B-1 MS	Lab Sample ID:	490-40098-1	Worklist Smp#:	23
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	51
Method:	8260HP33	Limit Group:	MSV 8260B ICAL		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: | Lab Sample ID: 490-39510-C-1 MSD

Matrix: Water | Lab File ID: 11141327.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/14/2013 20:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121823 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	252.4		5.00	2.66
71-43-2	Benzene	52.96		1.00	0.200
74-97-5	Bromochloromethane	54.03		1.00	0.150
75-27-4	Bromodichloromethane	52.16		1.00	0.170
75-25-2	Bromoform	46.49		1.00	0.290
74-83-9	Bromomethane	39.96		1.00	0.350
78-93-3	2-Butanone (MEK)	264.7		50.0	2.64
75-15-0	Carbon disulfide	49.43		1.00	0.220
56-23-5	Carbon tetrachloride	54.80		1.00	0.180
108-90-7	Chlorobenzene	52.10		1.00	0.180
124-48-1	Chlorodibromomethane	45.12		1.00	0.250
75-00-3	Chloroethane	50.28		1.00	0.360
67-66-3	Chloroform	48.88		1.00	0.230
74-87-3	Chloromethane	43.32		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	52.81		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	54.10		1.00	0.170
110-82-7	Cyclohexane	59.62		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	45.05		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	50.15		1.00	0.210
95-50-1	1,2-Dichlorobenzene	51.75		1.00	0.190
541-73-1	1,3-Dichlorobenzene	51.69		1.00	0.180
106-46-7	1,4-Dichlorobenzene	51.32		1.00	0.170
75-71-8	Dichlorodifluoromethane	56.40		1.00	0.170
75-34-3	1,1-Dichloroethane	51.28		1.00	0.240
107-06-2	1,2-Dichloroethane	48.11		1.00	0.200
75-35-4	1,1-Dichloroethene	53.99		1.00	0.250
78-87-5	1,2-Dichloropropane	50.30		1.00	0.250
100-41-4	Ethylbenzene	51.73		1.00	0.190
591-78-6	2-Hexanone	268.6		5.00	1.28
98-82-8	Isopropylbenzene	54.52		1.00	0.330
79-20-9	Methyl acetate	191.9		10.0	0.720
108-87-2	Methylcyclohexane	56.83		5.00	0.200
75-09-2	Methylene Chloride	50.45		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	288.3		5.00	0.810
1634-04-4	Methyl tert-butyl ether	51.27		1.00	0.170
103-65-1	N-Propylbenzene	51.99		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: | Lab Sample ID: 490-39510-C-1 MSD

Matrix: Water | Lab File ID: 11141327.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/14/2013 20:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121823 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	52.48		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	49.34		1.00	0.190
127-18-4	Tetrachloroethene	55.35		1.00	0.140
109-99-9	Tetrahydrofuran	217.7		5.00	2.84
108-88-3	Toluene	54.08		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	50.99		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	51.47		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	56.16		1.00	0.200
71-55-6	1,1,1-Trichloroethane	51.53		1.00	0.190
79-00-5	1,1,2-Trichloroethane	51.65		1.00	0.190
79-01-6	Trichloroethene	54.35		1.00	0.200
75-69-4	Trichlorofluoromethane	54.72		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	55.24		1.00	0.330
75-01-4	Vinyl chloride	52.46		1.00	0.180
1330-20-7	Xylenes, Total	102.0		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		70-130
1868-53-7	Dibromofluoromethane (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP33\20131114-28420.b\11141327.D
Lims ID: 490-39510-C-1 MSD Lab Sample ID: 490-39510-1
Client ID:
Sample Type: MSD
Inject. Date: 14-Nov-2013 20:59:30 ALS Bottle#: 27 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 490-39510-C-1 MSD
Misc. Info.: 490-0028420-047
Operator ID: JJR Instrument ID: HP33

Method: \\Nvlchrom\ChromData\HP33\20131114-28420.b\8260HP33.m
Limit Group: MSV 8260B ICAL
Last Update: 15-Nov-2013 10:08:52 Calib Date: 19-Oct-2013 00:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D

Column 1 : Detector MS SCAN
Process Host: XAWRK026

First Level Reviewer: redmondj Date: 15-Nov-2013 10:10:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.690	3.692	-0.002	99	471339	30.0	
* 2 Chlorobenzene-d5	117	6.001	6.003	-0.002	84	329224	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.143	8.145	-0.002	92	162191	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.270	3.272	-0.002	81	113699	30.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.501	3.503	-0.002	74	125185	28.2	
$ 6 Toluene-d8 (Surr)	98	4.803	4.805	-0.002	90	450568	30.7	
$ 7 4-Bromofluorobenzene (Surr)	95	7.060	7.062	-0.002	91	156894	27.7	
9 Dichlorodifluoromethane	85	1.171	1.167	0.004	88	235689	56.4	
10 Chloromethane	50	1.293	1.295	-0.002	89	172885	43.3	
11 Vinyl chloride	62	1.335	1.338	-0.003	79	226199	52.5	
12 Butadiene	54	1.354	1.350	0.004	0	212319	51.5	
13 Bromomethane	96	1.512	1.514	-0.002	89	67922	40.0	
14 Chloroethane	64	1.567	1.569	-0.002	99	145520	50.3	
15 Dichlorofluoromethane	67	1.676	1.678	-0.002	82	351559	51.0	
16 Trichlorofluoromethane	101	1.688	1.690	-0.002	86	310457	54.7	
18 Ethyl ether	59	1.834	1.836	-0.002	94	153194	48.6	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.944	1.940	0.004	85	186153	55.2	
20 Acrolein	56	1.950	1.946	0.004	91	58735	95.9	
21 1,1-Dichloroethene	96	1.974	1.976	-0.002	97	165571	54.0	
22 Acetone	58	2.029	2.031	-0.002	100	96561	252.4	
23 Iodomethane	142	2.071	2.068	0.003	97	124278	44.8	
24 Ethyl bromide	108	2.090	2.088	0.002	6	3988	1.71	
17 Ethanol	45	2.090	2.092	-0.002	5	100071	1215.0	
25 Isopropyl alcohol	45	2.090	2.092	-0.002	7	100071	599.3	
26 Carbon disulfide	76	2.102	2.098	0.004	99	509685	49.4	
27 3-Chloro-1-propene	76	2.175	2.171	0.004	85	125553	52.1	
29 Acetonitrile	41	2.175	2.177	-0.002	66	208439	438.8	
28 Methyl acetate	43	2.181	2.177	0.004	97	752917	191.9	
30 Methylene Chloride	84	2.254	2.256	-0.002	88	187318	50.4	
31 2-Methyl-2-propanol	59	2.303	2.299	0.004	89	243305	888.6	
32 Methyl tert-butyl ether	73	2.363	2.360	0.003	87	553882	51.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
33 trans-1,2-Dichloroethene	61	2.382	2.378	0.004	94	260654	51.0	
34 Acrylonitrile	53	2.424	2.420	0.004	98	767225	485.1	
35 Hexane	57	2.479	2.481	-0.002	87	300176	49.1	
36 Isopropyl ether	45	2.619	2.615	0.004	93	621751	46.3	
38 Vinyl acetate	43	2.643	2.639	0.004	97	945184	92.1	
37 1,1-Dichloroethane	63	2.637	2.639	-0.002	83	348290	51.3	
39 2-Chloro-1,3-butadiene	53	2.668	2.670	-0.002	89	297507	49.6	
40 Tert-butyl ethyl ether	59	2.826	2.828	-0.002	98	544537	46.0	
41 2,2-Dichloropropane	77	2.966	2.962	0.004	91	242991	45.2	
42 cis-1,2-Dichloroethene	61	2.984	2.980	0.004	68	337878	52.8	
44 Ethyl acetate	43	2.996	2.992	0.004	95	744701	115.2	
43 2-Butanone (MEK)	72	2.996	2.992	0.004	97	123124	264.7	
45 Propionitrile	54	3.081	3.077	0.004	98	294628	509.5	
46 Chlorobromomethane	130	3.136	3.132	0.004	77	107283	54.0	
47 Methacrylonitrile	41	3.142	3.144	-0.002	93	1408233	508.9	
48 Tetrahydrofuran	42	3.142	3.144	-0.002	74	403110	217.7	
49 Chloroform	83	3.167	3.163	0.003	84	317992	48.9	
50 Cyclohexane	56	3.264	3.260	0.004	93	422586	59.6	
52 tert-Butyl Formate	59	3.264	3.265	-0.001	28	3220	0.7973	
51 1,1,1-Trichloroethane	97	3.264	3.266	-0.002	94	275336	51.5	
53 Carbon tetrachloride	117	3.349	3.345	0.004	81	243602	54.8	
54 1,1-Dichloropropene	75	3.367	3.369	-0.002	96	255985	52.4	
55 Isobutyl alcohol	43	3.459	3.461	-0.002	95	212094	575.3	
56 Benzene	78	3.495	3.497	-0.002	96	806144	53.0	
57 t-Amyl alcohol	59	3.538	3.532	0.006	45	15519	49.6	
58 Tert-amyl methyl ether	73	3.544	3.540	0.004	99	504944	47.4	
59 1,2-Dichloroethane	62	3.556	3.552	0.004	83	236594	48.1	
60 n-Heptane	43	3.598	3.595	0.003	91	294990	45.9	
61 n-Butanol	56	3.909	3.911	-0.002	88	118892	1442.1	
62 Trichloroethene	130	3.927	3.929	-0.002	94	203068	54.4	
63 Ethyl acrylate	55	4.006	4.008	-0.002	0	546532	50.0	
64 Cyclohexanone	55	4.006	4.008	-0.002	75	546532	499.5	
65 Methylcyclohexane	83	4.012	4.014	-0.002	93	390161	56.8	
66 1,2-Dichloropropane	63	4.116	4.118	-0.002	95	199680	50.3	
68 Methyl methacrylate	41	4.164	4.166	-0.002	89	352617	90.8	
69 Dibromomethane	93	4.207	4.203	0.004	88	107789	50.4	
70 1,4-Dioxane	88	4.207	4.209	-0.002	13	45167	1425.4	
71 Dichlorobromomethane	83	4.304	4.306	-0.002	100	235095	52.2	
72 2-Nitropropane	43	4.517	4.519	-0.002	96	111356	68.7	
74 cis-1,3-Dichloropropene	75	4.633	4.635	-0.002	93	292140	54.1	
75 4-Methyl-2-pentanone (MIBK)	58	4.742	4.744	-0.002	97	414586	288.3	
76 Toluene	91	4.852	4.854	-0.002	98	835793	54.1	
77 trans-1,3-Dichloropropene	75	5.083	5.085	-0.002	95	236246	51.5	
78 Ethyl methacrylate	69	5.101	5.103	-0.002	87	260801	54.9	
79 1,1,2-Trichloroethane	97	5.229	5.231	-0.002	86	158464	51.7	
80 Tetrachloroethene	166	5.271	5.267	0.004	86	220152	55.4	
81 1,3-Dichloropropane	76	5.369	5.371	-0.002	91	276128	49.4	
82 2-Hexanone	58	5.411	5.414	-0.003	96	355315	268.6	
83 n-Butyl acetate	43	5.484	5.487	-0.002	98	228314	82.2	
84 Chlorodibromomethane	127	5.533	5.535	-0.002	88	134391	45.1	
85 Ethylene Dibromide	107	5.636	5.639	-0.003	98	162379	50.1	
86 1-Chlorohexane	91	5.995	6.002	-0.007	14	603	0.0895	

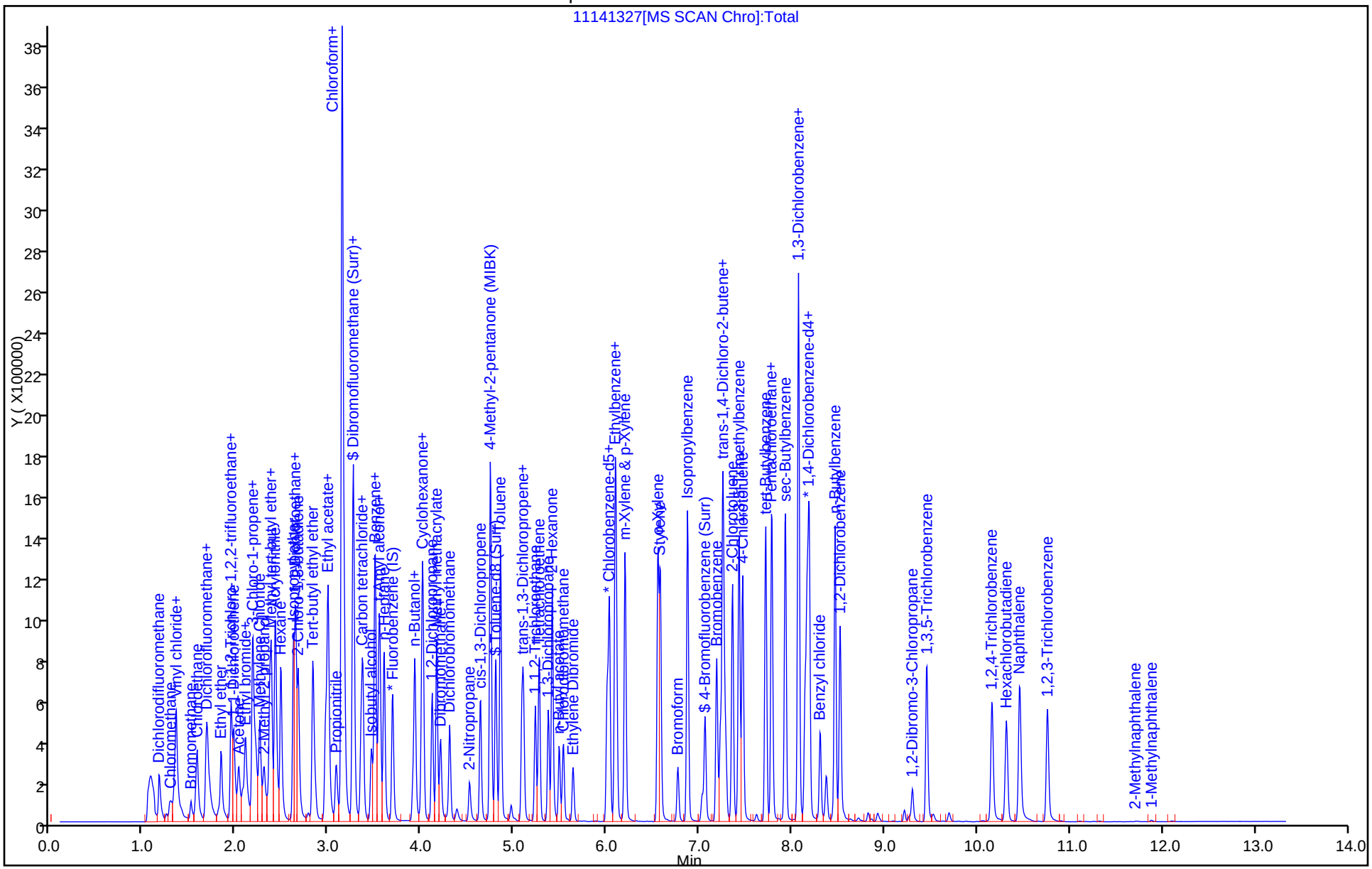
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
87 Chlorobenzene	112	6.026	6.028	-0.002	94	531882	52.1	
88 Ethylbenzene	91	6.093	6.089	0.004	98	926930	51.7	
89 1,1,1,2-Tetrachloroethane	131	6.105	6.107	-0.002	85	182822	54.0	
90 m-Xylene & p-Xylene	91	6.196	6.198	-0.002	99	708715	51.0	
91 o-Xylene	91	6.555	6.551	0.004	96	703976	51.1	
92 Styrene	104	6.579	6.582	-0.003	95	588227	52.5	
93 Bromoform	173	6.768	6.770	-0.002	97	120448	46.5	
94 Isopropylbenzene	105	6.871	6.874	-0.003	95	958601	54.5	
95 Bromobenzene	77	7.188	7.190	-0.002	91	330839	46.4	
96 1,1,2,2-Tetrachloroethane	83	7.224	7.226	-0.002	84	211294	49.3	
97 N-Propylbenzene	91	7.255	7.251	0.004	97	1159767	52.0	
98 1,2,3-Trichloropropane	110	7.267	7.269	-0.002	77	70592	48.2	
99 trans-1,4-Dichloro-2-butene	53	7.285	7.287	-0.002	76	56936	44.4	
100 2-Chlorotoluene	91	7.358	7.360	-0.002	97	605172	47.3	
101 1,3,5-Trimethylbenzene	105	7.431	7.427	0.004	94	766190	50.5	
102 4-Chlorotoluene	91	7.468	7.470	-0.002	95	657755	48.9	
103 tert-Butylbenzene	119	7.717	7.719	-0.002	92	693539	52.6	
104 Pentachloroethane	167	7.772	7.780	-0.008	7	1687	1.04	
105 1,2,4-Trimethylbenzene	105	7.784	7.780	0.004	97	840332	54.6	
106 sec-Butylbenzene	105	7.930	7.926	0.004	94	1031592	53.1	
108 1,3-Dichlorobenzene	146	8.070	8.072	-0.002	68	435387	51.7	
107 4-Isopropyltoluene	119	8.070	8.072	-0.002	97	904914	53.8	
109 1,4-Dichlorobenzene	146	8.161	8.163	-0.002	95	439620	51.3	
110 1,2,3-Trimethylbenzene	105	8.185	8.188	-0.003	0	774664	50.0	
111 Benzyl chloride	91	8.301	8.303	-0.002	98	289060	35.9	
112 n-Butylbenzene	91	8.465	8.467	-0.002	97	767430	52.7	
113 1,2-Dichlorobenzene	146	8.520	8.522	-0.002	97	397610	51.7	
114 1,2-Dibromo-3-Chloropropane	157	9.299	9.301	-0.002	81	46755	45.1	
115 1,3,5-Trichlorobenzene	180	9.457	9.459	-0.002	97	277851	55.7	
116 1,2,4-Trichlorobenzene	180	10.156	10.159	-0.003	93	242299	56.2	
117 Hexachlorobutadiene	225	10.315	10.317	-0.002	94	122190	52.8	
118 Naphthalene	128	10.461	10.463	-0.002	97	728793	54.5	
119 1,2,3-Trichlorobenzene	180	10.759	10.755	0.004	93	222732	56.1	
120 2-Methylnaphthalene	142	11.708	11.698	0.010	4	1241	4.74	
121 1-Methylnaphthalene	142	11.878	11.879	-0.001	24	5241	1.63	
S 134 Xylenes, Total	1				0		102.0	
S 135 1,2-Dichloroethene, Total	1				0		103.8	

Report Date: 15-Nov-2013 10:10:35 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131114-28420.b\11141327.D

Injection Date:	14-Nov-2013 20:59:30	Instrument ID:	HP33	Operator ID:	JJR
Lims ID:	490-39510-C-1 MSD	Lab Sample ID:	490-39510-1	Worklist Smp#:	47
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	8260HP33	Limit Group:	MSV 8260B ICAL		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: | Lab Sample ID: 490-40098-C-1 MSD

Matrix: Water | Lab File ID: 11141352.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/15/2013 08:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121948 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	288.1		5.00	2.66
71-43-2	Benzene	51.27		1.00	0.200
74-97-5	Bromochloromethane	53.01		1.00	0.150
75-27-4	Bromodichloromethane	51.56		1.00	0.170
75-25-2	Bromoform	44.58		1.00	0.290
74-83-9	Bromomethane	38.40		1.00	0.350
78-93-3	2-Butanone (MEK)	275.4		50.0	2.64
75-15-0	Carbon disulfide	49.31		1.00	0.220
56-23-5	Carbon tetrachloride	54.11		1.00	0.180
108-90-7	Chlorobenzene	51.03		1.00	0.180
124-48-1	Chlorodibromomethane	44.83		1.00	0.250
75-00-3	Chloroethane	50.98		1.00	0.360
67-66-3	Chloroform	49.70		1.00	0.230
74-87-3	Chloromethane	46.09		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	49.17		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	51.74		1.00	0.170
110-82-7	Cyclohexane	53.25		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	43.14		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	49.78		1.00	0.210
95-50-1	1,2-Dichlorobenzene	50.34		1.00	0.190
541-73-1	1,3-Dichlorobenzene	49.38		1.00	0.180
106-46-7	1,4-Dichlorobenzene	50.18		1.00	0.170
75-71-8	Dichlorodifluoromethane	53.48		1.00	0.170
75-34-3	1,1-Dichloroethane	50.59		1.00	0.240
107-06-2	1,2-Dichloroethane	47.74		1.00	0.200
75-35-4	1,1-Dichloroethene	54.73		1.00	0.250
78-87-5	1,2-Dichloropropane	49.16		1.00	0.250
100-41-4	Ethylbenzene	50.20		1.00	0.190
591-78-6	2-Hexanone	262.3		5.00	1.28
98-82-8	Isopropylbenzene	52.59		1.00	0.330
79-20-9	Methyl acetate	159.5		10.0	0.720
108-87-2	Methylcyclohexane	53.65		5.00	0.200
75-09-2	Methylene Chloride	49.66		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	285.7		5.00	0.810
1634-04-4	Methyl tert-butyl ether	46.84		1.00	0.170
103-65-1	N-Propylbenzene	48.78		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: | Lab Sample ID: 490-40098-C-1 MSD

Matrix: Water | Lab File ID: 11141352.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/15/2013 08:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121948 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	41.73		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	48.31		1.00	0.190
127-18-4	Tetrachloroethene	56.58		1.00	0.140
109-99-9	Tetrahydrofuran	159.6		5.00	2.84
108-88-3	Toluene	53.81		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	50.54		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	49.50		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	55.26		1.00	0.200
71-55-6	1,1,1-Trichloroethane	50.69		1.00	0.190
79-00-5	1,1,2-Trichloroethane	50.62		1.00	0.190
79-01-6	Trichloroethene	53.44		1.00	0.200
75-69-4	Trichlorofluoromethane	54.16		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	54.39		1.00	0.330
75-01-4	Vinyl chloride	51.75		1.00	0.180
1330-20-7	Xylenes, Total	99.17		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	91		70-130
1868-53-7	Dibromofluoromethane (Surr)	102		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		70-130
2037-26-5	Toluene-d8 (Surr)	105		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP33\20131114-28445.b\11141352.D
Lims ID: 490-40098-C-1 MSD Lab Sample ID: 490-40098-1
Client ID:
Sample Type: MSD
Inject. Date: 15-Nov-2013 08:13:30 ALS Bottle#: 52 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 490-40098-C-1 MSD
Misc. Info.: 490-0028445-024
Operator ID: JJR Instrument ID: HP33

Method: \\Nvlchrom\ChromData\HP33\20131114-28445.b\8260HP33.m
Limit Group: MSV 8260B ICAL
Last Update: 15-Nov-2013 10:55:31 Calib Date: 19-Oct-2013 00:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D

Column 1 : Detector MS SCAN
Process Host: XAWRK026

First Level Reviewer: redmondj Date: 15-Nov-2013 10:55:37

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
*	1 Fluorobenzene (IS)	96	3.686	3.687	-0.001	99	451440	30.0	
*	2 Chlorobenzene-d5	117	6.004	6.004	0.0	85	313131	30.0	
*	3 1,4-Dichlorobenzene-d4	152	8.139	8.140	-0.001	93	157298	30.0	
$	4 Dibromofluoromethane (Surr)	111	3.272	3.273	-0.001	66	109002	30.5	
$	5 1,2-Dichloroethane-d4 (Surr)	65	3.503	3.504	-0.001	85	121326	28.6	
$	6 Toluene-d8 (Surr)	98	4.799	4.800	-0.001	90	440191	31.6	
$	7 4-Bromofluorobenzene (Surr)	95	7.062	7.063	-0.001	92	150657	27.4	
	9 Dichlorodifluoromethane	85	1.167	1.168	-0.001	88	214042	53.5	
	10 Chloromethane	50	1.295	1.290	0.005	89	176184	46.1	
	11 Vinyl chloride	62	1.338	1.338	0.0	79	213699	51.7	
	12 Butadiene	54	1.350	1.351	-0.001	0	181441	45.9	
	13 Bromomethane	96	1.508	1.515	-0.007	90	62112	38.4	
	14 Chloroethane	64	1.569	1.570	-0.001	95	141324	51.0	
	15 Dichlorofluoromethane	67	1.678	1.679	-0.001	82	336269	50.9	
	16 Trichlorofluoromethane	101	1.690	1.691	-0.001	87	294306	54.2	
	18 Ethyl ether	59	1.836	1.837	-0.001	92	147185	48.8	
	19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.946	1.947	-0.001	85	175559	54.4	
	20 Acrolein	56	1.946	1.947	-0.001	92	50279	85.8	
	21 1,1-Dichloroethene	96	1.976	1.977	-0.001	99	160745	54.7	
	22 Acetone	58	2.031	2.026	0.005	100	105224	288.1	
	23 Iodomethane	142	2.068	2.068	0.0	98	124059	46.6	
	24 Ethyl bromide	108	2.086	2.088	-0.002	1	4007	1.79	
	17 Ethanol	45	2.098	2.093	0.005	6	90623	1149.5	
	25 Isopropyl alcohol	45	2.098	2.093	0.005	10	90623	566.6	
	26 Carbon disulfide	76	2.098	2.099	-0.001	99	486904	49.3	
	27 3-Chloro-1-propene	76	2.171	2.172	-0.001	89	110687	47.9	
	29 Acetonitrile	41	2.177	2.178	-0.001	72	189647	416.8	
	28 Methyl acetate	43	2.183	2.178	0.005	97	599250	159.5	
	30 Methylene Chloride	84	2.256	2.257	-0.001	82	176626	49.7	
	31 2-Methyl-2-propanol	59	2.299	2.300	-0.001	98	154185	588.0	
	32 Methyl tert-butyl ether	73	2.366	2.360	0.006	89	484644	46.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
33 trans-1,2-Dichloroethene	61	2.378	2.379	-0.001	95	247401	50.5	
34 Acrylonitrile	53	2.420	2.421	-0.001	98	734475	484.8	
35 Hexane	57	2.481	2.482	-0.001	88	271732	46.4	
36 Isopropyl ether	45	2.615	2.616	-0.001	94	569573	44.3	
38 Vinyl acetate	43	2.639	2.640	-0.001	96	614667	62.5	
37 1,1-Dichloroethane	63	2.639	2.640	-0.001	83	329081	50.6	
39 2-Chloro-1,3-butadiene	53	2.670	2.671	-0.001	89	270460	47.1	
40 Tert-butyl ethyl ether	59	2.828	2.829	-0.001	98	509973	45.0	
41 2,2-Dichloropropane	77	2.962	2.963	-0.001	90	185175	36.0	
42 cis-1,2-Dichloroethene	61	2.986	2.981	0.005	69	301327	49.2	
44 Ethyl acetate	43	2.992	2.993	-0.001	93	706432	114.1	
43 2-Butanone (MEK)	72	2.998	2.993	0.005	97	122709	275.4	
45 Propionitrile	54	3.077	3.078	-0.001	98	283235	511.4	
46 Chlorobromomethane	130	3.138	3.139	-0.001	79	100813	53.0	
47 Methacrylonitrile	41	3.144	3.145	-0.001	92	1293732	488.1	
48 Tetrahydrofuran	42	3.144	3.145	-0.001	34	283044	159.6	
49 Chloroform	83	3.169	3.170	-0.001	71	309651	49.7	
50 Cyclohexane	56	3.260	3.261	-0.001	93	361495	53.2	
52 tert-Butyl Formate	59	3.266	3.265	0.001	34	3111	0.8042	
51 1,1,1-Trichloroethane	97	3.266	3.267	-0.001	92	259400	50.7	
53 Carbon tetrachloride	117	3.351	3.352	-0.001	82	230376	54.1	
54 1,1-Dichloropropene	75	3.369	3.370	-0.001	96	244255	52.2	
55 Isobutyl alcohol	43	3.461	3.462	-0.001	86	283627	803.3	
56 Benzene	78	3.497	3.498	-0.001	96	747359	51.3	
57 t-Amyl alcohol	59	3.546	3.532	0.014	42	10951	36.5	
58 Tert-amyl methyl ether	73	3.540	3.541	-0.001	98	463386	45.4	
59 1,2-Dichloroethane	62	3.552	3.553	-0.001	84	224858	47.7	
60 n-Heptane	43	3.595	3.595	0.0	91	256761	41.7	
61 n-Butanol	56	3.911	3.906	0.005	89	115825	1466.8	
62 Trichloroethene	130	3.929	3.930	-0.001	94	191221	53.4	
63 Ethyl acrylate	55	4.008	4.009	-0.001	0	504631	48.2	
64 Cyclohexanone	55	4.008	4.009	-0.001	75	504631	481.6	
65 Methylcyclohexane	83	4.014	4.015	-0.001	95	352781	53.6	
66 1,2-Dichloropropane	63	4.118	4.113	0.005	95	186921	49.2	
68 Methyl methacrylate	41	4.160	4.161	-0.001	89	336101	90.4	
69 Dibromomethane	93	4.203	4.204	-0.001	86	101322	49.4	
70 1,4-Dioxane	88	4.209	4.210	-0.001	4	42773	1409.0	
71 Dichlorobromomethane	83	4.306	4.307	-0.001	94	222550	51.6	
72 2-Nitropropane	43	4.519	4.520	-0.001	98	103512	66.7	
74 cis-1,3-Dichloropropene	75	4.635	4.636	-0.001	92	265739	51.7	
75 4-Methyl-2-pentanone (MIBK)	58	4.744	4.745	-0.001	96	390733	285.7	
76 Toluene	91	4.854	4.855	-0.001	98	791017	53.8	
77 trans-1,3-Dichloropropene	75	5.085	5.086	-0.001	92	216107	49.5	
78 Ethyl methacrylate	69	5.103	5.104	-0.001	89	250652	55.5	
79 1,1,2-Trichloroethane	97	5.231	5.232	-0.001	86	147716	50.6	
80 Tetrachloroethene	166	5.268	5.268	0.0	86	214039	56.6	
81 1,3-Dichloropropane	76	5.371	5.372	-0.001	90	261609	49.2	
82 2-Hexanone	58	5.414	5.414	0.0	96	329969	262.3	
83 n-Butyl acetate	43	5.487	5.487	-0.001	98	184034	69.2	
84 Chlorodibromomethane	127	5.529	5.530	-0.001	89	127007	44.8	
85 Ethylene Dibromide	107	5.633	5.639	-0.006	99	153323	49.8	
86 1-Chlorohexane	91	6.004	6.002	0.002	9	603	0.0935	

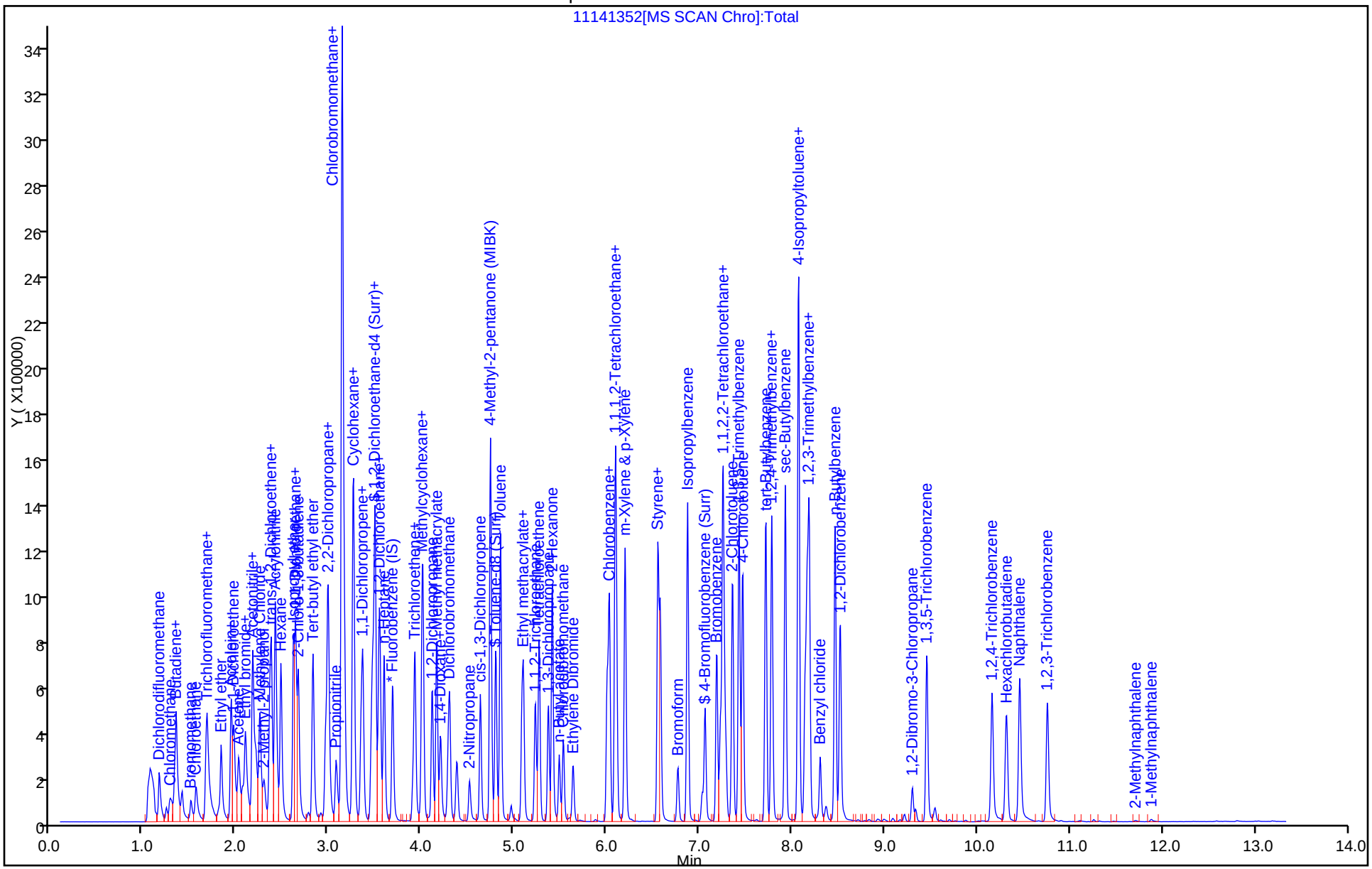
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
87 Chlorobenzene	112	6.028	6.029	-0.001	94	495500	51.0	
88 Ethylbenzene	91	6.089	6.090	-0.001	98	855548	50.2	
89 1,1,1,2-Tetrachloroethane	131	6.107	6.108	-0.001	86	167314	52.0	
90 m-Xylene & p-Xylene	91	6.198	6.199	-0.001	99	651080	49.2	
91 o-Xylene	91	6.551	6.552	-0.001	97	654808	50.0	
92 Styrene	104	6.575	6.582	-0.007	95	444942	41.7	
93 Bromoform	173	6.770	6.771	-0.001	98	109763	44.6	
94 Isopropylbenzene	105	6.874	6.874	0.0	95	879354	52.6	
95 Bromobenzene	77	7.184	7.185	-0.001	93	309059	44.7	
96 1,1,2,2-Tetrachloroethane	83	7.226	7.227	-0.001	87	200666	48.3	
97 N-Propylbenzene	91	7.251	7.252	-0.001	98	1055313	48.8	
98 1,2,3-Trichloropropane	110	7.269	7.270	-0.001	76	66648	46.9	
99 trans-1,4-Dichloro-2-butene	53	7.287	7.288	-0.001	60	48291	38.8	
100 2-Chlorotoluene	91	7.360	7.361	-0.001	97	583899	47.0	
101 1,3,5-Trimethylbenzene	105	7.427	7.428	-0.001	85	713376	48.4	
102 4-Chlorotoluene	91	7.470	7.471	-0.001	96	621832	47.6	
103 tert-Butylbenzene	119	7.719	7.714	0.005	86	649858	50.8	
104 Pentachloroethane	167	7.780	7.780	0.0	11	1369	0.8871	
105 1,2,4-Trimethylbenzene	105	7.780	7.781	-0.001	97	720561	48.3	
106 sec-Butylbenzene	105	7.926	7.927	-0.001	94	972360	51.6	
108 1,3-Dichlorobenzene	146	8.072	8.073	-0.001	87	403321	49.4	
107 4-Isopropyltoluene	119	8.072	8.073	-0.001	94	831359	51.0	
109 1,4-Dichlorobenzene	146	8.163	8.164	-0.001	95	416894	50.2	
110 1,2,3-Trimethylbenzene	105	8.188	8.182	0.006	0	709930	47.3	
111 Benzyl chloride	91	8.303	8.304	-0.001	98	188072	25.5	
112 n-Butylbenzene	91	8.467	8.468	-0.001	94	721405	51.1	
113 1,2-Dichlorobenzene	146	8.522	8.523	-0.001	97	375114	50.3	
114 1,2-Dibromo-3-Chloropropane	157	9.301	9.302	-0.001	85	43367	43.1	
115 1,3,5-Trichlorobenzene	180	9.453	9.454	-0.001	96	262818	54.4	
116 1,2,4-Trichlorobenzene	180	10.159	10.160	-0.001	93	231223	55.3	
117 Hexachlorobutadiene	225	10.317	10.318	-0.001	95	116482	51.9	
118 Naphthalene	128	10.457	10.464	-0.007	97	673239	51.9	
119 1,2,3-Trichlorobenzene	180	10.755	10.756	-0.001	93	210510	54.6	
120 2-Methylnaphthalene	142	11.704	11.698	0.006	19	4640	5.18	
121 1-Methylnaphthalene	142	11.880	11.879	0.001	38	8330	2.03	
S 134 Xylenes, Total	1				0		99.2	
S 135 1,2-Dichloroethene, Total	1				0		99.7	

Report Date: 15-Nov-2013 10:55:38 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131114-28445.b\11141352.D

Injection Date:	15-Nov-2013 08:13:30	Instrument ID:	HP33	Operator ID:	JJR
Lims ID:	490-40098-C-1 MSD	Lab Sample ID:	490-40098-1	Worklist Smp#:	24
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	52
Method:	8260HP33	Limit Group:	MSV 8260B ICAL		



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Instrument ID: HP33 Start Date: 10/18/2013 19:05

Analysis Batch Number: 115521 End Date: 10/19/2013 00:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-115521/1		10/18/2013 19:05	1	10181302.D	DB-624 0.18(mm)
STD0005 490-115521/2 IC		10/18/2013 20:11	1	10181304.D	DB-624 0.18(mm)
STD001 490-115521/3 IC		10/18/2013 20:38	1	10181305.D	DB-624 0.18(mm)
STD002 490-115521/4 IC		10/18/2013 21:05	1	10181306.D	DB-624 0.18(mm)
STD005 490-115521/5 IC		10/18/2013 21:32	1	10181307.D	DB-624 0.18(mm)
STD010 490-115521/6 IC		10/18/2013 21:59	1	10181308.D	DB-624 0.18(mm)
ICIS 490-115521/7		10/18/2013 22:26	1	10181309.D	DB-624 0.18(mm)
STD050 490-115521/8 IC		10/18/2013 22:53	1	10181310.D	DB-624 0.18(mm)
ICV 490-115521/9		10/18/2013 23:20	1	10181311.D	DB-624 0.18(mm)
STD100 490-115521/10 IC		10/18/2013 23:47	1	10181312.D	DB-624 0.18(mm)
STD200 490-115521/11 IC		10/19/2013 00:14	1	10181313.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Instrument ID: HP33 Start Date: 11/14/2013 08:49

Analysis Batch Number: 121823 End Date: 11/14/2013 20:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-121823/1		11/14/2013 08:49	1	11141301.D	DB-624 0.18(mm)
CCVIS 490-121823/2		11/14/2013 09:16	1	11141302.D	DB-624 0.18(mm)
LCS 490-121823/3		11/14/2013 09:49	1	11141303.D	DB-624 0.18(mm)
LCSD 490-121823/4		11/14/2013 10:16	1	11141304.D	DB-624 0.18(mm)
MB 490-121823/5		11/14/2013 11:10	1	11141306.D	DB-624 0.18(mm)
490-39536-8	Trip Blank	11/14/2013 12:58	1	11141310.D	DB-624 0.18(mm)
ZZZZZ		11/14/2013 13:25	1		DB-624 0.18(mm)
ZZZZZ		11/14/2013 17:23	1		DB-624 0.18(mm)
ZZZZZ		11/14/2013 17:50	1		DB-624 0.18(mm)
ZZZZZ		11/14/2013 18:17	25		DB-624 0.18(mm)
ZZZZZ		11/14/2013 18:44	20		DB-624 0.18(mm)
ZZZZZ		11/14/2013 19:11	500		DB-624 0.18(mm)
ZZZZZ		11/14/2013 19:38	20		DB-624 0.18(mm)
ZZZZZ		11/14/2013 20:05	20		DB-624 0.18(mm)
490-39510-B-1 MS		11/14/2013 20:32	1	11141326.D	DB-624 0.18(mm)
490-39510-C-1 MSD		11/14/2013 20:59	1	11141327.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Instrument ID: HP33 Start Date: 11/14/2013 21:26

Analysis Batch Number: 121948 End Date: 11/15/2013 08:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-121948/1		11/14/2013 21:26	1	11141328.D	DB-624 0.18(mm)
CCVIS 490-121948/2		11/14/2013 21:53	1	11141329.D	DB-624 0.18(mm)
LCS 490-121948/3		11/14/2013 22:20	1	11141330.D	DB-624 0.18(mm)
MB 490-121948/4		11/14/2013 23:14	1	11141332.D	DB-624 0.18(mm)
490-39536-1	MW-01A-GW-001	11/14/2013 23:41	1	11141333.D	DB-624 0.18(mm)
490-39536-3	MW-01B-GW-001	11/15/2013 00:08	1	11141334.D	DB-624 0.18(mm)
490-39536-5	MW-02A-GW-001	11/15/2013 00:35	1	11141335.D	DB-624 0.18(mm)
490-39536-7	MW-02B-GW-001	11/15/2013 01:02	1	11141336.D	DB-624 0.18(mm)
ZZZZZ		11/15/2013 01:29	1		DB-624 0.18(mm)
490-40098-B-1 MS		11/15/2013 07:46	1	11141351.D	DB-624 0.18(mm)
490-40098-C-1 MSD		11/15/2013 08:13	1	11141352.D	DB-624 0.18(mm)

Method 8270C

Semivolatile Organic Compounds (GC/MS) by Method 8270C

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Matrix: Water Level: Low

GC Column (1): ZB-5MSi ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPH #
MW-01A-GW-001	490-39536-1	41	24	81	81	90	59
MW-01B-GW-001	490-39536-3	36	21	74	75	80	54
MW-02A-GW-001	490-39536-5	39	23	82	81	95	62
MW-02B-GW-001	490-39536-7	19	11	40	39	46	33
	MB 490-121117/1-A	10	18	66	62	16	81
	LCS 490-121117/2-A	41	27	69	71	82	78

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	10-120
PHL = Phenol-d5 (Surr)	10-120
NBZ = Nitrobenzene-d5 (Surr)	27-120
FBP = 2-Fluorobiphenyl (Surr)	29-120
TBP = 2,4,6-Tribromophenol (Surr)	10-120
TPH = Terphenyl-d14 (Surr)	13-120

Column to be used to flag recovery values

FORM II 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 1112005.D

Lab ID: LCS 490-121117/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	50.0	38.57	77	46-120	
Acenaphthylene	50.0	37.66	75	48-120	
Acetophenone	50.0	34.97	70	52-133	
Anthracene	50.0	39.10	78	58-130	
Atrazine	50.0	38.51	77	24-133	
Benzaldehyde	50.0	72.54	145	34-120	*
Benzo[a]anthracene	50.0	40.15	80	57-120	
Benzo[a]pyrene	50.0	39.50	79	57-124	
Benzo[b]fluoranthene	50.0	37.66	75	51-125	
Benzo[g,h,i]perylene	50.0	39.54	79	51-123	
Benzo[k]fluoranthene	50.0	41.78	84	51-120	
Biphenyl	50.0	34.23	68	10-146	
Bis(2-chloroethoxy)methane	50.0	34.07	68	44-120	
Bis(2-chloroethyl)ether	50.0	33.27	67	47-120	
bis (2-chloroisopropyl) ether	50.0	24.96	50	44-120	
Bis(2-ethylhexyl) phthalate	50.0	42.15	84	47-138	
4-Bromophenyl phenyl ether	50.0	39.47	79	47-127	
Butyl benzyl phthalate	50.0	42.65	85	51-146	
Caprolactam	50.0	11.47	23	10-120	
Carbazole	50.0	39.48	79	54-123	
4-Chloroaniline	50.0	31.54	63	44-120	
4-Chloro-3-methylphenol	50.0	37.43	75	44-120	
2-Chloronaphthalene	50.0	34.66	69	39-120	
2-Chlorophenol	50.0	31.23	62	40-120	
4-Chlorophenyl phenyl ether	50.0	38.44	77	50-120	
Chrysene	50.0	41.84	84	55-120	
Dibenz(a,h)anthracene	50.0	39.26	79	50-125	
Dibenzofuran	50.0	38.00	76	50-120	
3,3'-Dichlorobenzidine	50.0	33.04	66	46-129	
2,4-Dichlorophenol	50.0	36.86	74	38-120	
Diethyl phthalate	50.0	39.70	79	54-128	
2,4-Dimethylphenol	50.0	28.25	56	21-126	
Dimethyl phthalate	50.0	40.08	80	53-127	
Di-n-butyl phthalate	50.0	40.84	82	54-140	
4,6-Dinitro-2-methylphenol	100	80.88	81	19-150	
2,4-Dinitrophenol	100	84.66	85	20-150	
2,4-Dinitrotoluene	50.0	41.08	82	46-132	
2,6-Dinitrotoluene	50.0	42.78	86	54-128	
Di-n-octyl phthalate	50.0	43.70	87	50-142	
Fluoranthene	50.0	40.87	82	56-120	
Fluorene	50.0	38.94	78	52-120	
Hexachlorobenzene	50.0	40.13	80	48-131	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 1112005.D

Lab ID: LCS 490-121117/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Hexachlorobutadiene	50.0	17.45	35	28-120	
Hexachlorocyclopentadiene	50.0	24.86	50	17-120	
Hexachloroethane	50.0	15.45	31	30-120	
Indeno[1,2,3-cd]pyrene	50.0	39.07	78	54-125	
Isophorone	50.0	38.46	77	47-120	
2-Methylnaphthalene	50.0	28.73	57	31-120	
2-Methylphenol	50.0	30.18	60	38-120	
3 & 4 Methylphenol	50.0	28.46	57	33-120	
Naphthalene	50.0	25.10	50	37-120	
2-Nitroaniline	50.0	43.70	87	46-131	
3-Nitroaniline	50.0	39.98	80	54-121	
4-Nitroaniline	50.0	41.75	83	55-123	
Nitrobenzene	50.0	33.77	68	36-120	
2-Nitrophenol	50.0	35.33	71	32-120	
4-Nitrophenol	100	32.71	33	10-120	
N-Nitrosodi-n-propylamine	50.0	36.53	73	51-120	
n-Nitrosodiphenylamine(as diphenylamine)	50.0	48.36	97	58-149	
Pentachlorophenol	100	82.42	82	21-150	
Phenanthrene	50.0	39.23	78	56-120	
Phenol	50.0	14.49	29	14-120	
Pyrene	50.0	40.64	81	53-129	
2,4,5-Trichlorophenol	50.0	40.28	81	40-129	
2,4,6-Trichlorophenol	50.0	40.52	81	39-135	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Lab File ID: 1112004.D Lab Sample ID: MB 490-121117/1-A

Matrix: Water Date Extracted: 11/12/2013 07:14

Instrument ID: HP83 Date Analyzed: 11/12/2013 18:12

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 490-121117/2-A	1112005.D	11/12/2013 18:34
MW-01A-GW-001	490-39536-1	1112006.D	11/12/2013 18:56
MW-01B-GW-001	490-39536-3	1112007.D	11/12/2013 19:19
MW-02A-GW-001	490-39536-5	1112008.D	11/12/2013 19:41
MW-02B-GW-001	490-39536-7	1112009.D	11/12/2013 20:03

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Lab File ID: 1022002.D DFTPP Injection Date: 10/24/2013

Instrument ID: HP83 DFTPP Injection Time: 13:34

Analysis Batch No.: 116774

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	34.1	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	50.8	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	40.0 - 60.0 % of mass 198	47.6	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.9	
275	10.0 - 30.0 % of mass 198	26.6	
365	Greater than 1.0 % of mass 198	2.7	
441	Present but less than mass 443	8.2	(83.3)3
442	Greater than 40.0 % of mass 198	48.1	
443	17.0 - 23.0 % of mass 442	9.8	(20.4)2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD1 490-116774/3	1022003.D	10/24/2013	13:51
	STD2 490-116774/4	1022004.D	10/24/2013	14:14
	STD3 490-116774/5	1022005.D	10/24/2013	14:36
	ICIS 490-116774/6	1022006.D	10/24/2013	14:59
	STD5 490-116774/7	1022007.D	10/24/2013	15:21
	STD6 490-116774/8	1022008.D	10/24/2013	15:44
	ICV 490-116774/9	1022009.D	10/24/2013	16:06

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Lab File ID: 1112002b.D DFTPP Injection Date: 11/12/2013

Instrument ID: HP83 DFTPP Injection Time: 17:21

Analysis Batch No.: 121257

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	31.0	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	47.3	
70	Less than 2.0 % of mass 69	0.1	(0.3)1
127	40.0 - 60.0 % of mass 198	45.3	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	7.0	
275	10.0 - 30.0 % of mass 198	28.3	
365	Greater than 1.0 % of mass 198	3.1	
441	Present but less than mass 443	9.9	(79.2)3
442	Greater than 40.0 % of mass 198	61.0	
443	17.0 - 23.0 % of mass 442	12.5	(20.4)2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-121257/3	1112003b.D	11/12/2013	17:37
	MB 490-121117/1-A	1112004.D	11/12/2013	18:12
	LCS 490-121117/2-A	1112005.D	11/12/2013	18:34
MW-01A-GW-001	490-39536-1	1112006.D	11/12/2013	18:56
MW-01B-GW-001	490-39536-3	1112007.D	11/12/2013	19:19
MW-02A-GW-001	490-39536-5	1112008.D	11/12/2013	19:41
MW-02B-GW-001	490-39536-7	1112009.D	11/12/2013	20:03

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Sample No.: ICIS 490-116774/6 Date Analyzed: 10/24/2013 14:59

Instrument ID: HP83 GC Column: ZB-5MSi ID: 0.25(mm)

Lab File ID (Standard): 1022006.D Heated Purge: (Y/N) N

Calibration ID: 19923

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		30852	3.81	129669	4.60	89150	5.74
UPPER LIMIT		61704	4.31	259338	5.10	178300	6.24
LOWER LIMIT		15426	3.31	64835	4.10	44575	5.24
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 490-116774/9		26028	3.81	111727	4.60	76728	5.74
CCVIS 490-121257/3		32984	3.59	137494	4.38	95539	5.49

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Sample No.: ICIS 490-116774/6 Date Analyzed: 10/24/2013 14:59

Instrument ID: HP83 GC Column: ZB-5MSi ID: 0.25(mm)

Lab File ID (Standard): 1022006.D Heated Purge: (Y/N) N

Calibration ID: 19923

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		177018	6.83	243911	8.92	246383	9.99
UPPER LIMIT		354036	7.33	487822	9.42	492766	10.49
LOWER LIMIT		88509	6.33	121956	8.42	123192	9.49
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 490-116774/9		157620	6.83	212483	8.92	223821	9.99
CCVIS 490-121257/3		189286	6.56	253212	8.64	252754	9.70

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Sample No.: CCVIS 490-121257/3 Date Analyzed: 11/12/2013 17:37

Instrument ID: HP83 GC Column: ZB-5MSi ID: 0.25(mm)

Lab File ID (Standard): 1112003b.D Heated Purge: (Y/N) N

Calibration ID: 19923

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		32984	3.59	137494	4.38	95539	5.49
UPPER LIMIT		65968	4.09	274988	4.88	191078	5.99
LOWER LIMIT		16492	3.09	68747	3.88	47770	4.99
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 490-121117/1-A		31208	3.59	123270	4.38	85321	5.49
LCS 490-121117/2-A		30801	3.58	132428	4.38	89607	5.49
490-39536-1	MW-01A-GW-001	31717	3.58	132159	4.38	89116	5.49
490-39536-3	MW-01B-GW-001	29604	3.58	121431	4.37	84186	5.49
490-39536-5	MW-02A-GW-001	28323	3.59	116585	4.37	80378	5.49
490-39536-7	MW-02B-GW-001	56965	3.58	228326	4.38	160242	5.49

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Sample No.: CCVIS 490-121257/3 Date Analyzed: 11/12/2013 17:37

Instrument ID: HP83 GC Column: ZB-5MSi ID: 0.25(mm)

Lab File ID (Standard): 1112003b.D Heated Purge: (Y/N) N

Calibration ID: 19923

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		189286	6.56	253212	8.64	252754	9.70
UPPER LIMIT		378572	7.06	506424	9.14	505508	10.20
LOWER LIMIT		94643	6.06	126606	8.14	126377	9.20
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 490-121117/1-A		168920	6.56	224845	8.64	225855	9.70
LCS 490-121117/2-A		182106	6.56	248070	8.64	251528	9.70
490-39536-1	MW-01A-GW-001	176496	6.56	243693	8.64	245287	9.70
490-39536-3	MW-01B-GW-001	164066	6.55	221449	8.64	222103	9.69
490-39536-5	MW-02A-GW-001	157789	6.55	209996	8.64	218079	9.69
490-39536-7	MW-02B-GW-001	308921	6.56	424088	8.64	445094	9.70

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: MW-01A-GW-001 | Lab Sample ID: 490-39536-1

Matrix: Water | Lab File ID: 1112006.D

Analysis Method: 8270C | Date Collected: 11/05/2013 09:07

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:14

Sample wt/vol: 1060(mL) | Date Analyzed: 11/12/2013 18:56

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		1.89	0.345
208-96-8	Acenaphthylene	ND		1.89	0.311
98-86-2	Acetophenone	ND		9.43	1.79
120-12-7	Anthracene	ND		1.89	0.833
1912-24-9	Atrazine	ND		9.43	3.49
100-52-7	Benzaldehyde	ND	*	9.43	2.03
56-55-3	Benzo[a]anthracene	ND		1.89	0.306
50-32-8	Benzo[a]pyrene	ND		1.89	0.311
205-99-2	Benzo[b]fluoranthene	ND		1.89	0.398
191-24-2	Benzo[g,h,i]perylene	ND		1.89	0.271
207-08-9	Benzo[k]fluoranthene	ND		1.89	0.343
92-52-4	Biphenyl	ND		9.43	3.14
111-91-1	Bis(2-chloroethoxy)methane	ND		9.43	1.28
111-44-4	Bis(2-chloroethyl)ether	ND		9.43	1.31
108-60-1	bis (2-chloroisopropyl) ether	ND		9.43	1.85
117-81-7	Bis(2-ethylhexyl) phthalate	ND		9.43	1.94
101-55-3	4-Bromophenyl phenyl ether	ND		9.43	1.29
85-68-7	Butyl benzyl phthalate	ND		9.43	1.64
105-60-2	Caprolactam	ND		9.43	3.14
86-74-8	Carbazole	ND		9.43	0.282
106-47-8	4-Chloroaniline	ND		9.43	1.10
59-50-7	4-Chloro-3-methylphenol	ND		9.43	3.14
91-58-7	2-Chloronaphthalene	ND		9.43	1.55
95-57-8	2-Chlorophenol	ND		9.43	1.50
7005-72-3	4-Chlorophenyl phenyl ether	ND		9.43	1.65
218-01-9	Chrysene	ND		1.89	1.03
53-70-3	Dibenz(a,h)anthracene	ND		1.89	0.608
132-64-9	Dibenzofuran	ND		9.43	0.320
91-94-1	3,3'-Dichlorobenzidine	ND		9.43	1.43
120-83-2	2,4-Dichlorophenol	ND		9.43	0.962
84-66-2	Diethyl phthalate	ND		9.43	1.53
105-67-9	2,4-Dimethylphenol	ND		9.43	0.940
131-11-3	Dimethyl phthalate	ND		9.43	1.71
84-74-2	Di-n-butyl phthalate	ND		9.43	1.42

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: MW-01A-GW-001 | Lab Sample ID: 490-39536-1

Matrix: Water | Lab File ID: 1112006.D

Analysis Method: 8270C | Date Collected: 11/05/2013 09:07

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:14

Sample wt/vol: 1060(mL) | Date Analyzed: 11/12/2013 18:56

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
534-52-1	4,6-Dinitro-2-methylphenol	ND		23.6	1.95
51-28-5	2,4-Dinitrophenol	ND		23.6	2.32
121-14-2	2,4-Dinitrotoluene	ND		9.43	3.14
606-20-2	2,6-Dinitrotoluene	ND		9.43	1.83
117-84-0	Di-n-octyl phthalate	ND		9.43	2.18
206-44-0	Fluoranthene	ND		1.89	0.327
86-73-7	Fluorene	ND		1.89	0.298
118-74-1	Hexachlorobenzene	ND		9.43	1.59
87-68-3	Hexachlorobutadiene	ND		9.43	3.14
77-47-4	Hexachlorocyclopentadiene	ND		9.43	3.14
67-72-1	Hexachloroethane	ND		9.43	3.14
193-39-5	Indeno[1,2,3-cd]pyrene	ND		1.89	0.359
78-59-1	Isophorone	ND		9.43	1.17
91-57-6	2-Methylnaphthalene	ND		1.89	0.293
95-48-7	2-Methylphenol	ND		9.43	3.14
15831-10-4	3 & 4 Methylphenol	ND		9.43	3.14
91-20-3	Naphthalene	ND		1.89	0.375
88-74-4	2-Nitroaniline	ND		23.6	0.981
99-09-2	3-Nitroaniline	ND		23.6	1.75
100-01-6	4-Nitroaniline	ND		23.6	2.25
98-95-3	Nitrobenzene	ND		9.43	1.17
88-75-5	2-Nitrophenol	ND		9.43	1.48
100-02-7	4-Nitrophenol	ND		23.6	3.14
621-64-7	N-Nitrosodi-n-propylamine	ND		9.43	1.34
86-30-6	n-Nitrosodiphenylamine(as diphenylamine)	ND		9.43	1.36
87-86-5	Pentachlorophenol	ND		23.6	1.56
85-01-8	Phenanthrene	ND		1.89	0.324
108-95-2	Phenol	ND		9.43	3.25
129-00-0	Pyrene	ND		1.89	0.312
95-95-4	2,4,5-Trichlorophenol	ND		23.6	1.92
88-06-2	2,4,6-Trichlorophenol	ND		9.43	1.66

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Client Sample ID: MW-01A-GW-001 Lab Sample ID: 490-39536-1

Matrix: Water Lab File ID: 1112006.D

Analysis Method: 8270C Date Collected: 11/05/2013 09:07

Extract. Method: 3510C Date Extracted: 11/12/2013 07:14

Sample wt/vol: 1060(mL) Date Analyzed: 11/12/2013 18:56

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	81		29-120
367-12-4	2-Fluorophenol (Surr)	41		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	81		27-120
4165-62-2	Phenol-d5 (Surr)	24		10-120
1718-51-0	Terphenyl-d14 (Surr)	59		13-120
118-79-6	2,4,6-Tribromophenol (Surr)	90		10-120

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112006.D
Lims ID: 490-39536-T-1-A Lab Sample ID: 490-39536-1
Client ID: MW-01A-GW-001
Sample Type: Client
Inject. Date: 12-Nov-2013 18:56:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 490-39536-T-1-A
Misc. Info.: 490-0028283-006
Operator ID: HP83 Instrument ID: HP83

Method: \\Nvlchrom\ChromData\HP83\20131112-28283.b\8270HP83.m
Limit Group: MSS 8270C ICAL
Last Update: 13-Nov-2013 11:18:44 Calib Date: 24-Oct-2013 15:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D

Column 1 : Detector MS SCAN
Process Host: XAWRK019

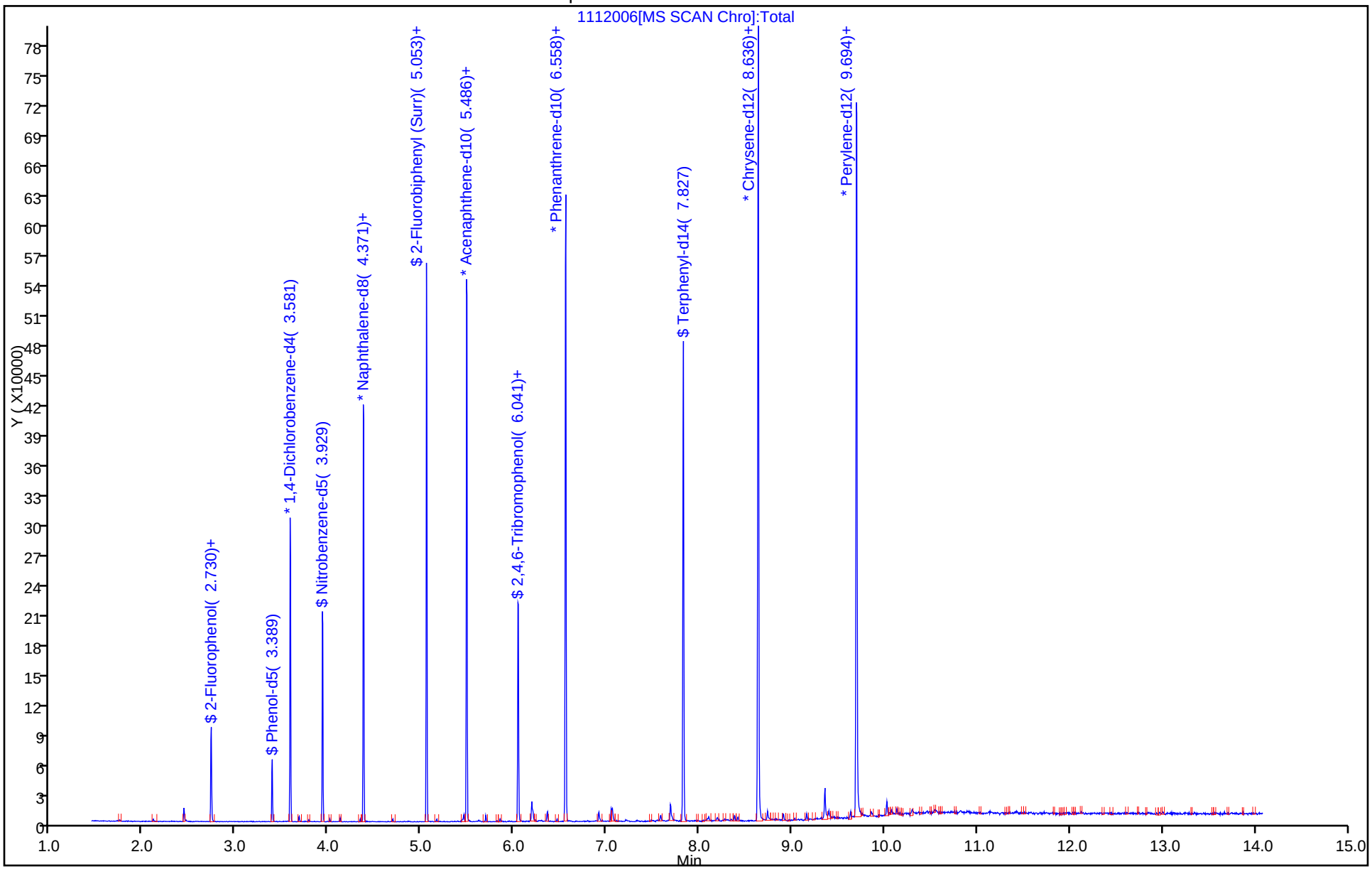
First Level Reviewer: salomonb Date: 13-Nov-2013 11:19:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.581	3.586	-0.005	98	31717	40.0	
$ 21 2-Fluorophenol	112	2.730	2.730	0.0	85	19150	20.5	
$ 22 Phenol-d5	99	3.389	3.389	0.0	0	15542	12.2	
* 37 Naphthalene-d8	136	4.376	4.376	0.0	99	132159	40.0	
$ 49 Nitrobenzene-d5	82	3.929	3.934	-0.005	87	49736	40.4	
* 69 Acenaphthene-d10	164	5.490	5.490	0.0	87	89116	40.0	
$ 83 2-Fluorobiphenyl (Surr)	172	5.053	5.058	-0.005	100	114732	40.5	
* 102 Phenanthrene-d10	188	6.558	6.558	0.0	96	176496	40.0	
$ 127 2,4,6-Tribromophenol	330	6.045	6.050	-0.005	90	18054	44.8	
* 136 Chrysene-d12	240	8.636	8.641	-0.005	80	243693	40.0	
$ 147 Terphenyl-d14	244	7.827	7.828	-0.001	97	133490	29.4	
* 156 Perylene-d12	264	9.699	9.699	0.0	88	245287	40.0	

Report Date: 13-Nov-2013 11:19:16 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP83\20131112-28283.b\1112006.D				
Injection Date:	12-Nov-2013 18:56:30	Instrument ID:	HP83	Operator ID:	HP83
Lims ID:	490-39536-T-1-A	Lab Sample ID:	490-39536-1	Worklist Smp#:	6
Client ID:	MW-01A-GW-001				
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8270HP83	Limit Group:	MSS 8270C ICAL		



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: MW-01B-GW-001 | Lab Sample ID: 490-39536-3

Matrix: Water | Lab File ID: 1112007.D

Analysis Method: 8270C | Date Collected: 11/05/2013 11:45

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:14

Sample wt/vol: 1060(mL) | Date Analyzed: 11/12/2013 19:19

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		1.89	0.345
208-96-8	Acenaphthylene	ND		1.89	0.311
98-86-2	Acetophenone	ND		9.43	1.79
120-12-7	Anthracene	ND		1.89	0.833
1912-24-9	Atrazine	ND		9.43	3.49
100-52-7	Benzaldehyde	ND	*	9.43	2.03
56-55-3	Benzo[a]anthracene	ND		1.89	0.306
50-32-8	Benzo[a]pyrene	ND		1.89	0.311
205-99-2	Benzo[b]fluoranthene	ND		1.89	0.398
191-24-2	Benzo[g,h,i]perylene	ND		1.89	0.271
207-08-9	Benzo[k]fluoranthene	ND		1.89	0.343
92-52-4	Biphenyl	ND		9.43	3.14
111-91-1	Bis(2-chloroethoxy)methane	ND		9.43	1.28
111-44-4	Bis(2-chloroethyl)ether	ND		9.43	1.31
108-60-1	bis (2-chloroisopropyl) ether	ND		9.43	1.85
117-81-7	Bis(2-ethylhexyl) phthalate	ND		9.43	1.94
101-55-3	4-Bromophenyl phenyl ether	ND		9.43	1.29
85-68-7	Butyl benzyl phthalate	ND		9.43	1.64
105-60-2	Caprolactam	ND		9.43	3.14
86-74-8	Carbazole	ND		9.43	0.282
106-47-8	4-Chloroaniline	ND		9.43	1.10
59-50-7	4-Chloro-3-methylphenol	ND		9.43	3.14
91-58-7	2-Chloronaphthalene	ND		9.43	1.55
95-57-8	2-Chlorophenol	ND		9.43	1.50
7005-72-3	4-Chlorophenyl phenyl ether	ND		9.43	1.65
218-01-9	Chrysene	ND		1.89	1.03
53-70-3	Dibenz(a,h)anthracene	ND		1.89	0.608
132-64-9	Dibenzofuran	ND		9.43	0.320
91-94-1	3,3'-Dichlorobenzidine	ND		9.43	1.43
120-83-2	2,4-Dichlorophenol	ND		9.43	0.962
84-66-2	Diethyl phthalate	ND		9.43	1.53
105-67-9	2,4-Dimethylphenol	ND		9.43	0.940
131-11-3	Dimethyl phthalate	ND		9.43	1.71
84-74-2	Di-n-butyl phthalate	ND		9.43	1.42

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: MW-01B-GW-001 | Lab Sample ID: 490-39536-3

Matrix: Water | Lab File ID: 1112007.D

Analysis Method: 8270C | Date Collected: 11/05/2013 11:45

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:14

Sample wt/vol: 1060(mL) | Date Analyzed: 11/12/2013 19:19

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
534-52-1	4,6-Dinitro-2-methylphenol	ND		23.6	1.95
51-28-5	2,4-Dinitrophenol	ND		23.6	2.32
121-14-2	2,4-Dinitrotoluene	ND		9.43	3.14
606-20-2	2,6-Dinitrotoluene	ND		9.43	1.83
117-84-0	Di-n-octyl phthalate	ND		9.43	2.18
206-44-0	Fluoranthene	ND		1.89	0.327
86-73-7	Fluorene	ND		1.89	0.298
118-74-1	Hexachlorobenzene	ND		9.43	1.59
87-68-3	Hexachlorobutadiene	ND		9.43	3.14
77-47-4	Hexachlorocyclopentadiene	ND		9.43	3.14
67-72-1	Hexachloroethane	ND		9.43	3.14
193-39-5	Indeno[1,2,3-cd]pyrene	ND		1.89	0.359
78-59-1	Isophorone	ND		9.43	1.17
91-57-6	2-Methylnaphthalene	ND		1.89	0.293
95-48-7	2-Methylphenol	ND		9.43	3.14
15831-10-4	3 & 4 Methylphenol	ND		9.43	3.14
91-20-3	Naphthalene	ND		1.89	0.375
88-74-4	2-Nitroaniline	ND		23.6	0.981
99-09-2	3-Nitroaniline	ND		23.6	1.75
100-01-6	4-Nitroaniline	ND		23.6	2.25
98-95-3	Nitrobenzene	ND		9.43	1.17
88-75-5	2-Nitrophenol	ND		9.43	1.48
100-02-7	4-Nitrophenol	ND		23.6	3.14
621-64-7	N-Nitrosodi-n-propylamine	ND		9.43	1.34
86-30-6	n-Nitrosodiphenylamine(as diphenylamine)	ND		9.43	1.36
87-86-5	Pentachlorophenol	ND		23.6	1.56
85-01-8	Phenanthrene	ND		1.89	0.324
108-95-2	Phenol	ND		9.43	3.25
129-00-0	Pyrene	ND		1.89	0.312
95-95-4	2,4,5-Trichlorophenol	ND		23.6	1.92
88-06-2	2,4,6-Trichlorophenol	ND		9.43	1.66

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Client Sample ID: MW-01B-GW-001 Lab Sample ID: 490-39536-3

Matrix: Water Lab File ID: 1112007.D

Analysis Method: 8270C Date Collected: 11/05/2013 11:45

Extract. Method: 3510C Date Extracted: 11/12/2013 07:14

Sample wt/vol: 1060(mL) Date Analyzed: 11/12/2013 19:19

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	75		29-120
367-12-4	2-Fluorophenol (Surr)	36		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	74		27-120
4165-62-2	Phenol-d5 (Surr)	21		10-120
1718-51-0	Terphenyl-d14 (Surr)	54		13-120
118-79-6	2,4,6-Tribromophenol (Surr)	80		10-120

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112007.D
Lims ID: 490-39536-T-3-A Lab Sample ID: 490-39536-3
Client ID: MW-01B-GW-001
Sample Type: Client
Inject. Date: 12-Nov-2013 19:19:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 490-39536-T-3-A
Misc. Info.: 490-0028283-007
Operator ID: HP83 Instrument ID: HP83

Method: \\Nvlchrom\ChromData\HP83\20131112-28283.b\8270HP83.m
Limit Group: MSS 8270C ICAL
Last Update: 13-Nov-2013 11:18:44 Calib Date: 24-Oct-2013 15:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D

Column 1 : Detector MS SCAN
Process Host: XAWRK019

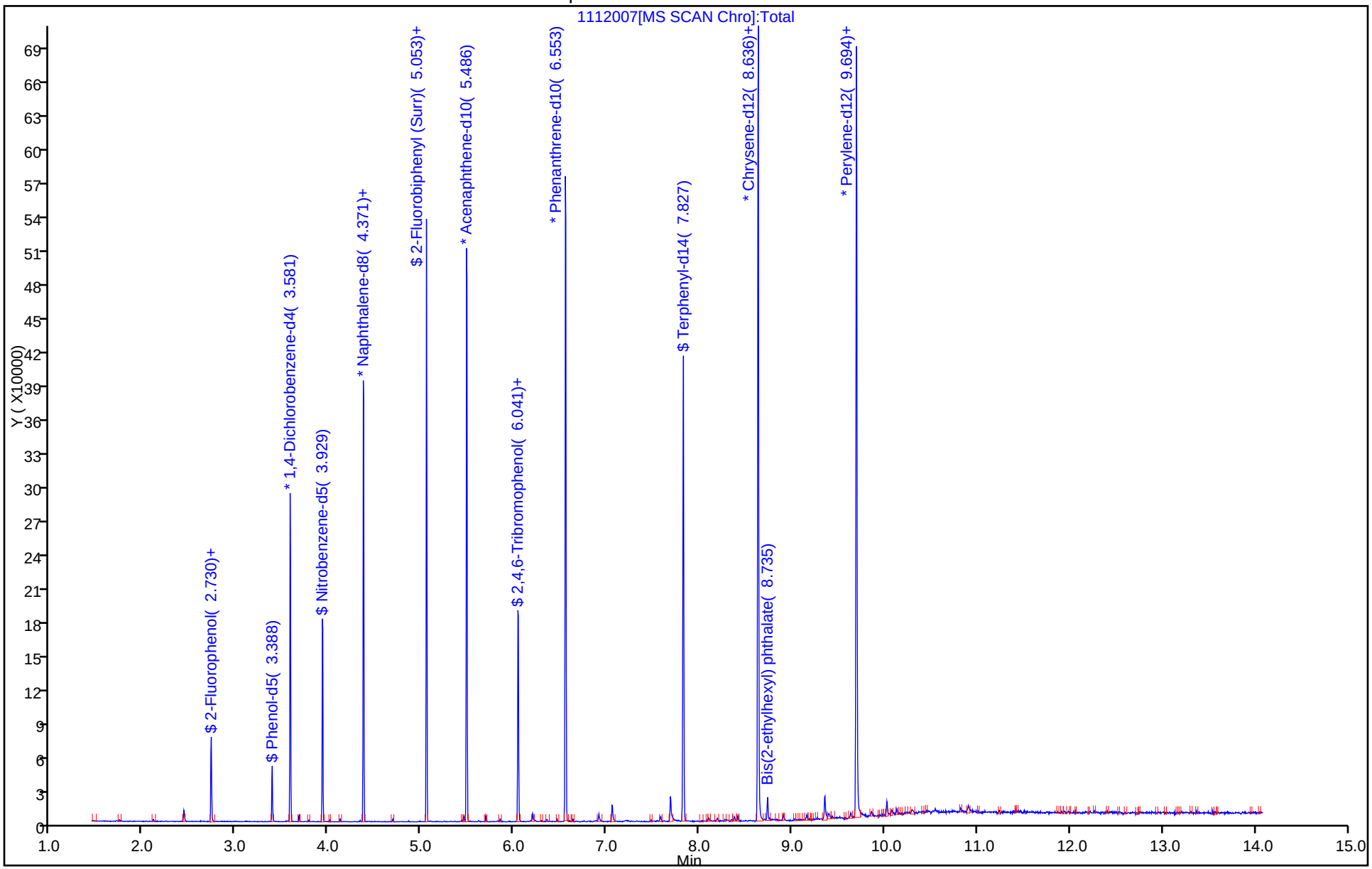
First Level Reviewer: salomonb Date: 13-Nov-2013 11:19:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.581	3.586	-0.005	96	29604	40.0	
$ 21 2-Fluorophenol	112	2.730	2.730	0.0	88	15599	17.9	
$ 22 Phenol-d5	99	3.388	3.389	-0.001	0	12350	10.4	
* 37 Naphthalene-d8	136	4.371	4.376	-0.005	99	121431	40.0	
$ 49 Nitrobenzene-d5	82	3.929	3.934	-0.005	87	41742	36.9	
* 69 Acenaphthene-d10	164	5.490	5.490	0.0	87	84186	40.0	
$ 83 2-Fluorobiphenyl (Surr)	172	5.053	5.058	-0.005	100	99770	37.3	
* 102 Phenanthrene-d10	188	6.553	6.558	-0.005	97	164066	40.0	
$ 127 2,4,6-Tribromophenol	330	6.045	6.050	-0.005	92	15042	40.1	
* 136 Chrysene-d12	240	8.636	8.641	-0.005	80	221449	40.0	
$ 147 Terphenyl-d14	244	7.827	7.828	-0.001	95	110937	26.9	
155 Bis(2-ethylhexyl) phthalate	149	8.735	8.740	-0.005	92	5226	1.78	
* 156 Perylene-d12	264	9.694	9.699	-0.005	87	222103	40.0	

Report Date: 13-Nov-2013 11:19:52 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP83\20131112-28283.b\1112007.D				
Injection Date:	12-Nov-2013 19:19:30	Instrument ID:	HP83	Operator ID:	HP83
Lims ID:	490-39536-T-3-A	Lab Sample ID:	490-39536-3	Worklist Smp#:	7
Client ID:	MW-01B-GW-001				
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8270HP83	Limit Group:	MSS 8270C ICAL		



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: MW-02A-GW-001 | Lab Sample ID: 490-39536-5

Matrix: Water | Lab File ID: 1112008.D

Analysis Method: 8270C | Date Collected: 11/05/2013 14:22

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:14

Sample wt/vol: 1060(mL) | Date Analyzed: 11/12/2013 19:41

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		1.89	0.345
208-96-8	Acenaphthylene	ND		1.89	0.311
98-86-2	Acetophenone	ND		9.43	1.79
120-12-7	Anthracene	ND		1.89	0.833
1912-24-9	Atrazine	ND		9.43	3.49
100-52-7	Benzaldehyde	ND	*	9.43	2.03
56-55-3	Benzo[a]anthracene	ND		1.89	0.306
50-32-8	Benzo[a]pyrene	ND		1.89	0.311
205-99-2	Benzo[b]fluoranthene	ND		1.89	0.398
191-24-2	Benzo[g,h,i]perylene	ND		1.89	0.271
207-08-9	Benzo[k]fluoranthene	ND		1.89	0.343
92-52-4	Biphenyl	ND		9.43	3.14
111-91-1	Bis(2-chloroethoxy)methane	ND		9.43	1.28
111-44-4	Bis(2-chloroethyl)ether	ND		9.43	1.31
108-60-1	bis (2-chloroisopropyl) ether	ND		9.43	1.85
117-81-7	Bis(2-ethylhexyl) phthalate	ND		9.43	1.94
101-55-3	4-Bromophenyl phenyl ether	ND		9.43	1.29
85-68-7	Butyl benzyl phthalate	ND		9.43	1.64
105-60-2	Caprolactam	ND		9.43	3.14
86-74-8	Carbazole	ND		9.43	0.282
106-47-8	4-Chloroaniline	ND		9.43	1.10
59-50-7	4-Chloro-3-methylphenol	ND		9.43	3.14
91-58-7	2-Chloronaphthalene	ND		9.43	1.55
95-57-8	2-Chlorophenol	ND		9.43	1.50
7005-72-3	4-Chlorophenyl phenyl ether	ND		9.43	1.65
218-01-9	Chrysene	ND		1.89	1.03
53-70-3	Dibenz(a,h)anthracene	ND		1.89	0.608
132-64-9	Dibenzofuran	ND		9.43	0.320
91-94-1	3,3'-Dichlorobenzidine	ND		9.43	1.43
120-83-2	2,4-Dichlorophenol	ND		9.43	0.962
84-66-2	Diethyl phthalate	ND		9.43	1.53
105-67-9	2,4-Dimethylphenol	ND		9.43	0.940
131-11-3	Dimethyl phthalate	ND		9.43	1.71
84-74-2	Di-n-butyl phthalate	ND		9.43	1.42

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: MW-02A-GW-001 | Lab Sample ID: 490-39536-5

Matrix: Water | Lab File ID: 1112008.D

Analysis Method: 8270C | Date Collected: 11/05/2013 14:22

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:14

Sample wt/vol: 1060(mL) | Date Analyzed: 11/12/2013 19:41

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
534-52-1	4,6-Dinitro-2-methylphenol	ND		23.6	1.95
51-28-5	2,4-Dinitrophenol	ND		23.6	2.32
121-14-2	2,4-Dinitrotoluene	ND		9.43	3.14
606-20-2	2,6-Dinitrotoluene	ND		9.43	1.83
117-84-0	Di-n-octyl phthalate	ND		9.43	2.18
206-44-0	Fluoranthene	ND		1.89	0.327
86-73-7	Fluorene	ND		1.89	0.298
118-74-1	Hexachlorobenzene	ND		9.43	1.59
87-68-3	Hexachlorobutadiene	ND		9.43	3.14
77-47-4	Hexachlorocyclopentadiene	ND		9.43	3.14
67-72-1	Hexachloroethane	ND		9.43	3.14
193-39-5	Indeno[1,2,3-cd]pyrene	ND		1.89	0.359
78-59-1	Isophorone	ND		9.43	1.17
91-57-6	2-Methylnaphthalene	ND		1.89	0.293
95-48-7	2-Methylphenol	ND		9.43	3.14
15831-10-4	3 & 4 Methylphenol	ND		9.43	3.14
91-20-3	Naphthalene	ND		1.89	0.375
88-74-4	2-Nitroaniline	ND		23.6	0.981
99-09-2	3-Nitroaniline	ND		23.6	1.75
100-01-6	4-Nitroaniline	ND		23.6	2.25
98-95-3	Nitrobenzene	ND		9.43	1.17
88-75-5	2-Nitrophenol	ND		9.43	1.48
100-02-7	4-Nitrophenol	ND		23.6	3.14
621-64-7	N-Nitrosodi-n-propylamine	ND		9.43	1.34
86-30-6	n-Nitrosodiphenylamine(as diphenylamine)	ND		9.43	1.36
87-86-5	Pentachlorophenol	ND		23.6	1.56
85-01-8	Phenanthrene	ND		1.89	0.324
108-95-2	Phenol	ND		9.43	3.25
129-00-0	Pyrene	ND		1.89	0.312
95-95-4	2,4,5-Trichlorophenol	ND		23.6	1.92
88-06-2	2,4,6-Trichlorophenol	ND		9.43	1.66

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: MW-02A-GW-001 | Lab Sample ID: 490-39536-5

Matrix: Water | Lab File ID: 1112008.D

Analysis Method: 8270C | Date Collected: 11/05/2013 14:22

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:14

Sample wt/vol: 1060(mL) | Date Analyzed: 11/12/2013 19:41

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	81		29-120
367-12-4	2-Fluorophenol (Surr)	39		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	82		27-120
4165-62-2	Phenol-d5 (Surr)	23		10-120
1718-51-0	Terphenyl-d14 (Surr)	62		13-120
118-79-6	2,4,6-Tribromophenol (Surr)	95		10-120

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112008.D
Lims ID: 490-39536-T-5-A Lab Sample ID: 490-39536-5
Client ID: MW-02A-GW-001
Sample Type: Client
Inject. Date: 12-Nov-2013 19:41:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 490-39536-T-5-A
Misc. Info.: 490-0028283-008
Operator ID: HP83 Instrument ID: HP83

Method: \\Nvlchrom\ChromData\HP83\20131112-28283.b\8270HP83.m
Limit Group: MSS 8270C ICAL
Last Update: 13-Nov-2013 11:18:44 Calib Date: 24-Oct-2013 15:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D

Column 1 : Detector MS SCAN
Process Host: XAWRK019

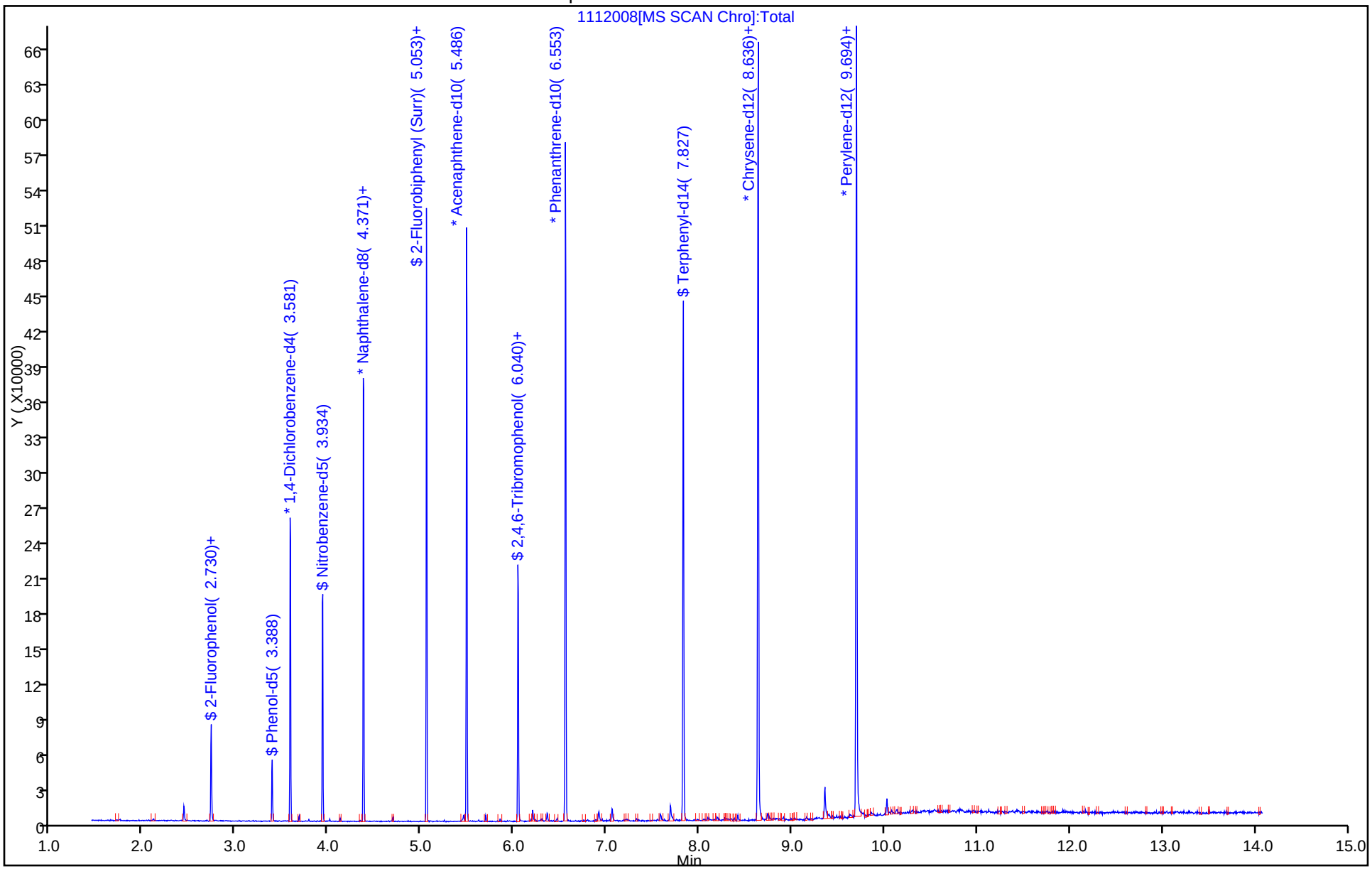
First Level Reviewer: salomonb Date: 13-Nov-2013 11:20:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.586	3.586	0.0	95	28323	40.0	
$ 21 2-Fluorophenol	112	2.730	2.730	0.0	85	16401	19.6	
$ 22 Phenol-d5	99	3.388	3.389	-0.001	0	12847	11.3	
* 37 Naphthalene-d8	136	4.371	4.376	-0.005	99	116585	40.0	
$ 49 Nitrobenzene-d5	82	3.934	3.934	0.0	86	44561	41.0	
* 69 Acenaphthene-d10	164	5.486	5.490	-0.004	87	80378	40.0	
$ 83 2-Fluorobiphenyl (Surr)	172	5.053	5.058	-0.005	99	103735	40.6	
* 102 Phenanthrene-d10	188	6.553	6.558	-0.005	97	157789	40.0	
$ 127 2,4,6-Tribromophenol	330	6.045	6.050	-0.005	92	17109	47.5	
* 136 Chrysene-d12	240	8.636	8.641	-0.005	75	209996	40.0	
$ 147 Terphenyl-d14	244	7.827	7.828	-0.001	97	120428	30.8	
* 156 Perylene-d12	264	9.694	9.699	-0.005	86	218079	40.0	

Report Date: 13-Nov-2013 11:20:20 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP83\20131112-28283.b\1112008.D				
Injection Date:	12-Nov-2013 19:41:30	Instrument ID:	HP83	Operator ID:	HP83
Lims ID:	490-39536-T-5-A	Lab Sample ID:	490-39536-5	Worklist Smp#:	8
Client ID:	MW-02A-GW-001				
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8270HP83	Limit Group:	MSS 8270C ICAL		



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: MW-02B-GW-001 | Lab Sample ID: 490-39536-7

Matrix: Water | Lab File ID: 1112009.D

Analysis Method: 8270C | Date Collected: 11/05/2013 16:15

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:14

Sample wt/vol: 1060(mL) | Date Analyzed: 11/12/2013 20:03

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		1.89	0.345
208-96-8	Acenaphthylene	ND		1.89	0.311
98-86-2	Acetophenone	ND		9.43	1.79
120-12-7	Anthracene	ND		1.89	0.833
1912-24-9	Atrazine	ND		9.43	3.49
100-52-7	Benzaldehyde	ND	*	9.43	2.03
56-55-3	Benzo[a]anthracene	ND		1.89	0.306
50-32-8	Benzo[a]pyrene	ND		1.89	0.311
205-99-2	Benzo[b]fluoranthene	ND		1.89	0.398
191-24-2	Benzo[g,h,i]perylene	ND		1.89	0.271
207-08-9	Benzo[k]fluoranthene	ND		1.89	0.343
92-52-4	Biphenyl	ND		9.43	3.14
111-91-1	Bis(2-chloroethoxy)methane	ND		9.43	1.28
111-44-4	Bis(2-chloroethyl)ether	ND		9.43	1.31
108-60-1	bis (2-chloroisopropyl) ether	ND		9.43	1.85
117-81-7	Bis(2-ethylhexyl) phthalate	ND		9.43	1.94
101-55-3	4-Bromophenyl phenyl ether	ND		9.43	1.29
85-68-7	Butyl benzyl phthalate	ND		9.43	1.64
105-60-2	Caprolactam	ND		9.43	3.14
86-74-8	Carbazole	ND		9.43	0.282
106-47-8	4-Chloroaniline	ND		9.43	1.10
59-50-7	4-Chloro-3-methylphenol	ND		9.43	3.14
91-58-7	2-Chloronaphthalene	ND		9.43	1.55
95-57-8	2-Chlorophenol	ND		9.43	1.50
7005-72-3	4-Chlorophenyl phenyl ether	ND		9.43	1.65
218-01-9	Chrysene	ND		1.89	1.03
53-70-3	Dibenz(a,h)anthracene	ND		1.89	0.608
132-64-9	Dibenzofuran	ND		9.43	0.320
91-94-1	3,3'-Dichlorobenzidine	ND		9.43	1.43
120-83-2	2,4-Dichlorophenol	ND		9.43	0.962
84-66-2	Diethyl phthalate	ND		9.43	1.53
105-67-9	2,4-Dimethylphenol	ND		9.43	0.940
131-11-3	Dimethyl phthalate	ND		9.43	1.71
84-74-2	Di-n-butyl phthalate	ND		9.43	1.42

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: MW-02B-GW-001 | Lab Sample ID: 490-39536-7

Matrix: Water | Lab File ID: 1112009.D

Analysis Method: 8270C | Date Collected: 11/05/2013 16:15

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:14

Sample wt/vol: 1060(mL) | Date Analyzed: 11/12/2013 20:03

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
534-52-1	4,6-Dinitro-2-methylphenol	ND		23.6	1.95
51-28-5	2,4-Dinitrophenol	ND		23.6	2.32
121-14-2	2,4-Dinitrotoluene	ND		9.43	3.14
606-20-2	2,6-Dinitrotoluene	ND		9.43	1.83
117-84-0	Di-n-octyl phthalate	ND		9.43	2.18
206-44-0	Fluoranthene	ND		1.89	0.327
86-73-7	Fluorene	ND		1.89	0.298
118-74-1	Hexachlorobenzene	ND		9.43	1.59
87-68-3	Hexachlorobutadiene	ND		9.43	3.14
77-47-4	Hexachlorocyclopentadiene	ND		9.43	3.14
67-72-1	Hexachloroethane	ND		9.43	3.14
193-39-5	Indeno[1,2,3-cd]pyrene	ND		1.89	0.359
78-59-1	Isophorone	ND		9.43	1.17
91-57-6	2-Methylnaphthalene	ND		1.89	0.293
95-48-7	2-Methylphenol	ND		9.43	3.14
15831-10-4	3 & 4 Methylphenol	ND		9.43	3.14
91-20-3	Naphthalene	ND		1.89	0.375
88-74-4	2-Nitroaniline	ND		23.6	0.981
99-09-2	3-Nitroaniline	ND		23.6	1.75
100-01-6	4-Nitroaniline	ND		23.6	2.25
98-95-3	Nitrobenzene	ND		9.43	1.17
88-75-5	2-Nitrophenol	ND		9.43	1.48
100-02-7	4-Nitrophenol	ND		23.6	3.14
621-64-7	N-Nitrosodi-n-propylamine	ND		9.43	1.34
86-30-6	n-Nitrosodiphenylamine(as diphenylamine)	ND		9.43	1.36
87-86-5	Pentachlorophenol	ND		23.6	1.56
85-01-8	Phenanthrene	ND		1.89	0.324
108-95-2	Phenol	ND		9.43	3.25
129-00-0	Pyrene	ND		1.89	0.312
95-95-4	2,4,5-Trichlorophenol	ND		23.6	1.92
88-06-2	2,4,6-Trichlorophenol	ND		9.43	1.66

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Client Sample ID: MW-02B-GW-001 Lab Sample ID: 490-39536-7

Matrix: Water Lab File ID: 1112009.D

Analysis Method: 8270C Date Collected: 11/05/2013 16:15

Extract. Method: 3510C Date Extracted: 11/12/2013 07:14

Sample wt/vol: 1060(mL) Date Analyzed: 11/12/2013 20:03

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	39		29-120
367-12-4	2-Fluorophenol (Surr)	19		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	40		27-120
4165-62-2	Phenol-d5 (Surr)	11		10-120
1718-51-0	Terphenyl-d14 (Surr)	33		13-120
118-79-6	2,4,6-Tribromophenol (Surr)	46		10-120

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112009.D
Lims ID: 490-39536-V-7-A Lab Sample ID: 490-39536-7
Client ID: MW-02B-GW-001
Sample Type: Client
Inject. Date: 12-Nov-2013 20:03:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 490-39536-V-7-A
Misc. Info.: 490-0028283-009
Operator ID: HP83 Instrument ID: HP83

Method: \\Nvlchrom\ChromData\HP83\20131112-28283.b\8270HP83.m
Limit Group: MSS 8270C ICAL
Last Update: 13-Nov-2013 11:18:44 Calib Date: 24-Oct-2013 15:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D

Column 1 : Detector MS SCAN
Process Host: XAWRK019

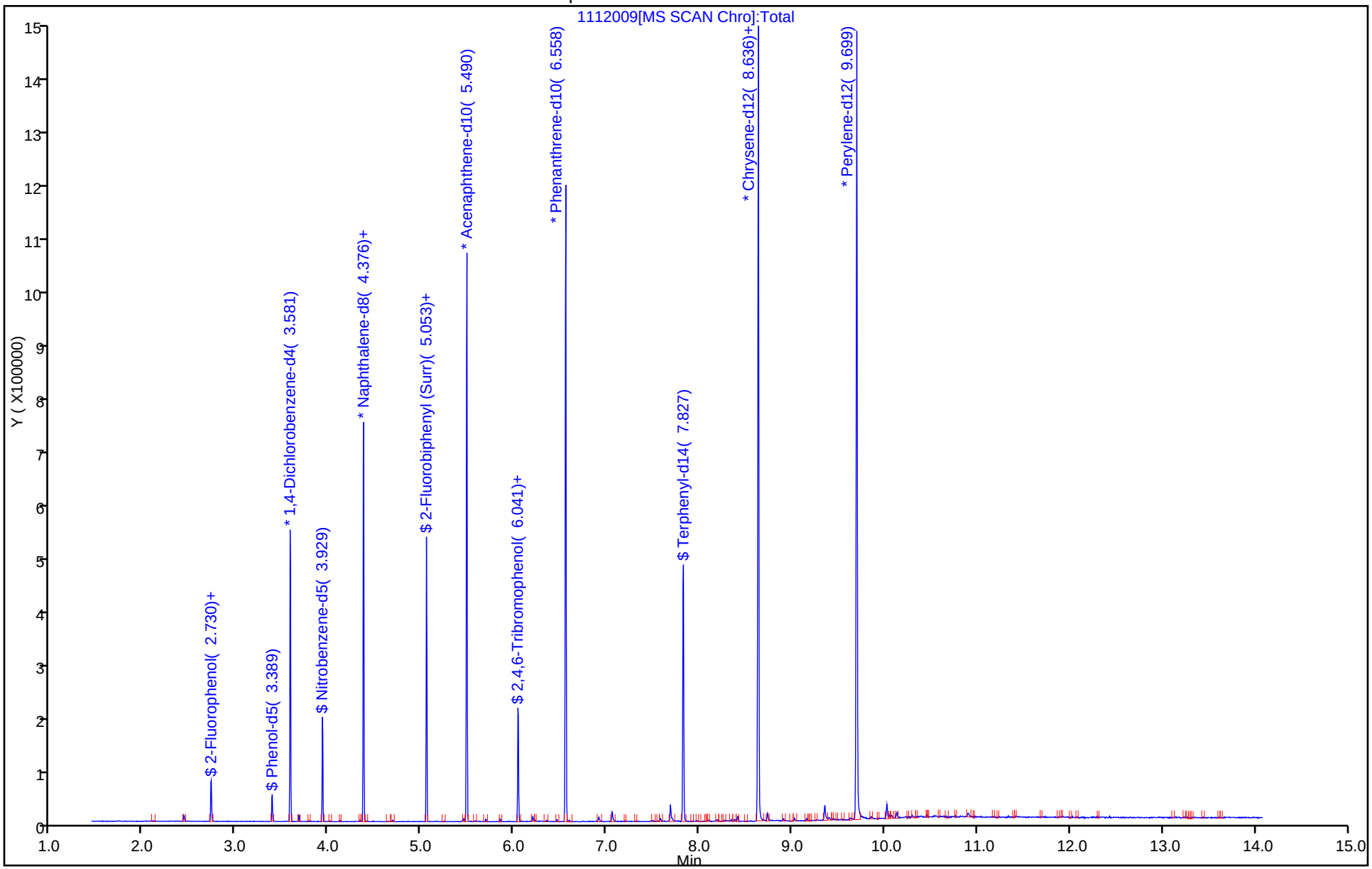
First Level Reviewer: salomonb Date: 13-Nov-2013 11:21:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.581	3.586	-0.005	97	56965	40.0	
$ 21 2-Fluorophenol	112	2.730	2.730	0.0	87	15830	9.43	
$ 22 Phenol-d5	99	3.389	3.389	0.0	0	13008	5.67	
* 37 Naphthalene-d8	136	4.376	4.376	0.0	99	228326	40.0	
$ 49 Nitrobenzene-d5	82	3.929	3.934	-0.005	87	42796	20.1	
* 69 Acenaphthene-d10	164	5.490	5.490	0.0	92	160242	40.0	
$ 83 2-Fluorobiphenyl (Surr)	172	5.053	5.058	-0.005	100	100392	19.7	
* 102 Phenanthrene-d10	188	6.558	6.558	0.0	97	308921	40.0	
$ 127 2,4,6-Tribromophenol	330	6.045	6.050	-0.005	92	16290	23.1	
* 136 Chrysene-d12	240	8.636	8.641	-0.005	81	424088	40.0	
$ 147 Terphenyl-d14	244	7.827	7.828	-0.001	97	130363	16.5	
* 156 Perylene-d12	264	9.699	9.699	0.0	87	445094	40.0	

Report Date: 13-Nov-2013 11:21:36 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP83\20131112-28283.b\1112009.D				
Injection Date:	12-Nov-2013 20:03:30	Instrument ID:	HP83	Operator ID:	HP83
Lims ID:	490-39536-V-7-A	Lab Sample ID:	490-39536-7	Worklist Smp#:	9
Client ID:	MW-02B-GW-001				
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8270HP83	Limit Group:	MSS 8270C ICAL		



FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39536-2 Analy Batch No.: 116774

SDG No.:

Instrument ID: HP83 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2013 13:51 Calibration End Date: 10/24/2013 15:44 Calibration ID: 19923

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 490-116774/3	1022003.D
Level 2	STD2 490-116774/4	1022004.D
Level 3	STD3 490-116774/5	1022005.D
Level 4	ICIS 490-116774/6	1022006.D
Level 5	STD5 490-116774/7	1022007.D
Level 6	STD6 490-116774/8	1022008.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
N-Nitrosodimethylamine	0.5692 0.8158	0.7574	0.7907	0.7781	0.7951	Ave		0.7511				12.0		15.0			
Pyridine	0.5519 0.6452	0.5791	0.6785	0.5651	0.6376	Ave		0.6096				8.4		15.0			
Benzaldehyde	0.3931 0.5006	0.5017	0.5775	0.4898	0.5016	Ave		0.4940				12.0		15.0			
Aniline	1.6959 2.0672	2.0064	2.2333	1.9704	2.0354	Ave		2.0014				8.8		15.0			
Phenol	1.7139 1.7064	1.6922	1.8644	1.6113	1.6945	Ave		1.7138				4.8		15.0			
Bis(2-chloroethyl)ether	1.2538 1.2405	1.2165	1.4193	1.1830	1.2239	Ave		1.2562				6.6		15.0			
2-Chlorophenol	1.4037 1.3374	1.3073	1.4394	1.2897	1.2939	Ave		1.3453				4.6		15.0			
n-Decane	1.0099 0.9540	0.9930	1.0171	0.9153	0.9218	Ave		0.9685				4.6		15.0			
1,3-Dichlorobenzene	1.5170 1.5139	1.4832	1.6437	1.4535	1.4821	Ave		1.5156				4.4		15.0			
1,4-Dichlorobenzene	1.6206 1.5301	1.5965	1.7087	1.4372	1.4866	Ave		1.5633				6.3		15.0			
Benzyl alcohol	0.8545 0.9493	0.9510	0.9594	0.8914	0.9410	Ave		0.9244				4.5		15.0			
1,2-Dichlorobenzene	1.5729 1.5327	1.5097	1.6418	1.4319	1.4807	Ave		1.5283				4.8		15.0			
Indene	2.2002 2.3071	2.3567	2.5976	2.2857	2.2883	Ave		2.3393				5.8		15.0			
2-Methylphenol	1.0611 1.3054	1.2277	1.3876	1.2043	1.2889	Ave		1.2458				8.9		15.0			
bis (2-chloroisopropyl) ether	0.7233 0.9873	0.9838	1.0562	0.9366	0.9644	Ave		0.9420				12.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39536-2 Analy Batch No.: 116774

SDG No.:

Instrument ID: HP83 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2013 13:51 Calibration End Date: 10/24/2013 15:44 Calibration ID: 19923

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acetophenone	1.9646 2.0325	1.9105	2.2659	1.9564	2.0110	Ave		2.0235				6.2		15.0			
N-Nitrosodi-n-propylamine	1.0928 1.1841	1.0786	1.2923	1.1261	1.1602	Ave		1.1557			0.0500	6.7		15.0			
3 & 4 Methylphenol	1.1087 1.3739	1.3410	1.4600	1.2950	1.3195	Ave		1.3164				8.9		15.0			
Hexachloroethane	0.6728 0.5651	0.5642	0.6448	0.5438	0.5604	Ave		0.5918				9.0		15.0			
Nitrobenzene	0.3723 0.3717	0.3962	0.4236	0.3758	0.3681	Ave		0.3846				5.6		15.0			
Isophorone	0.6013 0.6420	0.6666	0.7344	0.6522	0.6440	Ave		0.6567				6.7		15.0			
2-Nitrophenol	0.1721 0.1897	0.1995	0.1967	0.1897	0.1871	Ave		0.1891				5.1		15.0			
2,4-Dimethylphenol	0.3474 0.3591	0.3769	0.4112	0.3605	0.3589	Ave		0.3690				6.2		15.0			
Bis(2-chloroethoxy)methane	0.3989 0.3716	0.3987	0.4354	0.3661	0.3701	Ave		0.3901				6.8		15.0			
Benzoic acid	0.2383 0.3289	0.2635	0.3279	0.3187	0.3280	Ave		0.3009				13.0		15.0			
2,4-Dichlorophenol	0.3138 0.3057	0.2981	0.3523	0.3066	0.3047	Ave		0.3135				6.3		15.0			
1,2,4-Trichlorobenzene	0.3033 0.3246	0.3352	0.3823	0.3362	0.3282	Ave		0.3349				7.8		15.0			
Naphthalene	0.9790 0.9335	0.9983	1.0753	0.9592	0.9511	Ave		0.9827				5.1		15.0			
4-Chloroaniline	0.3402 0.4268	0.4207	0.4843	0.4327	0.4318	Ave		0.4227				11.0		15.0			
Hexachlorobutadiene	0.2301 0.1994	0.2067	0.2289	0.1974	0.1970	Ave		0.2099				7.4		15.0			
Caprolactam	0.0894 0.1289	0.1060	0.1441	0.1231	0.1268	Lin2	-0.082	0.1292							0.9910		0.9900
4-Chloro-3-methylphenol	0.3252 0.3491	0.3489	0.3871	0.3507	0.3429	Ave		0.3506				5.8		15.0			
2-Methylnaphthalene	0.7072 0.7104	0.7381	0.8352	0.7167	0.7249	Ave		0.7388				6.6		15.0			
1-Methylnaphthalene	0.6600 0.6703	0.6967	0.7636	0.6748	0.6606	Ave		0.6877				5.7		15.0			
Hexachlorocyclopentadiene	0.1643 0.3220	0.2212	0.2849	0.3005	0.3050	Lin2	-0.289	0.2996			0.0500				0.9910		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39536-2 Analy Batch No.: 116774

SDG No.:

Instrument ID: HP83 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2013 13:51 Calibration End Date: 10/24/2013 15:44 Calibration ID: 19923

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4,5-Tetrachlorobenzene	0.4023 0.3722	0.3845	0.4321	0.3668	0.3720	Ave		0.3883				6.4		15.0			
2,4,6-Trichlorophenol	0.2866 0.3562	0.3619	0.4037	0.3579	0.3491	Ave		0.3526				11.0		15.0			
2,4,5-Trichlorophenol	0.3698 0.3795	0.4008	0.4159	0.3846	0.3822	Ave		0.3888				4.3		15.0			
Biphenyl	0.8857 0.9011	0.9345	1.0500	0.8961	0.8993	Ave		0.9278				6.7		15.0			
2-Chloronaphthalene	1.0419 1.0160	1.0162	1.1628	1.0169	0.9977	Ave		1.0419				5.8		15.0			
2-Nitroaniline	0.2602 0.3290	0.2967	0.3560	0.3136	0.3244	Ave		0.3133				10.0		15.0			
Dimethyl phthalate	1.2093 1.2569	1.2685	1.4377	1.2693	1.2525	Ave		1.2824				6.2		15.0			
1,3-Dinitrobenzene	0.1396 0.2333	0.2042	0.2371	0.2267	0.2284	Lin2	-0.189	0.2334							0.9990		0.9900
2,6-Dinitrotoluene	0.2445 0.3021	0.3108	0.3167	0.2971	0.3021	Ave		0.2956				8.8		15.0			
Acenaphthylene	1.5217 1.5860	1.6900	1.8480	1.6215	1.5993	Ave		1.6444				6.9		15.0			
3-Nitroaniline	0.2414 0.3270	0.2919	0.3614	0.3214	0.3189	Ave		0.3103				13.0		15.0			
Acenaphthene	1.1359 1.0639	1.1090	1.2206	1.0977	1.0702	Ave		1.1162				5.2		15.0			
2,4-Dinitrophenol	0.0956 0.2425	0.1760	0.2281	0.2235	0.2359	Lin2	-0.568	0.2331			0.0500				0.9950		0.9900
4-Nitrophenol	0.2729 0.2792	0.2627	0.2954	0.2724	0.2764	Ave		0.2765			0.0500	3.9		15.0			
2,4-Dinitrotoluene	0.3159 0.4387	0.4267	0.5004	0.4314	0.4320	Ave		0.4242				14.0		15.0			
Dibenzofuran	1.6552 1.4981	1.6065	1.7554	1.5437	1.5358	Ave		1.5991				5.9		15.0			
2,3,4,6-Tetrachlorophenol	0.3420 0.3609	0.3699	0.3896	0.3624	0.3558	Ave		0.3635				4.4		15.0			
Diethyl phthalate	1.2819 1.2241	1.3002	1.4082	1.2372	1.2279	Ave		1.2799				5.5		15.0			
Hexadecane	0.4558 0.4798	0.5203	0.5565	0.4819	0.4793	Ave		0.4956				7.3		15.0			
Fluorene	1.2803 1.3119	1.3271	1.4948	1.3173	1.3074	Ave		1.3398				5.8		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39536-2 Analy Batch No.: 116774

SDG No.:

Instrument ID: HP83 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2013 13:51 Calibration End Date: 10/24/2013 15:44 Calibration ID: 19923

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
4-Chlorophenyl phenyl ether	0.7146 0.6647	0.6822	0.7798	0.6524	0.6561	Ave		0.6916				7.1		15.0			
4-Nitroaniline	0.2379 0.3333	0.3293	0.3457	0.3227	0.3292	Ave		0.3164				12.0		15.0			
4,6-Dinitro-2-methylphenol	0.0943 0.1626	0.1392	0.1677	0.1541	0.1531	Lin2	-0.267	0.1606							0.9970		0.9900
n-Nitrosodiphenylamine(as diphenylamine)	0.4136 0.4040	0.4047	0.4514	0.3981	0.3918	Ave		0.4106				5.2		15.0			
1,2-Diphenylhydrazine (as Azobenzene)	1.1761 1.2397	1.2864	1.4208	1.2278	1.2446	Ave		1.2659				6.6		15.0			
4-Bromophenyl phenyl ether	0.2198 0.2079	0.2056	0.2396	0.2057	0.2014	Ave		0.2133				6.7		15.0			
Hexachlorobenzene	0.2188 0.2138	0.2157	0.2363	0.2075	0.2063	Ave		0.2164				5.0		15.0			
Atrazine	0.1938 0.2128	0.2064	0.2405	0.2101	0.2066	Ave		0.2117				7.4		15.0			
Pentachlorophenol	0.1466 0.1602	0.1538	0.1780	0.1543	0.1540	Ave		0.1578				6.8		15.0			
n-Octadecane	0.2401 0.2700	0.2680	0.2957	0.2581	0.2585	Ave		0.2651				6.9		15.0			
Phenanthrene	1.0337 0.9892	1.0489	1.1322	0.9855	0.9592	Ave		1.0248				6.1		15.0			
Anthracene	0.9891 1.0293	1.0611	1.1564	1.0001	0.9996	Ave		1.0393				6.1		15.0			
Carbazole	0.9654 0.9775	1.0168	1.1010	0.9686	0.9493	Ave		0.9964				5.6		15.0			
Di-n-butyl phthalate	0.9611 1.1228	1.0856	1.2241	1.1032	1.0745	Ave		1.0952				7.7		15.0			
Fluoranthene	1.1556 1.2253	1.2226	1.3842	1.2283	1.1888	Ave		1.2341				6.4		15.0			
Benzidine	0.2532 0.2378	0.2028	0.3282	0.2339	0.2298	Lin	0.4202	0.2306							0.9920		0.9900
Pyrene	0.9058 0.8886	0.9463	1.0669	0.9107	0.8950	Ave		0.9355				7.2		15.0			
Butyl benzyl phthalate	0.3428 0.3919	0.3507	0.4305	0.3785	0.3805	Ave		0.3792				8.3		15.0			
3,3'-Dichlorobenzidine	0.3243 0.3524	0.3330	0.3803	0.3431	0.3418	Ave		0.3458				5.6		15.0			
Benzo[a]anthracene	1.0631 0.9620	1.0155	1.1214	0.9709	0.9549	Ave		1.0146				6.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39536-2 Analy Batch No.: 116774

SDG No.:

Instrument ID: HP83 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2013 13:51 Calibration End Date: 10/24/2013 15:44 Calibration ID: 19923

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chrysene	1.0256 0.8797	0.9753	1.0663	0.9069	0.8473	Ave		0.9502				9.1		15.0			
Bis(2-ethylhexyl) phthalate	0.4486 0.5466	0.5157	0.5961	0.5355	0.5411	Ave		0.5306				9.1		15.0			
Di-n-octyl phthalate	0.7553 0.9475	0.8241	1.0035	0.9104	0.9428	Ave		0.8973				10.0		15.0			
Benzo[b]fluoranthene	0.9827 1.0097	1.0120	1.2724	1.0250	1.0399	Ave		1.0570				10.0		15.0			
Benzo[k]fluoranthene	1.1098 1.0913	1.1871	1.2619	1.1215	1.0746	Ave		1.1410				6.2		15.0			
Benzo[a]pyrene	0.9180 0.9805	0.9599	1.1105	1.0013	0.9845	Ave		0.9925				6.5		15.0			
Indeno[1,2,3-cd]pyrene	1.1120 1.1590	1.1429	1.3255	1.1485	1.1557	Ave		1.1739				6.5		15.0			
Dibenz(a,h)anthracene	0.9276 0.9602	0.9782	1.0946	0.9689	0.9659	Ave		0.9826				5.9		15.0			
Benzo[g,h,i]perylene	1.0018 0.9747	0.9694	1.1496	0.9943	0.9732	Ave		1.0105				6.9		15.0			
2-Fluorophenol (Surr)	1.1295 1.1858	1.1649	1.2968	1.1455	1.1535	Ave		1.1793				5.1		15.0			
Phenol-d5 (Surr)	1.4445 1.6863	1.5457	1.7862	1.5827	1.6231	Ave		1.6114				7.3		15.0			
Nitrobenzene-d5 (Surr)	0.3323 0.3619	0.3803	0.4165	0.3741	0.3732	Ave		0.3731				7.3		15.0			
2-Fluorobiphenyl (Surr)	1.2864 1.2110	1.2754	1.4072	1.2368	1.2100	Ave		1.2711				5.8		15.0			
2,4,6-Tribromophenol (Surr)	0.0707 0.0976	0.0862	0.1048	0.0945	0.0944	Ave		0.0914				13.0		15.0			
Terphenyl-d14 (Surr)	0.7714 0.7004	0.7550	0.8309	0.7128	0.6982	Ave		0.7448				6.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39536-2 Analy Batch No.: 116774

SDG No.:

Instrument ID: HP83 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2013 13:51 Calibration End Date: 10/24/2013 15:44 Calibration ID: 19923

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 490-116774/3	1022003.D
Level 2	STD2 490-116774/4	1022004.D
Level 3	STD3 490-116774/5	1022005.D
Level 4	ICIS 490-116774/6	1022006.D
Level 5	STD5 490-116774/7	1022007.D
Level 6	STD6 490-116774/8	1022008.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
N-Nitrosodimethylamine	DCB	Ave	824 59312	5755	11980	30009	48562	2.00 100	10.0	20.0	50.0	80.0
Pyridine	DCB	Ave	799 46907	4400	10280	21792	38944	2.00 100	10.0	20.0	50.0	80.0
Benzaldehyde	DCB	Ave	569 36390	3812	8750	18889	30639	2.00 100	10.0	20.0	50.0	80.0
Aniline	DCB	Ave	2455 150287	15245	33837	75987	124324	2.00 100	10.0	20.0	50.0	80.0
Phenol	DCB	Ave	2481 124053	12857	28247	62141	103500	2.00 100	10.0	20.0	50.0	80.0
Bis(2-chloroethyl)ether	DCB	Ave	1815 90181	9243	21504	45622	74758	2.00 100	10.0	20.0	50.0	80.0
2-Chlorophenol	DCB	Ave	2032 97230	9933	21809	49738	79032	2.00 100	10.0	20.0	50.0	80.0
n-Decane	DCB	Ave	1462 69356	7545	15410	35297	56304	2.00 100	10.0	20.0	50.0	80.0
1,3-Dichlorobenzene	DCB	Ave	2196 110062	11269	24904	56053	90529	2.00 100	10.0	20.0	50.0	80.0
1,4-Dichlorobenzene	DCB	Ave	2346 111239	12130	25889	55426	90799	2.00 100	10.0	20.0	50.0	80.0
Benzyl alcohol	DCB	Ave	1237 69015	7226	14536	34377	57475	2.00 100	10.0	20.0	50.0	80.0
1,2-Dichlorobenzene	DCB	Ave	2277 111429	11471	24875	55223	90444	2.00 100	10.0	20.0	50.0	80.0
Indene	DCB	Ave	3185 167723	17906	39356	88148	139770	2.00 100	10.0	20.0	50.0	80.0
2-Methylphenol	DCB	Ave	1536 94903	9328	21023	46443	78729	2.00 100	10.0	20.0	50.0	80.0
bis (2-chloroisopropyl) ether	DCB	Ave	1047 71780	7475	16003	36121	58908	2.00 100	10.0	20.0	50.0	80.0
Acetophenone	DCB	Ave	2844 147765	14516	34331	75450	122834	2.00 100	10.0	20.0	50.0	80.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39536-2 Analy Batch No.: 116774

SDG No.:

Instrument ID: HP83 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2013 13:51 Calibration End Date: 10/24/2013 15:44 Calibration ID: 19923

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
N-Nitrosodi-n-propylamine	DCB	Ave	1582 86082	8195	19580	43427	70867	2.00 100	10.0	20.0	50.0	80.0
3 & 4 Methylphenol	DCB	Ave	1605 99884	10189	22121	49941	80593	2.00 100	10.0	20.0	50.0	80.0
Hexachloroethane	DCB	Ave	974 41081	4287	9769	20972	34227	2.00 100	10.0	20.0	50.0	80.0
Nitrobenzene	NPT	Ave	2270 119632	12637	26696	60919	96863	2.00 100	10.0	20.0	50.0	80.0
Isophorone	NPT	Ave	3666 206611	21263	46279	105717	169449	2.00 100	10.0	20.0	50.0	80.0
2-Nitrophenol	NPT	Ave	1049 61061	6364	12393	30741	49238	2.00 100	10.0	20.0	50.0	80.0
2,4-Dimethylphenol	NPT	Ave	2118 115578	12021	25916	58430	94438	2.00 100	10.0	20.0	50.0	80.0
Bis(2-chloroethoxy)methane	NPT	Ave	2432 119578	12717	27441	59347	97385	2.00 100	10.0	20.0	50.0	80.0
Benzoic acid	NPT	Ave	1453 105846	8406	20666	51662	86311	2.00 100	10.0	20.0	50.0	80.0
2,4-Dichlorophenol	NPT	Ave	1913 98367	9510	22201	49696	80174	2.00 100	10.0	20.0	50.0	80.0
1,2,4-Trichlorobenzene	NPT	Ave	1849 104460	10692	24091	54486	86364	2.00 100	10.0	20.0	50.0	80.0
Naphthalene	NPT	Ave	5969 300418	31843	67767	155477	250267	2.00 100	10.0	20.0	50.0	80.0
4-Chloroaniline	NPT	Ave	2074 137340	13420	30522	70137	113618	2.00 100	10.0	20.0	50.0	80.0
Hexachlorobutadiene	NPT	Ave	1403 64171	6595	14424	31999	51838	2.00 100	10.0	20.0	50.0	80.0
Caprolactam	NPT	Lin2	545 41493	3382	9084	19955	33365	2.00 100	10.0	20.0	50.0	80.0
4-Chloro-3-methylphenol	NPT	Ave	1983 112343	11129	24395	56836	90226	2.00 100	10.0	20.0	50.0	80.0
2-Methylnaphthalene	NPT	Ave	4312 228635	23544	52635	116172	190755	2.00 100	10.0	20.0	50.0	80.0
1-Methylnaphthalene	NPT	Ave	4024 215713	22224	48123	109382	173829	2.00 100	10.0	20.0	50.0	80.0
Hexachlorocyclopentadiene	ANT	Lin2	699 71685	4846	12397	33483	55990	2.00 100	10.0	20.0	50.0	80.0
1,2,4,5-Tetrachlorobenzene	NPT	Ave	2453 119793	12264	27233	59452	97882	2.00 100	10.0	20.0	50.0	80.0
2,4,6-Trichlorophenol	ANT	Ave	1219 79296	7927	17563	39880	64071	2.00 100	10.0	20.0	50.0	80.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39536-2 Analy Batch No.: 116774

SDG No.:

Instrument ID: HP83 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2013 13:51 Calibration End Date: 10/24/2013 15:44 Calibration ID: 19923

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
2,4,5-Trichlorophenol	ANT	Ave	1573 84486	8779	18096	42858	70153	2.00 100	10.0	20.0	50.0	80.0
Biphenyl	NPT	Ave	5400 290001	29809	66172	145252	236641	2.00 100	10.0	20.0	50.0	80.0
2-Chloronaphthalene	ANT	Ave	4432 226148	22258	50590	113325	183132	2.00 100	10.0	20.0	50.0	80.0
2-Nitroaniline	ANT	Ave	1107 73230	6499	15490	34947	59553	2.00 100	10.0	20.0	50.0	80.0
Dimethyl phthalate	ANT	Ave	5144 279789	27785	62552	141446	229896	2.00 100	10.0	20.0	50.0	80.0
1,3-Dinitrobenzene	ANT	Lin2	594 51932	4473	10314	25264	41922	2.00 100	10.0	20.0	50.0	80.0
2,6-Dinitrotoluene	ANT	Ave	1040 67251	6808	13777	33111	55450	2.00 100	10.0	20.0	50.0	80.0
Acenaphthylene	ANT	Ave	6473 353032	37018	80403	180699	293551	2.00 100	10.0	20.0	50.0	80.0
3-Nitroaniline	ANT	Ave	1027 72787	6393	15722	35815	58542	2.00 100	10.0	20.0	50.0	80.0
Acenaphthene	ANT	Ave	4832 236818	24292	53104	122323	196434	2.00 100	10.0	20.0	50.0	80.0
2,4-Dinitrophenol	ANT	Lin2	813 107958	7708	19851	49819	86615	4.00 200	20.0	40.0	100	160
4-Nitrophenol	ANT	Ave	2322 124287	11510	25705	60713	101485	4.00 200	20.0	40.0	100	160
2,4-Dinitrotoluene	ANT	Ave	1344 97664	9346	21773	48069	79300	2.00 100	10.0	20.0	50.0	80.0
Dibenzofuran	ANT	Ave	7041 333483	35189	76371	172022	281891	2.00 100	10.0	20.0	50.0	80.0
2,3,4,6-Tetrachlorophenol	ANT	Ave	1455 80344	8103	16951	40390	65301	2.00 100	10.0	20.0	50.0	80.0
Diethyl phthalate	ANT	Ave	5453 272478	28478	61266	137874	225381	2.00 100	10.0	20.0	50.0	80.0
Hexadecane	ANT	Ave	1939 106808	11396	24212	53703	87979	2.00 100	10.0	20.0	50.0	80.0
Fluorene	ANT	Ave	5446 292017	29068	65033	146802	239972	2.00 100	10.0	20.0	50.0	80.0
4-Chlorophenyl phenyl ether	ANT	Ave	3040 147963	14943	33929	72699	120425	2.00 100	10.0	20.0	50.0	80.0
4-Nitroaniline	ANT	Ave	1012 74187	7212	15042	35966	60422	2.00 100	10.0	20.0	50.0	80.0
4,6-Dinitro-2-methylphenol	PHN	Lin2	1572 141721	12023	28896	68218	113560	4.00 200	20.0	40.0	100	160

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39536-2 Analy Batch No.: 116774

SDG No.:

Instrument ID: HP83 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2013 13:51 Calibration End Date: 10/24/2013 15:44 Calibration ID: 19923

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
n-Nitrosodiphenylamine(as diphenylamine)	PHN	Ave	3447 176132	17480	38886	88094	145333	2.00 100	10.0	20.0	50.0	80.0
1,2-Diphenylhydrazine (as Azobenzene)	ANT	Ave	5003 275957	28177	61814	136818	228447	2.00 100	10.0	20.0	50.0	80.0
4-Bromophenyl phenyl ether	PHN	Ave	1832 90611	8878	20639	45521	74711	2.00 100	10.0	20.0	50.0	80.0
Hexachlorobenzene	PHN	Ave	1824 93190	9317	20360	45917	76526	2.00 100	10.0	20.0	50.0	80.0
Atrazine	PHN	Ave	1615 92748	8913	20720	46489	76638	2.00 100	10.0	20.0	50.0	80.0
Pentachlorophenol	PHN	Ave	2444 139680	13281	30669	68291	114243	4.00 200	20.0	40.0	100	160
n-Octadecane	PHN	Ave	2001 117691	11576	25474	57121	95901	2.00 100	10.0	20.0	50.0	80.0
Phenanthrene	PHN	Ave	8616 431221	45303	97530	218070	355819	2.00 100	10.0	20.0	50.0	80.0
Anthracene	PHN	Ave	8244 448695	45828	99618	221305	370829	2.00 100	10.0	20.0	50.0	80.0
Carbazole	PHN	Ave	8047 426109	43915	94841	214328	352170	2.00 100	10.0	20.0	50.0	80.0
Di-n-butyl phthalate	PHN	Ave	8011 489450	46888	105452	244100	398606	2.00 100	10.0	20.0	50.0	80.0
Fluoranthene	PHN	Ave	9632 534141	52803	119237	271783	440996	2.00 100	10.0	20.0	50.0	80.0
Benzidine	CRY	Lin	2769 145735	11644	37844	71305	116540	2.00 100	10.0	20.0	50.0	80.0
Pyrene	CRY	Ave	9907 544630	54345	123037	277667	453920	2.00 100	10.0	20.0	50.0	80.0
Butyl benzyl phthalate	CRY	Ave	3749 240180	20142	49645	115411	192996	2.00 100	10.0	20.0	50.0	80.0
3,3'-Dichlorobenzidine	CRY	Ave	3547 215998	19122	43858	104602	173349	2.00 100	10.0	20.0	50.0	80.0
Benzo[a]anthracene	CRY	Ave	11628 589626	58316	129327	296018	484282	2.00 100	10.0	20.0	50.0	80.0
Chrysene	CRY	Ave	11218 539192	56010	122971	276500	429731	2.00 100	10.0	20.0	50.0	80.0
Bis(2-ethylhexyl) phthalate	CRY	Ave	4907 335020	29617	68740	163260	274434	2.00 100	10.0	20.0	50.0	80.0
Di-n-octyl phthalate	PRY	Ave	8547 587633	47576	116469	280381	474258	2.00 100	10.0	20.0	50.0	80.0
Benzo[b]fluoranthene	PRY	Ave	11120 626189	58420	147675	315682	523092	2.00 100	10.0	20.0	50.0	80.0

FORM VI

GC/MS SEMI VOA INITIAL CALIBRATION DATA

INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39536-2 Analy Batch No.: 116774

SDG No.:

Instrument ID: HP83 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2013 13:51 Calibration End Date: 10/24/2013 15:44 Calibration ID: 19923

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Benzo[k]fluoranthene	PRY	Ave	12558 676790	68532	146452	345405	540548	2.00 100	10.0	20.0	50.0	80.0
Benzo[a]pyrene	PRY	Ave	10388 608083	55414	128879	308385	495232	2.00 100	10.0	20.0	50.0	80.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	12583 718749	65980	153835	353721	581306	2.00 100	10.0	20.0	50.0	80.0
Dibenz(a,h)anthracene	PRY	Ave	10497 595490	56473	127034	298406	485876	2.00 100	10.0	20.0	50.0	80.0
Benzo[g,h,i]perylene	PRY	Ave	11336 604467	55963	133420	306223	489529	2.00 100	10.0	20.0	50.0	80.0
2-Fluorophenol (Surr)	DCB	Ave	1635 86210	8851	19648	44175	70454	2.00 100	10.0	20.0	50.0	80.0
Phenol-d5 (Surr)	DCB	Ave	2091 122592	11744	27063	61038	99138	2.00 100	10.0	20.0	50.0	80.0
Nitrobenzene-d5 (Surr)	NPT	Ave	2026 116478	12130	26250	60631	98208	2.00 100	10.0	20.0	50.0	80.0
2-Fluorobiphenyl (Surr)	ANT	Ave	5472 269565	27936	61223	137830	222091	2.00 100	10.0	20.0	50.0	80.0
2,4,6-Tribromophenol (Surr)	PHN	Ave	589 42546	3723	9025	20921	35002	2.00 100	10.0	20.0	50.0	80.0
Terphenyl-d14 (Surr)	CRY	Ave	8437 429278	43355	95821	217310	354099	2.00 100	10.0	20.0	50.0	80.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022003.D
Lims ID: std1 Client ID:
Inject. Date: 24-Oct-2013 13:51:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: std1
Misc. Info.: 490-0027300-003
Operator: HP83 Instrument ID: HP83
Injection Vol: 1.0 uL ALS Bottle#: 3
Lims Batch ID: 116774 Lims Sample ID: 3
Sublist: chrom-8270HP83*sub16
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP83\20131024-27300.b\8270HP83.m
Last Update: 25-Oct-2013 12:55:18 Calib Date: 24-Oct-2013 15:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D
Limit Group: MSS 8270C ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK029

First Level Reviewer: salomonb Date: 24-Oct-2013 14:36:11

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.804	3.808	-0.004	97	28952	40.0	
19 N-Nitrosodimethylamine	74	1.838	1.819	0.019	58	824	1.52	
20 Pyridine	52	1.899	1.852	0.047	65	799	1.81	
$ 21 2-Fluorophenol	112	2.976	2.971	0.005	64	1635	1.92	
3 Benzaldehyde	105	3.526	3.526	0.0	74	569	1.59	
23 Aniline	93	3.601	3.601	0.0	93	2455	1.69	
$ 22 Phenol-d5	99	3.606	3.606	0.0	0	2091	1.79	
24 Phenol	94	3.615	3.615	0.0	84	2481	2.00	
25 Bis(2-chloroethyl)ether	93	3.648	3.648	0.0	74	1815	2.00	
26 2-Chlorophenol	128	3.677	3.676	0.001	86	2032	2.09	
6 n-Decane	57	3.724	3.723	0.001	88	1462	2.09	
27 1,3-Dichlorobenzene	146	3.766	3.770	-0.004	84	2196	2.00	
28 1,4-Dichlorobenzene	146	3.818	3.817	0.001	49	2346	2.07	
29 Benzyl alcohol	108	3.902	3.907	-0.005	83	1237	1.85	
30 1,2-Dichlorobenzene	146	3.912	3.912	0.0	74	2277	2.06	
12 Indene	115	3.968	3.968	0.0	85	3185	1.88	
31 2-Methylphenol	108	3.987	3.987	0.0	81	1536	1.70	
32 2,2'-oxybis[1-chloropropane]	45	3.992	3.991	0.001	58	1047	1.54	
17 Acetophenone	105	4.062	4.062	0.0	90	2844	1.94	
33 N-Nitrosodi-n-propylamine	70	4.067	4.071	-0.004	69	1582	1.89	
35 3 & 4 Methylphenol	108	4.086	4.086	0.001	0	1605	1.68	
36 Hexachloroethane	117	4.119	4.123	-0.004	83	974	2.27	
* 37 Naphthalene-d8	136	4.594	4.598	-0.004	100	121938	40.0	
$ 49 Nitrobenzene-d5	82	4.152	4.151	0.001	71	2026	1.78	
50 Nitrobenzene	77	4.161	4.165	-0.004	73	2270	1.94	
51 Isophorone	82	4.316	4.316	0.0	83	3666	1.83	
52 2-Nitrophenol	139	4.363	4.363	0.0	70	1049	1.82	
53 2,4-Dimethylphenol	107	4.405	4.405	0.0	86	2118	1.88	
54 Bis(2-chloroethoxy)methane	93	4.457	4.462	-0.005	89	2432	2.04	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
55 Benzoic acid	105	4.452	4.485	-0.033	58	1453	1.58	
56 2,4-Dichlorophenol	162	4.523	4.518	0.005	69	1913	2.00	
57 1,2,4-Trichlorobenzene	180	4.565	4.565	0.0	82	1849	1.81	
58 Naphthalene	128	4.608	4.612	-0.004	65	5969	1.99	
59 4-Chloroaniline	127	4.650	4.650	0.0	69	2074	1.61	
60 Hexachlorobutadiene	225	4.692	4.697	-0.005	70	1403	2.19	
42 Caprolactam	113	4.847	4.871	-0.024	58	545	2.02	
61 4-Chloro-3-methylphenol	107	4.960	4.965	-0.005	74	1983	1.86	
62 2-Methylnaphthalene	142	5.040	5.040	0.0	81	4312	1.91	
64 1-Methylnaphthalene	142	5.101	5.106	-0.005	71	4024	1.92	
47 1,2,4,5-Tetrachlorobenzene	216	5.148	5.153	-0.005	81	2453	2.07	
170 1,1'-Biphenyl	154	5.346	5.350	-0.004	92	5400	1.91	
* 69 Acenaphthene-d10	164	5.736	5.736	0.0	89	85077	40.0	
80 Hexachlorocyclopentadiene	237	5.148	5.148	0.0	26	699	2.06	
81 2,4,6-Trichlorophenol	196	5.228	5.233	-0.005	65	1219	1.63	
82 2,4,5-Trichlorophenol	196	5.257	5.261	-0.004	84	1573	1.90	
$ 83 2-Fluorobiphenyl (Surr)	172	5.285	5.285	0.0	90	5472	2.02	
84 2-Chloronaphthalene	162	5.355	5.360	-0.005	90	4432	2.00	
85 2-Nitroaniline	65	5.426	5.430	-0.004	46	1107	1.66	
86 Dimethyl phthalate	163	5.557	5.562	-0.005	91	5144	1.89	
76 1,3-Dinitrobenzene	168	5.572	5.576	-0.004	51	594	2.01	
87 2,6-Dinitrotoluene	165	5.595	5.600	-0.005	63	1040	1.65	
88 Acenaphthylene	152	5.633	5.637	-0.004	86	6473	1.85	
89 3-Nitroaniline	138	5.708	5.712	-0.004	81	1027	1.56	
90 Acenaphthene	153	5.755	5.760	-0.005	87	4832	2.04	
91 2,4-Dinitrophenol	184	5.788	5.788	0.0	55	813	4.08	
92 4-Nitrophenol	65	5.854	5.854	0.0	87	2322	3.95	
93 2,4-Dinitrotoluene	165	5.877	5.877	0.0	41	1344	1.49	
94 Dibenzofuran	168	5.877	5.882	-0.005	77	7041	2.07	
77 2,3,4,6-Tetrachlorophenol	232	5.971	5.976	-0.005	42	1455	1.88	
95 Diethyl phthalate	149	6.061	6.065	-0.004	91	5453	2.00	
197 Hexadecane	57	6.089	6.089	0.0	0	1939	1.84	
96 Fluorene	166	6.122	6.126	-0.004	76	5446	1.91	
97 4-Chlorophenyl phenyl ether	204	6.131	6.136	-0.005	80	3040	2.07	
98 4-Nitroaniline	138	6.141	6.150	-0.009	46	1012	1.50	
99 Azobenzene	77	6.244	6.249	-0.005	92	5003	1.86	
* 102 Phenanthrene-d10	188	6.822	6.827	-0.005	96	166702	40.0	
125 4,6-Dinitro-2-methylphenol	198	6.169	6.178	-0.009	79	1572	4.01	
126 N-Nitrosodiphenylamine	169	6.221	6.220	0.0	50	3447	2.01	
$ 127 2,4,6-Tribromophenol	330	6.300	6.305	-0.005	23	589	1.55	
128 4-Bromophenyl phenyl ether	248	6.493	6.498	-0.005	43	1832	2.06	
129 Hexachlorobenzene	284	6.536	6.535	0.001	77	1824	2.02	
168 Atrazine	200	6.630	6.639	-0.009	49	1615	1.83	
130 Pentachlorophenol	266	6.691	6.691	0.0	71	2444	3.72	
115 n-Octadecane	57	6.785	6.789	-0.004	75	2001	1.81	
131 Phenanthrene	178	6.841	6.841	0.0	91	8616	2.02	
132 Anthracene	178	6.879	6.883	-0.004	93	8244	1.90	
133 Carbazole	167	7.010	7.015	-0.005	88	8047	1.94	
134 Di-n-butyl phthalate	149	7.316	7.321	-0.005	93	8011	1.76	
135 Fluoranthene	202	7.772	7.772	0.0	90	9632	1.87	
* 136 Chrysene-d12	240	8.920	8.924	-0.004	80	218757	40.0	
146 Benzidine	184	7.895	7.894	0.0	42	2769	0.3736	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
152 Pyrene	202	7.946	7.951	-0.005	97	9907	1.94	
$ 147 Terphenyl-d14	244	8.097	8.101	-0.004	85	8437	2.07	
149 Butyl benzyl phthalate	149	8.511	8.515	-0.005	83	3749	1.81	
151 3,3'-Dichlorobenzidine	252	8.910	8.910	0.0	38	3547	1.88	
153 Benzo[a]anthracene	228	8.915	8.915	0.0	90	11628	2.10	
154 Chrysene	228	8.938	8.943	-0.005	84	11218	2.16	
155 Bis(2-ethylhexyl) phthalate	149	8.995	8.995	0.0	93	4907	1.69	
* 156 Perylene-d12	264	9.992	9.992	0.0	99	226320	40.0	
158 Di-n-octyl phthalate	149	9.493	9.493	0.0	88	8547	1.68	
159 Benzo[b]fluoranthene	252	9.724	9.728	-0.004	89	11120	1.86	
160 Benzo[k]fluoranthene	252	9.742	9.747	-0.005	91	12558	1.95	
161 Benzo[a]pyrene	252	9.949	9.954	-0.005	63	10388	1.85	
162 Indeno[1,2,3-cd]pyrene	276	10.735	10.744	-0.009	98	12583	1.89	
163 Dibenz(a,h)anthracene	278	10.753	10.763	-0.010	56	10497	1.89	
164 Benzo[g,h,i]perylene	276	10.946	10.955	-0.009	87	11336	1.98	
S 169 Methyl Phenols,Total	1				0		3.39	

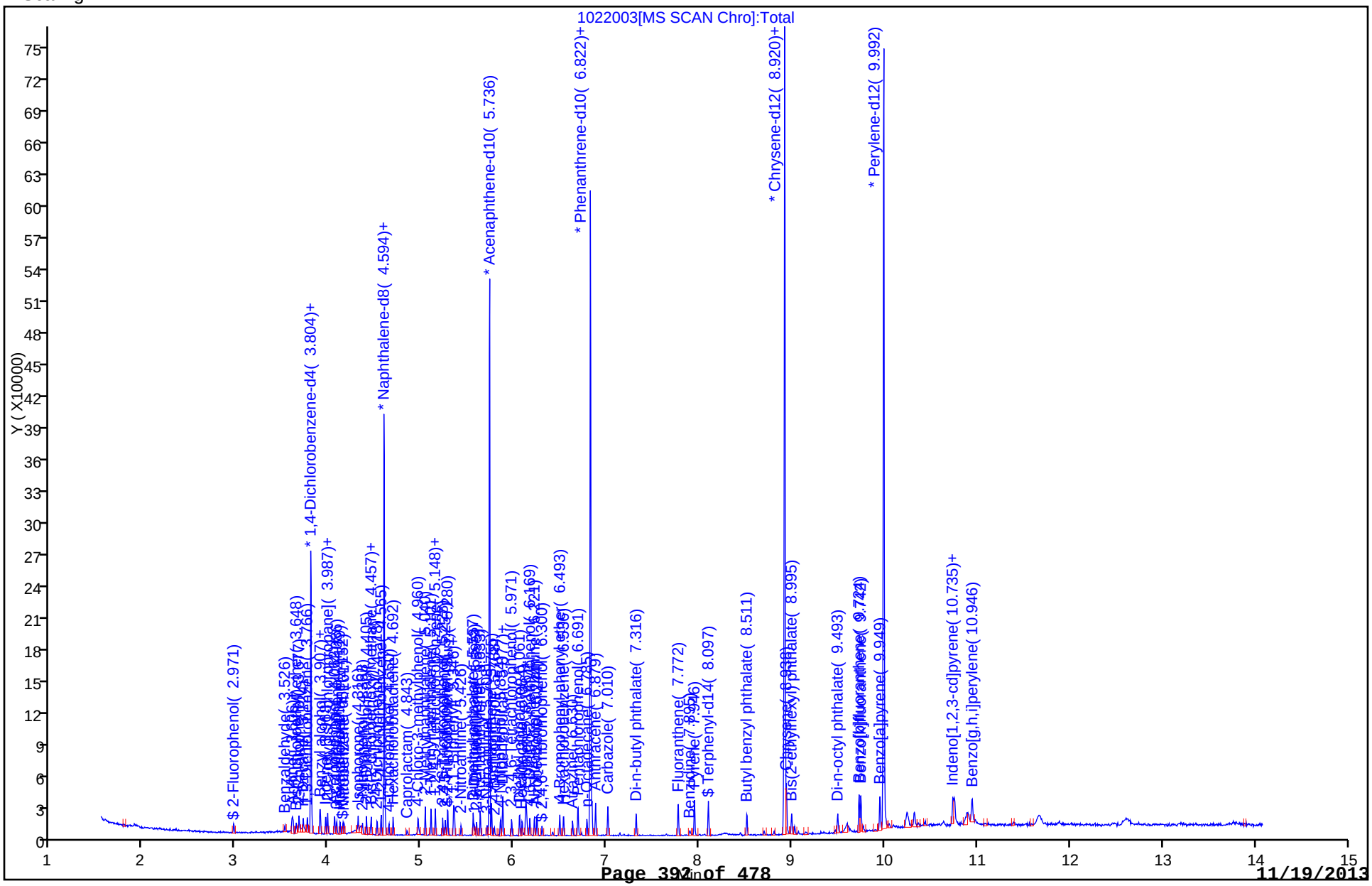
Report Date: 25-Oct-2013 12:55:18 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022003.D

Injection Date:	24-Oct-2013 13:51:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	3
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022004.D		
Lims ID:	std2	Client ID:	
Inject. Date:	24-Oct-2013 14:14:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	std2		
Misc. Info.:	490-0027300-004		
Operator:	HP83	Instrument ID:	HP83
Injection Vol:	1.0 uL	ALS Bottle#:	4
Lims Batch ID:	116774	Lims Sample ID:	4
Sublist:	chrom-8270HP83*sub16		
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\8270HP83.m		
Last Update:	25-Oct-2013 12:55:17	Calib Date:	24-Oct-2013 15:44:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D		
Limit Group:	MSS 8270C ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK029		
First Level Reviewer: salomonb		Date:	24-Oct-2013 14:37:23

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.803	3.808	-0.005	96	30392	40.0	
19 N-Nitrosodimethylamine	74	1.824	1.819	0.005	78	5755	10.1	
20 Pyridine	52	1.871	1.852	0.019	89	4400	9.50	
$ 21 2-Fluorophenol	112	2.971	2.971	0.0	87	8851	9.88	
3 Benzaldehyde	105	3.526	3.526	0.0	88	3812	10.2	
23 Aniline	93	3.601	3.601	0.0	95	15245	10.0	
$ 22 Phenol-d5	99	3.606	3.606	0.0	0	11744	9.59	
24 Phenol	94	3.615	3.615	0.0	91	12857	9.87	
25 Bis(2-chloroethyl)ether	93	3.648	3.648	0.0	99	9243	9.68	
26 2-Chlorophenol	128	3.677	3.676	0.001	94	9933	9.72	
6 n-Decane	57	3.724	3.723	0.001	92	7545	10.3	
27 1,3-Dichlorobenzene	146	3.766	3.770	-0.004	88	11269	9.79	
28 1,4-Dichlorobenzene	146	3.818	3.817	0.001	86	12130	10.2	
29 Benzyl alcohol	108	3.902	3.907	-0.005	88	7226	10.3	
30 1,2-Dichlorobenzene	146	3.912	3.912	0.0	94	11471	9.88	
12 Indene	115	3.963	3.968	-0.005	74	17906	10.1	
31 2-Methylphenol	108	3.987	3.987	0.0	93	9328	9.85	
32 2,2'-oxybis[1-chloropropane]	45	3.992	3.991	0.001	89	7475	10.4	
17 Acetophenone	105	4.062	4.062	0.0	93	14516	9.44	
33 N-Nitrosodi-n-propylamine	70	4.067	4.071	-0.004	88	8195	9.33	
35 3 & 4 Methylphenol	108	4.086	4.086	0.001	0	10189	10.2	
36 Hexachloroethane	117	4.119	4.123	-0.004	94	4287	9.53	
* 37 Naphthalene-d8	136	4.598	4.598	0.0	99	127594	40.0	
$ 49 Nitrobenzene-d5	82	4.151	4.151	0.0	85	12130	10.2	
50 Nitrobenzene	77	4.161	4.165	-0.004	81	12637	10.3	
51 Isophorone	82	4.316	4.316	0.0	96	21263	10.1	
52 2-Nitrophenol	139	4.363	4.363	0.0	93	6364	10.5	
53 2,4-Dimethylphenol	107	4.405	4.405	0.0	97	12021	10.2	
54 Bis(2-chloroethoxy)methane	93	4.457	4.462	-0.005	96	12717	10.2	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
55 Benzoic acid	105	4.457	4.485	-0.028	31	8406	8.76	M
56 2,4-Dichlorophenol	162	4.518	4.518	0.0	93	9510	9.51	
57 1,2,4-Trichlorobenzene	180	4.565	4.565	0.0	89	10692	10.0	
58 Naphthalene	128	4.608	4.612	-0.004	94	31843	10.2	
59 4-Chloroaniline	127	4.650	4.650	0.0	83	13420	9.95	
60 Hexachlorobutadiene	225	4.692	4.697	-0.005	94	6595	9.85	
42 Caprolactam	113	4.852	4.871	-0.019	78	3382	8.84	
61 4-Chloro-3-methylphenol	107	4.960	4.965	-0.005	87	11129	9.95	
62 2-Methylnaphthalene	142	5.040	5.040	0.0	88	23544	10.0	
64 1-Methylnaphthalene	142	5.101	5.106	-0.005	80	22224	10.1	
47 1,2,4,5-Tetrachlorobenzene	216	5.148	5.153	-0.005	97	12264	9.90	
170 1,1'-Biphenyl	154	5.346	5.350	-0.004	95	29809	10.1	
* 69 Acenaphthene-d10	164	5.736	5.736	0.0	91	87614	40.0	
80 Hexachlorocyclopentadiene	237	5.148	5.148	0.0	75	4846	8.35	
81 2,4,6-Trichlorophenol	196	5.228	5.233	-0.005	90	7927	10.3	
82 2,4,5-Trichlorophenol	196	5.256	5.261	-0.005	95	8779	10.3	
$ 83 2-Fluorobiphenyl (Surr)	172	5.285	5.285	0.0	99	27936	10.0	
84 2-Chloronaphthalene	162	5.355	5.360	-0.005	97	22258	9.75	
85 2-Nitroaniline	65	5.426	5.430	-0.004	80	6499	9.47	
86 Dimethyl phthalate	163	5.557	5.562	-0.005	98	27785	9.89	
76 1,3-Dinitrobenzene	168	5.576	5.576	0.0	80	4473	9.56	
87 2,6-Dinitrotoluene	165	5.595	5.600	-0.005	94	6808	10.5	
88 Acenaphthylene	152	5.633	5.637	-0.004	91	37018	10.3	
89 3-Nitroaniline	138	5.708	5.712	-0.004	93	6393	9.41	
90 Acenaphthene	153	5.755	5.760	-0.005	93	24292	9.94	
91 2,4-Dinitrophenol	184	5.783	5.788	-0.005	84	7708	17.5	
92 4-Nitrophenol	65	5.849	5.854	-0.005	95	11510	19.0	
93 2,4-Dinitrotoluene	165	5.877	5.877	0.0	89	9346	10.1	
94 Dibenzofuran	168	5.877	5.882	-0.005	84	35189	10.0	
77 2,3,4,6-Tetrachlorophenol	232	5.971	5.976	-0.005	73	8103	10.2	
95 Diethyl phthalate	149	6.061	6.065	-0.004	96	28478	10.2	
197 Hexadecane	57	6.084	6.089	-0.005	0	11396	10.5	
96 Fluorene	166	6.126	6.126	0.0	81	29068	9.91	
97 4-Chlorophenyl phenyl ether	204	6.131	6.136	-0.005	94	14943	9.86	
98 4-Nitroaniline	138	6.141	6.150	-0.010	84	7212	10.4	
99 Azobenzene	77	6.249	6.249	0.0	96	28177	10.2	
* 102 Phenanthrene-d10	188	6.822	6.827	-0.005	97	172758	40.0	
125 4,6-Dinitro-2-methylphenol	198	6.169	6.178	-0.009	88	12023	19.0	
126 N-Nitrosodiphenylamine	169	6.220	6.220	0.0	60	17480	9.86	
$ 127 2,4,6-Tribromophenol	330	6.300	6.305	-0.005	85	3723	9.44	
128 4-Bromophenyl phenyl ether	248	6.493	6.498	-0.005	60	8878	9.64	
129 Hexachlorobenzene	284	6.535	6.535	0.0	94	9317	9.97	
168 Atrazine	200	6.634	6.639	-0.005	90	8913	9.75	
130 Pentachlorophenol	266	6.691	6.691	0.0	89	13281	19.5	
115 n-Octadecane	57	6.785	6.789	-0.004	90	11576	10.1	
131 Phenanthrene	178	6.841	6.841	0.0	92	45303	10.2	
132 Anthracene	178	6.879	6.883	-0.004	97	45828	10.2	
133 Carbazole	167	7.010	7.015	-0.005	82	43915	10.2	
134 Di-n-butyl phthalate	149	7.316	7.321	-0.005	100	46888	9.91	
135 Fluoranthene	202	7.772	7.772	0.0	97	52803	9.91	
* 136 Chrysene-d12	240	8.920	8.924	-0.004	81	229706	40.0	
146 Benzidine	184	7.894	7.894	0.0	91	11644	6.97	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
152 Pyrene	202	7.946	7.951	-0.005	97	54345	10.1	
$ 147 Terphenyl-d14	244	8.097	8.101	-0.004	97	43355	10.1	
149 Butyl benzyl phthalate	149	8.510	8.515	-0.005	97	20142	9.25	
151 3,3'-Dichlorobenzidine	252	8.910	8.910	0.0	62	19122	9.63	
153 Benzo[a]anthracene	228	8.915	8.915	0.0	98	58316	10.0	
154 Chrysene	228	8.943	8.943	0.0	92	56010	10.3	
155 Bis(2-ethylhexyl) phthalate	149	8.995	8.995	0.0	94	29617	9.72	
* 156 Perylene-d12	264	9.992	9.992	0.0	87	230915	40.0	
158 Di-n-octyl phthalate	149	9.493	9.493	0.0	99	47576	9.18	
159 Benzo[b]fluoranthene	252	9.724	9.728	-0.004	92	58420	9.57	
160 Benzo[k]fluoranthene	252	9.742	9.747	-0.005	99	68532	10.4	
161 Benzo[a]pyrene	252	9.949	9.954	-0.005	74	55414	9.67	
162 Indeno[1,2,3-cd]pyrene	276	10.739	10.744	-0.005	95	65980	9.74	
163 Dibenz(a,h)anthracene	278	10.753	10.763	-0.010	65	56473	9.96	
164 Benzo[g,h,i]perylene	276	10.946	10.955	-0.009	93	55963	9.59	
S 169 Methyl Phenols,Total	1				0		20.0	

QC Flag Legend

Review Flags
M - Manually Integrated

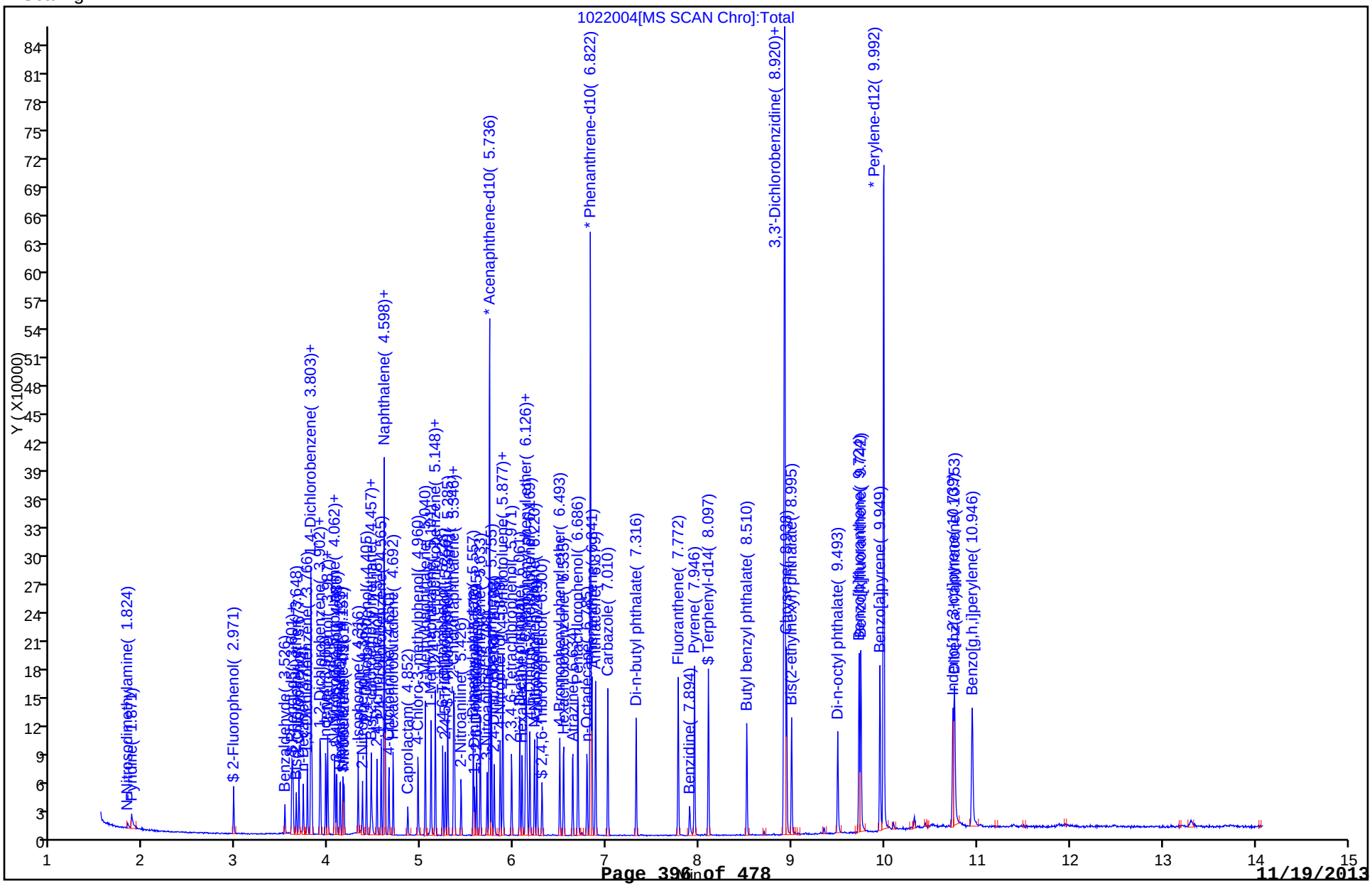
Report Date: 25-Oct-2013 12:55:17 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022004.D

Injection Date:	24-Oct-2013 14:14:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	4
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling:



Manual Integration/User Assign Peak Report

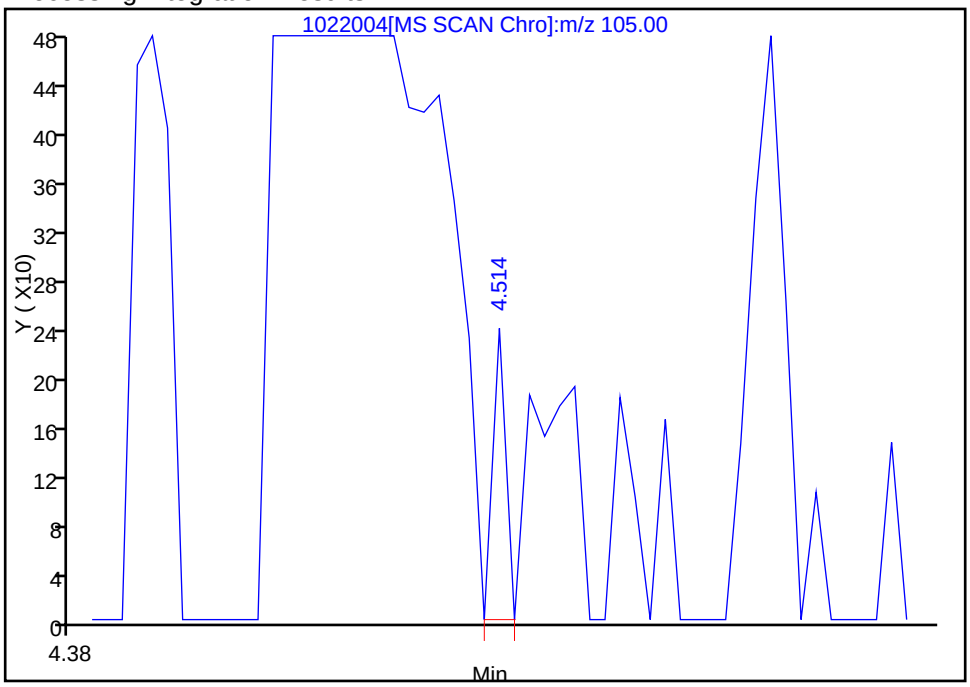
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022004.D		
Injection Date:	24-Oct-2013 14:14:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	4
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	

55 Benzoic acid, Signal: 1, m/z: 105.0 Type: quant, RT: 4.49

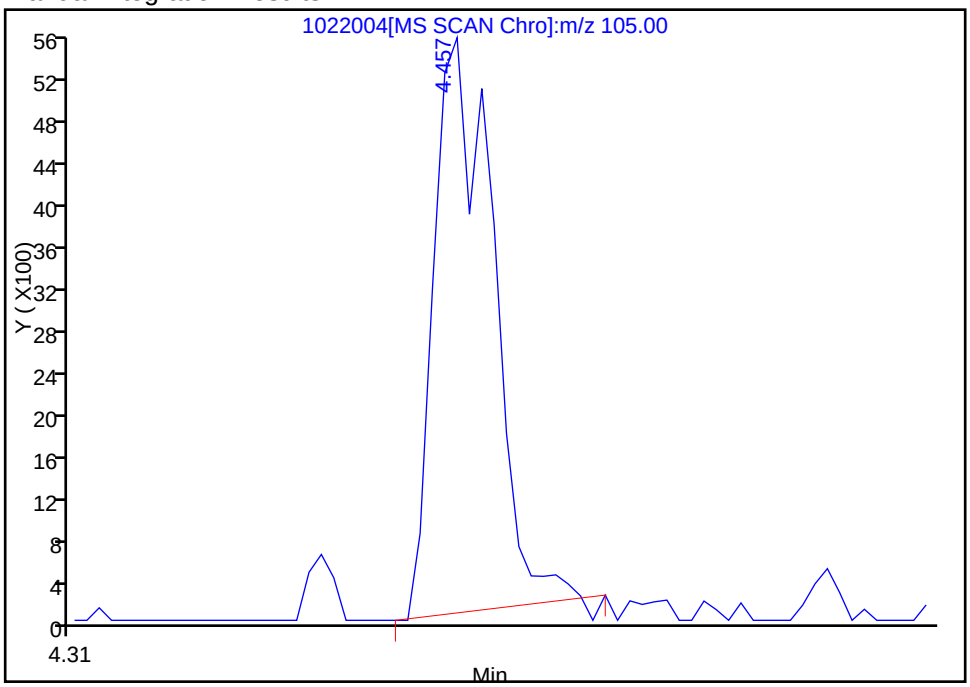
Processing Integration Results

RT: 4.51
Response: 68
Amount: 0.177315



Manual Integration Results

RT: 4.46
Response: 8406
Amount: 8.757814



Reviewer: salomonb, 24-Oct-2013 16:25:56
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022005.D		
Lims ID:	std3	Client ID:	
Inject. Date:	24-Oct-2013 14:36:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	std3		
Misc. Info.:	490-0027300-005		
Operator:	HP83	Instrument ID:	HP83
Injection Vol:	1.0 uL	ALS Bottle#:	5
Lims Batch ID:	116774	Lims Sample ID:	5
Sublist:	chrom-8270HP83*sub16		
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\8270HP83.m		
Last Update:	25-Oct-2013 12:55:16	Calib Date:	24-Oct-2013 15:44:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D		
Limit Group:	MSS 8270C ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK029		
First Level Reviewer: salomonb		Date:	24-Oct-2013 15:02:37

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.803	3.808	-0.005	93	30302	40.0	
19 N-Nitrosodimethylamine	74	1.819	1.819	0.0	78	11980	21.1	
20 Pyridine	52	1.861	1.852	0.009	92	10280	22.3	
$ 21 2-Fluorophenol	112	2.971	2.971	0.0	90	19648	22.0	
3 Benzaldehyde	105	3.526	3.526	0.0	91	8750	23.4	
23 Aniline	93	3.601	3.601	0.0	96	33837	22.3	
$ 22 Phenol-d5	99	3.606	3.606	0.0	0	27063	22.2	
24 Phenol	94	3.615	3.615	0.0	96	28247	21.8	
25 Bis(2-chloroethyl)ether	93	3.648	3.648	0.0	96	21504	22.6	
26 2-Chlorophenol	128	3.676	3.676	0.0	97	21809	21.4	
6 n-Decane	57	3.723	3.723	0.0	91	15410	21.0	
27 1,3-Dichlorobenzene	146	3.770	3.770	0.0	97	24904	21.7	
28 1,4-Dichlorobenzene	146	3.817	3.817	0.0	84	25889	21.9	
29 Benzyl alcohol	108	3.902	3.907	-0.005	87	14536	20.8	
30 1,2-Dichlorobenzene	146	3.912	3.912	0.0	96	24875	21.5	
12 Indene	115	3.968	3.968	0.0	70	39356	22.2	
31 2-Methylphenol	108	3.987	3.987	0.0	97	21023	22.3	
32 2,2'-oxybis[1-chloropropane]	45	3.991	3.991	0.0	90	16003	22.4	
17 Acetophenone	105	4.062	4.062	0.0	96	34331	22.4	
33 N-Nitrosodi-n-propylamine	70	4.067	4.071	-0.004	88	19580	22.4	
35 3 & 4 Methylphenol	108	4.085	4.086	0.0	0	22121	22.2	
36 Hexachloroethane	117	4.123	4.123	0.0	92	9769	21.8	
* 37 Naphthalene-d8	136	4.598	4.598	0.0	99	126040	40.0	
$ 49 Nitrobenzene-d5	82	4.151	4.151	0.0	85	26250	22.3	
50 Nitrobenzene	77	4.165	4.165	0.0	79	26696	22.0	
51 Isophorone	82	4.316	4.316	0.0	97	46279	22.4	
52 2-Nitrophenol	139	4.363	4.363	0.0	98	12393	20.8	
53 2,4-Dimethylphenol	107	4.405	4.405	0.0	97	25916	22.3	
54 Bis(2-chloroethoxy)methane	93	4.457	4.462	-0.005	99	27441	22.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
55 Benzoic acid	105	4.466	4.485	-0.019	83	20666	21.8	
56 2,4-Dichlorophenol	162	4.518	4.518	0.0	95	22201	22.5	
57 1,2,4-Trichlorobenzene	180	4.565	4.565	0.0	92	24091	22.8	
58 Naphthalene	128	4.607	4.612	-0.005	97	67767	21.9	
59 4-Chloroaniline	127	4.650	4.650	0.0	83	30522	22.9	
60 Hexachlorobutadiene	225	4.697	4.697	0.0	94	14424	21.8	
42 Caprolactam	113	4.857	4.871	-0.014	84	9084	22.9	
61 4-Chloro-3-methylphenol	107	4.965	4.965	0.0	88	24395	22.1	
62 2-Methylnaphthalene	142	5.040	5.040	0.0	89	52635	22.6	
64 1-Methylnaphthalene	142	5.101	5.106	-0.005	81	48123	22.2	
47 1,2,4,5-Tetrachlorobenzene	216	5.153	5.153	0.0	94	27233	22.3	
170 1,1'-Biphenyl	154	5.346	5.350	-0.004	95	66172	22.6	
* 69 Acenaphthene-d10	164	5.736	5.736	0.0	88	87015	40.0	
80 Hexachlorocyclopentadiene	237	5.148	5.148	0.0	95	12397	20.0	
81 2,4,6-Trichlorophenol	196	5.228	5.233	-0.005	93	17563	22.9	
82 2,4,5-Trichlorophenol	196	5.256	5.261	-0.005	94	18096	21.4	
$ 83 2-Fluorobiphenyl (Surr)	172	5.285	5.285	0.0	99	61223	22.1	
84 2-Chloronaphthalene	162	5.355	5.360	-0.005	98	50590	22.3	
85 2-Nitroaniline	65	5.426	5.430	-0.004	82	15490	22.7	
86 Dimethyl phthalate	163	5.562	5.562	0.0	99	62552	22.4	
76 1,3-Dinitrobenzene	168	5.576	5.576	0.0	82	10314	21.1	
87 2,6-Dinitrotoluene	165	5.595	5.600	-0.005	93	13777	21.4	
88 Acenaphthylene	152	5.637	5.637	0.0	91	80403	22.5	
89 3-Nitroaniline	138	5.708	5.712	-0.004	95	15722	23.3	
90 Acenaphthene	153	5.755	5.760	-0.005	94	53104	21.9	
91 2,4-Dinitrophenol	184	5.788	5.788	0.0	85	19851	41.6	
92 4-Nitrophenol	65	5.849	5.854	-0.005	96	25705	42.7	
93 2,4-Dinitrotoluene	165	5.877	5.877	0.0	90	21773	23.6	
94 Dibenzofuran	168	5.882	5.882	0.0	85	76371	22.0	
77 2,3,4,6-Tetrachlorophenol	232	5.976	5.976	0.0	70	16951	21.4	
95 Diethyl phthalate	149	6.060	6.065	-0.005	95	61266	22.0	
197 Hexadecane	57	6.084	6.089	-0.005	0	24212	22.5	
96 Fluorene	166	6.126	6.126	0.0	82	65033	22.3	
97 4-Chlorophenyl phenyl ether	204	6.131	6.136	-0.005	92	33929	22.6	
98 4-Nitroaniline	138	6.145	6.150	-0.005	55	15042	21.9	
99 Azobenzene	77	6.249	6.249	0.0	97	61814	22.4	
* 102 Phenanthrene-d10	188	6.822	6.827	-0.005	95	172289	40.0	
125 4,6-Dinitro-2-methylphenol	198	6.173	6.178	-0.005	92	28896	43.4	
126 N-Nitrosodiphenylamine	169	6.220	6.220	0.0	60	38886	22.0	
$ 127 2,4,6-Tribromophenol	330	6.305	6.305	0.0	90	9025	22.9	
128 4-Bromophenyl phenyl ether	248	6.493	6.498	-0.005	60	20639	22.5	
129 Hexachlorobenzene	284	6.535	6.535	0.0	95	20360	21.8	
168 Atrazine	200	6.634	6.639	-0.005	94	20720	22.7	
130 Pentachlorophenol	266	6.691	6.691	0.0	90	30669	45.1	
115 n-Octadecane	57	6.785	6.789	-0.004	91	25474	22.3	
131 Phenanthrene	178	6.841	6.841	0.0	96	97530	22.1	
132 Anthracene	178	6.879	6.883	-0.004	98	99618	22.3	
133 Carbazole	167	7.015	7.015	0.0	82	94841	22.1	
134 Di-n-butyl phthalate	149	7.321	7.321	0.0	100	105452	22.4	
135 Fluoranthene	202	7.772	7.772	0.0	97	119237	22.4	
* 136 Chrysene-d12	240	8.924	8.924	0.0	85	230648	40.0	
146 Benzidine	184	7.894	7.894	0.0	97	37844	26.6	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
152 Pyrene	202	7.946	7.951	-0.005	95	123037	22.8	
$ 147 Terphenyl-d14	244	8.097	8.101	-0.004	98	95821	22.3	
149 Butyl benzyl phthalate	149	8.515	8.515	0.0	95	49645	22.7	
151 3,3'-Dichlorobenzidine	252	8.910	8.910	0.0	68	43858	22.0	
153 Benzo[a]anthracene	228	8.915	8.915	0.0	98	129327	22.1	
154 Chrysene	228	8.943	8.943	0.0	92	122971	22.4	
155 Bis(2-ethylhexyl) phthalate	149	8.995	8.995	0.0	95	68740	22.5	
* 156 Perylene-d12	264	9.992	9.992	0.0	87	232116	40.0	
158 Di-n-octyl phthalate	149	9.493	9.493	0.0	99	116469	22.4	
159 Benzo[b]fluoranthene	252	9.723	9.728	-0.005	84	147675	24.1	
160 Benzo[k]fluoranthene	252	9.747	9.747	0.0	99	146452	22.1	
161 Benzo[a]pyrene	252	9.949	9.954	-0.005	75	128879	22.4	
162 Indeno[1,2,3-cd]pyrene	276	10.739	10.744	-0.005	99	153835	22.6	
163 Dibenz(a,h)anthracene	278	10.758	10.763	-0.005	71	127034	22.3	
164 Benzo[g,h,i]perylene	276	10.951	10.955	-0.004	93	133420	22.8	
S 169 Methyl Phenols,Total	1				0		44.5	

Report Date: 25-Oct-2013 12:55:16 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022005.D

Injection Date:	24-Oct-2013 14:36:30	Limit Group:	MSS 8270C ICAL
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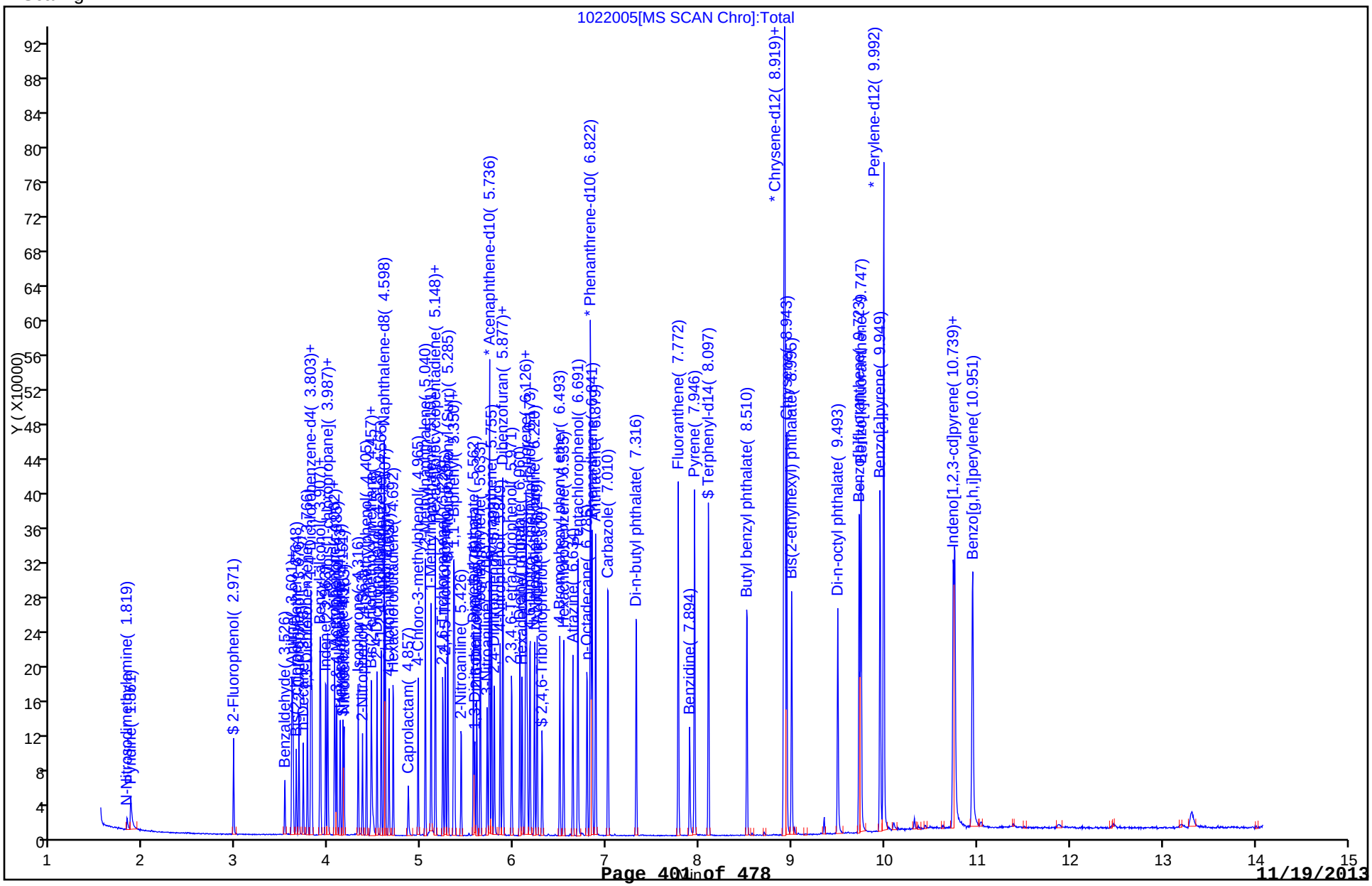
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Nashville
Target Compound Quantitation Report

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Sample ID:	icis		
Misc. Info.:	490-0027300-006		
Operator:	HP83	Instrument ID:	HP83
Injection Vol:	1.0 uL	ALS Bottle#:	6
Lims Batch ID:	116774	Lims Sample ID:	6
Sublist:	chrom-8270HP83*sub16		
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\8270HP83.m		
Last Update:	25-Oct-2013 12:55:14	Calib Date:	24-Oct-2013 15:44:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D		
Limit Group:	MSS 8270C ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK029		
First Level Reviewer: salomonb		Date:	24-Oct-2013 16:23:35

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.808	3.808	0.0	94	30852	40.0	
19 N-Nitrosodimethylamine	74	1.819	1.819	0.0	83	30009	51.8	
20 Pyridine	52	1.852	1.852	0.0	92	21792	46.3	
$ 21 2-Fluorophenol	112	2.971	2.971	0.0	89	44175	48.6	
3 Benzaldehyde	105	3.526	3.526	0.0	93	18889	49.6	
23 Aniline	93	3.601	3.601	0.0	96	75987	49.2	
$ 22 Phenol-d5	99	3.606	3.606	0.0	0	61038	49.1	
24 Phenol	94	3.615	3.615	0.0	95	62141	47.0	
25 Bis(2-chloroethyl)ether	93	3.648	3.648	0.0	99	45622	47.1	
26 2-Chlorophenol	128	3.676	3.676	0.0	96	49738	47.9	
6 n-Decane	57	3.723	3.723	0.0	91	35297	47.3	
27 1,3-Dichlorobenzene	146	3.770	3.770	0.0	97	56053	48.0	
28 1,4-Dichlorobenzene	146	3.817	3.817	0.0	91	55426	46.0	
29 Benzyl alcohol	108	3.907	3.907	0.0	88	34377	48.2	
30 1,2-Dichlorobenzene	146	3.912	3.912	0.0	96	55223	46.8	
12 Indene	115	3.968	3.968	0.0	74	88148	48.9	
31 2-Methylphenol	108	3.987	3.987	0.0	94	46443	48.3	
32 2,2'-oxybis[1-chloropropane]	45	3.991	3.991	0.0	88	36121	49.7	
17 Acetophenone	105	4.062	4.062	0.0	95	75450	48.3	
33 N-Nitrosodi-n-propylamine	70	4.071	4.071	0.0	90	43427	48.7	
35 3 & 4 Methylphenol	108	4.086	4.086	0.0	0	49941	49.2	
36 Hexachloroethane	117	4.123	4.123	0.0	91	20972	45.9	
* 37 Naphthalene-d8	136	4.598	4.598	0.0	99	129669	40.0	
$ 49 Nitrobenzene-d5	82	4.151	4.151	0.0	87	60631	50.1	
50 Nitrobenzene	77	4.165	4.165	0.0	76	60919	48.9	
51 Isophorone	82	4.316	4.316	0.0	97	105717	49.7	
52 2-Nitrophenol	139	4.363	4.363	0.0	97	30741	50.1	
53 2,4-Dimethylphenol	107	4.405	4.405	0.0	98	58430	48.8	
54 Bis(2-chloroethoxy)methane	93	4.462	4.462	0.0	97	59347	46.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
55 Benzoic acid	105	4.485	4.485	0.0	82	51662	53.0	
56 2,4-Dichlorophenol	162	4.518	4.518	0.0	96	49696	48.9	
57 1,2,4-Trichlorobenzene	180	4.565	4.565	0.0	93	54486	50.2	
58 Naphthalene	128	4.612	4.612	0.0	97	155477	48.8	
59 4-Chloroaniline	127	4.650	4.650	0.0	82	70137	51.2	
60 Hexachlorobutadiene	225	4.697	4.697	0.0	91	31999	47.0	
42 Caprolactam	113	4.871	4.871	0.0	83	19955	48.3	M
61 4-Chloro-3-methylphenol	107	4.965	4.965	0.0	89	56836	50.0	
62 2-Methylnaphthalene	142	5.040	5.040	0.0	85	116172	48.5	
64 1-Methylnaphthalene	142	5.106	5.106	0.0	80	109382	49.1	
47 1,2,4,5-Tetrachlorobenzene	216	5.153	5.153	0.0	94	59452	47.2	
170 1,1'-Biphenyl	154	5.350	5.350	0.0	95	145252	48.3	
* 69 Acenaphthene-d10	164	5.736	5.736	0.0	90	89150	40.0	
80 Hexachlorocyclopentadiene	237	5.148	5.148	0.0	94	33483	51.1	
81 2,4,6-Trichlorophenol	196	5.233	5.233	0.0	88	39880	50.8	
82 2,4,5-Trichlorophenol	196	5.261	5.261	0.0	94	42858	49.5	
$ 83 2-Fluorobiphenyl (Surr)	172	5.285	5.285	0.0	99	137830	48.7	
84 2-Chloronaphthalene	162	5.360	5.360	0.0	95	113325	48.8	
85 2-Nitroaniline	65	5.430	5.430	0.0	82	34947	50.0	
86 Dimethyl phthalate	163	5.562	5.562	0.0	98	141446	49.5	
76 1,3-Dinitrobenzene	168	5.576	5.576	0.0	82	25264	49.4	
87 2,6-Dinitrotoluene	165	5.600	5.600	0.0	89	33111	50.3	
88 Acenaphthylene	152	5.637	5.637	0.0	91	180699	49.3	
89 3-Nitroaniline	138	5.712	5.712	0.0	95	35815	51.8	
90 Acenaphthene	153	5.760	5.760	0.0	95	122323	49.2	
91 2,4-Dinitrophenol	184	5.788	5.788	0.0	84	49819	98.3	
92 4-Nitrophenol	65	5.854	5.854	0.0	96	60713	98.5	
93 2,4-Dinitrotoluene	165	5.877	5.877	0.0	87	48069	50.8	
94 Dibenzofuran	168	5.882	5.882	0.0	84	172022	48.3	
77 2,3,4,6-Tetrachlorophenol	232	5.976	5.976	0.0	70	40390	49.9	
95 Diethyl phthalate	149	6.065	6.065	0.0	96	137874	48.3	
197 Hexadecane	57	6.089	6.089	0.0	0	53703	48.6	
96 Fluorene	166	6.126	6.126	0.0	82	146802	49.2	
97 4-Chlorophenyl phenyl ether	204	6.136	6.136	0.0	88	72699	47.2	
98 4-Nitroaniline	138	6.150	6.150	0.0	78	35966	51.0	
99 Azobenzene	77	6.249	6.249	0.0	97	136818	48.5	
* 102 Phenanthrene-d10	188	6.827	6.827	0.0	96	177018	40.0	
125 4,6-Dinitro-2-methylphenol	198	6.178	6.178	0.0	91	68218	97.7	
126 N-Nitrosodiphenylamine	169	6.220	6.220	0.0	61	88094	48.5	
$ 127 2,4,6-Tribromophenol	330	6.305	6.305	0.0	91	20921	51.7	
128 4-Bromophenyl phenyl ether	248	6.498	6.498	0.0	60	45521	48.2	
129 Hexachlorobenzene	284	6.535	6.535	0.0	92	45917	47.9	
168 Atrazine	200	6.639	6.639	0.0	93	46489	49.6	
130 Pentachlorophenol	266	6.691	6.691	0.0	89	68291	97.8	
115 n-Octadecane	57	6.789	6.789	0.0	90	57121	48.7	
131 Phenanthrene	178	6.841	6.841	0.0	97	218070	48.1	
132 Anthracene	178	6.883	6.883	0.0	97	221305	48.1	
133 Carbazole	167	7.015	7.015	0.0	82	214328	48.6	
134 Di-n-butyl phthalate	149	7.321	7.321	0.0	100	244100	50.4	
135 Fluoranthene	202	7.772	7.772	0.0	98	271783	49.8	
* 136 Chrysene-d12	240	8.924	8.924	0.0	82	243911	40.0	
146 Benzidine	184	7.894	7.894	0.0	98	71305	48.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
152 Pyrene	202	7.951	7.951	0.0	98	277667	48.7	
$ 147 Terphenyl-d14	244	8.101	8.101	0.0	99	217310	47.9	
149 Butyl benzyl phthalate	149	8.515	8.515	0.0	96	115411	49.9	
151 3,3'-Dichlorobenzidine	252	8.910	8.910	0.0	71	104602	49.6	
153 Benzo[a]anthracene	228	8.915	8.915	0.0	99	296018	47.8	
154 Chrysene	228	8.943	8.943	0.0	92	276500	47.7	
155 Bis(2-ethylhexyl) phthalate	149	8.995	8.995	0.0	96	163260	50.5	
* 156 Perylene-d12	264	9.992	9.992	0.0	87	246383	40.0	
158 Di-n-octyl phthalate	149	9.493	9.493	0.0	100	280381	50.7	
159 Benzo[b]fluoranthene	252	9.728	9.728	0.0	90	315682	48.5	
160 Benzo[k]fluoranthene	252	9.747	9.747	0.0	96	345405	49.1	
161 Benzo[a]pyrene	252	9.954	9.954	0.0	75	308385	50.4	
162 Indeno[1,2,3-cd]pyrene	276	10.744	10.744	0.0	99	353721	48.9	
163 Dibenz(a,h)anthracene	278	10.763	10.763	0.0	72	298406	49.3	
164 Benzo[g,h,i]perylene	276	10.955	10.955	0.0	94	306223	49.2	
S 169 Methyl Phenols,Total	1				0		97.5	

QC Flag Legend

Review Flags
M - Manually Integrated

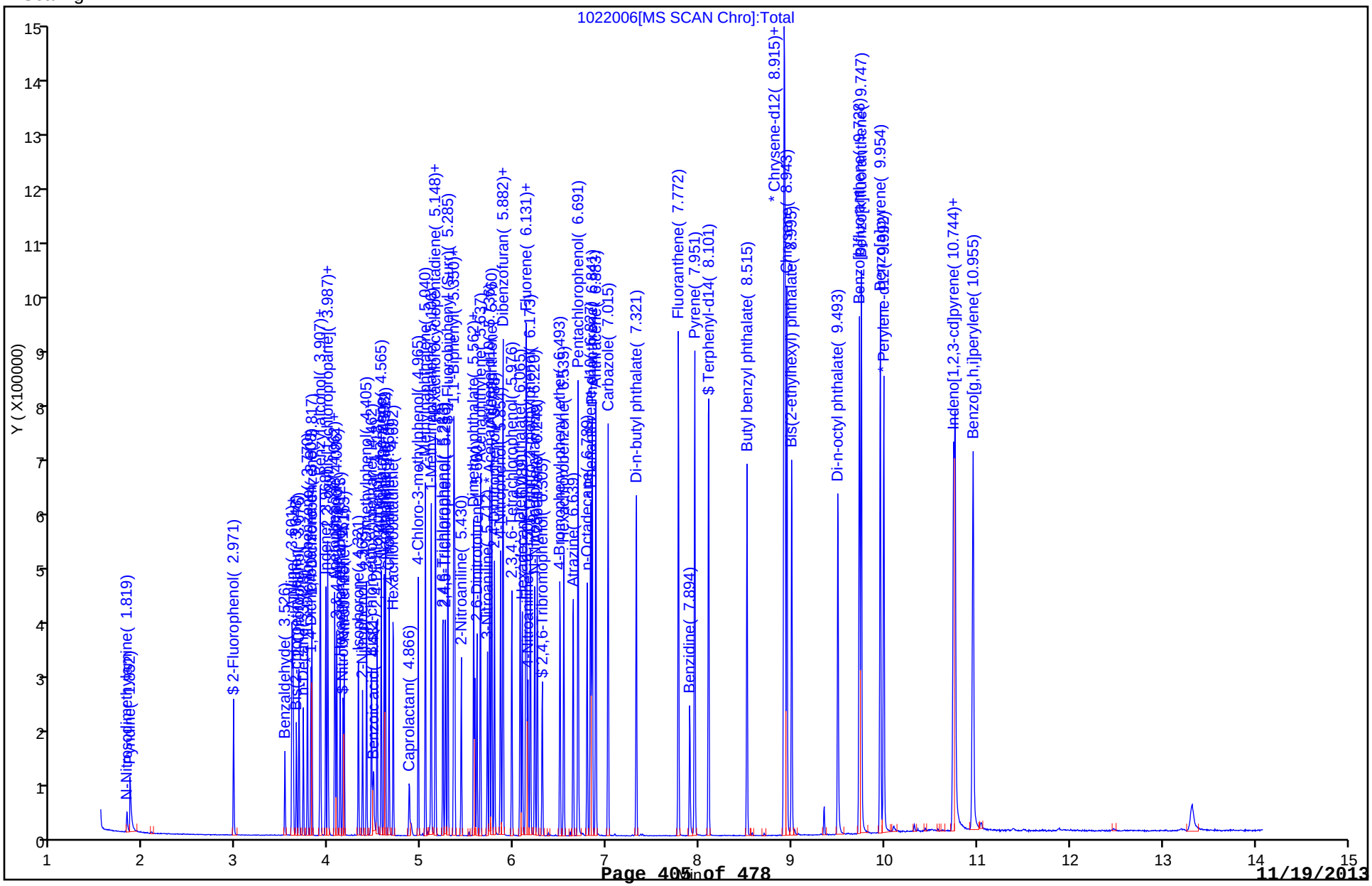
Report Date: 25-Oct-2013 12:55:15 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022006.D

Injection Date:	24-Oct-2013 14:59:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	6
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling:



Manual Integration/User Assign Peak Report

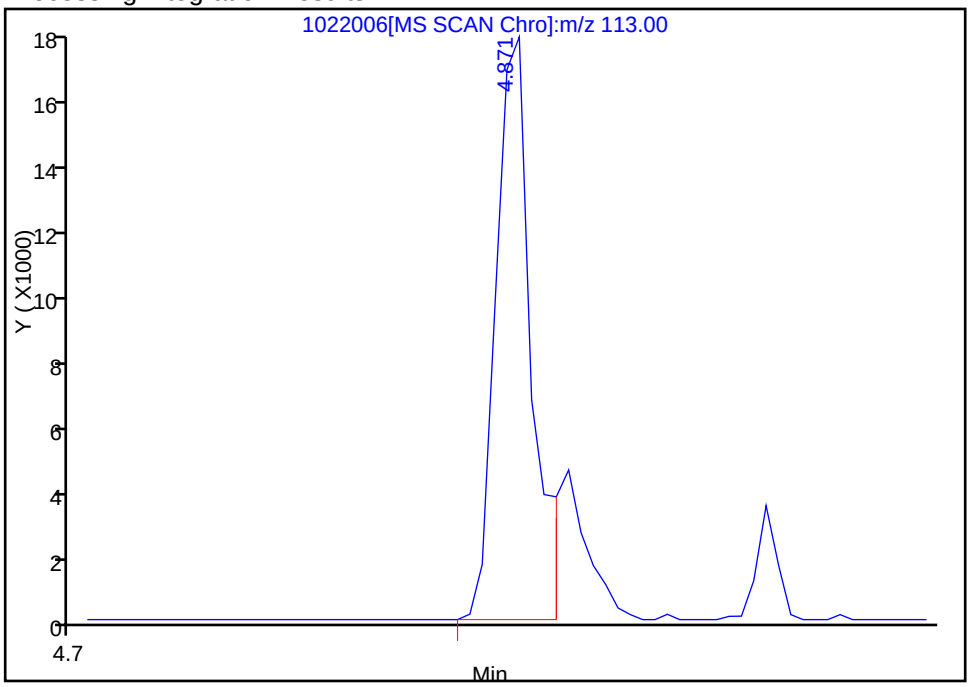
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022006.D		
Injection Date:	24-Oct-2013 14:59:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	6
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	

42 Caprolactam, Signal: 1, m/z: 113.0 Type: quant, RT: 4.87

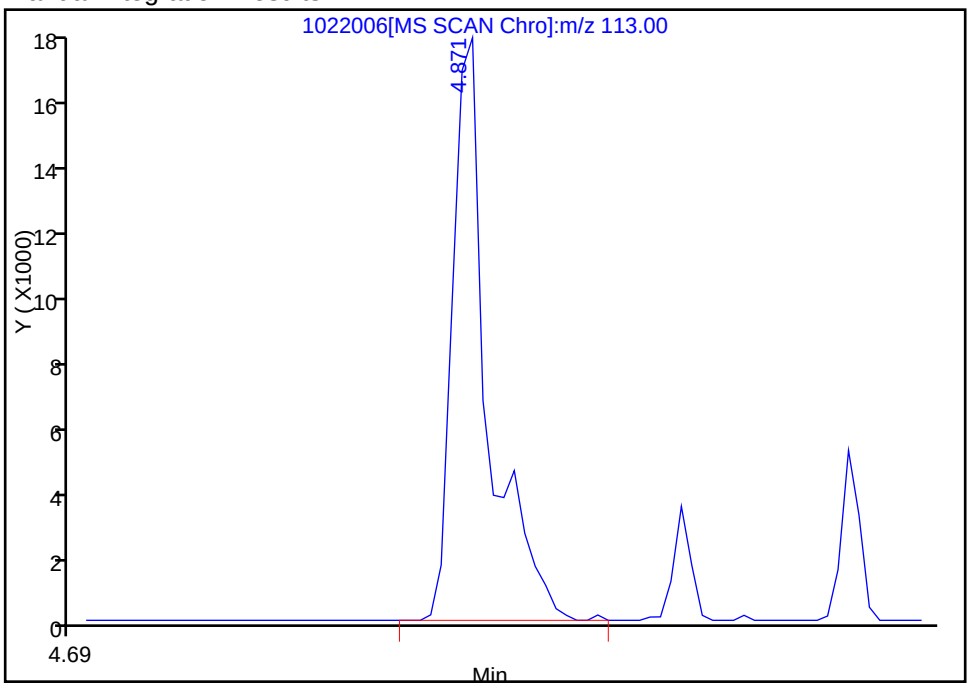
Processing Integration Results

RT: 4.87
Response: 16958
Amount: 43.022493



Manual Integration Results

RT: 4.87
Response: 19955
Amount: 48.270550



Reviewer: salomonb, 24-Oct-2013 16:23:35
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022007.D		
Lims ID:	std5	Client ID:	
Inject. Date:	24-Oct-2013 15:21:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	std5		
Misc. Info.:	490-0027300-007		
Operator:	HP83	Instrument ID:	HP83
Injection Vol:	1.0 uL	ALS Bottle#:	7
Lims Batch ID:	116774	Lims Sample ID:	7
Sublist:	chrom-8270HP83*sub16		
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\8270HP83.m		
Last Update:	25-Oct-2013 12:55:13	Calib Date:	24-Oct-2013 15:44:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D		
Limit Group:	MSS 8270C ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK029		
First Level Reviewer: salomonb		Date:	24-Oct-2013 16:23:17

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.808	3.808	0.0	95	30540	40.0	
19 N-Nitrosodimethylamine	74	1.819	1.819	0.0	78	48562	84.7	
20 Pyridine	52	1.852	1.852	0.0	93	38944	83.7	
$ 21 2-Fluorophenol	112	2.971	2.971	0.0	92	70454	78.2	
3 Benzaldehyde	105	3.526	3.526	0.0	93	30639	81.2	
23 Aniline	93	3.601	3.601	0.0	96	124324	81.4	
$ 22 Phenol-d5	99	3.611	3.606	0.005	0	99138	80.6	
24 Phenol	94	3.615	3.615	0.0	95	103500	79.1	
25 Bis(2-chloroethyl)ether	93	3.653	3.648	0.005	99	74758	77.9	
26 2-Chlorophenol	128	3.676	3.676	0.0	96	79032	76.9	
6 n-Decane	57	3.723	3.723	0.0	90	56304	76.1	
27 1,3-Dichlorobenzene	146	3.770	3.770	0.0	95	90529	78.2	
28 1,4-Dichlorobenzene	146	3.817	3.817	0.0	92	90799	76.1	
29 Benzyl alcohol	108	3.907	3.907	0.0	88	57475	81.4	
30 1,2-Dichlorobenzene	146	3.912	3.912	0.0	95	90444	77.5	
12 Indene	115	3.968	3.968	0.0	71	139770	78.3	
31 2-Methylphenol	108	3.991	3.987	0.004	94	78729	82.8	
32 2,2'-oxybis[1-chloropropane]	45	3.991	3.991	0.0	89	58908	81.9	
17 Acetophenone	105	4.067	4.062	0.005	95	122834	79.5	
33 N-Nitrosodi-n-propylamine	70	4.071	4.071	0.0	90	70867	80.3	
35 3 & 4 Methylphenol	108	4.086	4.086	0.0	0	80593	80.2	
36 Hexachloroethane	117	4.123	4.123	0.0	92	34227	75.7	
* 37 Naphthalene-d8	136	4.598	4.598	0.0	99	131567	40.0	
$ 49 Nitrobenzene-d5	82	4.156	4.151	0.005	85	98208	80.0	
50 Nitrobenzene	77	4.165	4.165	0.0	80	96863	76.6	
51 Isophorone	82	4.321	4.316	0.005	97	169449	78.4	
52 2-Nitrophenol	139	4.363	4.363	0.0	97	49238	79.2	
53 2,4-Dimethylphenol	107	4.410	4.405	0.005	97	94438	77.8	
54 Bis(2-chloroethoxy)methane	93	4.462	4.462	0.0	98	97385	75.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
55 Benzoic acid	105	4.495	4.485	0.010	83	86311	87.2	
56 2,4-Dichlorophenol	162	4.523	4.518	0.005	93	80174	77.7	
57 1,2,4-Trichlorobenzene	180	4.565	4.565	0.0	89	86364	78.4	
58 Naphthalene	128	4.612	4.612	0.0	98	250267	77.4	
59 4-Chloroaniline	127	4.650	4.650	0.0	81	113618	81.7	
60 Hexachlorobutadiene	225	4.697	4.697	0.0	92	51838	75.1	
42 Caprolactam	113	4.880	4.871	0.009	87	33365	79.1	M
61 4-Chloro-3-methylphenol	107	4.965	4.965	0.0	92	90226	78.2	
62 2-Methylnaphthalene	142	5.045	5.040	0.005	85	190755	78.5	
64 1-Methylnaphthalene	142	5.106	5.106	0.0	79	173829	76.9	
47 1,2,4,5-Tetrachlorobenzene	216	5.153	5.153	0.0	94	97882	76.6	
170 1,1'-Biphenyl	154	5.350	5.350	0.0	96	236641	77.5	
* 69 Acenaphthene-d10	164	5.736	5.736	0.0	91	91776	40.0	
80 Hexachlorocyclopentadiene	237	5.148	5.148	0.0	96	55990	82.4	
81 2,4,6-Trichlorophenol	196	5.233	5.233	0.0	91	64071	79.2	
82 2,4,5-Trichlorophenol	196	5.261	5.261	0.0	95	70153	78.6	
$ 83 2-Fluorobiphenyl (Surr)	172	5.285	5.285	0.0	99	222091	76.2	
84 2-Chloronaphthalene	162	5.360	5.360	0.0	97	183132	76.6	
85 2-Nitroaniline	65	5.430	5.430	0.0	82	59553	82.8	
86 Dimethyl phthalate	163	5.567	5.562	0.005	98	229896	78.1	
76 1,3-Dinitrobenzene	168	5.581	5.576	0.005	86	41922	79.1	
87 2,6-Dinitrotoluene	165	5.600	5.600	0.0	88	55450	81.8	
88 Acenaphthylene	152	5.637	5.637	0.0	91	293551	77.8	
89 3-Nitroaniline	138	5.712	5.712	0.0	95	58542	82.2	
90 Acenaphthene	153	5.760	5.760	0.0	94	196434	76.7	
91 2,4-Dinitrophenol	184	5.792	5.788	0.004	84	86615	164.4	
92 4-Nitrophenol	65	5.858	5.854	0.004	95	101485	160.0	
93 2,4-Dinitrotoluene	165	5.882	5.877	0.005	62	79300	81.5	
94 Dibenzofuran	168	5.882	5.882	0.0	82	281891	76.8	
77 2,3,4,6-Tetrachlorophenol	232	5.976	5.976	0.0	69	65301	78.3	
95 Diethyl phthalate	149	6.065	6.065	0.0	97	225381	76.7	
197 Hexadecane	57	6.089	6.089	0.0	0	87979	77.4	
96 Fluorene	166	6.126	6.126	0.0	83	239972	78.1	
97 4-Chlorophenyl phenyl ether	204	6.136	6.136	0.0	90	120425	75.9	
98 4-Nitroaniline	138	6.154	6.150	0.004	78	60422	83.2	
99 Azobenzene	77	6.253	6.249	0.004	96	228447	78.7	
* 102 Phenanthrene-d10	188	6.827	6.827	0.0	96	185480	40.0	
125 4,6-Dinitro-2-methylphenol	198	6.178	6.178	0.0	89	113560	154.2	
126 N-Nitrosodiphenylamine	169	6.225	6.220	0.005	60	145333	76.3	
$ 127 2,4,6-Tribromophenol	330	6.305	6.305	0.0	90	35002	82.6	
128 4-Bromophenyl phenyl ether	248	6.498	6.498	0.0	57	74711	75.5	
129 Hexachlorobenzene	284	6.535	6.535	0.0	92	76526	76.3	
168 Atrazine	200	6.639	6.639	0.0	92	76638	78.1	
130 Pentachlorophenol	266	6.691	6.691	0.0	89	114243	156.1	
115 n-Octadecane	57	6.789	6.789	0.0	92	95901	78.0	
131 Phenanthrene	178	6.846	6.841	0.005	97	355819	74.9	
132 Anthracene	178	6.883	6.883	0.0	97	370829	76.9	
133 Carbazole	167	7.015	7.015	0.0	83	352170	76.2	
134 Di-n-butyl phthalate	149	7.321	7.321	0.0	100	398606	78.5	
135 Fluoranthene	202	7.777	7.772	0.005	98	440996	77.1	
* 136 Chrysene-d12	240	8.929	8.924	0.005	80	253585	40.0	
146 Benzidine	184	7.899	7.894	0.005	98	116540	77.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
152 Pyrene	202	7.951	7.951	0.0	97	453920	76.5	
$ 147 Terphenyl-d14	244	8.101	8.101	0.0	98	354099	75.0	
149 Butyl benzyl phthalate	149	8.515	8.515	0.0	98	192996	80.3	
151 3,3'-Dichlorobenzidine	252	8.915	8.910	0.005	67	173349	79.1	
153 Benzo[a]anthracene	228	8.919	8.915	0.004	99	484282	75.3	
154 Chrysene	228	8.948	8.943	0.005	93	429731	71.3	
155 Bis(2-ethylhexyl) phthalate	149	8.999	8.995	0.004	95	274434	81.6	
* 156 Perylene-d12	264	9.992	9.992	0.0	86	251505	40.0	
158 Di-n-octyl phthalate	149	9.498	9.493	0.005	99	474258	84.1	
159 Benzo[b]fluoranthene	252	9.733	9.728	0.005	91	523092	78.7	
160 Benzo[k]fluoranthene	252	9.752	9.747	0.005	99	540548	75.3	
161 Benzo[a]pyrene	252	9.959	9.954	0.005	76	495232	79.4	
162 Indeno[1,2,3-cd]pyrene	276	10.749	10.744	0.005	96	581306	78.8	
163 Dibenz(a,h)anthracene	278	10.767	10.763	0.004	69	485876	78.6	
164 Benzo[g,h,i]perylene	276	10.960	10.955	0.005	90	489529	77.0	
S 169 Methyl Phenols,Total	1				0		163.0	

QC Flag Legend

Review Flags
M - Manually Integrated

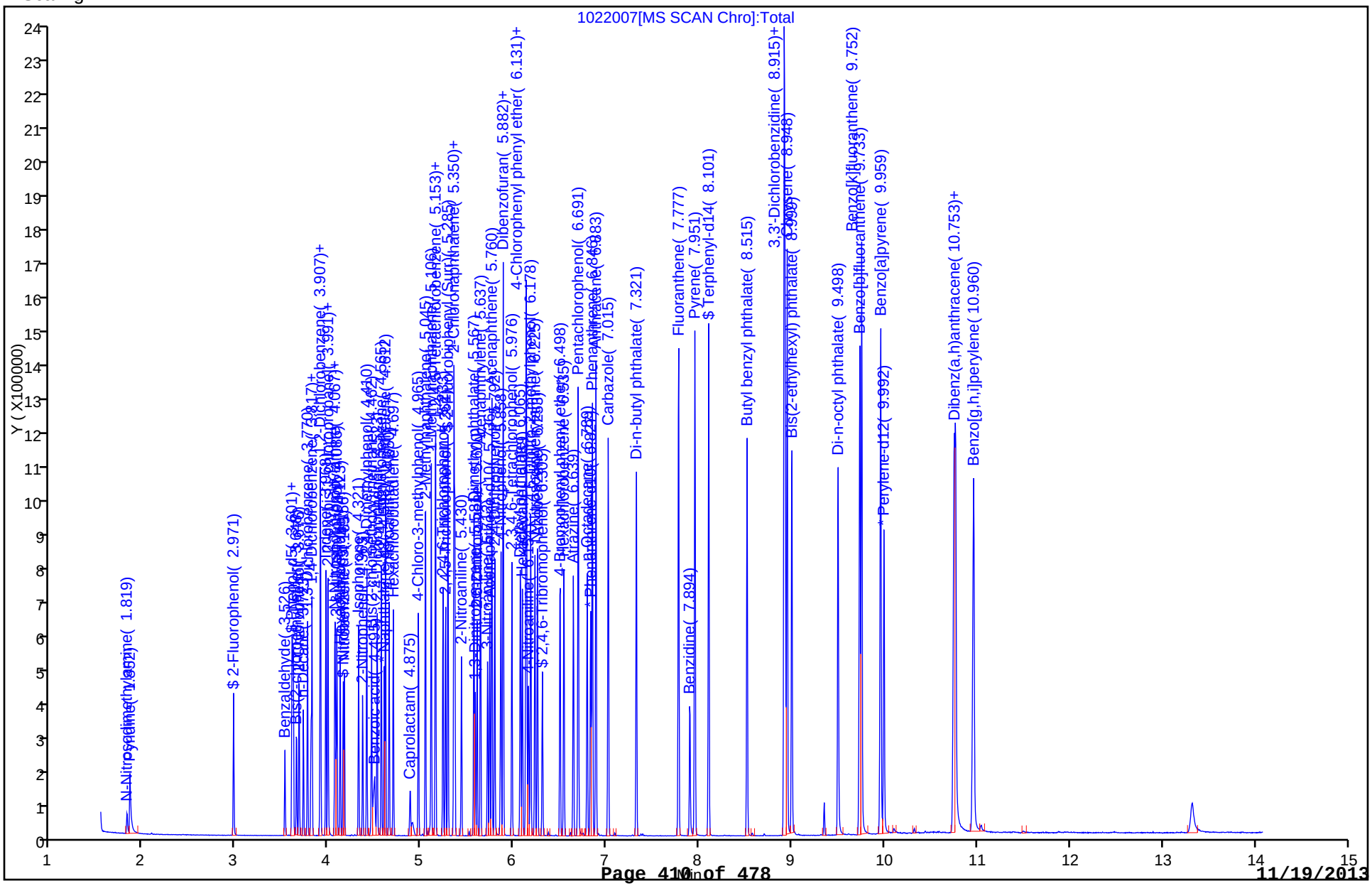
Report Date: 25-Oct-2013 12:55:13 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022007.D

Injection Date:	24-Oct-2013 15:21:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	7
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling:



Manual Integration/User Assign Peak Report

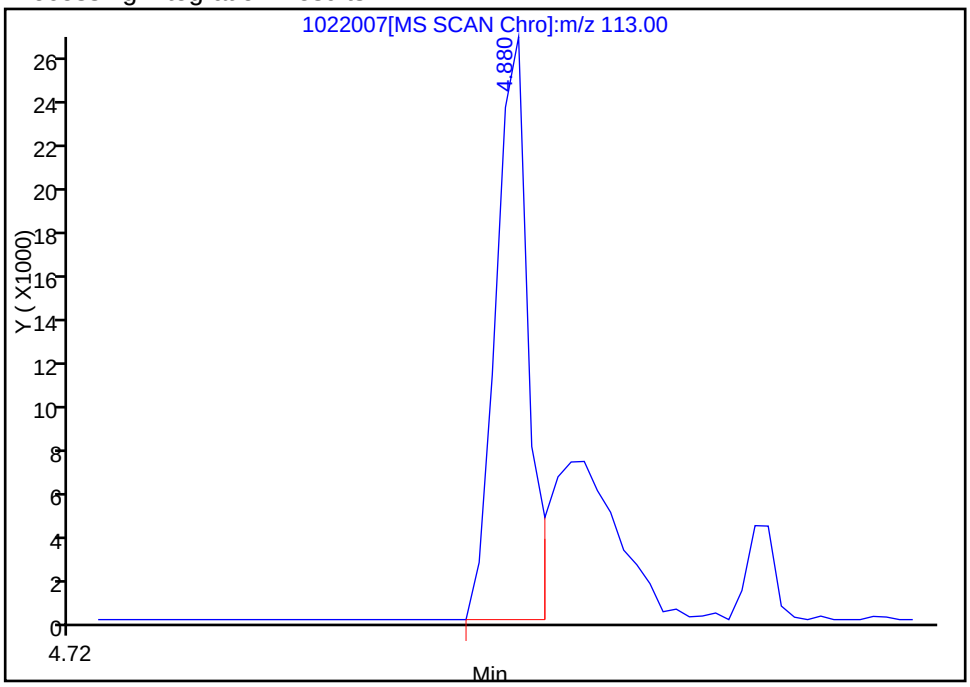
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022007.D		
Injection Date:	24-Oct-2013 15:21:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	7
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	

42 Caprolactam, Signal: 1, m/z: 113.0 Type: quant, RT: 4.87

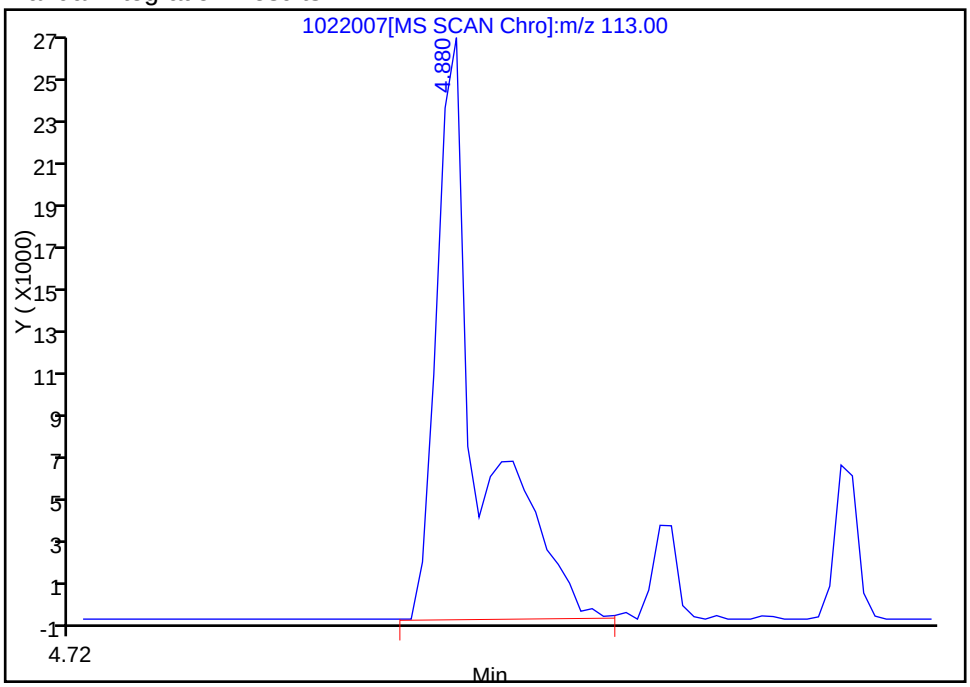
Processing Integration Results

RT: 4.88
Response: 21846
Amount: 59.889308



Manual Integration Results

RT: 4.88
Response: 33365
Amount: 79.132161



Reviewer: salomonb, 24-Oct-2013 16:24:14
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D		
Lims ID:	std6	Client ID:	
Inject. Date:	24-Oct-2013 15:44:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	std6		
Misc. Info.:	490-0027300-008		
Operator:	HP83	Instrument ID:	HP83
Injection Vol:	1.0 uL	ALS Bottle#:	8
Lims Batch ID:	116774	Lims Sample ID:	8
Sublist:	chrom-8270HP83*sub16		
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\8270HP83.m		
Last Update:	25-Oct-2013 12:55:11	Calib Date:	24-Oct-2013 15:44:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D		
Limit Group:	MSS 8270C ICAL		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK029		
First Level Reviewer: salomonb		Date:	24-Oct-2013 16:22:59

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.808	3.808	0.0	95	29080	40.0	
19 N-Nitrosodimethylamine	74	1.824	1.819	0.005	89	59312	108.6	
20 Pyridine	52	1.852	1.852	0.0	90	46907	105.8	
$ 21 2-Fluorophenol	112	2.971	2.971	0.0	92	86210	100.6	
3 Benzaldehyde	105	3.526	3.526	0.0	90	36390	101.3	
23 Aniline	93	3.601	3.601	0.0	96	150287	103.3	
$ 22 Phenol-d5	99	3.611	3.606	0.005	0	122592	104.6	
24 Phenol	94	3.620	3.615	0.005	95	124053	99.6	
25 Bis(2-chloroethyl)ether	93	3.653	3.648	0.005	100	90181	98.7	
26 2-Chlorophenol	128	3.676	3.676	0.0	95	97230	99.4	
6 n-Decane	57	3.723	3.723	0.0	91	69356	98.5	
27 1,3-Dichlorobenzene	146	3.770	3.770	0.0	96	110062	99.9	
28 1,4-Dichlorobenzene	146	3.817	3.817	0.0	91	111239	97.9	
29 Benzyl alcohol	108	3.907	3.907	0.0	87	69015	102.7	
30 1,2-Dichlorobenzene	146	3.912	3.912	0.0	95	111429	100.3	
12 Indene	115	3.968	3.968	0.0	76	167723	98.6	
31 2-Methylphenol	108	3.991	3.987	0.004	95	94903	104.8	
32 2,2'-oxybis[1-chloropropane]	45	3.991	3.991	0.0	88	71780	104.8	
17 Acetophenone	105	4.067	4.062	0.005	94	147765	100.4	
33 N-Nitrosodi-n-propylamine	70	4.076	4.071	0.005	89	86082	102.5	
35 3 & 4 Methylphenol	108	4.086	4.086	0.0	0	99884	104.4	
36 Hexachloroethane	117	4.123	4.123	0.0	92	41081	95.5	
* 37 Naphthalene-d8	136	4.598	4.598	0.0	99	128730	40.0	
$ 49 Nitrobenzene-d5	82	4.156	4.151	0.005	86	116478	97.0	
50 Nitrobenzene	77	4.165	4.165	0.0	81	119632	96.6	
51 Isophorone	82	4.321	4.316	0.005	96	206611	97.8	
52 2-Nitrophenol	139	4.368	4.363	0.005	96	61061	100.3	
53 2,4-Dimethylphenol	107	4.410	4.405	0.005	96	115578	97.3	
54 Bis(2-chloroethoxy)methane	93	4.462	4.462	0.0	98	119578	95.2	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
55 Benzoic acid	105	4.499	4.485	0.014	82	105846	109.3	M
56 2,4-Dichlorophenol	162	4.523	4.518	0.005	93	98367	97.5	
57 1,2,4-Trichlorobenzene	180	4.565	4.565	0.0	94	104460	96.9	
58 Naphthalene	128	4.612	4.612	0.0	98	300418	95.0	
59 4-Chloroaniline	127	4.650	4.650	0.0	81	137340	100.9	
60 Hexachlorobutadiene	225	4.697	4.697	0.0	92	64171	95.0	
42 Caprolactam	113	4.885	4.871	0.014	86	41493	100.4	M
61 4-Chloro-3-methylphenol	107	4.970	4.965	0.005	92	112343	99.6	
62 2-Methylnaphthalene	142	5.045	5.040	0.005	86	228635	96.2	
64 1-Methylnaphthalene	142	5.106	5.106	0.0	80	215713	97.5	
47 1,2,4,5-Tetrachlorobenzene	216	5.153	5.153	0.0	95	119793	95.9	
170 1,1'-Biphenyl	154	5.350	5.350	0.0	96	290001	97.1	
* 69 Acenaphthene-d10	164	5.736	5.736	0.0	91	89039	40.0	
80 Hexachlorocyclopentadiene	237	5.148	5.148	0.0	95	71685	108.4	
81 2,4,6-Trichlorophenol	196	5.233	5.233	0.0	86	79296	101.0	
82 2,4,5-Trichlorophenol	196	5.261	5.261	0.0	94	84486	97.6	
$ 83 2-Fluorobiphenyl (Surr)	172	5.285	5.285	0.0	99	269565	95.3	
84 2-Chloronaphthalene	162	5.360	5.360	0.0	97	226148	97.5	
85 2-Nitroaniline	65	5.430	5.430	0.0	84	73230	105.0	
86 Dimethyl phthalate	163	5.567	5.562	0.005	98	279789	98.0	
76 1,3-Dinitrobenzene	168	5.581	5.576	0.005	84	51932	100.8	
87 2,6-Dinitrotoluene	165	5.604	5.600	0.004	88	67251	102.2	
88 Acenaphthylene	152	5.637	5.637	0.0	91	353032	96.4	
89 3-Nitroaniline	138	5.717	5.712	0.005	96	72787	105.4	
90 Acenaphthene	153	5.760	5.760	0.0	95	236818	95.3	
91 2,4-Dinitrophenol	184	5.792	5.788	0.004	83	107958	210.5	
92 4-Nitrophenol	65	5.858	5.854	0.004	96	124287	201.9	
93 2,4-Dinitrotoluene	165	5.882	5.877	0.005	65	97664	103.4	
94 Dibenzofuran	168	5.882	5.882	0.0	84	333483	93.7	
77 2,3,4,6-Tetrachlorophenol	232	5.976	5.976	0.0	70	80344	99.3	
95 Diethyl phthalate	149	6.070	6.065	0.005	98	272478	95.6	
197 Hexadecane	57	6.089	6.089	0.0	0	106808	96.8	
96 Fluorene	166	6.131	6.126	0.005	82	292017	97.9	
97 4-Chlorophenyl phenyl ether	204	6.136	6.136	0.0	90	147963	96.1	
98 4-Nitroaniline	138	6.159	6.150	0.009	73	74187	105.4	
99 Azobenzene	77	6.253	6.249	0.004	96	275957	97.9	
* 102 Phenanthrene-d10	188	6.827	6.827	0.0	93	174369	40.0	
125 4,6-Dinitro-2-methylphenol	198	6.183	6.178	0.005	90	141721	204.1	
126 N-Nitrosodiphenylamine	169	6.225	6.220	0.005	61	176132	98.4	
$ 127 2,4,6-Tribromophenol	330	6.310	6.305	0.005	91	42546	106.8	
128 4-Bromophenyl phenyl ether	248	6.498	6.498	0.0	60	90611	97.4	
129 Hexachlorobenzene	284	6.540	6.535	0.005	95	93190	98.8	
168 Atrazine	200	6.644	6.639	0.005	94	92748	100.5	
130 Pentachlorophenol	266	6.695	6.691	0.004	90	139680	203.0	
115 n-Octadecane	57	6.789	6.789	0.0	92	117691	101.9	
131 Phenanthrene	178	6.846	6.841	0.005	97	431221	96.5	
132 Anthracene	178	6.883	6.883	0.0	98	448695	99.0	
133 Carbazole	167	7.020	7.015	0.005	83	426109	98.1	
134 Di-n-butyl phthalate	149	7.321	7.321	0.0	100	489450	102.5	
135 Fluoranthene	202	7.777	7.772	0.005	98	534141	99.3	
* 136 Chrysene-d12	240	8.929	8.924	0.005	79	245170	40.0	
146 Benzidine	184	7.899	7.894	0.005	98	145735	101.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
152 Pyrene	202	7.955	7.951	0.004	95	544630	95.0	
$ 147 Terphenyl-d14	244	8.101	8.101	0.0	99	429278	94.0	
149 Butyl benzyl phthalate	149	8.515	8.515	0.0	97	240180	103.4	
151 3,3'-Dichlorobenzidine	252	8.915	8.910	0.005	74	215998	101.9	
153 Benzo[a]anthracene	228	8.919	8.915	0.004	99	589626	94.8	
154 Chrysene	228	8.948	8.943	0.005	94	539192	92.6	
155 Bis(2-ethylhexyl) phthalate	149	8.999	8.995	0.004	95	335020	103.0	
* 156 Perylene-d12	264	9.992	9.992	0.0	84	248068	40.0	
158 Di-n-octyl phthalate	149	9.498	9.493	0.005	99	587633	105.6	
159 Benzo[b]fluoranthene	252	9.733	9.728	0.005	92	626189	95.5	
160 Benzo[k]fluoranthene	252	9.756	9.747	0.009	95	676790	95.6	
161 Benzo[a]pyrene	252	9.959	9.954	0.005	75	608083	98.8	
162 Indeno[1,2,3-cd]pyrene	276	10.753	10.744	0.009	90	718749	98.7	
163 Dibenz(a,h)anthracene	278	10.767	10.763	0.004	77	595490	97.7	
164 Benzo[g,h,i]perylene	276	10.965	10.955	0.010	94	604467	96.5	
S 169 Methyl Phenols,Total	1				0		209.2	

QC Flag Legend

Review Flags
M - Manually Integrated

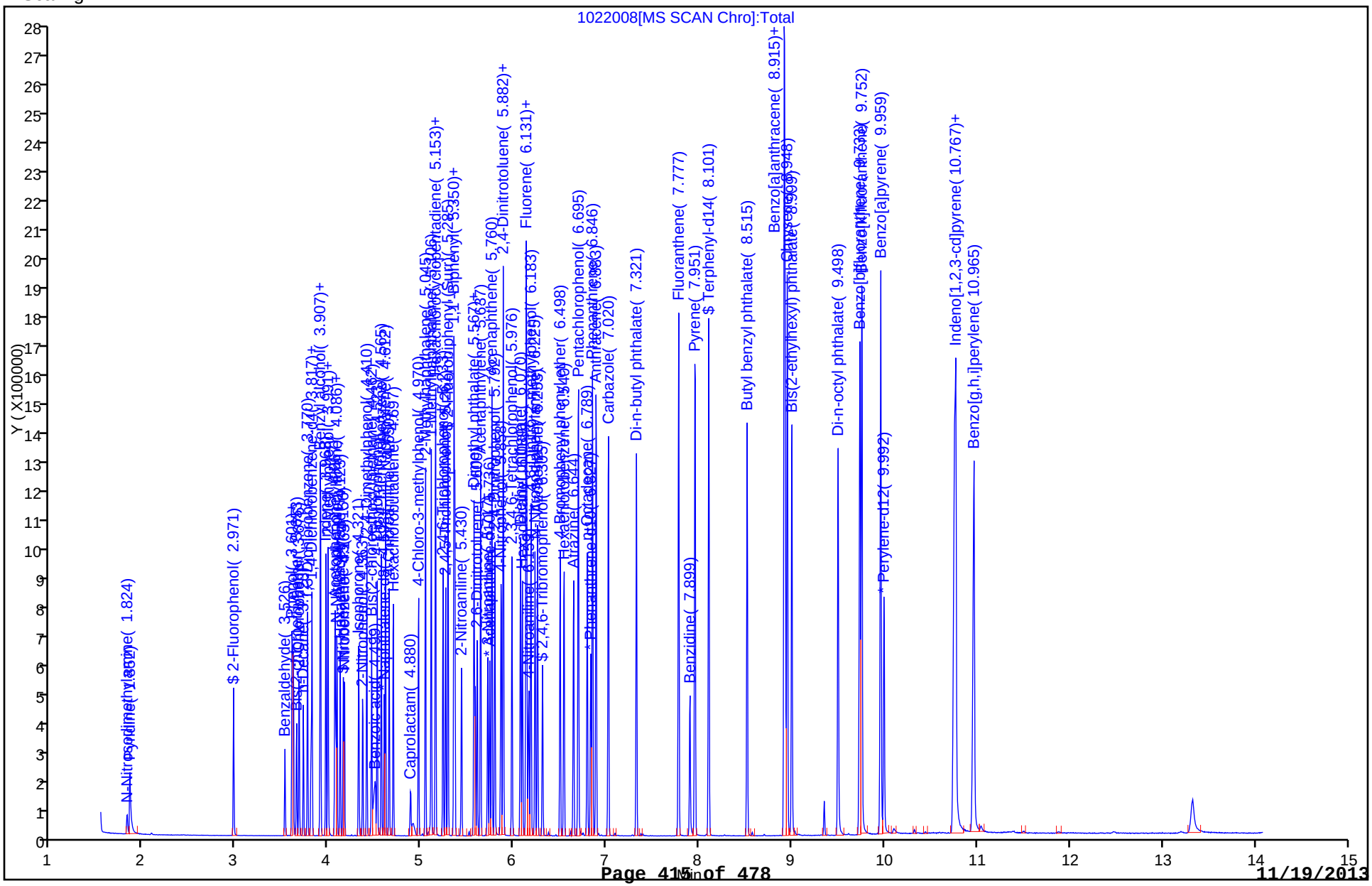
Report Date: 25-Oct-2013 12:55:11 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D

Injection Date:	24-Oct-2013 15:44:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	8
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling:



Manual Integration/User Assign Peak Report

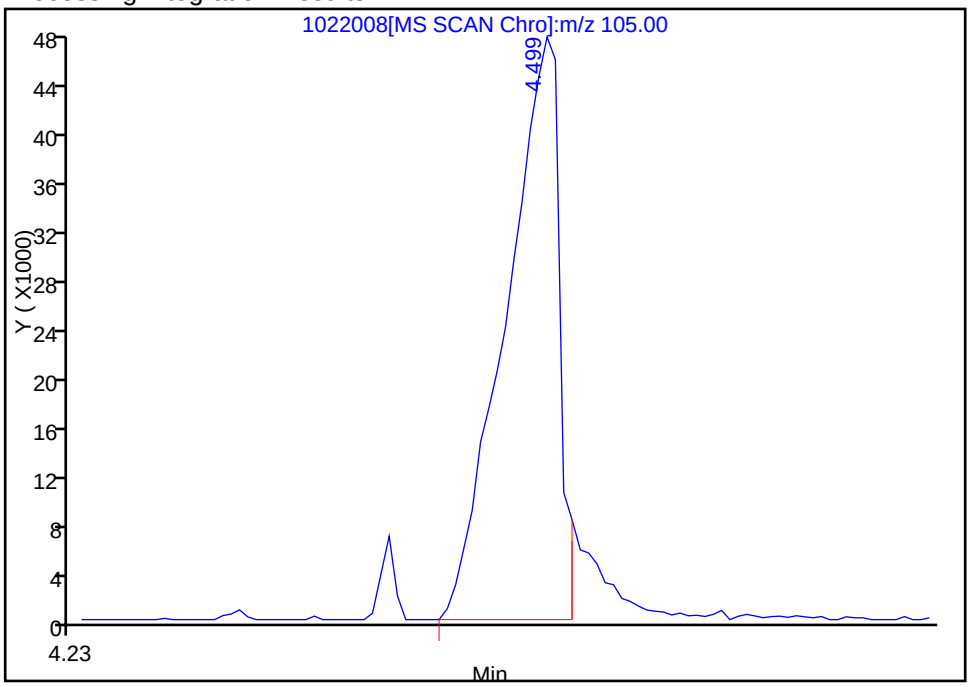
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D		
Injection Date:	24-Oct-2013 15:44:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	8
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	

55 Benzoic acid, Signal: 1, m/z: 105.0 Type: quant, RT: 4.49

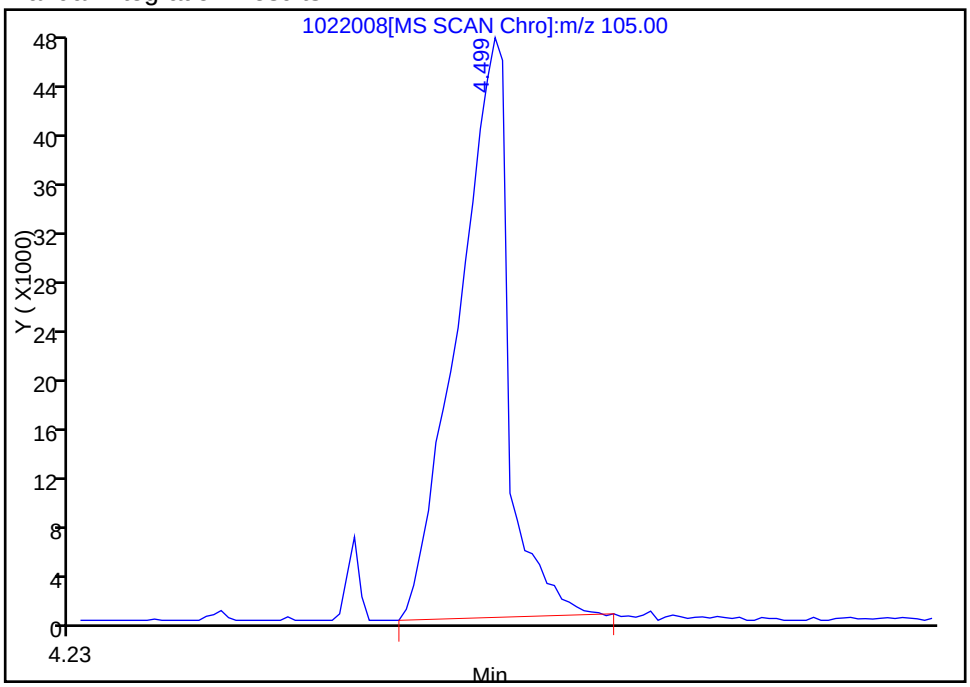
Processing Integration Results

RT: 4.50
Response: 99970
Amount: 104.2896



Manual Integration Results

RT: 4.50
Response: 105846
Amount: 109.3028



Reviewer: salomonb, 24-Oct-2013 16:26:37
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

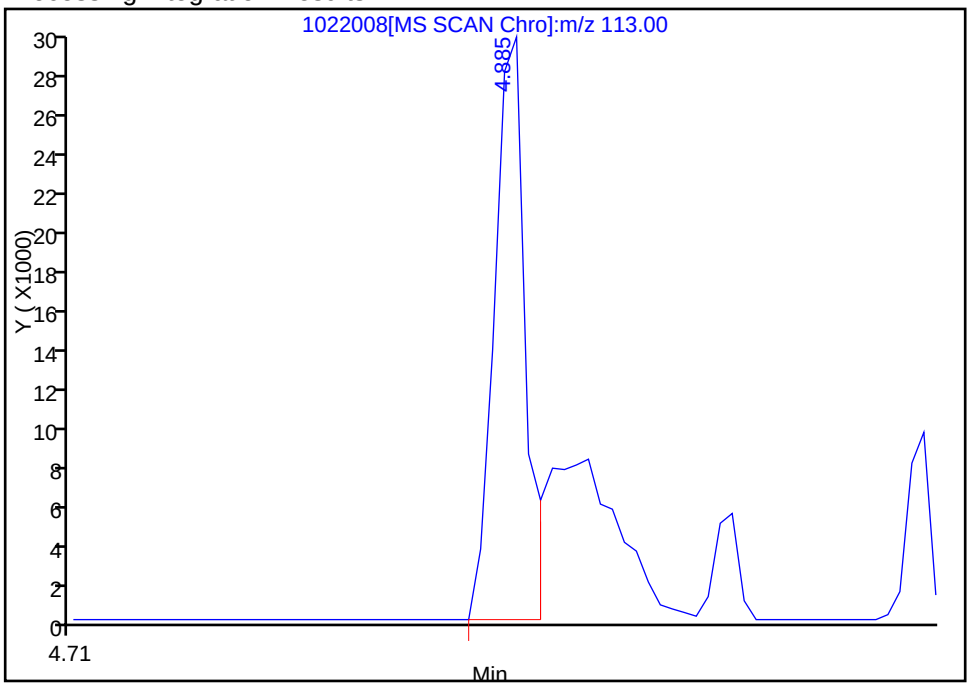
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D		
Injection Date:	24-Oct-2013 15:44:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	8
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	

42 Caprolactam, Signal: 1, m/z: 113.0 Type: quant, RT: 4.87

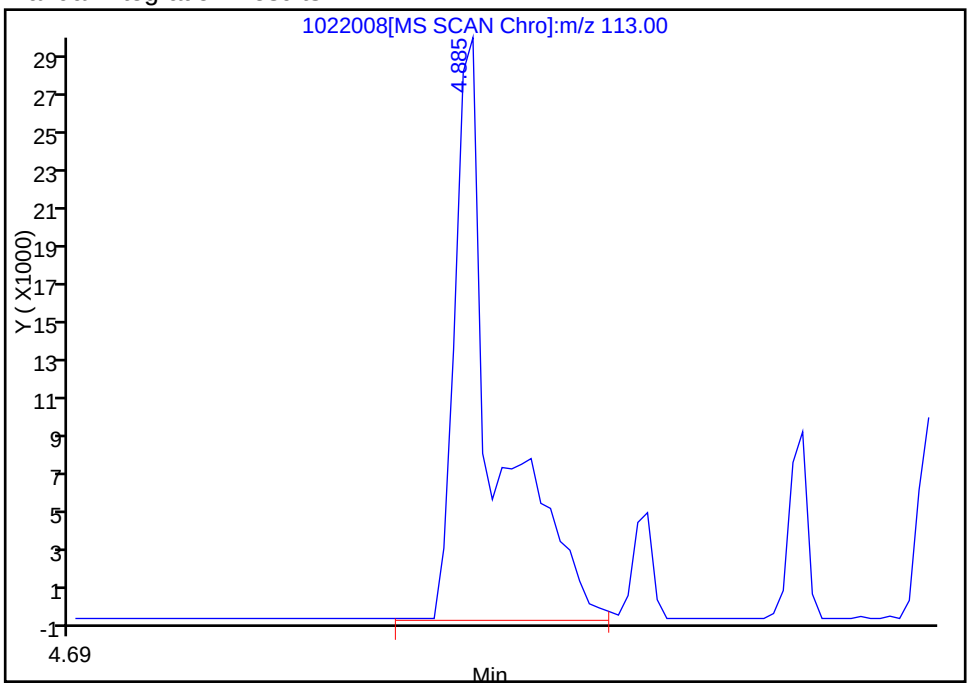
Processing Integration Results

RT: 4.88
Response: 25506
Amount: NaN



Manual Integration Results

RT: 4.88
Response: 41493
Amount: 100.4057



Reviewer: salomonb, 24-Oct-2013 16:24:51
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Lab Sample ID (1): CCVIS 490-121257/3 Instrument ID (1): HP83

GC Column (1): ZB-5MSi ID: 0.25(mm) Date Analyzed (1): 11/12/2013 17:37

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	9.44	32.06

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Lab Sample ID: ICV 490-116774/9 Calibration Date: 10/24/2013 16:06

Instrument ID: HP83 Calib Start Date: 09/14/2013 18:48

GC Column: ZB-5MSi ID: 0.25(mm) Calib End Date: 09/14/2013 20:40

Lab File ID: 1022009.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5271				50.0		

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022009.D
Lims ID: icv Client ID:
Inject. Date: 24-Oct-2013 16:06:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: icv
Misc. Info.: 490-0027300-009
Operator: HP83 Instrument ID: HP83
Injection Vol: 1.0 uL ALS Bottle#: 9
Lims Batch ID: 116774 Lims Sample ID: 9
Sublist:
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP83\20131024-27300.b\8270HP83.m
Last Update: 25-Oct-2013 12:55:10 Calib Date: 24-Oct-2013 15:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D
Limit Group: MSS 8270C ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK029

First Level Reviewer: salomonb Date: 24-Oct-2013 16:28:07

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.808	3.808	0.0	95	26028	40.0	
19 N-Nitrosodimethylamine	74	1.829	1.819	0.010	79	25904	53.0	
20 Pyridine	52	1.871	1.852	0.019	91	18383	46.3	
3 Benzaldehyde	105	3.526	3.526	0.0	90	10180	31.7	
23 Aniline	93	3.606	3.601	0.005	94	34164	26.2	
24 Phenol	94	3.616	3.615	0.001	98	58992	52.9	
25 Bis(2-chloroethyl)ether	93	3.648	3.648	0.0	100	44064	53.9	
26 2-Chlorophenol	128	3.681	3.676	0.005	94	45818	52.3	
6 n-Decane	57	3.724	3.723	0.001	91	30698	48.7	
27 1,3-Dichlorobenzene	146	3.771	3.770	0.001	95	48084	48.8	
28 1,4-Dichlorobenzene	146	3.818	3.817	0.001	90	50783	49.9	
29 Benzyl alcohol	108	3.907	3.907	0.0	88	32070	53.3	
30 1,2-Dichlorobenzene	146	3.912	3.912	0.0	96	48817	49.1	
12 Indene	115	3.968	3.968	0.0	75	74472	48.9	
31 2-Methylphenol	108	3.987	3.987	0.0	95	44572	55.0	
32 2,2'-oxybis[1-chloropropane]	45	3.987	3.991	-0.004	55	26597	43.4	
17 Acetophenone	105	4.062	4.062	0.0	94	62471	47.4	
33 N-Nitrosodi-n-propylamine	70	4.072	4.071	0.001	91	38940	51.8	
35 3 & 4 Methylphenol	108	4.086	4.086	0.001	0	47789	55.8	
36 Hexachloroethane	117	4.123	4.123	0.0	92	19538	50.7	
* 37 Naphthalene-d8	136	4.598	4.598	0.0	99	111727	40.0	
50 Nitrobenzene	77	4.166	4.165	0.001	82	53458	49.8	
51 Isophorone	82	4.316	4.316	0.0	97	92009	50.2	
52 2-Nitrophenol	139	4.363	4.363	0.0	98	26724	50.6	
53 2,4-Dimethylphenol	107	4.410	4.405	0.005	96	50847	49.3	
54 Bis(2-chloroethoxy)methane	93	4.457	4.462	-0.005	99	50570	46.4	
55 Benzoic acid	105	4.504	4.485	0.019	84	98598	117.3	E
56 2,4-Dichlorophenol	162	4.523	4.518	0.005	92	47062	53.7	
57 1,2,4-Trichlorobenzene	180	4.565	4.565	0.0	90	48203	51.5	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
58 Naphthalene	128	4.608	4.612	-0.004	98	137406	50.1	
59 4-Chloroaniline	127	4.650	4.650	0.0	82	41348	35.0	
60 Hexachlorobutadiene	225	4.692	4.697	-0.005	95	28849	49.2	
42 Caprolactam	113	4.876	4.871	0.005	85	18649	52.3	
61 4-Chloro-3-methylphenol	107	4.965	4.965	0.0	89	51027	52.1	
62 2-Methylnaphthalene	142	5.040	5.040	0.0	85	102494	49.7	
64 1-Methylnaphthalene	142	5.106	5.106	0.0	79	95297	49.6	
47 1,2,4,5-Tetrachlorobenzene	216	5.153	5.153	0.0	94	55742	51.4	
170 1,1'-Biphenyl	154	5.346	5.350	-0.004	96	132579	51.2	
* 69 Acenaphthene-d10	164	5.736	5.736	0.0	87	76728	40.0	
80 Hexachlorocyclopentadiene	237	5.148	5.148	0.0	95	30759	54.5	
81 2,4,6-Trichlorophenol	196	5.233	5.233	0.0	87	37173	55.0	
82 2,4,5-Trichlorophenol	196	5.261	5.261	0.0	95	40455	54.2	
84 2-Chloronaphthalene	162	5.355	5.360	-0.005	98	102054	51.1	
85 2-Nitroaniline	65	5.431	5.430	0.001	82	33621	55.9	
86 Dimethyl phthalate	163	5.562	5.562	0.0	97	128031	52.0	
76 1,3-Dinitrobenzene	168	5.576	5.576	0.0	79	22118	50.2	
87 2,6-Dinitrotoluene	165	5.600	5.600	0.0	88	31080	54.8	
88 Acenaphthylene	152	5.637	5.637	0.0	90	165212	52.4	
89 3-Nitroaniline	138	5.713	5.712	0.001	98	29299	49.2	
90 Acenaphthene	153	5.760	5.760	0.0	94	111229	51.9	
91 2,4-Dinitrophenol	184	5.788	5.788	0.0	83	47074	107.7	
92 4-Nitrophenol	65	5.854	5.854	0.0	96	56963	107.4	
93 2,4-Dinitrotoluene	165	5.877	5.877	0.0	86	44761	55.0	
94 Dibenzofuran	168	5.882	5.882	0.0	84	158613	51.7	
77 2,3,4,6-Tetrachlorophenol	232	5.976	5.976	0.0	70	39031	56.0	
95 Diethyl phthalate	149	6.065	6.065	0.0	96	127166	51.8	
197 Hexadecane	57	6.089	6.089	0.0	0	49373	51.9	
96 Fluorene	166	6.127	6.126	0.001	87	136468	53.1	
97 4-Chlorophenyl phenyl ether	204	6.136	6.136	0.0	92	69128	52.1	
98 4-Nitroaniline	138	6.150	6.150	0.0	74	32179	53.0	
99 Azobenzene	77	6.249	6.249	0.0	97	127257	52.4	
* 102 Phenanthrene-d10	188	6.827	6.827	0.0	96	157620	40.0	
125 4,6-Dinitro-2-methylphenol	198	6.178	6.178	0.0	88	63310	101.7	
126 N-Nitrosodiphenylamine	169	6.221	6.220	0.001	60	101072	62.5	
128 4-Bromophenyl phenyl ether	248	6.493	6.498	-0.005	63	42075	50.1	
129 Hexachlorobenzene	284	6.536	6.535	0.001	92	42456	49.8	
168 Atrazine	200	6.639	6.639	0.0	91	31966	38.3	
130 Pentachlorophenol	266	6.691	6.691	0.0	92	67433	108.4	
115 n-Octadecane	57	6.790	6.789	0.001	93	54724	52.4	
131 Phenanthrene	178	6.841	6.841	0.0	97	199790	49.5	
132 Anthracene	178	6.884	6.883	0.001	97	202639	49.5	
133 Carbazole	167	7.015	7.015	0.0	82	193454	49.3	
134 Di-n-butyl phthalate	149	7.321	7.321	0.0	100	224536	52.0	
135 Fluoranthene	202	7.772	7.772	0.0	97	245750	50.5	
* 136 Chrysene-d12	240	8.924	8.924	0.0	85	212483	40.0	
146 Benzidine	184	7.899	7.894	0.005	79	6537	3.51	
152 Pyrene	202	7.951	7.951	0.0	96	252610	50.8	
149 Butyl benzyl phthalate	149	8.515	8.515	0.0	96	108303	53.8	
151 3,3'-Dichlorobenzidine	252	8.910	8.910	0.0	67	90580	49.3	
153 Benzo[a]anthracene	228	8.915	8.915	0.0	99	267656	49.7	
154 Chrysene	228	8.943	8.943	0.0	92	264688	52.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
155 Bis(2-ethylhexyl) phthalate	149	8.995	8.995	0.0	96	150687	53.5	
* 156 Perylene-d12	264	9.992	9.992	0.0	87	223821	40.0	
158 Di-n-octyl phthalate	149	9.493	9.493	0.0	100	267778	53.3	
159 Benzo[b]fluoranthene	252	9.728	9.728	0.0	93	285464	48.3	
160 Benzo[k]fluoranthene	252	9.747	9.747	0.0	98	318141	49.8	
161 Benzo[a]pyrene	252	9.954	9.954	0.0	72	264885	47.7	
162 Indeno[1,2,3-cd]pyrene	276	10.744	10.744	0.0	99	325917	49.6	
163 Dibenz(a,h)anthracene	278	10.763	10.763	0.0	63	282988	51.5	
164 Benzo[g,h,i]perylene	276	10.956	10.955	0.001	90	290135	51.3	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

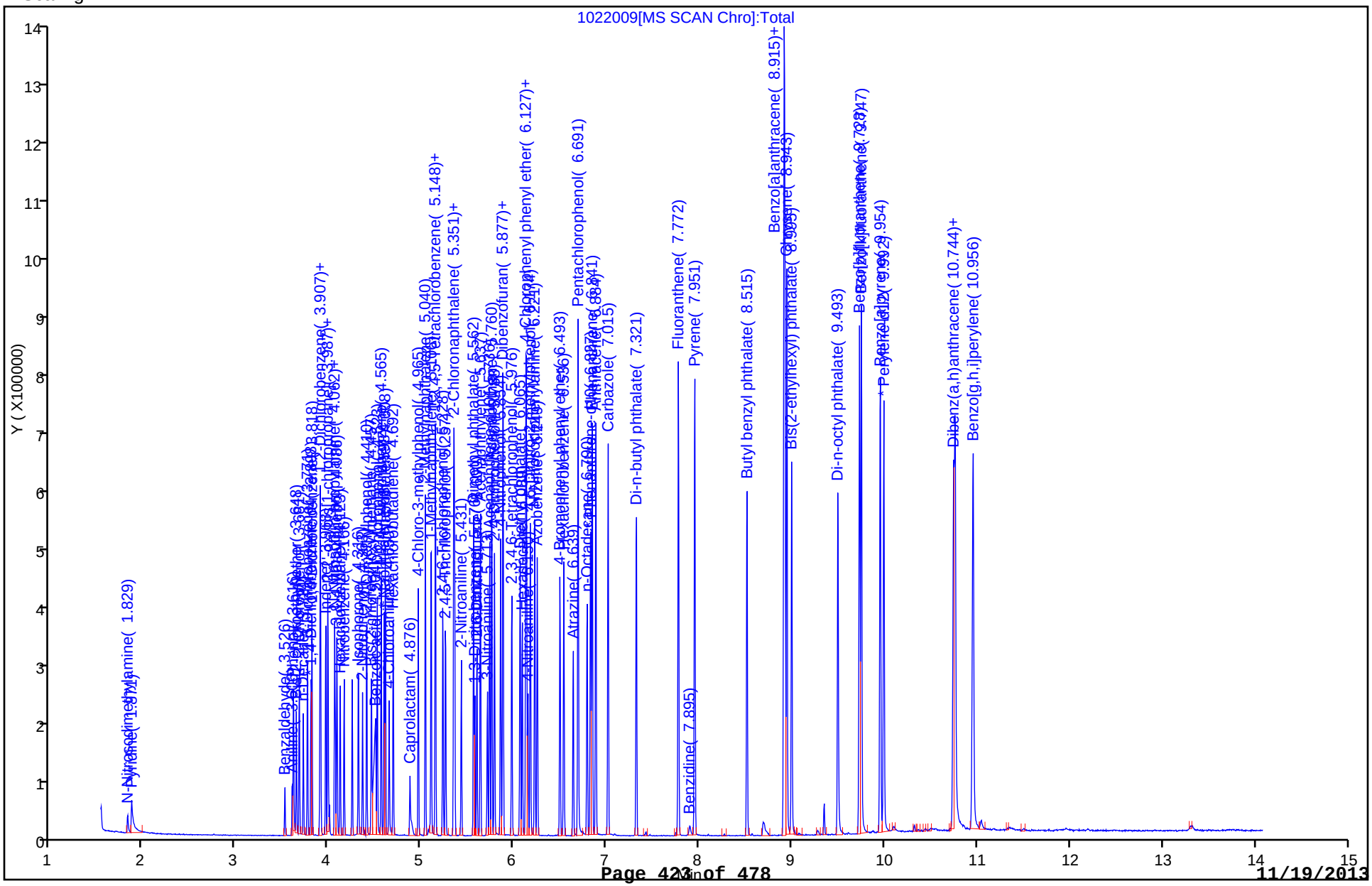
Report Date: 25-Oct-2013 12:55:11 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022009.D

Injection Date:	24-Oct-2013 16:06:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	9
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling:



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Lab Sample ID: ICV 490-116774/9 Calibration Date: 10/24/2013 16:06

Instrument ID: HP83 Calib Start Date: 10/24/2013 13:51

GC Column: ZB-5MSi ID: 0.25(mm) Calib End Date: 10/24/2013 15:44

Lab File ID: 1022009.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Nitrosodimethylamine	Ave	0.7511	0.7962		53.0	50.0	6.0	
Pyridine	Ave	0.6096	0.5650		46.4	50.0	-7.3	
Benzaldehyde	Ave	0.4940	0.3129		31.7	50.0	-36.7	
Aniline	Ave	2.001	1.050		26.2	50.0	-47.5	
Phenol	Ave	1.714	1.813		52.9	50.0	5.8	
Bis(2-chloroethyl)ether	Ave	1.256	1.354		53.9	50.0	7.8	
2-Chlorophenol	Ave	1.345	1.408		52.3	50.0	4.7	
n-Decane	Ave	0.9685	0.9435		48.7	50.0	-2.6	
1,3-Dichlorobenzene	Ave	1.516	1.478		48.8	50.0	-2.5	
1,4-Dichlorobenzene	Ave	1.563	1.561		49.9	50.0	-0.2	
Benzyl alcohol	Ave	0.9244	0.9857		53.3	50.0	6.6	
1,2-Dichlorobenzene	Ave	1.528	1.500		49.1	50.0	-1.8	
Indene	Ave	2.339	2.289		48.9	50.0	-2.1	
2-Methylphenol	Ave	1.246	1.370		55.0	50.0	10.0	
bis (2-chloroisopropyl) ether	Ave	0.9420	0.8175		43.4	50.0	-13.2	
Acetophenone	Ave	2.024	1.920		47.5	50.0	-5.1	
N-Nitrosodi-n-propylamine	Ave	1.156	1.197	0.0500	51.8	50.0	3.6	
3 & 4 Methylphenol	Ave	1.316	1.469		55.8	50.0	11.6	
Hexachloroethane	Ave	0.5918	0.6005		50.7	50.0	1.5	
Nitrobenzene	Ave	0.3846	0.3828		49.8	50.0	-0.5	
Isophorone	Ave	0.6567	0.6588		50.2	50.0	0.3	
2-Nitrophenol	Ave	0.1891	0.1914		50.6	50.0	1.2	
2,4-Dimethylphenol	Ave	0.3690	0.3641		49.3	50.0	-1.3	
Bis(2-chloroethoxy)methane	Ave	0.3901	0.3621		46.4	50.0	-7.2	
Benzoic acid	Ave	0.3009	0.3530		117	100	17.3	
2,4-Dichlorophenol	Ave	0.3135	0.3370		53.7	50.0	7.5	
1,2,4-Trichlorobenzene	Ave	0.3349	0.3452		51.5	50.0	3.0	
Naphthalene	Ave	0.9827	0.9839		50.1	50.0	0.1	
4-Chloroaniline	Ave	0.4227	0.2961		35.0	50.0	-30.0	
Hexachlorobutadiene	Ave	0.2099	0.2066		49.2	50.0	-1.6	
Caprolactam	Lin2		0.1335		52.3	50.0	4.6	20.0
4-Chloro-3-methylphenol	Ave	0.3506	0.3654		52.1	50.0	4.2	
2-Methylnaphthalene	Ave	0.7388	0.7339		49.7	50.0	-0.7	
1-Methylnaphthalene	Ave	0.6877	0.6824		49.6	50.0	-0.8	
Hexachlorocyclopentadiene	Lin2		0.3207	0.0500	54.5	50.0	9.0	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.3883	0.3991		51.4	50.0	2.8	
2,4,6-Trichlorophenol	Ave	0.3526	0.3876		55.0	50.0	9.9	
2,4,5-Trichlorophenol	Ave	0.3888	0.4218		54.2	50.0	8.5	
Biphenyl	Ave	0.9278	0.9493		51.2	50.0	2.3	
2-Chloronaphthalene	Ave	1.042	1.064		51.1	50.0	2.1	

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Lab Sample ID: ICV 490-116774/9 Calibration Date: 10/24/2013 16:06

Instrument ID: HP83 Calib Start Date: 10/24/2013 13:51

GC Column: ZB-5MSi ID: 0.25(mm) Calib End Date: 10/24/2013 15:44

Lab File ID: 1022009.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Nitroaniline	Ave	0.3133	0.3506		55.9	50.0	11.9	
Dimethyl phthalate	Ave	1.282	1.335		52.1	50.0	4.1	
1,3-Dinitrobenzene	Lin2		0.2306		50.2	50.0	0.4	20.0
2,6-Dinitrotoluene	Ave	0.2956	0.3241		54.8	50.0	9.6	
Acenaphthylene	Ave	1.644	1.723		52.4	50.0	4.8	
3-Nitroaniline	Ave	0.3103	0.3055		49.2	50.0	-1.6	
Acenaphthene	Ave	1.116	1.160		52.0	50.0	3.9	
2,4-Dinitrophenol	Lin2		0.2454	0.0500	108	100	7.7	20.0
4-Nitrophenol	Ave	0.2765	0.2970	0.0500	107	100	7.4	
2,4-Dinitrotoluene	Ave	0.4242	0.4667		55.0	50.0	10.0	
Dibenzofuran	Ave	1.599	1.654		51.7	50.0	3.4	
2,3,4,6-Tetrachlorophenol	Ave	0.3635	0.4070		56.0	50.0	12.0	
Diethyl phthalate	Ave	1.280	1.326		51.8	50.0	3.6	
Hexadecane	Ave	0.4956	0.5148		51.9	50.0	3.9	
Fluorene	Ave	1.340	1.423		53.1	50.0	6.2	
4-Chlorophenyl phenyl ether	Ave	0.6916	0.7208		52.1	50.0	4.2	
4-Nitroaniline	Ave	0.3164	0.3355		53.0	50.0	6.1	
4,6-Dinitro-2-methylphenol	Lin2		0.1607		102	100	1.7	20.0
n-Nitrosodiphenylamine(as diphenylamine)	Ave	0.4106	0.5130		62.5	50.0	24.9	
1,2-Diphenylhydrazine (as Azobenzene)	Ave	1.266	1.327		52.4	50.0	4.8	
4-Bromophenyl phenyl ether	Ave	0.2133	0.2136		50.1	50.0	0.1	
Hexachlorobenzene	Ave	0.2164	0.2155		49.8	50.0	-0.4	
Atrazine	Ave	0.2117	0.1622		38.3	50.0	-23.4	
Pentachlorophenol	Ave	0.1578	0.1711		108	100	8.4	
n-Octadecane	Ave	0.2651	0.2778		52.4	50.0	4.8	
Phenanthrene	Ave	1.025	1.014		49.5	50.0	-1.0	
Anthracene	Ave	1.039	1.028		49.5	50.0	-1.0	
Carbazole	Ave	0.996	0.9819		49.3	50.0	-1.5	
Di-n-butyl phthalate	Ave	1.095	1.140		52.0	50.0	4.1	
Fluoranthene	Ave	1.234	1.247		50.5	50.0	1.1	
Benzidine	Lin		0.0246			50.0	-93.0*	20.0
Pyrene	Ave	0.9355	0.9511		50.8	50.0	1.7	
Butyl benzyl phthalate	Ave	0.3792	0.4078		53.8	50.0	7.5	
3,3'-Dichlorobenzidine	Ave	0.3458	0.3410		49.3	50.0	-1.4	
Benzo[a]anthracene	Ave	1.015	1.008		49.7	50.0	-0.7	
Chrysene	Ave	0.9502	0.997		52.4	50.0	4.9	
Bis(2-ethylhexyl) phthalate	Ave	0.5306	0.5673		53.5	50.0	6.9	
Di-n-octyl phthalate	Ave	0.8973	0.9571		53.3	50.0	6.7	
Benzo[b]fluoranthene	Ave	1.057	1.020		48.3	50.0	-3.5	
Benzo[k]fluoranthene	Ave	1.141	1.137		49.8	50.0	-0.3	

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Lab Sample ID: ICV 490-116774/9 Calibration Date: 10/24/2013 16:06

Instrument ID: HP83 Calib Start Date: 10/24/2013 13:51

GC Column: ZB-5MSi ID: 0.25(mm) Calib End Date: 10/24/2013 15:44

Lab File ID: 1022009.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[a]pyrene	Ave	0.9925	0.9468		47.7	50.0	-4.6	
Indeno[1,2,3-cd]pyrene	Ave	1.174	1.165		49.6	50.0	-0.8	
Dibenz(a,h)anthracene	Ave	0.9826	1.011		51.5	50.0	2.9	
Benzo[g,h,i]perylene	Ave	1.010	1.037		51.3	50.0	2.6	

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022009.D
Lims ID: icv Client ID:
Inject. Date: 24-Oct-2013 16:06:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: icv
Misc. Info.: 490-0027300-009
Operator: HP83 Instrument ID: HP83
Injection Vol: 1.0 uL ALS Bottle#: 9
Lims Batch ID: 116774 Lims Sample ID: 9
Sublist:
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP83\20131024-27300.b\8270HP83.m
Last Update: 25-Oct-2013 12:55:10 Calib Date: 24-Oct-2013 15:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D
Limit Group: MSS 8270C ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK029

First Level Reviewer: salomonb Date: 24-Oct-2013 16:28:07

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.808	3.808	0.0	95	26028	40.0	
19 N-Nitrosodimethylamine	74	1.829	1.819	0.010	79	25904	53.0	
20 Pyridine	52	1.871	1.852	0.019	91	18383	46.3	
3 Benzaldehyde	105	3.526	3.526	0.0	90	10180	31.7	
23 Aniline	93	3.606	3.601	0.005	94	34164	26.2	
24 Phenol	94	3.616	3.615	0.001	98	58992	52.9	
25 Bis(2-chloroethyl)ether	93	3.648	3.648	0.0	100	44064	53.9	
26 2-Chlorophenol	128	3.681	3.676	0.005	94	45818	52.3	
6 n-Decane	57	3.724	3.723	0.001	91	30698	48.7	
27 1,3-Dichlorobenzene	146	3.771	3.770	0.001	95	48084	48.8	
28 1,4-Dichlorobenzene	146	3.818	3.817	0.001	90	50783	49.9	
29 Benzyl alcohol	108	3.907	3.907	0.0	88	32070	53.3	
30 1,2-Dichlorobenzene	146	3.912	3.912	0.0	96	48817	49.1	
12 Indene	115	3.968	3.968	0.0	75	74472	48.9	
31 2-Methylphenol	108	3.987	3.987	0.0	95	44572	55.0	
32 2,2'-oxybis[1-chloropropane]	45	3.987	3.991	-0.004	55	26597	43.4	
17 Acetophenone	105	4.062	4.062	0.0	94	62471	47.4	
33 N-Nitrosodi-n-propylamine	70	4.072	4.071	0.001	91	38940	51.8	
35 3 & 4 Methylphenol	108	4.086	4.086	0.001	0	47789	55.8	
36 Hexachloroethane	117	4.123	4.123	0.0	92	19538	50.7	
* 37 Naphthalene-d8	136	4.598	4.598	0.0	99	111727	40.0	
50 Nitrobenzene	77	4.166	4.165	0.001	82	53458	49.8	
51 Isophorone	82	4.316	4.316	0.0	97	92009	50.2	
52 2-Nitrophenol	139	4.363	4.363	0.0	98	26724	50.6	
53 2,4-Dimethylphenol	107	4.410	4.405	0.005	96	50847	49.3	
54 Bis(2-chloroethoxy)methane	93	4.457	4.462	-0.005	99	50570	46.4	
55 Benzoic acid	105	4.504	4.485	0.019	84	98598	117.3	E
56 2,4-Dichlorophenol	162	4.523	4.518	0.005	92	47062	53.7	
57 1,2,4-Trichlorobenzene	180	4.565	4.565	0.0	90	48203	51.5	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
58 Naphthalene	128	4.608	4.612	-0.004	98	137406	50.1	
59 4-Chloroaniline	127	4.650	4.650	0.0	82	41348	35.0	
60 Hexachlorobutadiene	225	4.692	4.697	-0.005	95	28849	49.2	
42 Caprolactam	113	4.876	4.871	0.005	85	18649	52.3	
61 4-Chloro-3-methylphenol	107	4.965	4.965	0.0	89	51027	52.1	
62 2-Methylnaphthalene	142	5.040	5.040	0.0	85	102494	49.7	
64 1-Methylnaphthalene	142	5.106	5.106	0.0	79	95297	49.6	
47 1,2,4,5-Tetrachlorobenzene	216	5.153	5.153	0.0	94	55742	51.4	
170 1,1'-Biphenyl	154	5.346	5.350	-0.004	96	132579	51.2	
* 69 Acenaphthene-d10	164	5.736	5.736	0.0	87	76728	40.0	
80 Hexachlorocyclopentadiene	237	5.148	5.148	0.0	95	30759	54.5	
81 2,4,6-Trichlorophenol	196	5.233	5.233	0.0	87	37173	55.0	
82 2,4,5-Trichlorophenol	196	5.261	5.261	0.0	95	40455	54.2	
84 2-Chloronaphthalene	162	5.355	5.360	-0.005	98	102054	51.1	
85 2-Nitroaniline	65	5.431	5.430	0.001	82	33621	55.9	
86 Dimethyl phthalate	163	5.562	5.562	0.0	97	128031	52.0	
76 1,3-Dinitrobenzene	168	5.576	5.576	0.0	79	22118	50.2	
87 2,6-Dinitrotoluene	165	5.600	5.600	0.0	88	31080	54.8	
88 Acenaphthylene	152	5.637	5.637	0.0	90	165212	52.4	
89 3-Nitroaniline	138	5.713	5.712	0.001	98	29299	49.2	
90 Acenaphthene	153	5.760	5.760	0.0	94	111229	51.9	
91 2,4-Dinitrophenol	184	5.788	5.788	0.0	83	47074	107.7	
92 4-Nitrophenol	65	5.854	5.854	0.0	96	56963	107.4	
93 2,4-Dinitrotoluene	165	5.877	5.877	0.0	86	44761	55.0	
94 Dibenzofuran	168	5.882	5.882	0.0	84	158613	51.7	
77 2,3,4,6-Tetrachlorophenol	232	5.976	5.976	0.0	70	39031	56.0	
95 Diethyl phthalate	149	6.065	6.065	0.0	96	127166	51.8	
197 Hexadecane	57	6.089	6.089	0.0	0	49373	51.9	
96 Fluorene	166	6.127	6.126	0.001	87	136468	53.1	
97 4-Chlorophenyl phenyl ether	204	6.136	6.136	0.0	92	69128	52.1	
98 4-Nitroaniline	138	6.150	6.150	0.0	74	32179	53.0	
99 Azobenzene	77	6.249	6.249	0.0	97	127257	52.4	
* 102 Phenanthrene-d10	188	6.827	6.827	0.0	96	157620	40.0	
125 4,6-Dinitro-2-methylphenol	198	6.178	6.178	0.0	88	63310	101.7	
126 N-Nitrosodiphenylamine	169	6.221	6.220	0.001	60	101072	62.5	
128 4-Bromophenyl phenyl ether	248	6.493	6.498	-0.005	63	42075	50.1	
129 Hexachlorobenzene	284	6.536	6.535	0.001	92	42456	49.8	
168 Atrazine	200	6.639	6.639	0.0	91	31966	38.3	
130 Pentachlorophenol	266	6.691	6.691	0.0	92	67433	108.4	
115 n-Octadecane	57	6.790	6.789	0.001	93	54724	52.4	
131 Phenanthrene	178	6.841	6.841	0.0	97	199790	49.5	
132 Anthracene	178	6.884	6.883	0.001	97	202639	49.5	
133 Carbazole	167	7.015	7.015	0.0	82	193454	49.3	
134 Di-n-butyl phthalate	149	7.321	7.321	0.0	100	224536	52.0	
135 Fluoranthene	202	7.772	7.772	0.0	97	245750	50.5	
* 136 Chrysene-d12	240	8.924	8.924	0.0	85	212483	40.0	
146 Benzidine	184	7.899	7.894	0.005	79	6537	3.51	
152 Pyrene	202	7.951	7.951	0.0	96	252610	50.8	
149 Butyl benzyl phthalate	149	8.515	8.515	0.0	96	108303	53.8	
151 3,3'-Dichlorobenzidine	252	8.910	8.910	0.0	67	90580	49.3	
153 Benzo[a]anthracene	228	8.915	8.915	0.0	99	267656	49.7	
154 Chrysene	228	8.943	8.943	0.0	92	264688	52.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
155 Bis(2-ethylhexyl) phthalate	149	8.995	8.995	0.0	96	150687	53.5	
* 156 Perylene-d12	264	9.992	9.992	0.0	87	223821	40.0	
158 Di-n-octyl phthalate	149	9.493	9.493	0.0	100	267778	53.3	
159 Benzo[b]fluoranthene	252	9.728	9.728	0.0	93	285464	48.3	
160 Benzo[k]fluoranthene	252	9.747	9.747	0.0	98	318141	49.8	
161 Benzo[a]pyrene	252	9.954	9.954	0.0	72	264885	47.7	
162 Indeno[1,2,3-cd]pyrene	276	10.744	10.744	0.0	99	325917	49.6	
163 Dibenz(a,h)anthracene	278	10.763	10.763	0.0	63	282988	51.5	
164 Benzo[g,h,i]perylene	276	10.956	10.955	0.001	90	290135	51.3	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

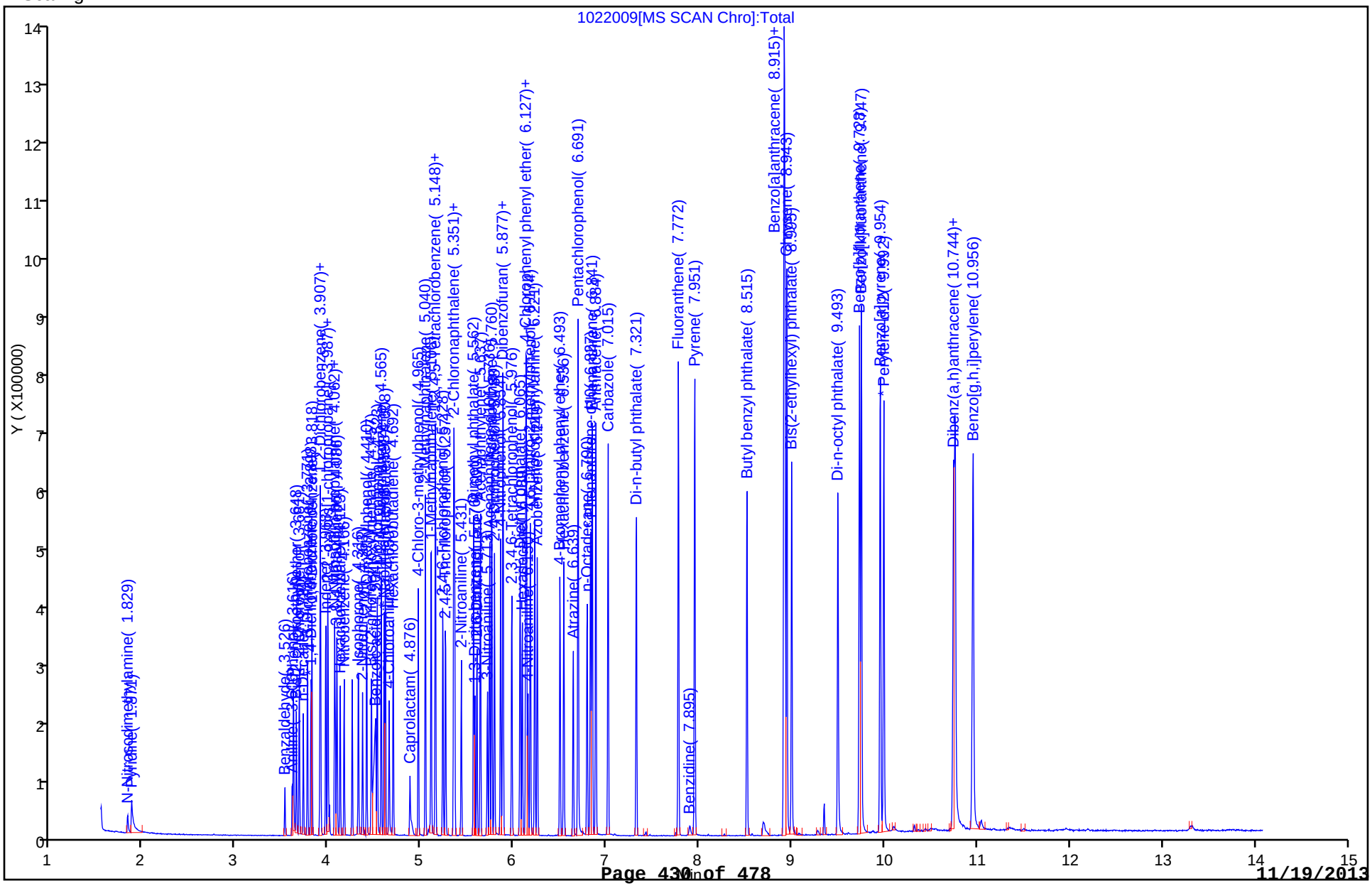
Report Date: 25-Oct-2013 12:55:11 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022009.D

Injection Date:	24-Oct-2013 16:06:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	9
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling:



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Lab Sample ID: CCVIS 490-121257/3 Calibration Date: 11/12/2013 17:37

Instrument ID: HP83 Calib Start Date: 09/14/2013 18:48

GC Column: ZB-5MSi ID: 0.25(mm) Calib End Date: 09/14/2013 20:40

Lab File ID: 1112003b.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5271				50.0		

Report Date: 12-Nov-2013 18:01:41 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112003b.D
Lims ID: CCVIS Lab Sample ID:
Client ID:
Sample Type: CCVIS
Inject. Date: 12-Nov-2013 17:37:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 490-0028283-003
Operator ID: HP83 Instrument ID: HP83
Sublist: chrom-8270HP83*sub16

Method: \\Nvlchrom\ChromData\HP83\20131112-28283.b\8270HP83.m
Limit Group: MSS 8270C ICAL
Last Update: 12-Nov-2013 18:01:41 Calib Date: 24-Oct-2013 15:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D

Column 1 : Detector MS SCAN
Process Host: XAWRK011

First Level Reviewer: spryc Date: 12-Nov-2013 18:01:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.586	3.586	0.0	94	32984	40.0	
19 N-Nitrosodimethylamine	74	1.484	1.484	0.0	78	32975	53.2	
20 Pyridine	52	1.512	1.512	0.0	93	24732	49.2	
$ 21 2-Fluorophenol	112	2.730	2.730	0.0	91	47407	48.7	
3 Benzaldehyde	105	3.299	3.299	0.0	92	21997	54.0	
23 Aniline	93	3.374	3.374	0.0	96	77494	47.0	
$ 22 Phenol-d5	99	3.389	3.389	0.0	0	63722	48.0	
24 Phenol	94	3.398	3.398	0.0	96	66058	46.7	
25 Bis(2-chloroethyl)ether	93	3.431	3.431	0.0	97	48780	47.1	
26 2-Chlorophenol	128	3.454	3.454	0.0	91	52657	47.5	
27 1,3-Dichlorobenzene	146	3.544	3.544	0.0	95	59872	47.9	
28 1,4-Dichlorobenzene	146	3.595	3.595	0.0	92	61178	47.5	
30 1,2-Dichlorobenzene	146	3.690	3.690	0.0	94	58718	46.6	
29 Benzyl alcohol	108	3.690	3.690	0.0	84	37241	48.9	
12 Indene	115	3.746	3.746	0.0	75	92651	48.0	
31 2-Methylphenol	108	3.774	3.774	0.0	95	49768	48.4	
32 2,2'-oxybis[1-chloropropane]	45	3.779	3.779	0.0	89	39847	51.3	
17 Acetophenone	105	3.845	3.845	0.0	92	79897	47.9	
33 N-Nitrosodi-n-propylamine	70	3.859	3.859	0.0	89	45442	47.7	
35 3 & 4 Methylphenol	108	3.873	3.873	0.0	0	51638	47.6	
36 Hexachloroethane	117	3.896	3.896	0.0	97	23250	47.6	
* 37 Naphthalene-d8	136	4.376	4.376	0.0	99	137494	40.0	
$ 49 Nitrobenzene-d5	82	3.934	3.934	0.0	86	62649	48.9	
50 Nitrobenzene	77	3.943	3.943	0.0	80	63874	48.3	
51 Isophorone	82	4.103	4.103	0.0	96	111220	49.3	
52 2-Nitrophenol	139	4.146	4.146	0.0	94	32355	49.8	
53 2,4-Dimethylphenol	107	4.193	4.193	0.0	97	58202	45.9	
54 Bis(2-chloroethoxy)methane	93	4.249	4.249	0.0	98	63076	47.0	
55 Benzoic acid	105	4.277	4.277	0.0	83	54679	52.9	
56 2,4-Dichlorophenol	162	4.301	4.301	0.0	92	53611	49.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
57 1,2,4-Trichlorobenzene	180	4.348	4.348	0.0	90	56548	49.1	
58 Naphthalene	128	4.390	4.390	0.0	97	163924	48.5	
59 4-Chloroaniline	127	4.432	4.432	0.0	82	72286	49.7	
60 Hexachlorobutadiene	225	4.480	4.480	0.0	92	34148	47.3	
42 Caprolactam	113	4.653	4.653	0.0	84	14696	33.7	
61 4-Chloro-3-methylphenol	107	4.748	4.748	0.0	87	56694	47.0	
62 2-Methylnaphthalene	142	4.818	4.818	0.0	84	123274	48.5	
64 1-Methylnaphthalene	142	4.875	4.875	0.0	79	114780	48.6	
47 1,2,4,5-Tetrachlorobenzene	216	4.922	4.922	0.0	93	63531	47.6	
170 1,1'-Biphenyl	154	5.119	5.119	0.0	96	156981	49.2	
* 69 Acenaphthene-d10	164	5.490	5.490	0.0	84	95539	40.0	
80 Hexachlorocyclopentadiene	237	4.922	4.922	0.0	82	36565	52.1	
81 2,4,6-Trichlorophenol	196	5.001	5.001	0.0	92	41282	49.0	
82 2,4,5-Trichlorophenol	196	5.030	5.030	0.0	95	44853	48.3	
$ 83 2-Fluorobiphenyl (Surr)	172	5.058	5.058	0.0	99	145424	47.9	
84 2-Chloronaphthalene	162	5.124	5.124	0.0	98	120587	48.5	
85 2-Nitroaniline	65	5.194	5.194	0.0	83	38424	51.3	
86 Dimethyl phthalate	163	5.331	5.331	0.0	98	150109	49.0	
76 1,3-Dinitrobenzene	168	5.340	5.340	0.0	86	27655	50.4	
87 2,6-Dinitrotoluene	165	5.364	5.364	0.0	89	35387	50.1	
88 Acenaphthylene	152	5.392	5.392	0.0	91	189343	48.2	
89 3-Nitroaniline	138	5.472	5.472	0.0	94	38909	52.5	
90 Acenaphthene	153	5.514	5.514	0.0	94	126949	47.6	
91 2,4-Dinitrophenol	184	5.547	5.547	0.0	83	56726	104.3	
92 4-Nitrophenol	65	5.613	5.613	0.0	97	61075	92.5	
94 Dibenzofuran	168	5.632	5.632	0.0	84	180823	47.3	
93 2,4-Dinitrotoluene	165	5.636	5.636	0.0	75	50987	50.3	
77 2,3,4,6-Tetrachlorophenol	232	5.726	5.726	0.0	71	41360	47.6	
95 Diethyl phthalate	149	5.824	5.824	0.0	96	144363	47.2	
197 Hexadecane	57	5.853	5.853	0.0	0	55865	47.2	
96 Fluorene	166	5.871	5.871	0.0	74	153627	48.0	
97 4-Chlorophenyl phenyl ether	204	5.885	5.885	0.0	88	76894	46.5	
98 4-Nitroaniline	138	5.900	5.900	0.0	75	39868	52.8	
99 Azobenzene	77	5.998	5.998	0.0	97	144257	47.7	
* 102 Phenanthrene-d10	188	6.558	6.558	0.0	96	189286	40.0	
125 4,6-Dinitro-2-methylphenol	198	5.928	5.928	0.0	90	73547	98.5	
126 N-Nitrosodiphenylamine	169	5.975	5.975	0.0	59	92587	47.7	
$ 127 2,4,6-Tribromophenol	330	6.050	6.050	0.0	92	21568	49.9	
128 4-Bromophenyl phenyl ether	248	6.238	6.238	0.0	62	48347	47.9	
129 Hexachlorobenzene	284	6.276	6.276	0.0	94	48726	47.6	
168 Atrazine	200	6.389	6.389	0.0	91	35011	35.0	
130 Pentachlorophenol	266	6.431	6.431	0.0	90	71152	95.3	
131 Phenanthrene	178	6.577	6.577	0.0	96	225352	46.5	
132 Anthracene	178	6.614	6.614	0.0	97	234644	47.7	
133 Carbazole	167	6.751	6.751	0.0	82	222674	47.2	
134 Di-n-butyl phthalate	149	7.066	7.066	0.0	100	257371	49.7	
135 Fluoranthene	202	7.498	7.498	0.0	97	283808	48.6	
* 136 Chrysene-d12	240	8.641	8.641	0.0	84	253212	40.0	
146 Benzidine	184	7.625	7.625	0.0	97	52103	33.9	
152 Pyrene	202	7.668	7.668	0.0	97	288352	48.7	
$ 147 Terphenyl-d14	244	7.828	7.828	0.0	98	224021	47.5	
149 Butyl benzyl phthalate	149	8.251	8.251	0.0	97	122560	51.1	

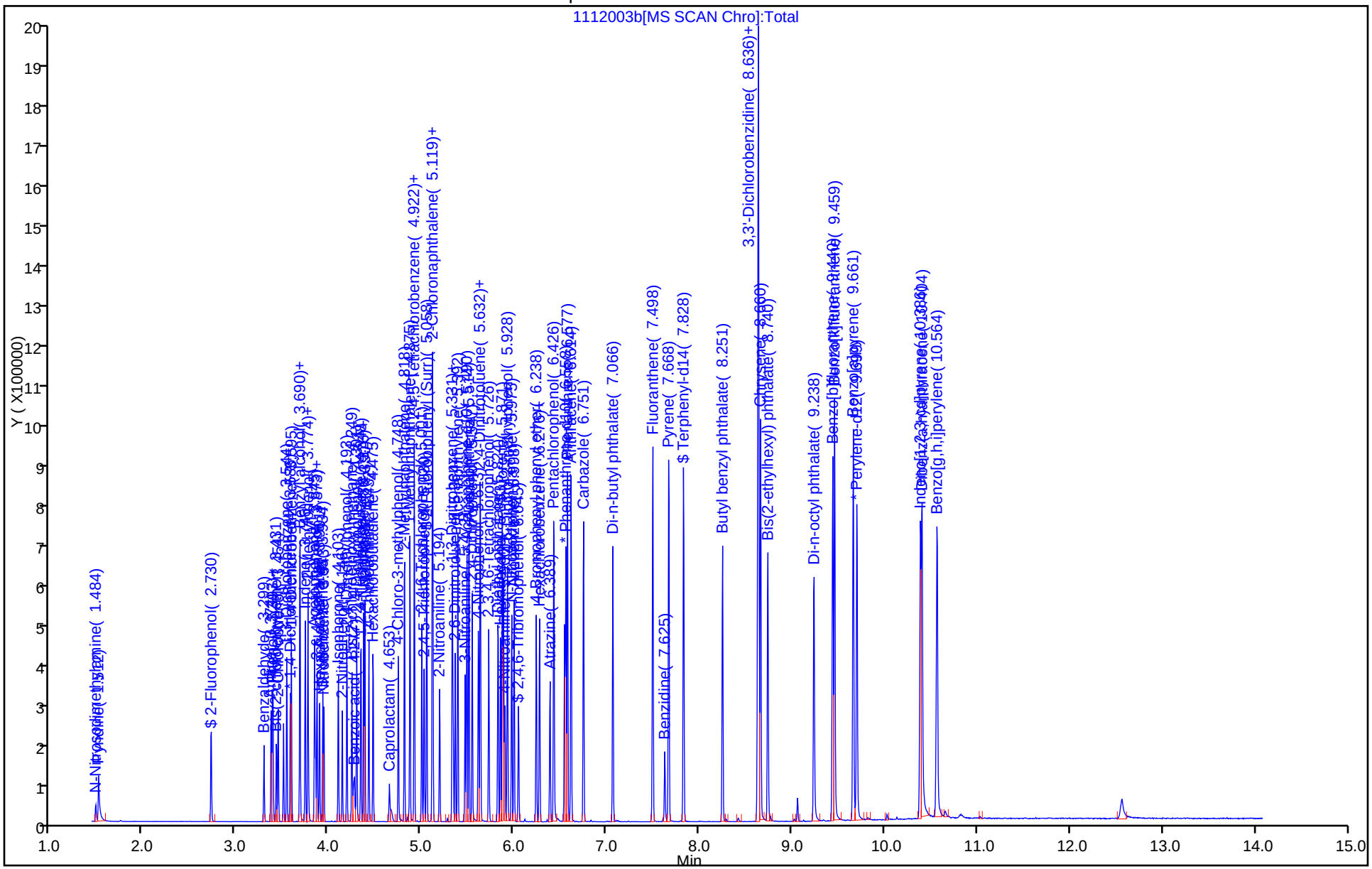
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
153 Benzo[a]anthracene	228	8.632	8.632	0.0	99	299590	46.6	
151 3,3'-Dichlorobenzidine	252	8.636	8.636	0.0	74	107606	49.2	
154 Chrysene	228	8.660	8.660	0.0	92	285107	47.4	
155 Bis(2-ethylhexyl) phthalate	149	8.740	8.740	0.0	94	171791	51.1	
* 156 Perylene-d12	264	9.699	9.699	0.0	87	252754	40.0	
158 Di-n-octyl phthalate	149	9.238	9.238	0.0	99	294210	51.9	
159 Benzo[b]fluoranthene	252	9.440	9.440	0.0	91	315701	47.3	
160 Benzo[k]fluoranthene	252	9.459	9.459	0.0	99	344868	47.8	
161 Benzo[a]pyrene	252	9.661	9.661	0.0	76	307151	49.0	
162 Indeno[1,2,3-cd]pyrene	276	10.386	10.386	0.0	95	355679	47.9	
163 Dibenz(a,h)anthracene	278	10.404	10.404	0.0	67	297410	47.9	
164 Benzo[g,h,i]perylene	276	10.569	10.569	0.0	94	305238	47.8	
S 169 Methyl Phenols,Total	1				0		96.0	

Report Date: 12-Nov-2013 18:01:42 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112003b.D

Injection Date:	12-Nov-2013 17:37:30	Instrument ID:	HP83	Operator ID:	HP83
Lims ID:	CCVIS	Lab Sample ID:		Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8270HP83	Limit Group:	MSS 8270C ICAL		



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Lab Sample ID: CCVIS 490-121257/3 Calibration Date: 11/12/2013 17:37

Instrument ID: HP83 Calib Start Date: 10/24/2013 13:51

GC Column: ZB-5MSi ID: 0.25(mm) Calib End Date: 10/24/2013 15:44

Lab File ID: 1112003b.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Nitrosodimethylamine	Ave	0.7511	0.7998		53.2	50.0	6.5	20.0
Pyridine	Ave	0.6096	0.5999		49.2	50.0	-1.6	20.0
Benzaldehyde	Ave	0.4940	0.5335		54.0	50.0	8.0	20.0
Aniline	Ave	2.001	1.880		47.0	50.0	-6.1	20.0
Phenol	Ave	1.714	1.602		46.7	50.0	-6.5	20.0
Bis(2-chloroethyl)ether	Ave	1.256	1.183		47.1	50.0	-5.8	20.0
2-Chlorophenol	Ave	1.345	1.277		47.5	50.0	-5.1	20.0
1,3-Dichlorobenzene	Ave	1.516	1.452		47.9	50.0	-4.2	20.0
1,4-Dichlorobenzene	Ave	1.563	1.484		47.5	50.0	-5.1	20.0
1,2-Dichlorobenzene	Ave	1.528	1.424		46.6	50.0	-6.8	20.0
Benzyl alcohol	Ave	0.9244	0.9033		48.9	50.0	-2.3	20.0
Indene	Ave	2.339	2.247		48.0	50.0	-3.9	20.0
2-Methylphenol	Ave	1.246	1.207		48.5	50.0	-3.1	20.0
bis (2-chloroisopropyl) ether	Ave	0.9420	0.9665		51.3	50.0	2.6	20.0
Acetophenone	Ave	2.024	1.938		47.9	50.0	-4.2	20.0
N-Nitrosodi-n-propylamine	Ave	1.156	1.102	0.0500	47.7	50.0	-4.6	20.0
3 & 4 Methylphenol	Ave	1.316	1.252		47.6	50.0	-4.9	20.0
Hexachloroethane	Ave	0.5918	0.5639		47.6	50.0	-4.7	20.0
Nitrobenzene	Ave	0.3846	0.3717		48.3	50.0	-3.4	20.0
Isophorone	Ave	0.6567	0.6471		49.3	50.0	-1.5	20.0
2-Nitrophenol	Ave	0.1891	0.1883		49.8	50.0	-0.5	20.0
2,4-Dimethylphenol	Ave	0.3690	0.3386		45.9	50.0	-8.2	20.0
Bis(2-chloroethoxy)methane	Ave	0.3901	0.3670		47.0	50.0	-5.9	20.0
Benzoic acid	Ave	0.3009	0.3182		52.9	50.0	5.7	20.0
2,4-Dichlorophenol	Ave	0.3135	0.3119		49.8	50.0	-0.5	20.0
1,2,4-Trichlorobenzene	Ave	0.3349	0.3290		49.1	50.0	-1.8	20.0
Naphthalene	Ave	0.9827	0.9538		48.5	50.0	-2.9	20.0
4-Chloroaniline	Ave	0.4227	0.4206		49.8	50.0	-0.5	20.0
Hexachlorobutadiene	Ave	0.2099	0.1987		47.3	50.0	-5.4	20.0
Caprolactam	Lin2		0.0855		33.7	50.0	-32.6*	20.0
4-Chloro-3-methylphenol	Ave	0.3506	0.3299		47.0	50.0	-5.9	20.0
2-Methylnaphthalene	Ave	0.7388	0.7173		48.5	50.0	-2.9	20.0
1-Methylnaphthalene	Ave	0.6877	0.6678		48.6	50.0	-2.9	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.3883	0.3697		47.6	50.0	-4.8	20.0
Hexachlorocyclopentadiene	Lin2		0.3062	0.0500	52.1	50.0	4.1	20.0
2,4,6-Trichlorophenol	Ave	0.3526	0.3457		49.0	50.0	-1.9	20.0
2,4,5-Trichlorophenol	Ave	0.3888	0.3756		48.3	50.0	-3.4	20.0
Biphenyl	Ave	0.9278	0.9134		49.2	50.0	-1.6	20.0
2-Chloronaphthalene	Ave	1.042	1.010		48.5	50.0	-3.1	20.0
2-Nitroaniline	Ave	0.3133	0.3218		51.3	50.0	2.7	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Lab Sample ID: CCVIS 490-121257/3 Calibration Date: 11/12/2013 17:37

Instrument ID: HP83 Calib Start Date: 10/24/2013 13:51

GC Column: ZB-5MSi ID: 0.25(mm) Calib End Date: 10/24/2013 15:44

Lab File ID: 1112003b.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dimethyl phthalate	Ave	1.282	1.257		49.0	50.0	-2.0	20.0
1,3-Dinitrobenzene	Lin2		0.2316		50.4	50.0	0.8	20.0
2,6-Dinitrotoluene	Ave	0.2956	0.2963		50.1	50.0	0.3	20.0
Acenaphthylene	Ave	1.644	1.585		48.2	50.0	-3.6	20.0
3-Nitroaniline	Ave	0.3103	0.3258		52.5	50.0	5.0	20.0
Acenaphthene	Ave	1.116	1.063		47.6	50.0	-4.8	20.0
2,4-Dinitrophenol	Lin2		0.2375	0.0500	104	100	4.3	20.0
4-Nitrophenol	Ave	0.2765	0.2557	0.0500	92.5	100	-7.5	20.0
Dibenzofuran	Ave	1.599	1.514		47.3	50.0	-5.3	20.0
2,4-Dinitrotoluene	Ave	0.4242	0.4269		50.3	50.0	0.6	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3635	0.3463		47.6	50.0	-4.7	20.0
Diethyl phthalate	Ave	1.280	1.209		47.2	50.0	-5.6	20.0
Hexadecane	Ave	0.4956	0.4678		47.2	50.0	-5.6	20.0
Fluorene	Ave	1.340	1.286		48.0	50.0	-4.0	20.0
4-Chlorophenyl phenyl ether	Ave	0.6916	0.6439		46.6	50.0	-6.9	20.0
4-Nitroaniline	Ave	0.3164	0.3338		52.8	50.0	5.5	20.0
4,6-Dinitro-2-methylphenol	Lin2		0.1554		98.5	100	-1.5	20.0
n-Nitrosodiphenylamine(as diphenylamine)	Ave	0.4106	0.3913		47.7	50.0	-4.7	20.0
1,2-Diphenylhydrazine (as Azobenzene)	Ave	1.266	1.208		47.7	50.0	-4.6	20.0
4-Bromophenyl phenyl ether	Ave	0.2133	0.2043		47.9	50.0	-4.2	20.0
Hexachlorobenzene	Ave	0.2164	0.2059		47.6	50.0	-4.8	20.0
Atrazine	Ave	0.2117	0.1480		35.0	50.0	-30.1*	20.0
Pentachlorophenol	Ave	0.1578	0.1504		95.3	100	-4.7	20.0
Phenanthrene	Ave	1.025	0.9524		46.5	50.0	-7.1	20.0
Anthracene	Ave	1.039	0.9917		47.7	50.0	-4.6	20.0
Carbazole	Ave	0.996	0.9411		47.2	50.0	-5.6	20.0
Di-n-butyl phthalate	Ave	1.095	1.088		49.7	50.0	-0.7	20.0
Fluoranthene	Ave	1.234	1.199		48.6	50.0	-2.8	20.0
Benzidine	Lin		0.1646		33.9	50.0	-32.3*	20.0
Pyrene	Ave	0.9355	0.9110		48.7	50.0	-2.6	20.0
Butyl benzyl phthalate	Ave	0.3792	0.3872		51.1	50.0	2.1	20.0
Benzo[a]anthracene	Ave	1.015	0.9465		46.6	50.0	-6.7	20.0
3,3'-Dichlorobenzidine	Ave	0.3458	0.3400		49.2	50.0	-1.7	20.0
Chrysene	Ave	0.9502	0.9008		47.4	50.0	-5.2	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.5306	0.5428		51.2	50.0	2.3	20.0
Di-n-octyl phthalate	Ave	0.8973	0.9312		51.9	50.0	3.8	20.0
Benzo[b]fluoranthene	Ave	1.057	0.999		47.3	50.0	-5.5	20.0
Benzo[k]fluoranthene	Ave	1.141	1.092		47.8	50.0	-4.3	20.0
Benzo[a]pyrene	Ave	0.9925	0.9722		49.0	50.0	-2.0	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.174	1.126		48.0	50.0	-4.1	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Lab Sample ID: CCVIS 490-121257/3 Calibration Date: 11/12/2013 17:37

Instrument ID: HP83 Calib Start Date: 10/24/2013 13:51

GC Column: ZB-5MSi ID: 0.25(mm) Calib End Date: 10/24/2013 15:44

Lab File ID: 1112003b.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibenz(a,h)anthracene	Ave	0.9826	0.9413		47.9	50.0	-4.2	20.0
Benzo[g,h,i]perylene	Ave	1.010	0.9661		47.8	50.0	-4.4	20.0
n-Decane	Ave	0.9685				50.0		
n-Octadecane	Ave	0.2651				50.0		
2-Fluorophenol (Surr)	Ave	1.179	1.150		48.8	50.0	-2.5	20.0
Phenol-d5 (Surr)	Ave	1.611	1.546		48.0	50.0	-4.1	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3731	0.3645		48.9	50.0	-2.3	20.0
2-Fluorobiphenyl (Surr)	Ave	1.271	1.218		47.9	50.0	-4.2	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.0914	0.0912		49.9	50.0	-0.2	20.0
Terphenyl-d14 (Surr)	Ave	0.7448	0.7078		47.5	50.0	-5.0	20.0

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112003b.D
Lims ID: CCVIS Lab Sample ID:
Client ID:
Sample Type: CCVIS
Inject. Date: 12-Nov-2013 17:37:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 490-0028283-003
Operator ID: HP83 Instrument ID: HP83
Sublist: chrom-8270HP83*sub16

Method: \\Nvlchrom\ChromData\HP83\20131112-28283.b\8270HP83.m
Limit Group: MSS 8270C ICAL
Last Update: 12-Nov-2013 18:01:41 Calib Date: 24-Oct-2013 15:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D

Column 1 : Detector MS SCAN
Process Host: XAWRK011

First Level Reviewer: spryc Date: 12-Nov-2013 18:01:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.586	3.586	0.0	94	32984	40.0	
19 N-Nitrosodimethylamine	74	1.484	1.484	0.0	78	32975	53.2	
20 Pyridine	52	1.512	1.512	0.0	93	24732	49.2	
$ 21 2-Fluorophenol	112	2.730	2.730	0.0	91	47407	48.7	
3 Benzaldehyde	105	3.299	3.299	0.0	92	21997	54.0	
23 Aniline	93	3.374	3.374	0.0	96	77494	47.0	
$ 22 Phenol-d5	99	3.389	3.389	0.0	0	63722	48.0	
24 Phenol	94	3.398	3.398	0.0	96	66058	46.7	
25 Bis(2-chloroethyl)ether	93	3.431	3.431	0.0	97	48780	47.1	
26 2-Chlorophenol	128	3.454	3.454	0.0	91	52657	47.5	
27 1,3-Dichlorobenzene	146	3.544	3.544	0.0	95	59872	47.9	
28 1,4-Dichlorobenzene	146	3.595	3.595	0.0	92	61178	47.5	
30 1,2-Dichlorobenzene	146	3.690	3.690	0.0	94	58718	46.6	
29 Benzyl alcohol	108	3.690	3.690	0.0	84	37241	48.9	
12 Indene	115	3.746	3.746	0.0	75	92651	48.0	
31 2-Methylphenol	108	3.774	3.774	0.0	95	49768	48.4	
32 2,2'-oxybis[1-chloropropane]	45	3.779	3.779	0.0	89	39847	51.3	
17 Acetophenone	105	3.845	3.845	0.0	92	79897	47.9	
33 N-Nitrosodi-n-propylamine	70	3.859	3.859	0.0	89	45442	47.7	
35 3 & 4 Methylphenol	108	3.873	3.873	0.0	0	51638	47.6	
36 Hexachloroethane	117	3.896	3.896	0.0	97	23250	47.6	
* 37 Naphthalene-d8	136	4.376	4.376	0.0	99	137494	40.0	
$ 49 Nitrobenzene-d5	82	3.934	3.934	0.0	86	62649	48.9	
50 Nitrobenzene	77	3.943	3.943	0.0	80	63874	48.3	
51 Isophorone	82	4.103	4.103	0.0	96	111220	49.3	
52 2-Nitrophenol	139	4.146	4.146	0.0	94	32355	49.8	
53 2,4-Dimethylphenol	107	4.193	4.193	0.0	97	58202	45.9	
54 Bis(2-chloroethoxy)methane	93	4.249	4.249	0.0	98	63076	47.0	
55 Benzoic acid	105	4.277	4.277	0.0	83	54679	52.9	
56 2,4-Dichlorophenol	162	4.301	4.301	0.0	92	53611	49.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
57 1,2,4-Trichlorobenzene	180	4.348	4.348	0.0	90	56548	49.1	
58 Naphthalene	128	4.390	4.390	0.0	97	163924	48.5	
59 4-Chloroaniline	127	4.432	4.432	0.0	82	72286	49.7	
60 Hexachlorobutadiene	225	4.480	4.480	0.0	92	34148	47.3	
42 Caprolactam	113	4.653	4.653	0.0	84	14696	33.7	
61 4-Chloro-3-methylphenol	107	4.748	4.748	0.0	87	56694	47.0	
62 2-Methylnaphthalene	142	4.818	4.818	0.0	84	123274	48.5	
64 1-Methylnaphthalene	142	4.875	4.875	0.0	79	114780	48.6	
47 1,2,4,5-Tetrachlorobenzene	216	4.922	4.922	0.0	93	63531	47.6	
170 1,1'-Biphenyl	154	5.119	5.119	0.0	96	156981	49.2	
* 69 Acenaphthene-d10	164	5.490	5.490	0.0	84	95539	40.0	
80 Hexachlorocyclopentadiene	237	4.922	4.922	0.0	82	36565	52.1	
81 2,4,6-Trichlorophenol	196	5.001	5.001	0.0	92	41282	49.0	
82 2,4,5-Trichlorophenol	196	5.030	5.030	0.0	95	44853	48.3	
$ 83 2-Fluorobiphenyl (Surr)	172	5.058	5.058	0.0	99	145424	47.9	
84 2-Chloronaphthalene	162	5.124	5.124	0.0	98	120587	48.5	
85 2-Nitroaniline	65	5.194	5.194	0.0	83	38424	51.3	
86 Dimethyl phthalate	163	5.331	5.331	0.0	98	150109	49.0	
76 1,3-Dinitrobenzene	168	5.340	5.340	0.0	86	27655	50.4	
87 2,6-Dinitrotoluene	165	5.364	5.364	0.0	89	35387	50.1	
88 Acenaphthylene	152	5.392	5.392	0.0	91	189343	48.2	
89 3-Nitroaniline	138	5.472	5.472	0.0	94	38909	52.5	
90 Acenaphthene	153	5.514	5.514	0.0	94	126949	47.6	
91 2,4-Dinitrophenol	184	5.547	5.547	0.0	83	56726	104.3	
92 4-Nitrophenol	65	5.613	5.613	0.0	97	61075	92.5	
94 Dibenzofuran	168	5.632	5.632	0.0	84	180823	47.3	
93 2,4-Dinitrotoluene	165	5.636	5.636	0.0	75	50987	50.3	
77 2,3,4,6-Tetrachlorophenol	232	5.726	5.726	0.0	71	41360	47.6	
95 Diethyl phthalate	149	5.824	5.824	0.0	96	144363	47.2	
197 Hexadecane	57	5.853	5.853	0.0	0	55865	47.2	
96 Fluorene	166	5.871	5.871	0.0	74	153627	48.0	
97 4-Chlorophenyl phenyl ether	204	5.885	5.885	0.0	88	76894	46.5	
98 4-Nitroaniline	138	5.900	5.900	0.0	75	39868	52.8	
99 Azobenzene	77	5.998	5.998	0.0	97	144257	47.7	
* 102 Phenanthrene-d10	188	6.558	6.558	0.0	96	189286	40.0	
125 4,6-Dinitro-2-methylphenol	198	5.928	5.928	0.0	90	73547	98.5	
126 N-Nitrosodiphenylamine	169	5.975	5.975	0.0	59	92587	47.7	
$ 127 2,4,6-Tribromophenol	330	6.050	6.050	0.0	92	21568	49.9	
128 4-Bromophenyl phenyl ether	248	6.238	6.238	0.0	62	48347	47.9	
129 Hexachlorobenzene	284	6.276	6.276	0.0	94	48726	47.6	
168 Atrazine	200	6.389	6.389	0.0	91	35011	35.0	
130 Pentachlorophenol	266	6.431	6.431	0.0	90	71152	95.3	
131 Phenanthrene	178	6.577	6.577	0.0	96	225352	46.5	
132 Anthracene	178	6.614	6.614	0.0	97	234644	47.7	
133 Carbazole	167	6.751	6.751	0.0	82	222674	47.2	
134 Di-n-butyl phthalate	149	7.066	7.066	0.0	100	257371	49.7	
135 Fluoranthene	202	7.498	7.498	0.0	97	283808	48.6	
* 136 Chrysene-d12	240	8.641	8.641	0.0	84	253212	40.0	
146 Benzidine	184	7.625	7.625	0.0	97	52103	33.9	
152 Pyrene	202	7.668	7.668	0.0	97	288352	48.7	
$ 147 Terphenyl-d14	244	7.828	7.828	0.0	98	224021	47.5	
149 Butyl benzyl phthalate	149	8.251	8.251	0.0	97	122560	51.1	

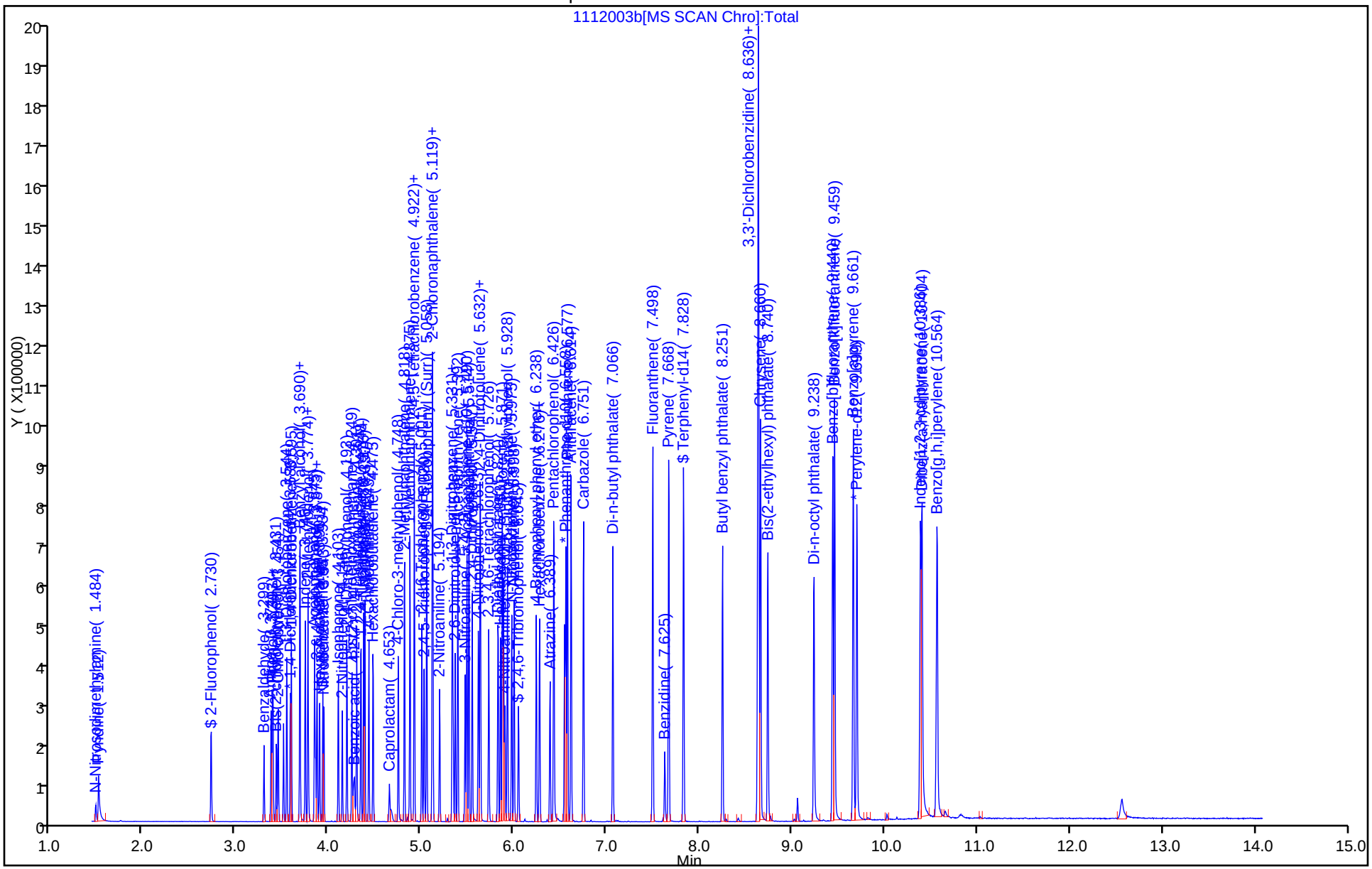
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
153 Benzo[a]anthracene	228	8.632	8.632	0.0	99	299590	46.6	
151 3,3'-Dichlorobenzidine	252	8.636	8.636	0.0	74	107606	49.2	
154 Chrysene	228	8.660	8.660	0.0	92	285107	47.4	
155 Bis(2-ethylhexyl) phthalate	149	8.740	8.740	0.0	94	171791	51.1	
* 156 Perylene-d12	264	9.699	9.699	0.0	87	252754	40.0	
158 Di-n-octyl phthalate	149	9.238	9.238	0.0	99	294210	51.9	
159 Benzo[b]fluoranthene	252	9.440	9.440	0.0	91	315701	47.3	
160 Benzo[k]fluoranthene	252	9.459	9.459	0.0	99	344868	47.8	
161 Benzo[a]pyrene	252	9.661	9.661	0.0	76	307151	49.0	
162 Indeno[1,2,3-cd]pyrene	276	10.386	10.386	0.0	95	355679	47.9	
163 Dibenz(a,h)anthracene	278	10.404	10.404	0.0	67	297410	47.9	
164 Benzo[g,h,i]perylene	276	10.569	10.569	0.0	94	305238	47.8	
S 169 Methyl Phenols,Total	1				0		96.0	

Report Date: 12-Nov-2013 18:01:42 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112003b.D

Injection Date:	12-Nov-2013 17:37:30	Instrument ID:	HP83	Operator ID:	HP83
Lims ID:	CCVIS	Lab Sample ID:		Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8270HP83	Limit Group:	MSS 8270C ICAL		



TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022002.D		
Lims ID:	DFTPP	Client ID:	
Inject. Date:	24-Oct-2013 13:34:30	Dil. Factor:	1.0000
Sample Type:	DFTPP		
Sample ID:	DFTPP		
Misc. Info.:	490-0027300-002		
Operator:	HP83	Instrument ID:	HP83
Injection Vol:	1.0 uL	ALS Bottle#:	2
Lims Batch ID:	116774	Lims Sample ID:	2
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\8270HP83.m		
Last Update:	25-Oct-2013 12:55:19	Calib Date:	24-Oct-2013 15:44:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D		
Limit Group:	MSS 8270C ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK029		
First Level Reviewer: salomonb		Date:	24-Oct-2013 14:03:07

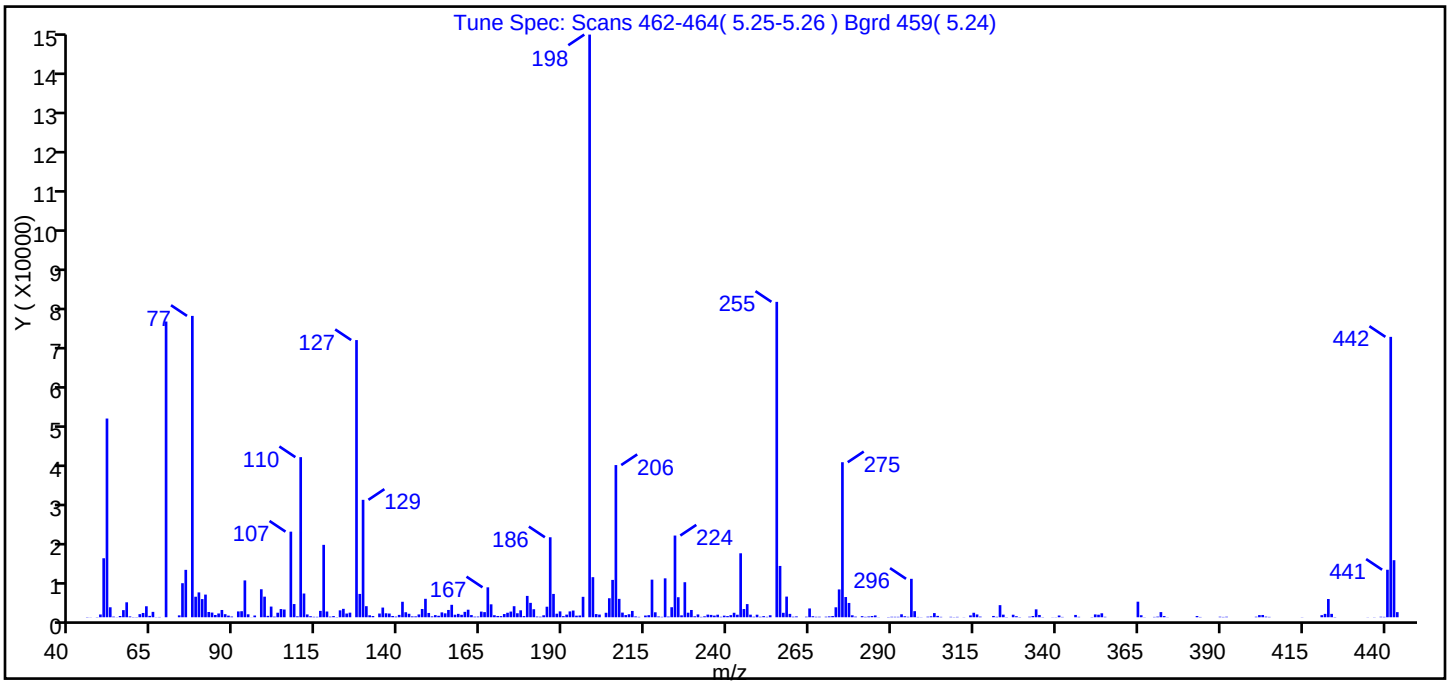
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
171 Pentachlorophenol_T	266	4.841	4.841	0.0	86	189755	0	
172 DFTPP								
173 Benzidine_T	184	6.120	6.120	0.0	98	933901	0	
174 4,4'-DDE	246	6.280	6.280	0.0	2	597	0	
175 4,4'-DDD	235	6.567	6.567	0.0	65	3436	0	
176 4,4'-DDT	235	6.825	6.825	0.0	98	456307	0	

MS Tune Report

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022002.D		
Injection Date:	24-Oct-2013 13:34:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	2
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	
Tune Method:	DFTPP Method 8270		

172 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	34.11
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Present	50.75
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	47.57
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.88
275	10.00 - 30.00% of mass 198	26.61
365	Greater than 1.00% of mass 198	2.67
441	Present, but less than mass 443%	8.15 (83.26)
442	Greater than 40.00% of mass 198	48.12
443	17.00 - 23.00% of mass 442	9.79 (20.35)

Data File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022002.D\8270HP83.rslt\spectra.d
Injection Date: 24-Oct-2013 13:34:30
Spectrum: Tune Spec: Scans 462-464(5.25-5.26) Bgrd 459(5.24)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 304

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	62	131.00	480	209.00	535	293.00	725
46.00	33	132.00	303	210.00	735	294.00	238
48.00	55	133.00	1	211.00	1542	295.00	116
49.00	679	134.00	908	212.00	201	296.00	9390
50.00	14414	135.00	2367	213.00	100	297.00	1488
51.00	48544	136.00	972	215.00	419	298.00	81
52.00	2440	137.00	911	216.00	506	299.00	40
53.00	157	138.00	313	217.00	9187	301.00	139
54.00	37	139.00	159	218.00	1212	302.00	226
55.00	307	140.00	578	219.00	198	303.00	1020
56.00	1740	141.00	3783	220.00	103	304.00	332
57.00	3656	142.00	1226	221.00	9506	305.00	100
58.00	200	143.00	851	222.00	166	308.00	107
59.00	56	144.00	214	223.00	2452	309.00	48
60.00	54	145.00	213	224.00	19960	310.00	96
61.00	758	146.00	689	225.00	4894	312.00	34
62.00	1049	147.00	2019	226.00	467	314.00	456
63.00	2686	148.00	4508	227.00	8560	315.00	1097
64.00	339	149.00	1052	228.00	1111	316.00	682
65.00	1317	150.00	217	229.00	1776	317.00	154
66.00	38	151.00	521	230.00	231	321.00	317
67.00	73	152.00	359	231.00	686	322.00	111
69.00	72240	153.00	1192	232.00	95	323.00	2957
73.00	462	154.00	955	233.00	233	324.00	634
74.00	8319	155.00	1783	234.00	646	325.00	55
75.00	11581	156.00	3038	235.00	573	327.00	619
77.00	73616	157.00	618	236.00	404	328.00	247
78.00	5015	158.00	828	237.00	623	329.00	61
79.00	6074	159.00	597	238.00	114	332.00	133
80.00	4436	160.00	1319	239.00	394	333.00	298
81.00	5535	161.00	1843	240.00	285	334.00	1936
82.00	1287	162.00	532	241.00	516	335.00	559
83.00	1146	163.00	147	242.00	1095	336.00	57

Report Date: 25-Oct-2013 12:55:20 Chrom Revision: 2.0 01-Apr-2013 21:16:10
Data File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022002.D\8270HP83.rslt\spectra.d
Injection Date: 24-Oct-2013 13:34:30
Spectrum: Tune Spec: Scans 462-464(5.25-5.26) Bgrd 459(5.24)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 304

m/z	Y	m/z	Y	m/z	Y	m/z	Y
84.00	552	164.00	168	243.00	618	339.00	36
85.00	923	165.00	1383	244.00	15629	340.00	39
86.00	1776	166.00	1255	245.00	2011	341.00	431
87.00	751	167.00	7312	246.00	3213	342.00	81
88.00	397	168.00	3160	247.00	629	346.00	564
89.00	178	169.00	494	248.00	132	347.00	109
91.00	1425	170.00	313	249.00	624	351.00	57
92.00	1477	171.00	277	250.00	120	352.00	693
93.00	9000	172.00	785	251.00	275	353.00	621
94.00	724	173.00	1101	252.00	110	354.00	973
95.00	25	174.00	1388	253.00	488	355.00	111
96.00	424	175.00	2699	255.00	77048	365.00	3803
98.00	6841	176.00	978	256.00	12535	366.00	492
99.00	5030	177.00	1698	257.00	1086	367.00	43
100.00	342	178.00	283	258.00	5048	370.00	87
101.00	2609	179.00	5214	259.00	825	371.00	155
102.00	156	180.00	3518	260.00	135	372.00	1261
103.00	1106	181.00	1962	261.00	208	373.00	285
104.00	2006	182.00	174	264.00	138	374.00	35
105.00	1890	183.00	132	265.00	2153	383.00	305
107.00	20912	184.00	480	266.00	248	384.00	73
108.00	3227	185.00	2576	267.00	120	390.00	134
109.00	224	186.00	19544	268.00	129	391.00	80
110.00	39112	187.00	5699	270.00	136	392.00	131
111.00	5798	188.00	867	271.00	212	401.00	132
112.00	690	189.00	1435	272.00	297	402.00	528
113.00	255	190.00	275	273.00	2434	403.00	553
114.00	116	191.00	645	274.00	6798	404.00	155
115.00	108	192.00	1431	275.00	37872	405.00	92
116.00	1558	193.00	1639	276.00	4941	415.00	38
117.00	17688	194.00	389	277.00	3494	421.00	507
118.00	1406	195.00	433	278.00	478	422.00	825
119.00	150	196.00	4991	279.00	156	423.00	4456
120.00	287	198.00	142336	281.00	265	424.00	828

Report Date: 25-Oct-2013 12:55:20 Chrom Revision: 2.0 01-Apr-2013 21:16:10
Data File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022002.D\8270HP83.rslt\spectra.d
Injection Date: 24-Oct-2013 13:34:30
Spectrum: Tune Spec: Scans 462-464(5.25-5.26) Bgrd 459(5.24)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 304

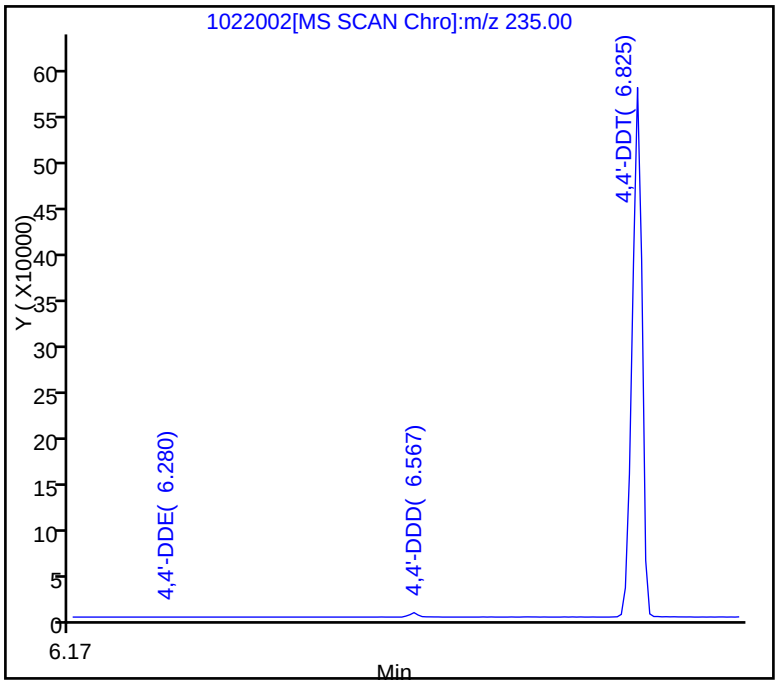
m/z	Y	m/z	Y	m/z	Y	m/z	Y
121.00	53	199.00	9793	282.00	99	425.00	66
122.00	1686	200.00	775	283.00	189	435.00	33
123.00	2057	201.00	652	284.00	298	437.00	40
124.00	910	203.00	1096	285.00	444	439.00	125
125.00	1122	204.00	4644	286.00	36	440.00	93
127.00	67712	205.00	9124	289.00	64	441.00	11606
128.00	5701	206.00	37176	290.00	119	442.00	68496
129.00	28688	207.00	4493	291.00	112	443.00	13939
130.00	2707	208.00	1139	292.00	109	444.00	1250

Breakdown Report

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022002.D		
Injection Date:	24-Oct-2013 13:34:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	2
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	

176 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

176 4,4'-DDT, Area = 456307
174 4,4'-DDE, Area = 597
175 4,4'-DDD, Area = 3436

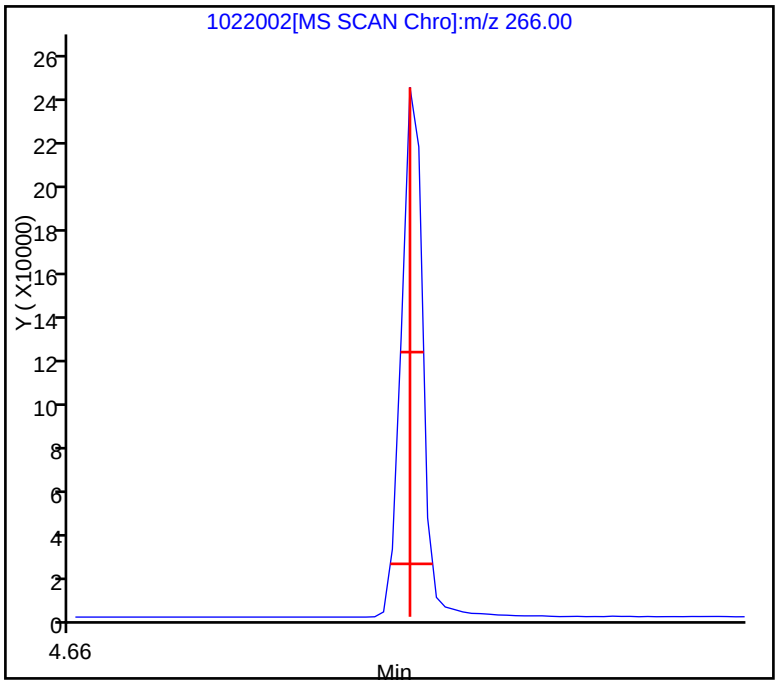
%Breakdown: 0.88%, Max Limit: 30.00%
Passed

Peak Tailing Report

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022002.D		
Injection Date:	24-Oct-2013 13:34:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	2
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	

171 Pentachlorophenol_T, Detector: MS SCAN



Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.012 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.2, Max. Tailing < 5.00
Passed

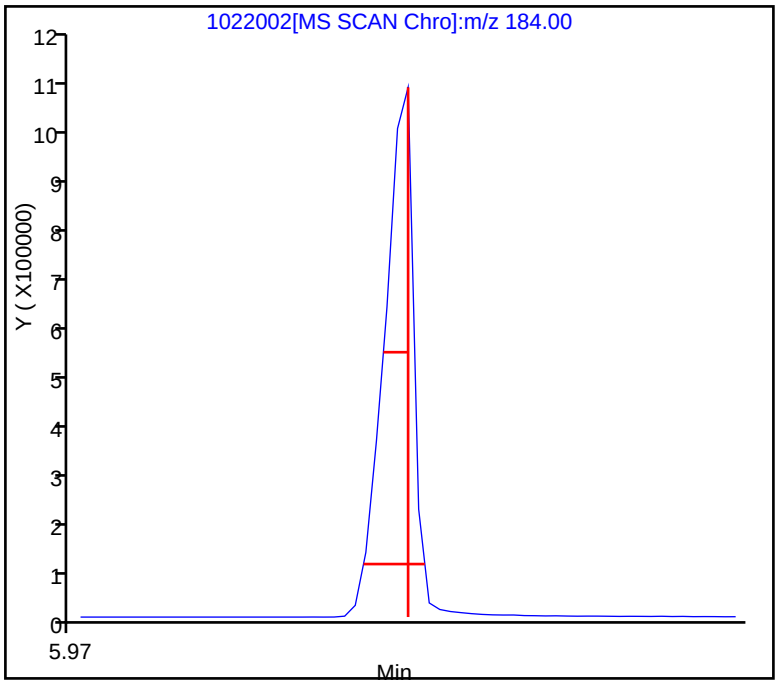
Peak Tailing Report

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022002.D

Injection Date:	24-Oct-2013 13:34:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	2
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	

173 Benzidine_T, Detector: MS SCAN



Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.007 (min.)
Front Width = 0.020 (min.)

Tailing Factor = 0.4, Max. Tailing < 3.00
Passed

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112002b.D
Lims ID: DFTPP Lab Sample ID:
Client ID:
Sample Type: DFTPP
Inject. Date: 12-Nov-2013 17:21:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 490-0028283-002
Operator ID: HP83 Instrument ID: HP83

Method: \\Nvlchrom\ChromData\HP83\20131112-28283.b\8270HP83.m
Limit Group: MSS 8270C ICAL
Last Update: 12-Nov-2013 17:44:14 Calib Date: 24-Oct-2013 15:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D

Column 1 : Detector MS SCAN
Process Host: XAWRK011

First Level Reviewer: spryc Date: 12-Nov-2013 17:44:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
171 Pentachlorophenol_T	266	4.582	4.582	0.0	90	176427	0	7
172 DFTPP								
173 Benzidine_T	184	5.843	5.843	0.0	98	894054	0	7
175 4,4'-DDD	235	6.285	6.285	0.0	19	1085	0	7
176 4,4'-DDT	235	6.543	6.543	0.0	99	433214	0	7

QC Flag Legend

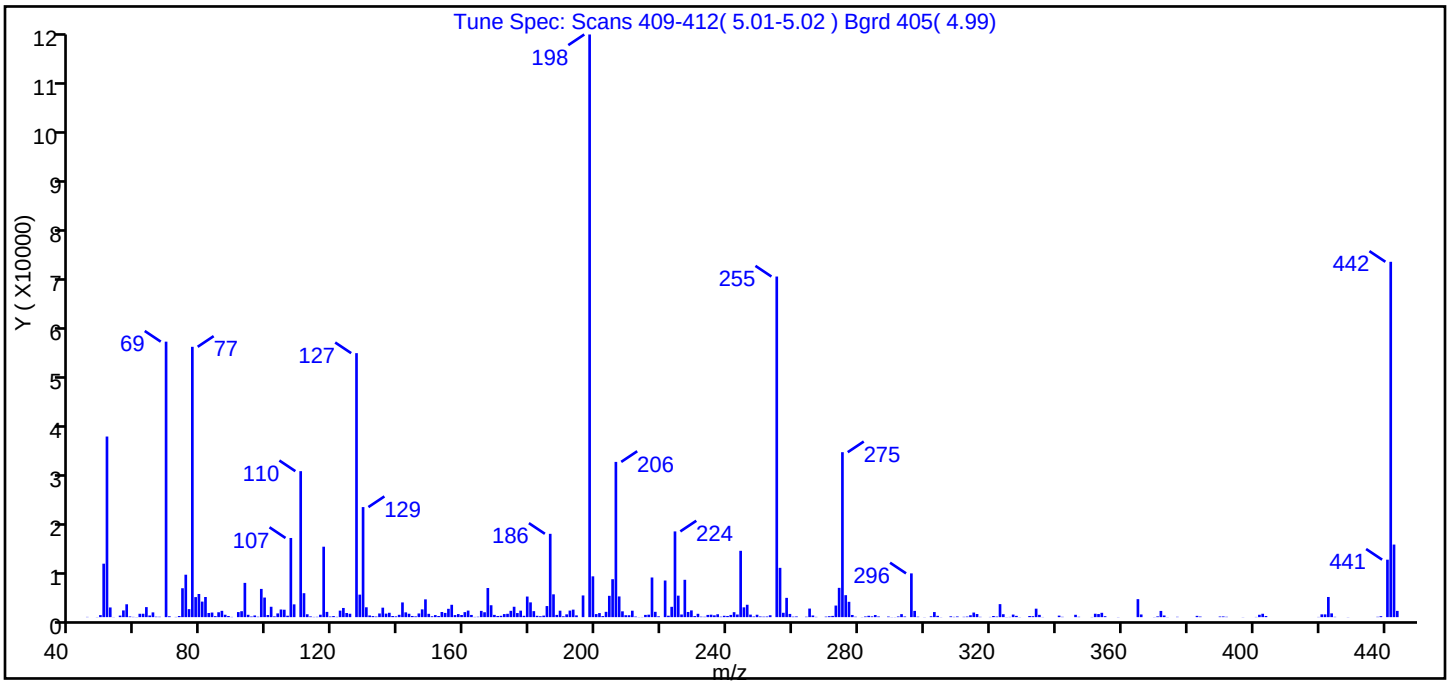
Processing Flags
7 - Failed Limit of Detection

MS Tune Report

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112002b.D
Injection Date: 12-Nov-2013 17:21:30 Instrument ID: HP83
Lims ID: DFTPP Lab Sample ID:
Client ID:
Operator ID: HP83 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: 8270HP83 Limit Group: MSS 8270C ICAL
Tune Method: DFTPP Method 8270

172 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	31.00
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Present	47.30
70	Less than 2.00% of mass 69	0.10 (0.30)
127	40.00 - 60.00% of mass 198	45.30
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.00
275	10.00 - 30.00% of mass 198	28.30
365	Greater than 1.00% of mass 198	3.10
441	Present, but less than mass 443%	9.90 (79.20)
442	Greater than 40.00% of mass 198	61.00
443	17.00 - 23.00% of mass 442	12.50 (20.40)

Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112002b.D\8270HP83.rslt\spectra.d
Injection Date: 12-Nov-2013 17:21:30
Spectrum: Tune Spec: Scans 409-412(5.01-5.02) Bgrd 405(4.99)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 304

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	47	129.00	22040	207.00	4146	292.00	138
48.00	31	130.00	1976	208.00	1166	293.00	603
49.00	408	131.00	337	209.00	384	294.00	130
50.00	10706	132.00	216	210.00	379	296.00	8764
51.00	36168	133.00	116	211.00	1287	297.00	1253
52.00	1942	134.00	734	212.00	114	298.00	95
53.00	31	135.00	1897	213.00	29	300.00	27
55.00	312	136.00	705	214.00	34	302.00	168
56.00	1347	137.00	875	215.00	449	303.00	1019
57.00	2577	138.00	227	216.00	493	304.00	260
58.00	132	139.00	155	217.00	7942	305.00	27
59.00	52	140.00	468	218.00	1066	308.00	163
60.00	28	141.00	2949	219.00	168	309.00	55
61.00	674	142.00	961	221.00	7336	310.00	138
62.00	681	143.00	680	222.00	284	312.00	66
63.00	2010	144.00	232	223.00	2065	313.00	112
64.00	330	145.00	150	224.00	17168	314.00	383
65.00	955	146.00	737	225.00	4304	315.00	919
66.00	90	147.00	1559	226.00	528	316.00	624
67.00	76	148.00	3563	227.00	7478	317.00	60
69.00	55168	149.00	664	228.00	1035	320.00	41
70.00	170	150.00	177	229.00	1351	321.00	229
72.00	43	151.00	409	230.00	212	322.00	112
73.00	227	152.00	227	231.00	671	323.00	2606
74.00	5789	153.00	1031	232.00	94	324.00	586
75.00	8498	154.00	845	233.00	75	325.00	30
76.00	1604	155.00	1668	234.00	446	326.00	48
77.00	54136	156.00	2473	235.00	491	327.00	517
78.00	4016	157.00	416	236.00	361	328.00	256
79.00	4635	158.00	615	237.00	577	329.00	28
80.00	3112	159.00	430	238.00	93	332.00	227
81.00	4033	160.00	1004	239.00	275	333.00	191
82.00	832	161.00	1311	240.00	235	334.00	1696

Report Date: 12-Nov-2013 17:44:15 Chrom Revision: 2.1 15-Oct-2013 07:52:24
Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112002b.D\8270HP83.rslt\spectra.d
Injection Date: 12-Nov-2013 17:21:30
Spectrum: Tune Spec: Scans 409-412(5.01-5.02) Bgrd 405(4.99)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 304

m/z	Y	m/z	Y	m/z	Y	m/z	Y
83.00	923	162.00	440	241.00	445	335.00	457
84.00	196	163.00	48	242.00	995	336.00	32
85.00	977	164.00	82	243.00	526	341.00	303
86.00	1265	165.00	1259	244.00	13282	342.00	65
87.00	479	166.00	982	245.00	1964	346.00	470
88.00	223	167.00	5834	246.00	2479	347.00	72
89.00	46	168.00	2384	247.00	503	351.00	33
91.00	1012	169.00	451	248.00	126	352.00	682
92.00	1191	170.00	234	249.00	484	353.00	619
93.00	6861	171.00	272	250.00	132	354.00	869
94.00	469	172.00	615	251.00	96	355.00	188
95.00	121	173.00	668	252.00	123	359.00	29
96.00	336	174.00	1264	253.00	380	365.00	3603
97.00	86	175.00	2079	255.00	68208	366.00	535
98.00	5653	176.00	820	256.00	9873	370.00	28
99.00	3924	177.00	1301	257.00	872	371.00	150
100.00	423	178.00	268	258.00	3861	372.00	1244
101.00	2077	179.00	4125	259.00	644	373.00	330
102.00	152	180.00	2958	260.00	97	374.00	25
103.00	750	181.00	1204	261.00	139	377.00	66
104.00	1531	182.00	269	264.00	85	383.00	256
105.00	1486	183.00	179	265.00	1717	384.00	110
106.00	286	184.00	305	266.00	332	390.00	127
107.00	15853	185.00	2219	267.00	53	391.00	141
108.00	2561	186.00	16688	270.00	102	392.00	70
110.00	29232	187.00	4568	271.00	187	397.00	25
111.00	4794	188.00	448	272.00	247	401.00	40
112.00	577	189.00	1292	273.00	2322	402.00	475
113.00	144	190.00	173	274.00	5864	403.00	678
114.00	46	191.00	561	275.00	33032	404.00	222
115.00	64	192.00	1312	276.00	4400	420.00	42
116.00	483	193.00	1504	277.00	3072	421.00	558
117.00	14106	194.00	353	278.00	435	422.00	556
118.00	1051	196.00	4346	279.00	83	423.00	4037

Report Date: 12-Nov-2013 17:44:15 Chrom Revision: 2.1 15-Oct-2013 07:52:24
Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112002b.D\8270HP83.rslt\spectra.d
Injection Date: 12-Nov-2013 17:21:30
Spectrum: Tune Spec: Scans 409-412(5.01-5.02) Bgrd 405(4.99)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 304

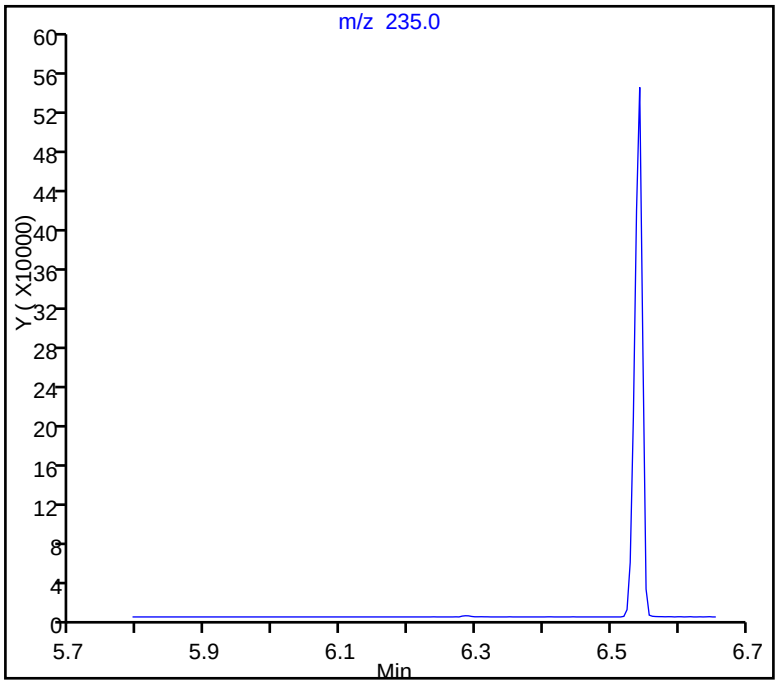
m/z	Y	m/z	Y	m/z	Y	m/z	Y
119.00	118	198.00	116680	281.00	25	424.00	756
120.00	215	199.00	8171	282.00	136	425.00	62
121.00	61	200.00	615	283.00	271	429.00	25
122.00	1303	201.00	814	284.00	153	438.00	68
123.00	1840	202.00	214	285.00	424	439.00	191
124.00	829	203.00	1062	286.00	133	441.00	11507
125.00	680	204.00	4270	289.00	120	442.00	71160
127.00	52864	205.00	7598	290.00	27	443.00	14534
128.00	4507	206.00	31088	291.00	26	444.00	1250

Breakdown Report

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112002b.D
Injection Date: 12-Nov-2013 17:21:30 Instrument ID: HP83
Lims ID: DFTPP Lab Sample ID:
Client ID:
Operator ID: HP83 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: 8270HP83 Limit Group: MSS 8270C ICAL

176 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

176 4,4'-DDT, Area = 433214
174 4,4'-DDE, Area = 0
175 4,4'-DDD, Area = 1085

%Breakdown: 0.25%, Max Limit: 30.00%
Passed

Peak Tailing Report

TestAmerica Nashville

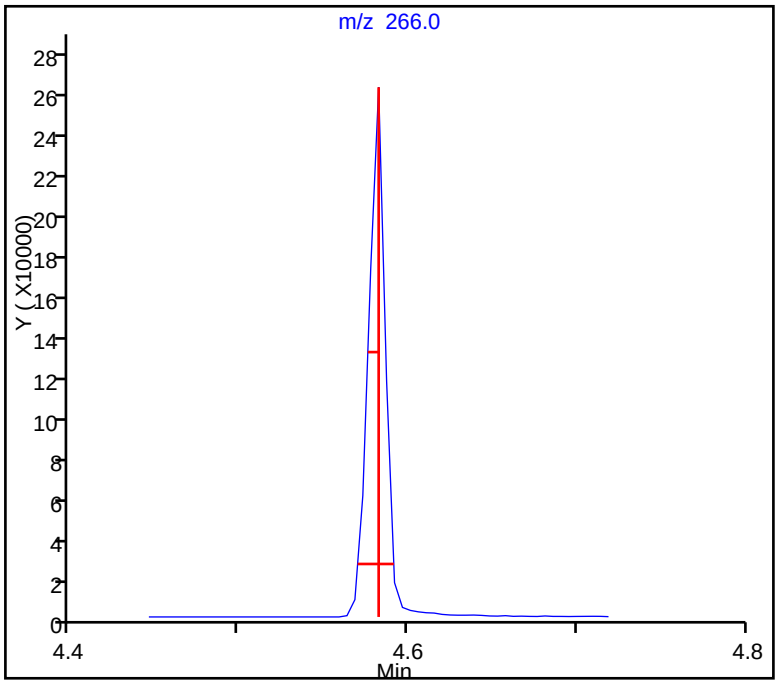
Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112002b.D
Injection Date: 12-Nov-2013 17:21:30 Instrument ID: HP83
Lims ID: DFTPP Lab Sample ID:
Client ID:
Operator ID: HP83 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: 8270HP83 Limit Group: MSS 8270C ICAL

171 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.009 (min.)
Front Width = 0.012 (min.)

Tailing Factor = 0.7, Max. Tailing < 5.00
Passed



Peak Tailing Report

TestAmerica Nashville

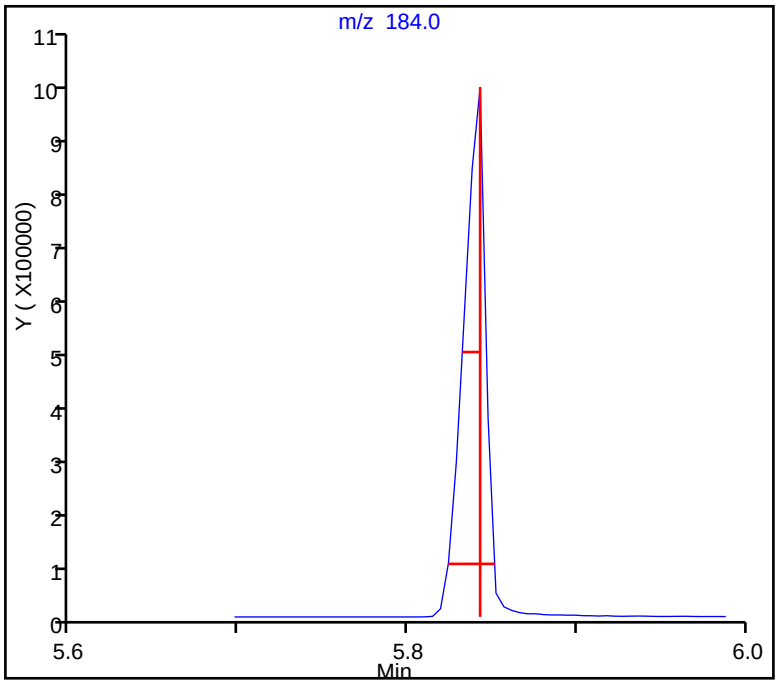
Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112002b.D
Injection Date: 12-Nov-2013 17:21:30 Instrument ID: HP83
Lims ID: DFTPP Lab Sample ID:
Client ID:
Operator ID: HP83 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: 8270HP83 Limit Group: MSS 8270C ICAL

173 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.009 (min.)
Front Width = 0.019 (min.)

Tailing Factor = 0.5, Max. Tailing < 3.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-121117/1-A

Matrix: Water | Lab File ID: 1112004.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:14

Sample wt/vol: 1000(mL) | Date Analyzed: 11/12/2013 18:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		2.00	0.366
208-96-8	Acenaphthylene	ND		2.00	0.330
98-86-2	Acetophenone	ND		10.0	1.90
120-12-7	Anthracene	ND		2.00	0.883
1912-24-9	Atrazine	ND		10.0	3.70
100-52-7	Benzaldehyde	ND		10.0	2.15
56-55-3	Benzo[a]anthracene	ND		2.00	0.324
50-32-8	Benzo[a]pyrene	ND		2.00	0.330
205-99-2	Benzo[b]fluoranthene	ND		2.00	0.422
191-24-2	Benzo[g,h,i]perylene	ND		2.00	0.287
207-08-9	Benzo[k]fluoranthene	ND		2.00	0.364
92-52-4	Biphenyl	ND		10.0	3.33
111-91-1	Bis(2-chloroethoxy)methane	ND		10.0	1.36
111-44-4	Bis(2-chloroethyl)ether	ND		10.0	1.39
108-60-1	bis (2-chloroisopropyl) ether	ND		10.0	1.96
117-81-7	Bis(2-ethylhexyl) phthalate	ND		10.0	2.06
101-55-3	4-Bromophenyl phenyl ether	ND		10.0	1.37
85-68-7	Butyl benzyl phthalate	ND		10.0	1.74
105-60-2	Caprolactam	ND		10.0	3.33
86-74-8	Carbazole	ND		10.0	0.299
106-47-8	4-Chloroaniline	ND		10.0	1.17
59-50-7	4-Chloro-3-methylphenol	ND		10.0	3.33
91-58-7	2-Chloronaphthalene	ND		10.0	1.64
95-57-8	2-Chlorophenol	ND		10.0	1.59
7005-72-3	4-Chlorophenyl phenyl ether	ND		10.0	1.75
218-01-9	Chrysene	ND		2.00	1.09
53-70-3	Dibenz(a,h)anthracene	ND		2.00	0.644
132-64-9	Dibenzofuran	ND		10.0	0.339
91-94-1	3,3'-Dichlorobenzidine	ND		10.0	1.52
120-83-2	2,4-Dichlorophenol	ND		10.0	1.02
84-66-2	Diethyl phthalate	ND		10.0	1.62
105-67-9	2,4-Dimethylphenol	ND		10.0	0.996
131-11-3	Dimethyl phthalate	ND		10.0	1.81
84-74-2	Di-n-butyl phthalate	ND		10.0	1.50

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-121117/1-A

Matrix: Water | Lab File ID: 1112004.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:14

Sample wt/vol: 1000(mL) | Date Analyzed: 11/12/2013 18:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
534-52-1	4,6-Dinitro-2-methylphenol	ND		25.0	2.07
51-28-5	2,4-Dinitrophenol	ND		25.0	2.46
121-14-2	2,4-Dinitrotoluene	ND		10.0	3.33
606-20-2	2,6-Dinitrotoluene	ND		10.0	1.94
117-84-0	Di-n-octyl phthalate	ND		10.0	2.31
206-44-0	Fluoranthene	ND		2.00	0.347
86-73-7	Fluorene	ND		2.00	0.316
118-74-1	Hexachlorobenzene	ND		10.0	1.69
87-68-3	Hexachlorobutadiene	ND		10.0	3.33
77-47-4	Hexachlorocyclopentadiene	ND		10.0	3.33
67-72-1	Hexachloroethane	ND		10.0	3.33
193-39-5	Indeno[1,2,3-cd]pyrene	ND		2.00	0.381
78-59-1	Isophorone	ND		10.0	1.24
91-57-6	2-Methylnaphthalene	ND		2.00	0.311
95-48-7	2-Methylphenol	ND		10.0	3.33
15831-10-4	3 & 4 Methylphenol	ND		10.0	3.33
91-20-3	Naphthalene	ND		2.00	0.398
88-74-4	2-Nitroaniline	ND		25.0	1.04
99-09-2	3-Nitroaniline	ND		25.0	1.85
100-01-6	4-Nitroaniline	ND		25.0	2.39
98-95-3	Nitrobenzene	ND		10.0	1.24
88-75-5	2-Nitrophenol	ND		10.0	1.57
100-02-7	4-Nitrophenol	ND		25.0	3.33
621-64-7	N-Nitrosodi-n-propylamine	ND		10.0	1.42
86-30-6	n-Nitrosodiphenylamine(as diphenylamine)	ND		10.0	1.44
87-86-5	Pentachlorophenol	ND		25.0	1.65
85-01-8	Phenanthrene	ND		2.00	0.343
108-95-2	Phenol	ND		10.0	3.45
129-00-0	Pyrene	ND		2.00	0.331
95-95-4	2,4,5-Trichlorophenol	ND		25.0	2.03
88-06-2	2,4,6-Trichlorophenol	ND		10.0	1.76

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-121117/1-A

Matrix: Water | Lab File ID: 1112004.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:14

Sample wt/vol: 1000(mL) | Date Analyzed: 11/12/2013 18:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	62		29-120
367-12-4	2-Fluorophenol (Surr)	10		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	66		27-120
4165-62-2	Phenol-d5 (Surr)	18		10-120
1718-51-0	Terphenyl-d14 (Surr)	81		13-120
118-79-6	2,4,6-Tribromophenol (Surr)	16		10-120

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112004.D
Lims ID: MB 490-121117/1-A Lab Sample ID: MB 490-121117/1-A
Client ID:
Sample Type: MB
Inject. Date: 12-Nov-2013 18:12:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: MB 490-121117/1-A
Misc. Info.: 490-0028283-004
Operator ID: HP83 Instrument ID: HP83

Method: \\Nvlchrom\ChromData\HP83\20131112-28283.b\8270HP83.m
Limit Group: MSS 8270C ICAL
Last Update: 13-Nov-2013 08:46:25 Calib Date: 24-Oct-2013 15:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D

Column 1 : Detector MS SCAN
Process Host: XAWRK019

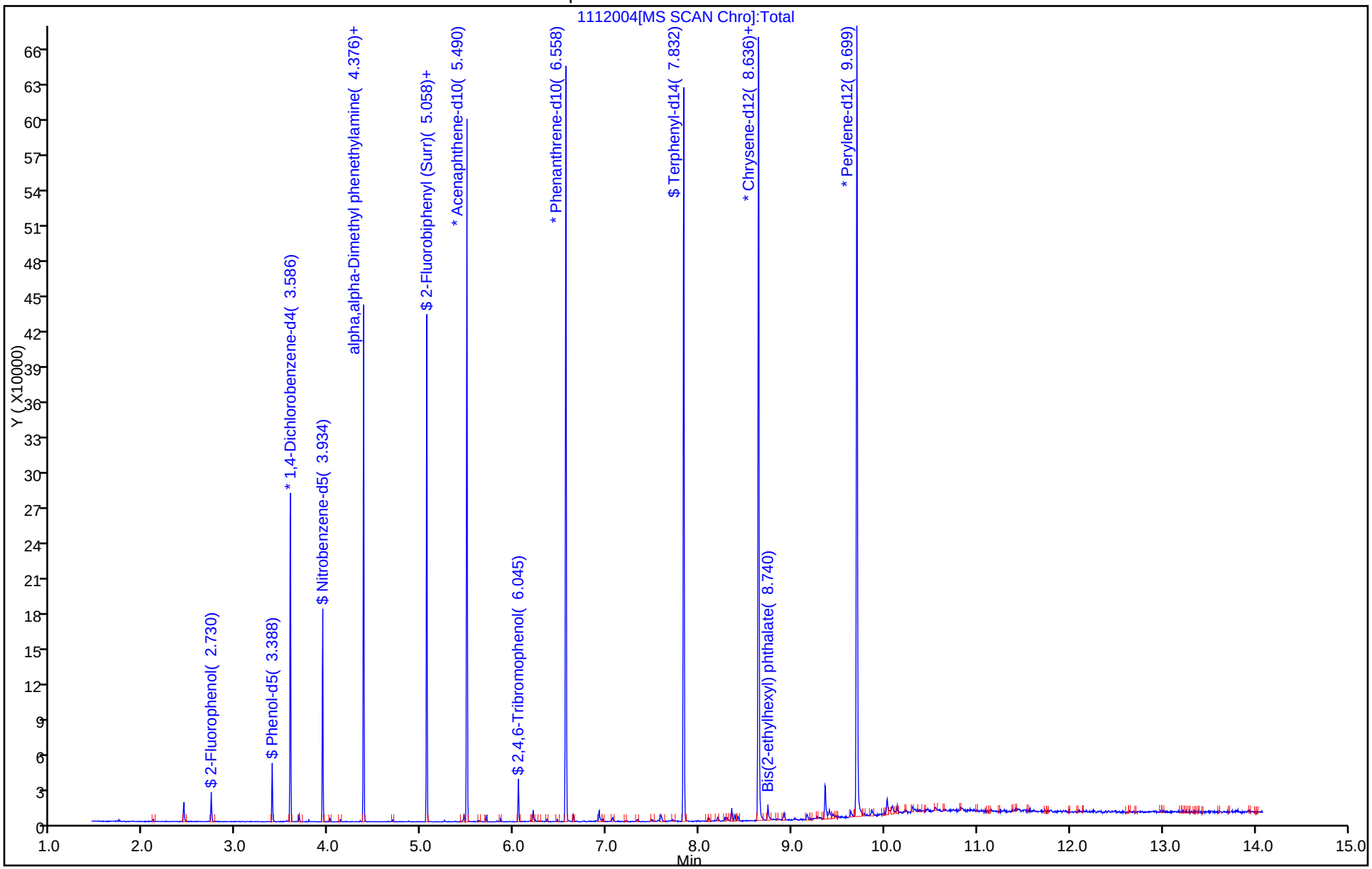
First Level Reviewer: salomonb Date: 13-Nov-2013 11:17:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.586	3.586	0.0	95	31208	40.0	
$ 21 2-Fluorophenol	112	2.730	2.730	0.0	82	4627	5.03	
$ 22 Phenol-d5	99	3.388	3.389	-0.001	0	11285	8.98	
* 37 Naphthalene-d8	136	4.376	4.376	0.0	99	123270	40.0	
$ 49 Nitrobenzene-d5	82	3.934	3.934	0.0	85	37652	32.8	
44 alpha,alpha-Dimethyl phenethylam	58	4.376	4.381	-0.005	11	149	0	
* 69 Acenaphthene-d10	164	5.490	5.490	0.0	93	85321	40.0	
$ 83 2-Fluorobiphenyl (Surr)	172	5.058	5.058	0.0	99	84227	31.1	
* 102 Phenanthrene-d10	188	6.558	6.558	0.0	97	168920	40.0	
$ 127 2,4,6-Tribromophenol	330	6.045	6.050	-0.005	76	3088	8.00	
* 136 Chrysene-d12	240	8.641	8.641	0.0	81	224845	40.0	
$ 147 Terphenyl-d14	244	7.832	7.828	0.004	95	169365	40.5	
155 Bis(2-ethylhexyl) phthalate	149	8.740	8.740	0.0	86	3029	1.02	
* 156 Perylene-d12	264	9.699	9.699	0.0	81	225855	40.0	

Report Date: 13-Nov-2013 11:17:50 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP83\20131112-28283.b\1112004.D				
Injection Date:	12-Nov-2013 18:12:30	Instrument ID:	HP83	Operator ID:	HP83
Lims ID:	MB 490-121117/1-A	Lab Sample ID:	MB 490-121117/1-A	Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8270HP83	Limit Group:	MSS 8270C ICAL		



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-121117/2-A

Matrix: Water | Lab File ID: 1112005.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:14

Sample wt/vol: 1000(mL) | Date Analyzed: 11/12/2013 18:34

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	38.57		2.00	0.366
208-96-8	Acenaphthylene	37.66		2.00	0.330
98-86-2	Acetophenone	34.97		10.0	1.90
120-12-7	Anthracene	39.10		2.00	0.883
1912-24-9	Atrazine	38.51		10.0	3.70
100-52-7	Benzaldehyde	72.54		10.0	2.15
56-55-3	Benzo[a]anthracene	40.15		2.00	0.324
50-32-8	Benzo[a]pyrene	39.50		2.00	0.330
205-99-2	Benzo[b]fluoranthene	37.66		2.00	0.422
191-24-2	Benzo[g,h,i]perylene	39.54		2.00	0.287
207-08-9	Benzo[k]fluoranthene	41.78		2.00	0.364
92-52-4	Biphenyl	34.23		10.0	3.33
111-91-1	Bis(2-chloroethoxy)methane	34.07		10.0	1.36
111-44-4	Bis(2-chloroethyl)ether	33.27		10.0	1.39
108-60-1	bis (2-chloroisopropyl) ether	24.96		10.0	1.96
117-81-7	Bis(2-ethylhexyl) phthalate	42.15		10.0	2.06
101-55-3	4-Bromophenyl phenyl ether	39.47		10.0	1.37
85-68-7	Butyl benzyl phthalate	42.65		10.0	1.74
105-60-2	Caprolactam	11.47		10.0	3.33
86-74-8	Carbazole	39.48		10.0	0.299
106-47-8	4-Chloroaniline	31.54		10.0	1.17
59-50-7	4-Chloro-3-methylphenol	37.43		10.0	3.33
91-58-7	2-Chloronaphthalene	34.66		10.0	1.64
95-57-8	2-Chlorophenol	31.23		10.0	1.59
7005-72-3	4-Chlorophenyl phenyl ether	38.44		10.0	1.75
218-01-9	Chrysene	41.84		2.00	1.09
53-70-3	Dibenz(a,h)anthracene	39.26		2.00	0.644
132-64-9	Dibenzofuran	38.00		10.0	0.339
91-94-1	3,3'-Dichlorobenzidine	33.04		10.0	1.52
120-83-2	2,4-Dichlorophenol	36.86		10.0	1.02
84-66-2	Diethyl phthalate	39.70		10.0	1.62
105-67-9	2,4-Dimethylphenol	28.25		10.0	0.996
131-11-3	Dimethyl phthalate	40.08		10.0	1.81
84-74-2	Di-n-butyl phthalate	40.84		10.0	1.50

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-121117/2-A

Matrix: Water | Lab File ID: 1112005.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:14

Sample wt/vol: 1000(mL) | Date Analyzed: 11/12/2013 18:34

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
534-52-1	4,6-Dinitro-2-methylphenol	80.88		25.0	2.07
51-28-5	2,4-Dinitrophenol	84.66		25.0	2.46
121-14-2	2,4-Dinitrotoluene	41.08		10.0	3.33
606-20-2	2,6-Dinitrotoluene	42.78		10.0	1.94
117-84-0	Di-n-octyl phthalate	43.70		10.0	2.31
206-44-0	Fluoranthene	40.87		2.00	0.347
86-73-7	Fluorene	38.94		2.00	0.316
118-74-1	Hexachlorobenzene	40.13		10.0	1.69
87-68-3	Hexachlorobutadiene	17.45		10.0	3.33
77-47-4	Hexachlorocyclopentadiene	24.86		10.0	3.33
67-72-1	Hexachloroethane	15.45		10.0	3.33
193-39-5	Indeno[1,2,3-cd]pyrene	39.07		2.00	0.381
78-59-1	Isophorone	38.46		10.0	1.24
91-57-6	2-Methylnaphthalene	28.73		2.00	0.311
95-48-7	2-Methylphenol	30.18		10.0	3.33
15831-10-4	3 & 4 Methylphenol	28.46		10.0	3.33
91-20-3	Naphthalene	25.10		2.00	0.398
88-74-4	2-Nitroaniline	43.70		25.0	1.04
99-09-2	3-Nitroaniline	39.98		25.0	1.85
100-01-6	4-Nitroaniline	41.75		25.0	2.39
98-95-3	Nitrobenzene	33.77		10.0	1.24
88-75-5	2-Nitrophenol	35.33		10.0	1.57
100-02-7	4-Nitrophenol	32.71		25.0	3.33
621-64-7	N-Nitrosodi-n-propylamine	36.53		10.0	1.42
86-30-6	n-Nitrosodiphenylamine(as diphenylamine)	48.36		10.0	1.44
87-86-5	Pentachlorophenol	82.42		25.0	1.65
85-01-8	Phenanthrene	39.23		2.00	0.343
108-95-2	Phenol	14.49		10.0	3.45
129-00-0	Pyrene	40.64		2.00	0.331
95-95-4	2,4,5-Trichlorophenol	40.28		25.0	2.03
88-06-2	2,4,6-Trichlorophenol	40.52		10.0	1.76

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39536-2

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-121117/2-A

Matrix: Water | Lab File ID: 1112005.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:14

Sample wt/vol: 1000(mL) | Date Analyzed: 11/12/2013 18:34

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	71		29-120
367-12-4	2-Fluorophenol (Surr)	41		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	69		27-120
4165-62-2	Phenol-d5 (Surr)	27		10-120
1718-51-0	Terphenyl-d14 (Surr)	78		13-120
118-79-6	2,4,6-Tribromophenol (Surr)	82		10-120

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112005.D
Lims ID: LCS 490-121117/2-A Lab Sample ID: LCS 490-121117/2-A
Client ID:
Sample Type: LCS
Inject. Date: 12-Nov-2013 18:34:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: LCS 490-121117/2-A
Misc. Info.: 490-0028283-005
Operator ID: HP83 Instrument ID: HP83

Method: \\Nvlchrom\ChromData\HP83\20131112-28283.b\8270HP83.m
Limit Group: MSS 8270C ICAL
Last Update: 13-Nov-2013 11:18:44 Calib Date: 24-Oct-2013 15:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D

Column 1 : Detector MS SCAN
Process Host: XAWRK019

First Level Reviewer: salomonb Date: 13-Nov-2013 11:18:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.581	3.586	-0.005	97	30801	40.0	
19 N-Nitrosodimethylamine	74	1.484	1.484	0.0	78	13593	23.5	
20 Pyridine	52	1.522	1.512	0.010	90	7243	15.4	
$ 21 2-Fluorophenol	112	2.730	2.730	0.0	85	18452	20.3	
3 Benzaldehyde	105	3.299	3.299	0.0	92	27595	72.5	
23 Aniline	93	3.374	3.374	0.0	94	23286	15.1	
$ 22 Phenol-d5	99	3.388	3.389	-0.001	0	16894	13.6	
24 Phenol	94	3.393	3.398	-0.005	94	19116	14.5	
25 Bis(2-chloroethyl)ether	93	3.431	3.431	0.0	98	32185	33.3	
26 2-Chlorophenol	128	3.450	3.454	-0.004	95	32348	31.2	
6 n-Decane	57	3.511	3.511	-0.023	90	10231	13.7	
27 1,3-Dichlorobenzene	146	3.544	3.544	0.0	97	20698	17.7	
28 1,4-Dichlorobenzene	146	3.595	3.595	0.0	81	21020	17.5	
30 1,2-Dichlorobenzene	146	3.689	3.690	-0.001	90	21747	18.5	
29 Benzyl alcohol	108	3.685	3.690	-0.005	88	22121	31.1	
12 Indene	115	3.746	3.746	0.0	71	39262	21.8	
31 2-Methylphenol	108	3.774	3.774	0.0	95	28954	30.2	
32 2,2'-oxybis[1-chloropropane]	45	3.774	3.779	-0.005	89	18103	25.0	
17 Acetophenone	105	3.845	3.845	-0.001	92	54481	35.0	
33 N-Nitrosodi-n-propylamine	70	3.854	3.859	-0.005	85	32509	36.5	
35 3 & 4 Methylphenol	108	3.873	3.873	0.0	0	28846	28.5	
36 Hexachloroethane	117	3.896	3.896	0.0	95	7043	15.5	
* 37 Naphthalene-d8	136	4.376	4.376	0.0	99	132428	40.0	
$ 49 Nitrobenzene-d5	82	3.934	3.934	0.0	84	42558	34.5	
50 Nitrobenzene	77	3.943	3.943	0.0	83	42999	33.8	
51 Isophorone	82	4.098	4.103	-0.005	97	83619	38.5	
52 2-Nitrophenol	139	4.145	4.146	-0.001	96	22120	35.3	
53 2,4-Dimethylphenol	107	4.192	4.193	-0.001	96	34510	28.2	
54 Bis(2-chloroethoxy)methane	93	4.249	4.249	0.0	98	44001	34.1	
55 Benzoic acid	105	4.268	4.277	-0.009	84	31159	31.3	
56 2,4-Dichlorophenol	162	4.301	4.301	0.0	91	38259	36.9	

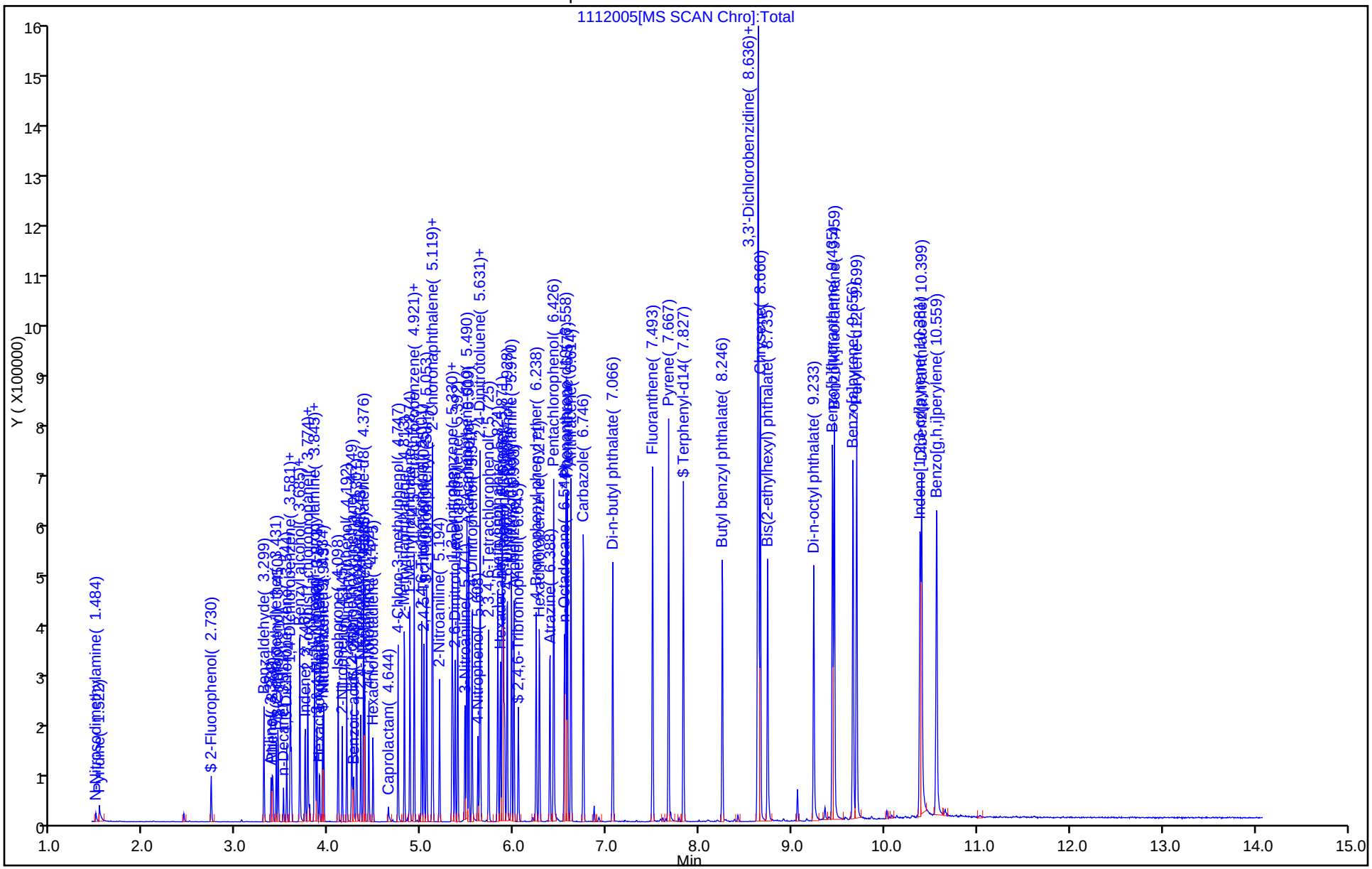
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
57 1,2,4-Trichlorobenzene	180	4.343	4.348	-0.005	90	24554	22.1	
58 Naphthalene	128	4.385	4.390	-0.005	98	81667	25.1	
59 4-Chloroaniline	127	4.432	4.432	0.0	93	44141	31.5	
60 Hexachlorobutadiene	225	4.475	4.480	-0.005	94	12125	17.4	
42 Caprolactam	113	4.644	4.653	-0.009	84	4636	11.5	
61 4-Chloro-3-methylphenol	107	4.747	4.748	-0.001	90	43453	37.4	
62 2-Methylnaphthalene	142	4.813	4.818	-0.005	83	70265	28.7	
64 1-Methylnaphthalene	142	4.874	4.875	0.0	81	68423	30.1	
47 1,2,4,5-Tetrachlorobenzene	216	4.921	4.922	-0.001	97	40069	31.2	
170 1,1'-Biphenyl	154	5.114	5.119	-0.005	96	105131	34.2	
* 69 Acenaphthene-d10	164	5.490	5.490	0.0	92	89607	40.0	
80 Hexachlorocyclopentadiene	237	4.921	4.922	-0.001	68	16040	24.9	
81 2,4,6-Trichlorophenol	196	5.001	5.001	0.0	91	32005	40.5	
82 2,4,5-Trichlorophenol	196	5.025	5.030	-0.005	95	35085	40.3	
$ 83 2-Fluorobiphenyl (Surr)	172	5.058	5.058	0.0	99	100739	35.4	
84 2-Chloronaphthalene	162	5.124	5.124	0.0	97	80905	34.7	
85 2-Nitroaniline	65	5.194	5.194	0.0	82	30672	43.7	
86 Dimethyl phthalate	163	5.330	5.331	-0.001	98	115145	40.1	
76 1,3-Dinitrobenzene	168	5.340	5.340	0.0	88	20558	40.1	
87 2,6-Dinitrotoluene	165	5.363	5.364	-0.001	89	28326	42.8	
88 Acenaphthylene	152	5.392	5.392	0.0	91	138722	37.7	
89 3-Nitroaniline	138	5.471	5.472	-0.001	97	27796	40.0	
90 Acenaphthene	153	5.509	5.514	-0.005	94	96456	38.6	
91 2,4-Dinitrophenol	184	5.547	5.547	0.0	85	42929	84.7	
92 4-Nitrophenol	65	5.608	5.613	-0.005	96	20263	32.7	
94 Dibenzofuran	168	5.631	5.632	-0.001	85	136112	38.0	
93 2,4-Dinitrotoluene	165	5.636	5.636	0.0	76	39035	41.1	
77 2,3,4,6-Tetrachlorophenol	232	5.725	5.726	-0.001	67	33226	40.8	
95 Diethyl phthalate	149	5.824	5.824	0.0	97	113814	39.7	
197 Hexadecane	57	5.852	5.853	-0.001	0	40497	36.5	
96 Fluorene	166	5.871	5.871	0.0	76	116887	38.9	
97 4-Chlorophenyl phenyl ether	204	5.885	5.885	0.0	87	59560	38.4	
98 4-Nitroaniline	138	5.895	5.900	-0.005	78	29585	41.7	
99 Azobenzene	77	5.998	5.998	0.0	97	117349	41.4	
* 102 Phenanthrene-d10	188	6.558	6.558	0.0	95	182106	40.0	
125 4,6-Dinitro-2-methylphenol	198	5.928	5.928	0.0	94	57910	80.9	
126 N-Nitrosodiphenylamine	169	5.970	5.975	-0.005	60	90410	48.4	
$ 127 2,4,6-Tribromophenol	330	6.045	6.050	-0.005	92	17075	41.1	
128 4-Bromophenyl phenyl ether	248	6.238	6.238	0.0	60	38331	39.5	
129 Hexachlorobenzene	284	6.276	6.276	0.0	93	39543	40.1	
168 Atrazine	200	6.388	6.389	-0.001	90	37109	38.5	
130 Pentachlorophenol	266	6.426	6.431	-0.005	90	59215	82.4	
115 n-Octadecane	57	6.544	6.544	-0.023	91	46145	38.2	
131 Phenanthrene	178	6.577	6.577	-0.001	96	183014	39.2	
132 Anthracene	178	6.614	6.614	0.0	97	184986	39.1	
133 Carbazole	167	6.746	6.751	-0.005	83	179110	39.5	
134 Di-n-butyl phthalate	149	7.066	7.066	0.0	100	203652	40.8	
135 Fluoranthene	202	7.493	7.498	-0.005	98	229609	40.9	
* 136 Chrysene-d12	240	8.641	8.641	0.0	80	248070	40.0	
152 Pyrene	202	7.667	7.668	-0.001	97	235781	40.6	
$ 147 Terphenyl-d14	244	7.827	7.828	-0.001	96	179244	38.8	
149 Butyl benzyl phthalate	149	8.246	8.251	-0.005	97	100278	42.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
153 Benzo[a]anthracene	228	8.631	8.632	-0.001	99	252641	40.1	
151 3,3'-Dichlorobenzidine	252	8.636	8.636	0.0	67	70869	33.0	
154 Chrysene	228	8.660	8.660	0.0	90	246547	41.8	
155 Bis(2-ethylhexyl) phthalate	149	8.735	8.740	-0.005	96	138704	42.2	
* 156 Perylene-d12	264	9.699	9.699	0.0	87	251528	40.0	
158 Di-n-octyl phthalate	149	9.233	9.238	-0.005	99	246572	43.7	
159 Benzo[b]fluoranthene	252	9.435	9.440	-0.005	91	250309	37.7	
160 Benzo[k]fluoranthene	252	9.459	9.459	0.0	99	299806	41.8	
161 Benzo[a]pyrene	252	9.656	9.661	-0.005	76	246515	39.5	
162 Indeno[1,2,3-cd]pyrene	276	10.381	10.386	-0.005	95	288414	39.1	
163 Dibenz(a,h)anthracene	278	10.399	10.404	-0.005	88	242546	39.3	
164 Benzo[g,h,i]perylene	276	10.564	10.569	-0.005	94	251271	39.5	

Report Date: 13-Nov-2013 11:18:44 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP83\20131112-28283.b\1112005.D				
Injection Date:	12-Nov-2013 18:34:30	Instrument ID:	HP83	Operator ID:	HP83
Lims ID:	LCS 490-121117/2-A	Lab Sample ID:	LCS 490-121117/2-A	Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8270HP83	Limit Group:	MSS 8270C ICAL		



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Instrument ID: HP83 Start Date: 10/24/2013 13:34

Analysis Batch Number: 116774 End Date: 10/24/2013 22:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 490-116774/2		10/24/2013 13:34	1	1022002.D	ZB-5MSi 0.25(mm)
STD1 490-116774/3 IC		10/24/2013 13:51	1	1022003.D	ZB-5MSi 0.25(mm)
STD2 490-116774/4 IC		10/24/2013 14:14	1	1022004.D	ZB-5MSi 0.25(mm)
STD3 490-116774/5 IC		10/24/2013 14:36	1	1022005.D	ZB-5MSi 0.25(mm)
ICIS 490-116774/6		10/24/2013 14:59	1	1022006.D	ZB-5MSi 0.25(mm)
STD5 490-116774/7 IC		10/24/2013 15:21	1	1022007.D	ZB-5MSi 0.25(mm)
STD6 490-116774/8 IC		10/24/2013 15:44	1	1022008.D	ZB-5MSi 0.25(mm)
ICV 490-116774/9		10/24/2013 16:06	1	1022009.D	ZB-5MSi 0.25(mm)
ICB 490-116774/10		10/24/2013 16:29	1		ZB-5MSi 0.25(mm)
ZZZZZ		10/24/2013 20:13	1		ZB-5MSi 0.25(mm)
ZZZZZ		10/24/2013 20:35	1		ZB-5MSi 0.25(mm)
ZZZZZ		10/24/2013 20:57	1		ZB-5MSi 0.25(mm)
ZZZZZ		10/24/2013 21:20	1		ZB-5MSi 0.25(mm)
ZZZZZ		10/24/2013 21:42	1		ZB-5MSi 0.25(mm)
ZZZZZ		10/24/2013 22:04	1		ZB-5MSi 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Instrument ID: HP83 Start Date: 11/12/2013 17:21

Analysis Batch Number: 121257 End Date: 11/13/2013 03:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 490-121257/2		11/12/2013 17:21	1	1112002b.D	ZB-5MSi 0.25(mm)
CCVIS 490-121257/3		11/12/2013 17:37	1	1112003b.D	ZB-5MSi 0.25(mm)
MB 490-121117/1-A		11/12/2013 18:12	1	1112004.D	ZB-5MSi 0.25(mm)
LCS 490-121117/2-A		11/12/2013 18:34	1	1112005.D	ZB-5MSi 0.25(mm)
490-39536-1	MW-01A-GW-001	11/12/2013 18:56	1	1112006.D	ZB-5MSi 0.25(mm)
490-39536-3	MW-01B-GW-001	11/12/2013 19:19	1	1112007.D	ZB-5MSi 0.25(mm)
490-39536-5	MW-02A-GW-001	11/12/2013 19:41	1	1112008.D	ZB-5MSi 0.25(mm)
490-39536-7	MW-02B-GW-001	11/12/2013 20:03	1	1112009.D	ZB-5MSi 0.25(mm)
ZZZZZ		11/12/2013 20:25	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/12/2013 20:47	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/12/2013 21:10	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/12/2013 21:32	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/12/2013 21:54	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/12/2013 22:15	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/12/2013 22:38	5		ZB-5MSi 0.25(mm)
ZZZZZ		11/12/2013 23:00	5		ZB-5MSi 0.25(mm)
ZZZZZ		11/12/2013 23:22	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/12/2013 23:43	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/13/2013 00:05	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/13/2013 00:28	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/13/2013 01:12	2		ZB-5MSi 0.25(mm)
ZZZZZ		11/13/2013 01:34	2		ZB-5MSi 0.25(mm)
ZZZZZ		11/13/2013 01:56	2		ZB-5MSi 0.25(mm)
ZZZZZ		11/13/2013 02:18	2		ZB-5MSi 0.25(mm)
ZZZZZ		11/13/2013 02:41	2		ZB-5MSi 0.25(mm)
ZZZZZ		11/13/2013 03:03	2		ZB-5MSi 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Nashville Job No.: 490-39536-2

SDG No.:

Batch Number: 121117 Batch Start Date: 11/12/13 07:14 Batch Analyst: Rognstad, Laurel

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	InitialAmount	FinalAmount	FirstAdjustpH	SecondAdjustpH	BNA ICV_MIX1 00009
MB 490-121117/1		3510C, 8270C		7	1000 mL	1 mL	2	14	
LCS 490-121117/2		3510C, 8270C		7	1000 mL	1 mL	2	14	0.5 mL
490-39536-T-1	MW-01A-GW-001	3510C, 8270C	T	7	1060 mL	1 mL	2	14	
490-39536-T-3	MW-01B-GW-001	3510C, 8270C	T	7	1060 mL	1 mL	2	14	
490-39536-T-5	MW-02A-GW-001	3510C, 8270C	T	7	1060 mL	1 mL	2	14	
490-39536-V-7	MW-02B-GW-001	3510C, 8270C	T	7	1060 mL	1 mL	2	14	

Lab Sample ID	Client Sample ID	Method Chain	Basis	OP_1:1 Sulfur 00003	OP_BNA_Surr 00011	OP_MeCl2 00019	OP_NaOH 00006	OP_NaSO4 00016	
MB 490-121117/1		3510C, 8270C		3 mL	1 mL	360 mL	15 mL	25 g	
LCS 490-121117/2		3510C, 8270C		3 mL	1 mL	360 mL	15 mL	25 g	
490-39536-T-1	MW-01A-GW-001	3510C, 8270C	T	3 mL	1 mL	360 mL	15 mL	25 g	
490-39536-T-3	MW-01B-GW-001	3510C, 8270C	T	3 mL	1 mL	360 mL	15 mL	25 g	
490-39536-T-5	MW-02A-GW-001	3510C, 8270C	T	3 mL	1 mL	360 mL	15 mL	25 g	
490-39536-V-7	MW-02B-GW-001	3510C, 8270C	T	3 mL	1 mL	360 mL	15 mL	25 g	

Batch Notes	
Person's name who did the concentration	LSR MWT
Final Concentrator Volume	1 mL
Person's name who did the prep	LSR
Person's name who witnessed reagent drop	RCH

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-39536 Chain of Custody

Cooler Received/Opened On 11/6/2013 @ 0815

1. Tracking # 1640 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 17960358

2. Temperature of rep. sample or temp blank when opened: 3.9 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? (YES)...NO...NA

If yes, how many and where: 2 front

5. Were the seals intact, signed, and dated correctly? (YES)...NO...NA

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) ELA

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) (Plastic bag) Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? (YES)...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...(NO)...NA

14. Was there a Trip Blank in this cooler? (YES)...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) DA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? (YES)...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used (YES)...NO...NA

16. Was residual chlorine present? YES...(NO)...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) DA

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) DA

I certify that I attached a label with the unique LIMS number to each container (intial) DA

21. Were there Non-Conformance issues at login? (YES)...(NO) Was a NCM generated? (YES)...(NO)...# 89479

DA 11-6-13

BIS = Broken in shipment
Cooler Receipt Form.doc

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

Loc: 490
39536

COOLER RECEIPT FORM

Cooler Received/Opened On 11/6/2013@ 0815

1. Tracking # 1639 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 96210146

2. Temperature of rep. sample or temp blank when opened: 5.5 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? (YES) ..NO...NA

If yes, how many and where: Two on front

5. Were the seals intact, signed, and dated correctly? (YES) ..NO...NA

6. Were custody papers inside cooler? (YES) (NO) ..NA DA 11-6-13

I certify that I opened the cooler and answered questions 1-6 (intial) DA

7. Were custody seals on containers: YES (NO) and Intact YES...NO..(NA)

Were these signed and dated correctly? YES...NO..(NA)

8. Packing mat'l used? (Bubblewrap) (Plastic bag) Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES) ..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES) ..NO...NA

12. Did all container labels and tags agree with custody papers? (YES) ..NO...NA

13a. Were VOA vials received? (YES) ..NO...NA

b. Was there any observable headspace present in any VOA vial? YES..(NO) ..NA

14. Was there a Trip Blank in this cooler? YES..(NO)..NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) DA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? (YES) ..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used (YES) ..NO...NA

16. Was residual chlorine present? YES..(NO) ..NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) DA

17. Were custody papers properly filled out (ink, signed, etc)? (YES) ..NO...NA

18. Did you sign the custody papers in the appropriate place? (YES) ..NO...NA

19. Were correct containers used for the analysis requested? (YES) ..NO...NA

20. Was sufficient amount of sample sent in each container? (YES) ..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) DA

I certify that I attached a label with the unique LIMS number to each container (intial) DA

21. Were there Non-Conformance issues at login? YES..(NO) Was a NCM generated? YES..(NO) #8947 9

DA 11-6-13

BIS = Broken in shipment
Cooler Receipt Form.doc

End of Form

Revised: 11/19/2013

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

Loc: 490
39536

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

11/19/2013

Client Information	Sampler: John Knightly	Lab PM: Connor, Roxanne	Ca	COC No: 490-16687-6964.1
Client Contact: Mariruth Gruis	Phone: 913-522-6370	E-Mail: roxanne.connor@testamericainc.com		Page: Page 1 of 7
Company: Haley & Aldrich, Inc.				Job #:
Address: 11020 King Street Suite 450	Due Date Requested:			
City: Overland Park	TAT Requested (days): normal			
State, Zip: KS, 66210				
Phone: 913-636-3497(Tel)	PO #: Purchase Order Requested			
Email: mgruis@haleyaldrich.com	WO #:			
Project Name: Leeds Facility	Project #: 49003847			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B TCL	8270C TCL Semivolatiles List	Cr+8, SO4, Cl, NO3, NO2, CO2	6020A TCL metals + 7470A Hg	RSK_175 - Methane, Ethane, Ethylene	9060A TOC and DOC	9034 - Sulfide	9012B - Cyanide, Total	8015C_DAI_GLY - Ethylene Glycol	8082A - Standard PCBs (1016-1260)	1010A Flashpoint and 9040C pH	6020A Diss Mn (lab filtered)	6020A Fe & Mn	Total Number of containers	Special Instructions/Note:
				Preservation Code:																		
1	MW-01A-GW-001	11/5/13	0907		Water			X	X	X	X	X	X	X	X	X	X		X	X		
2	MW-01A-GW-001	11/5/13	1702		Water					X												Cr+6
3	MW-01B-GW-001	11/5/13	1145		Water			X	X	X	X	X	X	X	X	X	X		X	X		
4	MW-01B-GW-001	11/5/13	1706		Water					X												Cr+6
5	MW-02A-GW-001	11/5/13	1422		Water			X	X	X	X	X	X	X	X	X	X		X	X		
6	MW-02A-GW-001	11/5/13	1647		Water					X												Cr+6
7	MW-02B-GW-001	11/5/13	1615		Water			X	X	X	X	X	X	X	X	X	X		X	X		Cr+6
					Water																	
8	Trip Blank	—	—	—	Water			X														
					Water																	
					Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	John Knightly	11/5/13, 1915	H+A		11-6-13 0815	TAN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 3.9, 5.5

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 490-39536-2

Login Number: 39536

List Source: TestAmerica Nashville

List Number: 1

Creator: Armstrong, Daniel

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.9C, 5.5C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-39536-1
Client Project/Site: Former Leeds Assembly Plant

For:
Haley & Aldrich, Inc.
11020 King Street
Suite 450
Overland Park, Kansas 66210

Attn: Mariruth Gruis

Roxanne L Connor

Authorized for release by:
11/22/2013 4:20:32 PM

Roxanne Connor, Senior Project Manager
(615)301-5761
roxanne.connor@testamericainc.com

LINKS

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Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39536-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-39536-1	MW-01A-GW-001	Water	11/05/13 09:07	11/06/13 08:15
490-39536-2	MW-01A-GW-001	Water	11/05/13 17:02	11/06/13 08:15
490-39536-3	MW-01B-GW-001	Water	11/05/13 11:45	11/06/13 08:15
490-39536-4	MW-01B-GW-001	Water	11/05/13 17:06	11/06/13 08:15
490-39536-5	MW-02A-GW-001	Water	11/05/13 14:22	11/06/13 08:15
490-39536-6	MW-02A-GW-001	Water	11/05/13 16:47	11/06/13 08:15
490-39536-7	MW-02B-GW-001	Water	11/05/13 16:15	11/06/13 08:15

Job ID: 490-39536-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-39536-1

Comments
No additional comments.

Receipt
The samples were received on 11/6/2013 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.9º C and 5.5º C.

Except:

The following sample(s) was received outside of holding time: MW-01A-GW-001 (490-39536-1).

HPLC
No analytical or quality issues were noted.

GC Semi VOA
Method(s) 8015C: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) sample(s): (490-39641-1 MS), (490-39641-1 MSD). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

Method(s) 8015C: The continuing calibration verification (CCV) associated with batch 122083 recovered above the upper control limit for Ethylene glycol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW-02A-GW-001 (490-39536-5), MW-02B-GW-001 (490-39536-7).

No other analytical or quality issues were noted.

Metals
Method(s) 6020A: The matrix spike / matrix spike duplicate (MS/MSD) percent recoveries and %RPD for batch 490-122101 were outside control limits for Silver. This is attributed to: matrix interferences.

Method(s) 6020, 6020A: The following sample(s) was diluted to bring the concentration of Manganese within the calibration range: MW-01A-GW-001 (490-39536-1), MW-01B-GW-001 (490-39536-3), MW-02A-GW-001 (490-39536-5), MW-02B-GW-001 (490-39536-7). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

General Chemistry
Method(s) 7196A: Reanalysis of the following sample(s) was performed outside of the analytical holding time: MW-01B-GW-001 (490-39536-4).

Method(s) 7196A: The following samples, (490-39536-4 DU), MW-01B-GW-001 (490-39536-4), does not contain a color blank subtraction. The data is qualified and reported.

Method(s) 7196A: The matrix spike (MS) recovery for batch 123364 was outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 9012B: The matrix spike / matrix spike duplicate (MS/MSD) percent recoveries and %RPD for batch 122811 were outside control limits.

Method(s) 9034: The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 122205 was outside control limits.

No other analytical or quality issues were noted.

Job ID: 490-39536-1 (Continued)

Laboratory: TestAmerica Nashville (Continued)

Organic Prep

No analytical or quality issues were noted.

Qualifiers

GC VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

HPLC/IC

Qualifier	Qualifier Description
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F	MS/MSD Recovery and/or RPD exceeds the control limits

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes
F	MS/MSD Recovery and/or RPD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample ID: MW-01A-GW-001
Date Collected: 11/05/13 09:07
Date Received: 11/06/13 08:15

Lab Sample ID: 490-39536-1
Matrix: Water

Method: 8015C - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND		10.0	0.500	mg/L			11/14/13 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-butyl alcohol (Surr)	*74*		*70 - 130*		*11/14/13 17:00*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		0.00500	0.00250	mg/L			11/13/13 15:02	1
Ethylene	ND		0.00500	0.00250	mg/L			11/13/13 15:02	1
Methane	**0.00730**		0.00500	0.00250	mg/L			11/13/13 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetylene (Surr)	*90*		*62 - 124*		*11/13/13 15:02*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.391	0.336	ug/L		11/13/13 09:20	11/14/13 14:08	1
PCB-1221	ND		0.391	0.266	ug/L		11/13/13 09:20	11/14/13 14:08	1
PCB-1232	ND		0.391	0.313	ug/L		11/13/13 09:20	11/14/13 14:08	1
PCB-1242	ND		0.391	0.172	ug/L		11/13/13 09:20	11/14/13 14:08	1
PCB-1248	ND		0.391	0.117	ug/L		11/13/13 09:20	11/14/13 14:08	1
PCB-1254	ND		0.391	0.133	ug/L		11/13/13 09:20	11/14/13 14:08	1
PCB-1260	ND		0.391	0.141	ug/L		11/13/13 09:20	11/14/13 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*26*	*p*	*10 - 150*	*11/13/13 09:20*	*11/14/13 14:08*	*1*
Tetrachloro-m-xylene	*57*		*10 - 150*	*11/13/13 09:20*	*11/14/13 14:08*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**48.4**		1.00	0.700	mg/L			11/06/13 22:31	1
Nitrite as N	ND		0.100	0.0500	mg/L			11/06/13 22:31	1
Nitrate as N	**0.536**		0.100	0.0600	mg/L			11/06/13 22:31	1
Sulfate	**63.7**		1.00	0.600	mg/L			11/06/13 22:31	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:07	1
Arsenic	**0.00249**		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:07	1
Barium	**0.155**		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:07	1
Beryllium	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:07	1
Cadmium	ND		0.00100	0.000400	mg/L		11/15/13 06:10	11/18/13 23:07	1
Chromium	**0.000519**	**J**	0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 18:54	1
Cobalt	**0.00106**	**J**	0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:07	1
Copper	**0.000834**	**J**	0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:07	1
Iron	**0.207**		0.0250	0.0100	mg/L		11/15/13 06:10	11/18/13 23:07	1
Lead	ND		0.00200	0.000200	mg/L		11/15/13 06:10	11/18/13 23:07	1
Manganese	**1.95**		0.0100	0.00500	mg/L		11/15/13 06:10	11/19/13 19:14	5
Nickel	**0.00552**		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:07	1
Selenium	ND		0.00200	0.000600	mg/L		11/15/13 06:10	11/18/13 23:07	1
Silver	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:07	1

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39536-1

Client Sample ID: MW-01A-GW-001
Date Collected: 11/05/13 09:07
Date Received: 11/06/13 08:15

Lab Sample ID: 490-39536-1
Matrix: Water

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.00200	0.000200	mg/L		11/15/13 06:10	11/18/13 23:07	1
Vanadium	**0.00251**		0.00200	0.000100	mg/L		11/15/13 06:10	11/19/13 18:54	1
Zinc	ND		0.0250	0.0100	mg/L		11/15/13 06:10	11/18/13 23:07	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**1.94**		0.0200	0.0100	mg/L		11/15/13 12:50	11/19/13 16:49	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	0.000150	mg/L		11/18/13 11:53	11/19/13 10:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.0100	0.00300	mg/L		11/19/13 11:38	11/19/13 17:18	1
Sulfide	ND		5.00	0.700	mg/L		11/09/13 14:35	11/09/13 17:04	1
Total Organic Carbon	**1.50**		1.00	0.500	mg/L			11/13/13 09:48	1
Carbon Dioxide, Free	**29.5**	**HF**	20.0	10.0	mg/L			11/06/13 16:47	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	**1.63**		1.00	0.500	mg/L			11/15/13 16:31	1

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39536-1

Client Sample ID: MW-01A-GW-001
Lab Sample ID: 490-39536-2
Date Collected: 11/05/13 17:02
Matrix: Water
Date Received: 11/06/13 08:15

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	0.00800	J	0.0100	0.00500	mg/L			11/06/13 12:34	1

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39536-1

Client Sample ID: MW-01B-GW-001
Date Collected: 11/05/13 11:45
Date Received: 11/06/13 08:15

Lab Sample ID: 490-39536-3
Matrix: Water

Method: 8015C - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND		10.0	0.500	mg/L			11/14/13 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-butyl alcohol (Surr)	*73*		*70 - 130*		*11/14/13 17:19*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		0.00500	0.00250	mg/L			11/13/13 15:04	1
Ethylene	ND		0.00500	0.00250	mg/L			11/13/13 15:04	1
Methane	**3.98**		0.100	0.0500	mg/L			11/13/13 15:07	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetylene (Surr)	*84*		*62 - 124*		*11/13/13 15:04*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.391	0.336	ug/L		11/13/13 09:20	11/14/13 14:21	1
PCB-1221	ND		0.391	0.266	ug/L		11/13/13 09:20	11/14/13 14:21	1
PCB-1232	ND		0.391	0.313	ug/L		11/13/13 09:20	11/14/13 14:21	1
PCB-1242	ND		0.391	0.172	ug/L		11/13/13 09:20	11/14/13 14:21	1
PCB-1248	ND		0.391	0.117	ug/L		11/13/13 09:20	11/14/13 14:21	1
PCB-1254	ND		0.391	0.133	ug/L		11/13/13 09:20	11/14/13 14:21	1
PCB-1260	ND		0.391	0.141	ug/L		11/13/13 09:20	11/14/13 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*10 - 150*	*11/13/13 09:20*	*11/14/13 14:21*	*1*
Tetrachloro-m-xylene	*53*		*10 - 150*	*11/13/13 09:20*	*11/14/13 14:21*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.0**		1.00	0.700	mg/L			11/07/13 00:12	1
Nitrite as N	ND		0.100	0.0500	mg/L			11/07/13 00:12	1
Nitrate as N	ND		0.100	0.0600	mg/L			11/07/13 00:12	1
Sulfate	ND		1.00	0.600	mg/L			11/07/13 00:12	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:11	1
Arsenic	**0.0288**		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:11	1
Barium	**0.388**		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:11	1
Beryllium	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:11	1
Cadmium	ND		0.00100	0.000400	mg/L		11/15/13 06:10	11/18/13 23:11	1
Chromium	**0.00335**		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 18:59	1
Cobalt	**0.00113**	**J**	0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:11	1
Copper	**0.00318**		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:11	1
Iron	**12.1**		0.0250	0.0100	mg/L		11/15/13 06:10	11/18/13 23:11	1
Lead	**0.00191**	**J**	0.00200	0.000200	mg/L		11/15/13 06:10	11/18/13 23:11	1
Manganese	**2.05**		0.0100	0.00500	mg/L		11/15/13 06:10	11/19/13 19:18	5
Nickel	**0.00302**		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:11	1
Selenium	ND		0.00200	0.000600	mg/L		11/15/13 06:10	11/18/13 23:11	1
Silver	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:11	1

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39536-1

Client Sample ID: MW-01B-GW-001
Date Collected: 11/05/13 11:45
Date Received: 11/06/13 08:15

Lab Sample ID: 490-39536-3
Matrix: Water

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.00200	0.000200	mg/L		11/15/13 06:10	11/18/13 23:11	1
Vanadium	**0.00380**		0.00200	0.000100	mg/L		11/15/13 06:10	11/19/13 18:59	1
Zinc	**0.0114**	**J**	0.0250	0.0100	mg/L		11/15/13 06:10	11/18/13 23:11	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**2.06**		0.0200	0.0100	mg/L		11/15/13 12:50	11/19/13 16:54	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	0.000150	mg/L		11/18/13 11:53	11/19/13 10:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.0100	0.00300	mg/L		11/19/13 11:38	11/19/13 17:19	1
Sulfide	ND		5.00	0.700	mg/L		11/09/13 14:35	11/09/13 17:04	1
Total Organic Carbon	**1.82**		1.00	0.500	mg/L			11/13/13 09:48	1
Carbon Dioxide, Free	**18.1**	**J HF**	20.0	10.0	mg/L			11/06/13 16:51	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	**1.78**		1.00	0.500	mg/L			11/15/13 16:31	1

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39536-1

Client Sample ID: MW-01B-GW-001
Date Collected: 11/05/13 17:06
Date Received: 11/06/13 08:15

Lab Sample ID: 490-39536-4
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	0.0350		0.0100	0.00500	mg/L			11/06/13 12:43	1

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39536-1

Client Sample ID: MW-02A-GW-001
Date Collected: 11/05/13 14:22
Date Received: 11/06/13 08:15

Lab Sample ID: 490-39536-5
Matrix: Water

Method: 8015C - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND		10.0	0.500	mg/L			11/15/13 00:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-butyl alcohol (Surr)	*85*		*70 - 130*		*11/15/13 00:29*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		0.00500	0.00250	mg/L			11/13/13 15:11	1
Ethylene	ND		0.00500	0.00250	mg/L			11/13/13 15:11	1
Methane	**0.117**		0.00500	0.00250	mg/L			11/13/13 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetylene (Surr)	*75*		*62 - 124*		*11/13/13 15:11*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.391	0.336	ug/L		11/13/13 09:20	11/14/13 14:33	1
PCB-1221	ND		0.391	0.266	ug/L		11/13/13 09:20	11/14/13 14:33	1
PCB-1232	ND		0.391	0.313	ug/L		11/13/13 09:20	11/14/13 14:33	1
PCB-1242	ND		0.391	0.172	ug/L		11/13/13 09:20	11/14/13 14:33	1
PCB-1248	ND		0.391	0.117	ug/L		11/13/13 09:20	11/14/13 14:33	1
PCB-1254	ND		0.391	0.133	ug/L		11/13/13 09:20	11/14/13 14:33	1
PCB-1260	ND		0.391	0.141	ug/L		11/13/13 09:20	11/14/13 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*55*		*10 - 150*	*11/13/13 09:20*	*11/14/13 14:33*	*1*
Tetrachloro-m-xylene	*58*		*10 - 150*	*11/13/13 09:20*	*11/14/13 14:33*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.9**		1.00	0.700	mg/L			11/07/13 00:32	1
Nitrite as N	ND		0.100	0.0500	mg/L			11/07/13 00:32	1
Nitrate as N	ND		0.100	0.0600	mg/L			11/07/13 00:32	1
Sulfate	**21.5**		1.00	0.600	mg/L			11/07/13 00:32	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:16	1
Arsenic	**0.00917**		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:16	1
Barium	**0.414**		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:16	1
Beryllium	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:16	1
Cadmium	ND		0.00100	0.000400	mg/L		11/15/13 06:10	11/18/13 23:16	1
Chromium	**0.00224**		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 19:04	1
Cobalt	**0.0112**		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:16	1
Copper	**0.000535**	**J**	0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:16	1
Iron	**2.68**		0.0250	0.0100	mg/L		11/15/13 06:10	11/18/13 23:16	1
Lead	ND		0.00200	0.000200	mg/L		11/15/13 06:10	11/18/13 23:16	1
Manganese	**15.2**		0.0400	0.0200	mg/L		11/15/13 06:10	11/19/13 19:23	20
Nickel	**0.0195**		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:16	1
Selenium	ND		0.00200	0.000600	mg/L		11/15/13 06:10	11/18/13 23:16	1
Silver	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:16	1

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39536-1

Client Sample ID: MW-02A-GW-001
Date Collected: 11/05/13 14:22
Date Received: 11/06/13 08:15

Lab Sample ID: 490-39536-5
Matrix: Water

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.00200	0.000200	mg/L		11/15/13 06:10	11/18/13 23:16	1
Vanadium	**0.000900**	**J**	0.00200	0.000100	mg/L		11/15/13 06:10	11/19/13 19:04	1
Zinc	**0.0105**	**J**	0.0250	0.0100	mg/L		11/15/13 06:10	11/18/13 23:16	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**16.2**		0.0400	0.0200	mg/L		11/15/13 12:50	11/19/13 16:59	20

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	0.000150	mg/L		11/18/13 11:53	11/19/13 10:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.00649**	**J**	0.0100	0.00300	mg/L		11/19/13 11:38	11/19/13 17:21	1
Sulfide	ND		5.00	0.700	mg/L		11/09/13 14:35	11/09/13 17:04	1
Total Organic Carbon	**3.73**		1.00	0.500	mg/L			11/13/13 09:48	1
Carbon Dioxide, Free	**108**	**HF**	20.0	10.0	mg/L			11/06/13 16:56	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	**4.46**		1.00	0.500	mg/L			11/15/13 16:31	1

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39536-1

Client Sample ID: MW-02A-GW-001
Date Collected: 11/05/13 16:47
Date Received: 11/06/13 08:15

Lab Sample ID: 490-39536-6
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	0.0140		0.0100	0.00500	mg/L			11/06/13 13:05	1

Client Sample ID: MW-02B-GW-001
Date Collected: 11/05/13 16:15
Date Received: 11/06/13 08:15

Lab Sample ID: 490-39536-7
Matrix: Water

Method: 8015C - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND		10.0	0.500	mg/L			11/15/13 00:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-butyl alcohol (Surr)	*86*		*70 - 130*		*11/15/13 00:48*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		0.00500	0.00250	mg/L			11/13/13 15:14	1
Ethylene	ND		0.00500	0.00250	mg/L			11/13/13 15:14	1
Methane	**1.92**		0.0250	0.0125	mg/L			11/13/13 15:16	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetylene (Surr)	*80*		*62 - 124*		*11/13/13 15:14*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.391	0.336	ug/L		11/13/13 09:20	11/14/13 14:46	1
PCB-1221	ND		0.391	0.266	ug/L		11/13/13 09:20	11/14/13 14:46	1
PCB-1232	ND		0.391	0.313	ug/L		11/13/13 09:20	11/14/13 14:46	1
PCB-1242	ND		0.391	0.172	ug/L		11/13/13 09:20	11/14/13 14:46	1
PCB-1248	ND		0.391	0.117	ug/L		11/13/13 09:20	11/14/13 14:46	1
PCB-1254	ND		0.391	0.133	ug/L		11/13/13 09:20	11/14/13 14:46	1
PCB-1260	ND		0.391	0.141	ug/L		11/13/13 09:20	11/14/13 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*44*		*10 - 150*	*11/13/13 09:20*	*11/14/13 14:46*	*1*
Tetrachloro-m-xylene	*52*		*10 - 150*	*11/13/13 09:20*	*11/14/13 14:46*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.6**		1.00	0.700	mg/L			11/07/13 00:52	1
Nitrite as N	ND		0.100	0.0500	mg/L			11/07/13 00:52	1
Nitrate as N	ND		0.100	0.0600	mg/L			11/07/13 00:52	1
Sulfate	**22.5**		1.00	0.600	mg/L			11/07/13 00:52	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:21	1
Arsenic	**0.117**		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:21	1
Barium	**0.588**		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:21	1
Beryllium	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:21	1
Cadmium	ND		0.00100	0.000400	mg/L		11/15/13 06:10	11/18/13 23:21	1
Chromium	**0.00201**		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 19:09	1
Cobalt	**0.000878**	**J**	0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:21	1
Copper	**0.00152**	**J**	0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:21	1
Iron	**23.2**		0.0250	0.0100	mg/L		11/15/13 06:10	11/18/13 23:21	1
Lead	**0.000896**	**J**	0.00200	0.000200	mg/L		11/15/13 06:10	11/18/13 23:21	1
Manganese	**7.93**		0.0400	0.0200	mg/L		11/15/13 06:10	11/19/13 19:28	20
Nickel	**0.00264**		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:21	1
Selenium	ND		0.00200	0.000600	mg/L		11/15/13 06:10	11/18/13 23:21	1
Silver	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 23:21	1

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39536-1

Client Sample ID: MW-02B-GW-001
Date Collected: 11/05/13 16:15
Date Received: 11/06/13 08:15

Lab Sample ID: 490-39536-7
Matrix: Water

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.00200	0.000200	mg/L		11/15/13 06:10	11/18/13 23:21	1
Vanadium	**0.00185**	**J**	0.00200	0.000100	mg/L		11/15/13 06:10	11/19/13 19:09	1
Zinc	**0.0105**	**J**	0.0250	0.0100	mg/L		11/15/13 06:10	11/18/13 23:21	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**8.67**		0.0200	0.0100	mg/L		11/15/13 12:50	11/19/13 17:13	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	0.000150	mg/L		11/18/13 11:53	11/19/13 10:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	**0.00900**	**J**	0.0100	0.00500	mg/L			11/06/13 13:09	1
Cyanide, Total	**0.00415**	**J**	0.0100	0.00300	mg/L		11/19/13 11:38	11/19/13 17:22	1
Sulfide	ND		5.00	0.700	mg/L		11/09/13 14:35	11/09/13 17:04	1
Total Organic Carbon	**2.71**		1.00	0.500	mg/L			11/13/13 09:48	1
Carbon Dioxide, Free	**77.5**	**HF**	20.0	10.0	mg/L			11/06/13 17:01	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	**2.50**		1.00	0.500	mg/L			11/15/13 16:31	1

Method: 8015C - Glycols- Direct Injection (GC/FID)

Lab Sample ID: MB 490-121932/3
Matrix: Water
Analysis Batch: 121932

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND		10.0	0.500	mg/L			11/14/13 13:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-butyl alcohol (Surr)	*82*		*70 - 130*		*11/14/13 13:25*	*1*

Lab Sample ID: LCS 490-121932/4
Matrix: Water
Analysis Batch: 121932

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylene glycol			50.0	53.79		mg/L		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-butyl alcohol (Surr)	*94*		*70 - 130*

Lab Sample ID: 490-39641-E-1 MS
Matrix: Water
Analysis Batch: 121932

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylene glycol	ND		50.0	49.90		mg/L		100	41 - 139		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-butyl alcohol (Surr)	*441*	*X*	*70 - 130*

Lab Sample ID: 490-39641-E-1 MSD
Matrix: Water
Analysis Batch: 121932

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene glycol	ND		50.0	50.96		mg/L		102	41 - 139	2	36

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-butyl alcohol (Surr)	*140*	*X*	*70 - 130*

Lab Sample ID: MB 490-122083/35
Matrix: Water
Analysis Batch: 122083

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND		10.0	0.500	mg/L			11/14/13 23:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-butyl alcohol (Surr)	*84*		*70 - 130*		*11/14/13 23:50*	*1*

Method: 8015C - Glycols- Direct Injection (GC/FID) (Continued)

Lab Sample ID: LCS 490-122083/36
Matrix: Water
Analysis Batch: 122083

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylene glycol			50.0	53.84		mg/L		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-butyl alcohol (Surr)	*76*		*70 - 130*

Lab Sample ID: 240-31042-A-1 MS
Matrix: Water
Analysis Batch: 122083

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylene glycol	179		50.0	224.5	E	mg/L		91	41 - 139		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-butyl alcohol (Surr)	*86*		*70 - 130*

Lab Sample ID: 240-31042-A-1 MSD
Matrix: Water
Analysis Batch: 122083

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene glycol	179		50.0	236.6	E	mg/L		115	41 - 139	5	36

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-butyl alcohol (Surr)	*102*		*70 - 130*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 490-121637/35
Matrix: Water
Analysis Batch: 121637

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		0.00500	0.00250	mg/L			11/13/13 13:50	1
Ethylene	ND		0.00500	0.00250	mg/L			11/13/13 13:50	1
Methane	ND		0.00500	0.00250	mg/L			11/13/13 13:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetylene (Surr)	*99*		*62 - 124*		*11/13/13 13:50*	*1*

Lab Sample ID: LCS 490-121637/36
Matrix: Water
Analysis Batch: 121637

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethane			0.513	0.5018		mg/L		98	80 - 120		
Ethylene			0.479	0.3912		mg/L		82	80 - 120		
Methane			0.273	0.2800		mg/L		102	80 - 120		

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCS 490-121637/36
Matrix: Water
Analysis Batch: 121637

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Acetylene (Surr)	92		62 - 124

Lab Sample ID: LCSD 490-121637/37
Matrix: Water
Analysis Batch: 121637

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane			0.513	0.4876		mg/L		95	80 - 120	3	30
Ethylene			0.479	0.4048		mg/L		84	80 - 120	3	29
Methane			0.273	0.2800		mg/L		102	80 - 120	0	33

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Acetylene (Surr)	89		62 - 124

Lab Sample ID: 490-39455-E-1 MS
Matrix: Water
Analysis Batch: 121637

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethane	ND		0.513	0.4526		mg/L		88	71 - 120		
Ethylene	ND		0.479	0.3580		mg/L		75	71 - 120		
Methane	ND		0.273	0.2438		mg/L		89	46 - 142		

Surrogate	MS %Recovery	MS Qualifier	Limits
Acetylene (Surr)	86		62 - 124

Lab Sample ID: 490-39455-E-1 MSD
Matrix: Water
Analysis Batch: 121637

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	ND		0.513	0.4479		mg/L		87	71 - 120	1	30
Ethylene	ND		0.479	0.3681		mg/L		77	71 - 120	3	30
Methane	ND		0.273	0.2551		mg/L		93	46 - 142	5	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Acetylene (Surr)	83		62 - 124

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 490-121501/1-A
Matrix: Water
Analysis Batch: 121889

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 121501

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.500	0.430	ug/L		11/13/13 09:20	11/14/13 13:43	1
PCB-1221	ND		0.500	0.340	ug/L		11/13/13 09:20	11/14/13 13:43	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 490-121501/1-A
Matrix: Water
Analysis Batch: 121889

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 121501

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.500	0.400	ug/L		11/13/13 09:20	11/14/13 13:43	1
PCB-1242	ND		0.500	0.220	ug/L		11/13/13 09:20	11/14/13 13:43	1
PCB-1248	ND		0.500	0.150	ug/L		11/13/13 09:20	11/14/13 13:43	1
PCB-1254	ND		0.500	0.170	ug/L		11/13/13 09:20	11/14/13 13:43	1
PCB-1260	ND		0.500	0.180	ug/L		11/13/13 09:20	11/14/13 13:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*59*		*10 - 150*	*11/13/13 09:20*	*11/14/13 13:43*	*1*
Tetrachloro-m-xylene	*44*		*10 - 150*	*11/13/13 09:20*	*11/14/13 13:43*	*1*

Lab Sample ID: LCS 490-121501/2-A
Matrix: Water
Analysis Batch: 121889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 121501

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	8.00	5.829	p	ug/L		73	23 - 139
PCB-1260	8.00	8.463		ug/L		106	36 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*67*		*10 - 150*
Tetrachloro-m-xylene	*41*		*10 - 150*

Lab Sample ID: 490-39837-J-2-B MSD
Matrix: Water
Analysis Batch: 121889

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 121501

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		6.25	3.612	p	ug/L		58	23 - 139	25	
PCB-1260	ND		6.25	5.584		ug/L		89	36 - 144	24	

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*30*		*10 - 150*
Tetrachloro-m-xylene	*33*		*10 - 150*

Lab Sample ID: 490-39837-K-2-A MS
Matrix: Water
Analysis Batch: 121889

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 121501

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		6.25	4.626	p	ug/L		74	23 - 139
PCB-1260	ND		6.25	7.090		ug/L		113	36 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*40*		*10 - 150*
Tetrachloro-m-xylene	*45*		*10 - 150*

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 490-119906/3
Matrix: Water
Analysis Batch: 119906

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.00	0.700	mg/L			11/06/13 18:31	1
Sulfate	ND		1.00	0.600	mg/L			11/06/13 18:31	1

Lab Sample ID: LCS 490-119906/4
Matrix: Water
Analysis Batch: 119906

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.16		mg/L		100	80 - 120
Sulfate	50.0	49.64		mg/L		99	80 - 120

Lab Sample ID: LCSD 490-119906/5
Matrix: Water
Analysis Batch: 119906

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	50.0	50.53		mg/L		101	80 - 120	1	20
Sulfate	50.0	49.35		mg/L		99	80 - 120	1	20

Lab Sample ID: 490-39536-1 MS
Matrix: Water
Analysis Batch: 119906

Client Sample ID: MW-01A-GW-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	48.4		50.0	90.42		mg/L		84	80 - 120
Sulfate	63.7		50.0	110.0	E	mg/L		92	80 - 120

Lab Sample ID: 490-39536-1 MSD
Matrix: Water
Analysis Batch: 119906

Client Sample ID: MW-01A-GW-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	48.4		50.0	89.49		mg/L		82	80 - 120	1	20
Sulfate	63.7		50.0	106.0	E	mg/L		85	80 - 120	4	20

Lab Sample ID: MB 490-119907/3
Matrix: Water
Analysis Batch: 119907

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.100	0.0500	mg/L			11/06/13 18:31	1
Nitrate as N	ND		0.100	0.0600	mg/L			11/06/13 18:31	1

Lab Sample ID: LCS 490-119907/4
Matrix: Water
Analysis Batch: 119907

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	5.00	4.980		mg/L		100	80 - 120

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 490-119907/4
Matrix: Water
Analysis Batch: 119907

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	5.00	5.107		mg/L		102	80 - 120

Lab Sample ID: LCSD 490-119907/5
Matrix: Water
Analysis Batch: 119907

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	5.00	4.979		mg/L		100	80 - 120	0	20
Nitrate as N	5.00	5.020		mg/L		100	80 - 120	2	20

Lab Sample ID: 490-39536-1 MS
Matrix: Water
Analysis Batch: 119907

Client Sample ID: MW-01A-GW-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	ND		5.00	5.287		mg/L		106	80 - 120
Nitrate as N	0.536		5.00	5.703		mg/L		103	80 - 120

Lab Sample ID: 490-39536-1 MSD
Matrix: Water
Analysis Batch: 119907

Client Sample ID: MW-01A-GW-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	ND		5.00	4.900		mg/L		98	80 - 120	8	20
Nitrate as N	0.536		5.00	5.383		mg/L		97	80 - 120	6	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 490-122101/1-A
Matrix: Water
Analysis Batch: 123170

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 122101

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 22:57	1
Arsenic	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 22:57	1
Barium	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 22:57	1
Beryllium	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 22:57	1
Cadmium	ND		0.00100	0.000400	mg/L		11/15/13 06:10	11/18/13 22:57	1
Cobalt	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 22:57	1
Copper	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 22:57	1
Iron	ND		0.0250	0.0100	mg/L		11/15/13 06:10	11/18/13 22:57	1
Lead	ND		0.00200	0.000200	mg/L		11/15/13 06:10	11/18/13 22:57	1
Manganese	ND		0.00200	0.00100	mg/L		11/15/13 06:10	11/18/13 22:57	1
Nickel	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 22:57	1
Selenium	ND		0.00200	0.000600	mg/L		11/15/13 06:10	11/18/13 22:57	1
Silver	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 22:57	1
Thallium	ND		0.00200	0.000200	mg/L		11/15/13 06:10	11/18/13 22:57	1
Zinc	ND		0.0250	0.0100	mg/L		11/15/13 06:10	11/18/13 22:57	1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 490-122101/1-A
Matrix: Water
Analysis Batch: 123296

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 122101

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 18:45	1
Vanadium	ND		0.00200	0.000100	mg/L		11/15/13 06:10	11/19/13 18:45	1

Lab Sample ID: LCS 490-122101/2-A
Matrix: Water
Analysis Batch: 123170

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 122101

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.100	0.1028		mg/L		103	80 - 120
Arsenic	0.100	0.09906		mg/L		99	80 - 120
Barium	0.100	0.1002		mg/L		100	80 - 120
Beryllium	0.100	0.09834		mg/L		98	80 - 120
Cadmium	0.100	0.1014		mg/L		101	80 - 120
Cobalt	0.100	0.09869		mg/L		99	80 - 120
Copper	0.100	0.09578		mg/L		96	80 - 120
Iron	1.00	1.001		mg/L		100	80 - 120
Lead	0.100	0.1010		mg/L		101	80 - 120
Manganese	0.100	0.09939		mg/L		99	80 - 120
Nickel	0.100	0.09859		mg/L		99	80 - 120
Selenium	0.100	0.09672		mg/L		97	80 - 120
Silver	0.100	0.1022		mg/L		102	80 - 120
Thallium	0.100	0.1025		mg/L		103	80 - 120
Zinc	0.100	0.09615		mg/L		96	80 - 120

Lab Sample ID: LCS 490-122101/2-A
Matrix: Water
Analysis Batch: 123296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 122101

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	0.100	0.09736		mg/L		97	80 - 120
Vanadium	0.100	0.09955		mg/L		100	80 - 120

Lab Sample ID: 490-39837-A-2-A MSD
Matrix: Water
Analysis Batch: 123170

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 122101

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		0.100	0.08678		mg/L		87	75 - 125	1	20
Arsenic	0.110		0.100	0.2059		mg/L		96	75 - 125	1	20
Barium	0.647		0.100	0.7425	4	mg/L		95	75 - 125	2	20
Beryllium	ND		0.100	0.09457		mg/L		95	75 - 125	1	20
Cadmium	ND		0.100	0.1008		mg/L		101	75 - 125	0	20
Chromium	0.00653		0.100	0.1011		mg/L		95	75 - 125	6	20
Cobalt	0.00301		0.100	0.09846		mg/L		95	75 - 125	0	20
Copper	0.00505		0.100	0.09562		mg/L		91	75 - 125	0	20
Iron	22.9		1.00	23.60	4	mg/L		71	75 - 125	2	20
Lead	0.00368		0.100	0.1051		mg/L		101	75 - 125	0	20
Manganese	4.16	E	0.100	4.205	E 4	mg/L		50	75 - 125	2	20
Nickel	0.00695		0.100	0.1004		mg/L		93	75 - 125	0	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 490-39837-A-2-A MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 123170 — **Prep Batch: 122101**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	ND		0.100	0.09553		mg/L		96	75 - 125	3	20
Silver	ND		0.100	0.02960	F	mg/L		30	75 - 125	72	20
Thallium	ND		0.100	0.1029		mg/L		103	75 - 125	0	20
Vanadium	0.00782		0.100	0.1074		mg/L		100	75 - 125	0	20
Zinc	0.0197	J	0.100	0.1073		mg/L		88	75 - 125	1	20

Lab Sample ID: 490-39837-L-2-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 123170 — **Prep Batch: 122101**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		0.100	0.08748		mg/L		87	75 - 125
Arsenic	0.110		0.100	0.2079		mg/L		98	75 - 125
Barium	0.647		0.100	0.7564	4	mg/L		109	75 - 125
Beryllium	ND		0.100	0.09566		mg/L		96	75 - 125
Cadmium	ND		0.100	0.1011		mg/L		101	75 - 125
Chromium	0.00653		0.100	0.1071		mg/L		101	75 - 125
Cobalt	0.00301		0.100	0.09837		mg/L		95	75 - 125
Copper	0.00505		0.100	0.09540		mg/L		90	75 - 125
Iron	22.9		1.00	24.03	4	mg/L		114	75 - 125
Lead	0.00368		0.100	0.1047		mg/L		101	75 - 125
Manganese	4.16	E	0.100	4.306	E 4	mg/L		151	75 - 125
Nickel	0.00695		0.100	0.1001		mg/L		93	75 - 125
Selenium	ND		0.100	0.09313		mg/L		93	75 - 125
Silver	ND		0.100	0.06297	F	mg/L		63	75 - 125
Thallium	ND		0.100	0.1024		mg/L		102	75 - 125
Vanadium	0.00782		0.100	0.1074		mg/L		100	75 - 125
Zinc	0.0197	J	0.100	0.1062		mg/L		87	75 - 125

Lab Sample ID: MB 490-122307/1-B — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 123310 — **Prep Batch: 122310**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		0.00200	0.00100	mg/L		11/15/13 12:50	11/19/13 16:16	1

Lab Sample ID: LCS 490-122307/2-B — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 123310 — **Prep Batch: 122310**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	0.100	0.1048		mg/L		105	80 - 120

Lab Sample ID: LCSD 490-122307/3-B — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 123310 — **Prep Batch: 122310**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	0.100	0.1019		mg/L		102	80 - 120	3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 490-122786/1-A
Matrix: Water
Analysis Batch: 123041

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 122786

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	0.000150	mg/L		11/18/13 11:53	11/19/13 10:18	1

Lab Sample ID: LCS 490-122786/2-A
Matrix: Water
Analysis Batch: 123041

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 122786

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00100	0.001081		mg/L		108	80 - 120

Lab Sample ID: 490-39536-1 MS
Matrix: Water
Analysis Batch: 123041

Client Sample ID: MW-01A-GW-001
Prep Type: Total/NA
Prep Batch: 122786

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00100	0.001104		mg/L		110	75 - 125

Lab Sample ID: 490-39536-1 MSD
Matrix: Water
Analysis Batch: 123041

Client Sample ID: MW-01A-GW-001
Prep Type: Total/NA
Prep Batch: 122786

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00100	0.001130		mg/L		113	75 - 125	2	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 490-120082/2
Matrix: Water
Analysis Batch: 120082

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	ND		0.0100	0.00500	mg/L			11/06/13 11:40	1

Lab Sample ID: LCS 490-120082/3
Matrix: Water
Analysis Batch: 120082

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hex	0.100	0.1000		mg/L		100	85 - 115

Lab Sample ID: 490-39536-4 MS
Matrix: Water
Analysis Batch: 120082

Client Sample ID: MW-01B-GW-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hex	0.0350		0.100	0.1260		mg/L		91	85 - 115

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 490-39536-4 MSD
Matrix: Water
Analysis Batch: 120082

Client Sample ID: MW-01B-GW-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hex	0.0350		0.100	0.1350		mg/L		100	85 - 115	7	10

Lab Sample ID: 490-39536-4 DU
Matrix: Water
Analysis Batch: 120082

Client Sample ID: MW-01B-GW-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium, hex	0.0350		0.04000		mg/L		13	20

Lab Sample ID: MB 490-123364/4
Matrix: Water
Analysis Batch: 123364

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	ND		0.0100	0.00500	mg/L			11/19/13 14:37	1

Lab Sample ID: LCS 490-123364/3
Matrix: Water
Analysis Batch: 123364

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hex	0.100	0.1010		mg/L		101	85 - 115

Lab Sample ID: 490-40679-A-1 MS
Matrix: Water
Analysis Batch: 123364

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hex	0.0340		0.100	0.1500	F	mg/L		116	85 - 115

Lab Sample ID: 490-40679-A-1 MSD
Matrix: Water
Analysis Batch: 123364

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hex	0.0340		0.100	0.1480		mg/L		114	85 - 115	1	10

Lab Sample ID: 490-40679-A-1 DU
Matrix: Water
Analysis Batch: 123364

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium, hex	0.0340		0.03500		mg/L		NC	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 490-123102/1-A
Matrix: Water
Analysis Batch: 123242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 123102

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.0100	0.00300	mg/L		11/19/13 11:38	11/19/13 17:14	1

Lab Sample ID: LCS 490-123102/2-A
Matrix: Water
Analysis Batch: 123242

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 123102

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.09000		mg/L		90	90 - 110

Lab Sample ID: 490-39536-3 MS
Matrix: Water
Analysis Batch: 123242

Client Sample ID: MW-01B-GW-001
Prep Type: Total/NA
Prep Batch: 123102

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	ND		0.100	0.08700		mg/L		87	70 - 130

Lab Sample ID: 490-39536-3 MSD
Matrix: Water
Analysis Batch: 123242

Client Sample ID: MW-01B-GW-001
Prep Type: Total/NA
Prep Batch: 123102

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	ND		0.100	0.09800		mg/L		98	70 - 130	12	46

Lab Sample ID: 490-39536-7 DU
Matrix: Water
Analysis Batch: 123242

Client Sample ID: MW-02B-GW-001
Prep Type: Total/NA
Prep Batch: 123102

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cyanide, Total	0.00415	J	0.004365	J	mg/L		5	20

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 490-120788/1-A
Matrix: Water
Analysis Batch: 122205

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 120788

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		5.00	0.700	mg/L		11/09/13 14:35	11/09/13 17:04	1

Lab Sample ID: LCS 490-120788/2-A
Matrix: Water
Analysis Batch: 122205

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 120788

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	20.0	19.35		mg/L		97	80 - 120

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: 490-39536-1 MS — **Client Sample ID: MW-01A-GW-001**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 122205 — **Prep Batch: 120788**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	ND		20.0	19.82		mg/L		99	70 - 130

Lab Sample ID: 490-39536-1 MSD — **Client Sample ID: MW-01A-GW-001**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 122205 — **Prep Batch: 120788**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	ND		20.0	16.99	F	mg/L		85	70 - 130	15	10

Lab Sample ID: 490-39692-O-1-B DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 122205 — **Prep Batch: 120788**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	ND		ND		mg/L		NC	20

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 490-121913/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 121913

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.00	0.500	mg/L			11/13/13 09:48	1

Lab Sample ID: LCS 490-121913/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 121913

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	10.01		mg/L		100	90 - 110

Lab Sample ID: LCSD 490-121913/6 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 121913

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	10.0	9.651		mg/L		97	90 - 110	4	20

Lab Sample ID: 490-39437-N-1 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 121913

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	1.69		20.0	21.49		mg/L		99	75 - 122

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 490-39536-3 MS — **Client Sample ID: MW-01B-GW-001**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 121913

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	1.82		20.0	21.35		mg/L		98	75 - 122

Method: 9060A - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 490-122384/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 122516

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	ND		1.00	0.500	mg/L			11/15/13 16:31	1

Lab Sample ID: LCS 490-122384/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 122516

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	10.0	10.22		mg/L		102	90 - 110

Lab Sample ID: 490-39437-R-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 122516

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	2.25		20.0	21.40		mg/L		96	75 - 122

Lab Sample ID: 490-39837-R-2-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 122516

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	2.22		20.0	23.06		mg/L		104	75 - 122

Method: SM 4500 CO2 C - Free Carbon Dioxide

Lab Sample ID: MB 490-120062/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 120062

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide, Free	ND		20.0	10.0	mg/L			11/06/13 16:39	1

Lab Sample ID: LCS 490-120062/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 120062

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon Dioxide, Free	88.0	84.03		mg/L		95	90 - 110

Method: SM 4500 CO2 C - Free Carbon Dioxide (Continued)

Lab Sample ID: LCSD 490-120062/22
Matrix: Water
Analysis Batch: 120062

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon Dioxide, Free			88.0	82.98		mg/L		94	90 - 110	1	20

Lab Sample ID: 490-39566-M-4 DU
Matrix: Water
Analysis Batch: 120062

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Carbon Dioxide, Free	52.2			50.32		mg/L				4	20

GC VOA

Analysis Batch: 121637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39455-E-1 MS	Matrix Spike	Total/NA	Water	RSK-175	
490-39455-E-1 MSD	Matrix Spike Duplicate	Total/NA	Water	RSK-175	
490-39536-1	MW-01A-GW-001	Total/NA	Water	RSK-175	
490-39536-3	MW-01B-GW-001	Total/NA	Water	RSK-175	
490-39536-3	MW-01B-GW-001	Total/NA	Water	RSK-175	
490-39536-5	MW-02A-GW-001	Total/NA	Water	RSK-175	
490-39536-7	MW-02B-GW-001	Total/NA	Water	RSK-175	
490-39536-7	MW-02B-GW-001	Total/NA	Water	RSK-175	
LCS 490-121637/36	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 490-121637/37	Lab Control Sample Dup	Total/NA	Water	RSK-175	
MB 490-121637/35	Method Blank	Total/NA	Water	RSK-175	

Analysis Batch: 121932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39536-1	MW-01A-GW-001	Total/NA	Water	8015C	
490-39536-3	MW-01B-GW-001	Total/NA	Water	8015C	
490-39641-E-1 MS	Matrix Spike	Total/NA	Water	8015C	
490-39641-E-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015C	
LCS 490-121932/4	Lab Control Sample	Total/NA	Water	8015C	
MB 490-121932/3	Method Blank	Total/NA	Water	8015C	

Analysis Batch: 122083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-31042-A-1 MS	Matrix Spike	Total/NA	Water	8015C	
240-31042-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015C	
490-39536-5	MW-02A-GW-001	Total/NA	Water	8015C	
490-39536-7	MW-02B-GW-001	Total/NA	Water	8015C	
LCS 490-122083/36	Lab Control Sample	Total/NA	Water	8015C	
MB 490-122083/35	Method Blank	Total/NA	Water	8015C	

GC Semi VOA

Prep Batch: 121501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39536-1	MW-01A-GW-001	Total/NA	Water	3510C	
490-39536-3	MW-01B-GW-001	Total/NA	Water	3510C	
490-39536-5	MW-02A-GW-001	Total/NA	Water	3510C	
490-39536-7	MW-02B-GW-001	Total/NA	Water	3510C	
490-39837-J-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	
490-39837-K-2-A MS	Matrix Spike	Total/NA	Water	3510C	
LCS 490-121501/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 490-121501/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 121889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39536-1	MW-01A-GW-001	Total/NA	Water	8082A	121501
490-39536-3	MW-01B-GW-001	Total/NA	Water	8082A	121501
490-39536-5	MW-02A-GW-001	Total/NA	Water	8082A	121501
490-39536-7	MW-02B-GW-001	Total/NA	Water	8082A	121501
490-39837-J-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	8082A	121501

GC Semi VOA (Continued)

Analysis Batch: 121889 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39837-K-2-A MS	Matrix Spike	Total/NA	Water	8082A	121501
LCS 490-121501/2-A	Lab Control Sample	Total/NA	Water	8082A	121501
MB 490-121501/1-A	Method Blank	Total/NA	Water	8082A	121501

HPLC/IC

Analysis Batch: 119906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39536-1	MW-01A-GW-001	Total/NA	Water	9056A	
490-39536-1 MS	MW-01A-GW-001	Total/NA	Water	9056A	
490-39536-1 MSD	MW-01A-GW-001	Total/NA	Water	9056A	
490-39536-3	MW-01B-GW-001	Total/NA	Water	9056A	
490-39536-5	MW-02A-GW-001	Total/NA	Water	9056A	
490-39536-7	MW-02B-GW-001	Total/NA	Water	9056A	
LCS 490-119906/4	Lab Control Sample	Total/NA	Water	9056A	
LCSD 490-119906/5	Lab Control Sample Dup	Total/NA	Water	9056A	
MB 490-119906/3	Method Blank	Total/NA	Water	9056A	

Analysis Batch: 119907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39536-1	MW-01A-GW-001	Total/NA	Water	9056A	
490-39536-1 MS	MW-01A-GW-001	Total/NA	Water	9056A	
490-39536-1 MSD	MW-01A-GW-001	Total/NA	Water	9056A	
490-39536-3	MW-01B-GW-001	Total/NA	Water	9056A	
490-39536-5	MW-02A-GW-001	Total/NA	Water	9056A	
490-39536-7	MW-02B-GW-001	Total/NA	Water	9056A	
LCS 490-119907/4	Lab Control Sample	Total/NA	Water	9056A	
LCSD 490-119907/5	Lab Control Sample Dup	Total/NA	Water	9056A	
MB 490-119907/3	Method Blank	Total/NA	Water	9056A	

Metals

Prep Batch: 122101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39536-1	MW-01A-GW-001	Total/NA	Water	3010A	
490-39536-3	MW-01B-GW-001	Total/NA	Water	3010A	
490-39536-5	MW-02A-GW-001	Total/NA	Water	3010A	
490-39536-7	MW-02B-GW-001	Total/NA	Water	3010A	
490-39837-A-2-A MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	
490-39837-L-2-B MS	Matrix Spike	Total/NA	Water	3010A	
LCS 490-122101/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 490-122101/1-A	Method Blank	Total/NA	Water	3010A	

Filtration Batch: 122307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39536-1	MW-01A-GW-001	Dissolved	Water	Filtration	
490-39536-3	MW-01B-GW-001	Dissolved	Water	Filtration	
490-39536-5	MW-02A-GW-001	Dissolved	Water	Filtration	
490-39536-7	MW-02B-GW-001	Dissolved	Water	Filtration	
LCS 490-122307/2-B	Lab Control Sample	Dissolved	Water	Filtration	

Metals (Continued)

Filtration Batch: 122307 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 490-122307/3-B	Lab Control Sample Dup	Dissolved	Water	Filtration	
MB 490-122307/1-B	Method Blank	Dissolved	Water	Filtration	

Prep Batch: 122310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39536-1	MW-01A-GW-001	Dissolved	Water	3005A	122307
490-39536-3	MW-01B-GW-001	Dissolved	Water	3005A	122307
490-39536-5	MW-02A-GW-001	Dissolved	Water	3005A	122307
490-39536-7	MW-02B-GW-001	Dissolved	Water	3005A	122307
LCS 490-122307/2-B	Lab Control Sample	Dissolved	Water	3005A	122307
LCSD 490-122307/3-B	Lab Control Sample Dup	Dissolved	Water	3005A	122307
MB 490-122307/1-B	Method Blank	Dissolved	Water	3005A	122307

Prep Batch: 122786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39536-1	MW-01A-GW-001	Total/NA	Water	7470A	
490-39536-1 MS	MW-01A-GW-001	Total/NA	Water	7470A	
490-39536-1 MSD	MW-01A-GW-001	Total/NA	Water	7470A	
490-39536-3	MW-01B-GW-001	Total/NA	Water	7470A	
490-39536-5	MW-02A-GW-001	Total/NA	Water	7470A	
490-39536-7	MW-02B-GW-001	Total/NA	Water	7470A	
LCS 490-122786/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 490-122786/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 123041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39536-1	MW-01A-GW-001	Total/NA	Water	7470A	122786
490-39536-1 MS	MW-01A-GW-001	Total/NA	Water	7470A	122786
490-39536-1 MSD	MW-01A-GW-001	Total/NA	Water	7470A	122786
490-39536-3	MW-01B-GW-001	Total/NA	Water	7470A	122786
490-39536-5	MW-02A-GW-001	Total/NA	Water	7470A	122786
490-39536-7	MW-02B-GW-001	Total/NA	Water	7470A	122786
LCS 490-122786/2-A	Lab Control Sample	Total/NA	Water	7470A	122786
MB 490-122786/1-A	Method Blank	Total/NA	Water	7470A	122786

Analysis Batch: 123170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39536-1	MW-01A-GW-001	Total/NA	Water	6020A	122101
490-39536-3	MW-01B-GW-001	Total/NA	Water	6020A	122101
490-39536-5	MW-02A-GW-001	Total/NA	Water	6020A	122101
490-39536-7	MW-02B-GW-001	Total/NA	Water	6020A	122101
490-39837-A-2-A MSD	Matrix Spike Duplicate	Total/NA	Water	6020A	122101
490-39837-L-2-B MS	Matrix Spike	Total/NA	Water	6020A	122101
LCS 490-122101/2-A	Lab Control Sample	Total/NA	Water	6020A	122101
MB 490-122101/1-A	Method Blank	Total/NA	Water	6020A	122101

Analysis Batch: 123296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39536-1	MW-01A-GW-001	Total/NA	Water	6020A	122101
490-39536-1	MW-01A-GW-001	Total/NA	Water	6020A	122101
490-39536-3	MW-01B-GW-001	Total/NA	Water	6020A	122101

Metals (Continued)

Analysis Batch: 123296 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39536-3	MW-01B-GW-001	Total/NA	Water	6020A	122101
490-39536-5	MW-02A-GW-001	Total/NA	Water	6020A	122101
490-39536-5	MW-02A-GW-001	Total/NA	Water	6020A	122101
490-39536-7	MW-02B-GW-001	Total/NA	Water	6020A	122101
490-39536-7	MW-02B-GW-001	Total/NA	Water	6020A	122101
LCS 490-122101/2-A	Lab Control Sample	Total/NA	Water	6020A	122101
MB 490-122101/1-A	Method Blank	Total/NA	Water	6020A	122101

Analysis Batch: 123310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39536-1	MW-01A-GW-001	Dissolved	Water	6020A	122310
490-39536-3	MW-01B-GW-001	Dissolved	Water	6020A	122310
490-39536-5	MW-02A-GW-001	Dissolved	Water	6020A	122310
490-39536-7	MW-02B-GW-001	Dissolved	Water	6020A	122310
LCS 490-122307/2-B	Lab Control Sample	Dissolved	Water	6020A	122310
LCSD 490-122307/3-B	Lab Control Sample Dup	Dissolved	Water	6020A	122310
MB 490-122307/1-B	Method Blank	Dissolved	Water	6020A	122310

General Chemistry

Analysis Batch: 120062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39536-1	MW-01A-GW-001	Total/NA	Water	SM 4500 CO2 C	
490-39536-3	MW-01B-GW-001	Total/NA	Water	SM 4500 CO2 C	
490-39536-5	MW-02A-GW-001	Total/NA	Water	SM 4500 CO2 C	
490-39536-7	MW-02B-GW-001	Total/NA	Water	SM 4500 CO2 C	
490-39566-M-4 DU	Duplicate	Total/NA	Water	SM 4500 CO2 C	
LCS 490-120062/2	Lab Control Sample	Total/NA	Water	SM 4500 CO2 C	
LCSD 490-120062/22	Lab Control Sample Dup	Total/NA	Water	SM 4500 CO2 C	
MB 490-120062/1	Method Blank	Total/NA	Water	SM 4500 CO2 C	

Analysis Batch: 120082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39536-2	MW-01A-GW-001	Total/NA	Water	7196A	
490-39536-4	MW-01B-GW-001	Total/NA	Water	7196A	
490-39536-4 DU	MW-01B-GW-001	Total/NA	Water	7196A	
490-39536-4 MS	MW-01B-GW-001	Total/NA	Water	7196A	
490-39536-4 MSD	MW-01B-GW-001	Total/NA	Water	7196A	
490-39536-6	MW-02A-GW-001	Total/NA	Water	7196A	
490-39536-7	MW-02B-GW-001	Total/NA	Water	7196A	
LCS 490-120082/3	Lab Control Sample	Total/NA	Water	7196A	
MB 490-120082/2	Method Blank	Total/NA	Water	7196A	

Prep Batch: 120788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39536-1	MW-01A-GW-001	Total/NA	Water	9030B	
490-39536-1 MS	MW-01A-GW-001	Total/NA	Water	9030B	
490-39536-1 MSD	MW-01A-GW-001	Total/NA	Water	9030B	
490-39536-3	MW-01B-GW-001	Total/NA	Water	9030B	
490-39536-5	MW-02A-GW-001	Total/NA	Water	9030B	

General Chemistry (Continued)

Prep Batch: 120788 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39536-7	MW-02B-GW-001	Total/NA	Water	9030B	
490-39692-O-1-B DU	Duplicate	Total/NA	Water	9030B	
LCS 490-120788/2-A	Lab Control Sample	Total/NA	Water	9030B	
MB 490-120788/1-A	Method Blank	Total/NA	Water	9030B	

Analysis Batch: 121913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39437-N-1 MS	Matrix Spike	Total/NA	Water	9060A	
490-39536-1	MW-01A-GW-001	Total/NA	Water	9060A	
490-39536-3	MW-01B-GW-001	Total/NA	Water	9060A	
490-39536-3 MS	MW-01B-GW-001	Total/NA	Water	9060A	
490-39536-5	MW-02A-GW-001	Total/NA	Water	9060A	
490-39536-7	MW-02B-GW-001	Total/NA	Water	9060A	
LCS 490-121913/5	Lab Control Sample	Total/NA	Water	9060A	
LCSD 490-121913/6	Lab Control Sample Dup	Total/NA	Water	9060A	
MB 490-121913/1	Method Blank	Total/NA	Water	9060A	

Analysis Batch: 122205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39536-1	MW-01A-GW-001	Total/NA	Water	9034	120788
490-39536-1 MS	MW-01A-GW-001	Total/NA	Water	9034	120788
490-39536-1 MSD	MW-01A-GW-001	Total/NA	Water	9034	120788
490-39536-3	MW-01B-GW-001	Total/NA	Water	9034	120788
490-39536-5	MW-02A-GW-001	Total/NA	Water	9034	120788
490-39536-7	MW-02B-GW-001	Total/NA	Water	9034	120788
490-39692-O-1-B DU	Duplicate	Total/NA	Water	9034	120788
LCS 490-120788/2-A	Lab Control Sample	Total/NA	Water	9034	120788
MB 490-120788/1-A	Method Blank	Total/NA	Water	9034	120788

Filtration Batch: 122384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39437-R-1-B MS	Matrix Spike	Dissolved	Water	Filtration	
490-39536-1	MW-01A-GW-001	Dissolved	Water	Filtration	
490-39536-3	MW-01B-GW-001	Dissolved	Water	Filtration	
490-39536-5	MW-02A-GW-001	Dissolved	Water	Filtration	
490-39536-7	MW-02B-GW-001	Dissolved	Water	Filtration	
490-39837-R-2-B MS	Matrix Spike	Dissolved	Water	Filtration	
LCS 490-122384/2-A	Lab Control Sample	Dissolved	Water	Filtration	
MB 490-122384/1-A	Method Blank	Dissolved	Water	Filtration	

Analysis Batch: 122516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39437-R-1-B MS	Matrix Spike	Dissolved	Water	9060A	122384
490-39536-1	MW-01A-GW-001	Dissolved	Water	9060A	122384
490-39536-3	MW-01B-GW-001	Dissolved	Water	9060A	122384
490-39536-5	MW-02A-GW-001	Dissolved	Water	9060A	122384
490-39536-7	MW-02B-GW-001	Dissolved	Water	9060A	122384
490-39837-R-2-B MS	Matrix Spike	Dissolved	Water	9060A	122384
LCS 490-122384/2-A	Lab Control Sample	Dissolved	Water	9060A	122384
MB 490-122384/1-A	Method Blank	Dissolved	Water	9060A	122384

General Chemistry (Continued)

Prep Batch: 123102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39536-1	MW-01A-GW-001	Total/NA	Water	9012B	
490-39536-3	MW-01B-GW-001	Total/NA	Water	9012B	
490-39536-3 MS	MW-01B-GW-001	Total/NA	Water	9012B	
490-39536-3 MSD	MW-01B-GW-001	Total/NA	Water	9012B	
490-39536-5	MW-02A-GW-001	Total/NA	Water	9012B	
490-39536-7	MW-02B-GW-001	Total/NA	Water	9012B	
490-39536-7 DU	MW-02B-GW-001	Total/NA	Water	9012B	
LCS 490-123102/2-A	Lab Control Sample	Total/NA	Water	9012B	
MB 490-123102/1-A	Method Blank	Total/NA	Water	9012B	

Analysis Batch: 123242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39536-1	MW-01A-GW-001	Total/NA	Water	9012B	123102
490-39536-3	MW-01B-GW-001	Total/NA	Water	9012B	123102
490-39536-3 MS	MW-01B-GW-001	Total/NA	Water	9012B	123102
490-39536-3 MSD	MW-01B-GW-001	Total/NA	Water	9012B	123102
490-39536-5	MW-02A-GW-001	Total/NA	Water	9012B	123102
490-39536-7	MW-02B-GW-001	Total/NA	Water	9012B	123102
490-39536-7 DU	MW-02B-GW-001	Total/NA	Water	9012B	123102
LCS 490-123102/2-A	Lab Control Sample	Total/NA	Water	9012B	123102
MB 490-123102/1-A	Method Blank	Total/NA	Water	9012B	123102

Analysis Batch: 123364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-40679-A-1 DU	Duplicate	Total/NA	Water	7196A	
490-40679-A-1 MS	Matrix Spike	Total/NA	Water	7196A	
490-40679-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	7196A	
LCS 490-123364/3	Lab Control Sample	Total/NA	Water	7196A	
MB 490-123364/4	Method Blank	Total/NA	Water	7196A	

Client Sample ID: MW-01A-GW-001

Lab Sample ID: 490-39536-1

Date Collected: 11/05/13 09:07

Matrix: Water

Date Received: 11/06/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	121637	11/13/13 15:02	MGH	TAL NSH
Total/NA	Analysis	8015C		1	121932	11/14/13 17:00	JPS	TAL NSH
Total/NA	Prep	3510C			121501	11/13/13 09:20	FXM	TAL NSH
Total/NA	Analysis	8082A		1	121889	11/14/13 14:08	WAM	TAL NSH
Total/NA	Analysis	9056A		1	119906	11/06/13 22:31	JHS	TAL NSH
Total/NA	Analysis	9056A		1	119907	11/06/13 22:31	JHS	TAL NSH
Total/NA	Prep	7470A			122786	11/18/13 11:53	LTB	TAL NSH
Total/NA	Analysis	7470A		1	123041	11/19/13 10:21	LTB	TAL NSH
Total/NA	Analysis	6020A		1	123170	11/18/13 23:07	BWW	TAL NSH
Total/NA	Prep	3010A			122101	11/15/13 06:10	NLI	TAL NSH
Total/NA	Analysis	6020A		1	123296	11/19/13 18:54	BWW	TAL NSH
Total/NA	Analysis	6020A		5	123296	11/19/13 19:14	BWW	TAL NSH
Dissolved	Filtration	Filtration			122307	11/15/13 12:49	NLI	TAL NSH
Dissolved	Prep	3005A			122310	11/15/13 12:50	NLI	TAL NSH
Dissolved	Analysis	6020A		10	123310	11/19/13 16:49	BWW	TAL NSH
Total/NA	Analysis	SM 4500 CO2 C		1	120062	11/06/13 16:47	BLM	TAL NSH
Total/NA	Analysis	9060A		1	121913	11/13/13 09:48	JKF	TAL NSH
Total/NA	Prep	9030B			120788	11/09/13 14:35	SDJ	TAL NSH
Total/NA	Analysis	9034		1	122205	11/09/13 17:04	SDJ	TAL NSH
Dissolved	Filtration	Filtration			122384	11/15/13 10:00	CLJ	TAL NSH
Dissolved	Analysis	9060A		1	122516	11/15/13 16:31	JKF	TAL NSH
Total/NA	Prep	9012B			123102	11/19/13 11:38	REM	TAL NSH
Total/NA	Analysis	9012B		1	123242	11/19/13 17:18	TEM	TAL NSH

Client Sample ID: MW-01A-GW-001

Lab Sample ID: 490-39536-2

Date Collected: 11/05/13 17:02

Matrix: Water

Date Received: 11/06/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1	120082	11/06/13 12:34	BLM	TAL NSH

Client Sample ID: MW-01B-GW-001

Lab Sample ID: 490-39536-3

Date Collected: 11/05/13 11:45

Matrix: Water

Date Received: 11/06/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	121637	11/13/13 15:04	MGH	TAL NSH
Total/NA	Analysis	RSK-175		20	121637	11/13/13 15:07	MGH	TAL NSH
Total/NA	Analysis	8015C		1	121932	11/14/13 17:19	JPS	TAL NSH
Total/NA	Prep	3510C			121501	11/13/13 09:20	FXM	TAL NSH
Total/NA	Analysis	8082A		1	121889	11/14/13 14:21	WAM	TAL NSH
Total/NA	Analysis	9056A		1	119906	11/07/13 00:12	JHS	TAL NSH

Client Sample ID: MW-01B-GW-001

Lab Sample ID: 490-39536-3

Date Collected: 11/05/13 11:45

Matrix: Water

Date Received: 11/06/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9056A		1	119907	11/07/13 00:12	JHS	TAL NSH
Total/NA	Prep	7470A			122786	11/18/13 11:53	LTB	TAL NSH
Total/NA	Analysis	7470A		1	123041	11/19/13 10:30	LTB	TAL NSH
Total/NA	Prep	3010A			122101	11/15/13 06:10	NLI	TAL NSH
Total/NA	Analysis	6020A		1	123170	11/18/13 23:11	BWW	TAL NSH
Total/NA	Analysis	6020A		1	123296	11/19/13 18:59	BWW	TAL NSH
Total/NA	Analysis	6020A		5	123296	11/19/13 19:18	BWW	TAL NSH
Dissolved	Filtration	Filtration			122307	11/15/13 12:49	NLI	TAL NSH
Dissolved	Prep	3005A			122310	11/15/13 12:50	NLI	TAL NSH
Dissolved	Analysis	6020A		10	123310	11/19/13 16:54	BWW	TAL NSH
Total/NA	Analysis	SM 4500 CO2 C		1	120062	11/06/13 16:51	BLM	TAL NSH
Total/NA	Analysis	9060A		1	121913	11/13/13 09:48	JKF	TAL NSH
Total/NA	Prep	9030B			120788	11/09/13 14:35	SDJ	TAL NSH
Total/NA	Analysis	9034		1	122205	11/09/13 17:04	SDJ	TAL NSH
Dissolved	Filtration	Filtration			122384	11/15/13 10:00	CLJ	TAL NSH
Dissolved	Analysis	9060A		1	122516	11/15/13 16:31	JKF	TAL NSH
Total/NA	Prep	9012B			123102	11/19/13 11:38	REM	TAL NSH
Total/NA	Analysis	9012B		1	123242	11/19/13 17:19	TEM	TAL NSH

Client Sample ID: MW-01B-GW-001

Lab Sample ID: 490-39536-4

Date Collected: 11/05/13 17:06

Matrix: Water

Date Received: 11/06/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1	120082	11/06/13 12:43	BLM	TAL NSH

Client Sample ID: MW-02A-GW-001

Lab Sample ID: 490-39536-5

Date Collected: 11/05/13 14:22

Matrix: Water

Date Received: 11/06/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	121637	11/13/13 15:11	MGH	TAL NSH
Total/NA	Analysis	8015C		1	122083	11/15/13 00:29	JPS	TAL NSH
Total/NA	Prep	3510C			121501	11/13/13 09:20	FXM	TAL NSH
Total/NA	Analysis	8082A		1	121889	11/14/13 14:33	WAM	TAL NSH
Total/NA	Analysis	9056A		1	119906	11/07/13 00:32	JHS	TAL NSH
Total/NA	Analysis	9056A		1	119907	11/07/13 00:32	JHS	TAL NSH
Total/NA	Prep	7470A			122786	11/18/13 11:53	LTB	TAL NSH
Total/NA	Analysis	7470A		1	123041	11/19/13 10:32	LTB	TAL NSH
Total/NA	Analysis	6020A		1	123170	11/18/13 23:16	BWW	TAL NSH
Total/NA	Analysis	6020A		1	123296	11/19/13 19:04	BWW	TAL NSH
Total/NA	Prep	3010A			122101	11/15/13 06:10	NLI	TAL NSH

Client Sample ID: MW-02A-GW-001

Lab Sample ID: 490-39536-5

Date Collected: 11/05/13 14:22

Matrix: Water

Date Received: 11/06/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6020A		20	123296	11/19/13 19:23	BWW	TAL NSH
Dissolved	Filtration	Filtration			122307	11/15/13 12:49	NLI	TAL NSH
Dissolved	Prep	3005A			122310	11/15/13 12:50	NLI	TAL NSH
Dissolved	Analysis	6020A		20	123310	11/19/13 16:59	BWW	TAL NSH
Total/NA	Analysis	SM 4500 CO2 C		1	120062	11/06/13 16:56	BLM	TAL NSH
Total/NA	Analysis	9060A		1	121913	11/13/13 09:48	JKF	TAL NSH
Total/NA	Prep	9030B			120788	11/09/13 14:35	SDJ	TAL NSH
Total/NA	Analysis	9034		1	122205	11/09/13 17:04	SDJ	TAL NSH
Dissolved	Filtration	Filtration			122384	11/15/13 10:00	CLJ	TAL NSH
Dissolved	Analysis	9060A		1	122516	11/15/13 16:31	JKF	TAL NSH
Total/NA	Prep	9012B			123102	11/19/13 11:38	REM	TAL NSH
Total/NA	Analysis	9012B		1	123242	11/19/13 17:21	TEM	TAL NSH

Client Sample ID: MW-02A-GW-001

Lab Sample ID: 490-39536-6

Date Collected: 11/05/13 16:47

Matrix: Water

Date Received: 11/06/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1	120082	11/06/13 13:05	BLM	TAL NSH

Client Sample ID: MW-02B-GW-001

Lab Sample ID: 490-39536-7

Date Collected: 11/05/13 16:15

Matrix: Water

Date Received: 11/06/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	121637	11/13/13 15:14	MGH	TAL NSH
Total/NA	Analysis	RSK-175		5	121637	11/13/13 15:16	MGH	TAL NSH
Total/NA	Analysis	8015C		1	122083	11/15/13 00:48	JPS	TAL NSH
Total/NA	Analysis	8082A		1	121889	11/14/13 14:46	WAM	TAL NSH
Total/NA	Prep	3510C			121501	11/13/13 09:20	FXM	TAL NSH
Total/NA	Analysis	9056A		1	119906	11/07/13 00:52	JHS	TAL NSH
Total/NA	Analysis	9056A		1	119907	11/07/13 00:52	JHS	TAL NSH
Total/NA	Prep	7470A			122786	11/18/13 11:53	LTB	TAL NSH
Total/NA	Analysis	7470A		1	123041	11/19/13 10:33	LTB	TAL NSH
Total/NA	Analysis	6020A		1	123170	11/18/13 23:21	BWW	TAL NSH
Total/NA	Prep	3010A			122101	11/15/13 06:10	NLI	TAL NSH
Total/NA	Analysis	6020A		1	123296	11/19/13 19:09	BWW	TAL NSH
Total/NA	Analysis	6020A		20	123296	11/19/13 19:28	BWW	TAL NSH
Dissolved	Filtration	Filtration			122307	11/15/13 12:49	NLI	TAL NSH
Dissolved	Prep	3005A			122310	11/15/13 12:50	NLI	TAL NSH
Dissolved	Analysis	6020A		10	123310	11/19/13 17:13	BWW	TAL NSH
Total/NA	Analysis	SM 4500 CO2 C		1	120062	11/06/13 17:01	BLM	TAL NSH

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39536-1

Client Sample ID: MW-02B-GW-001
Date Collected: 11/05/13 16:15
Date Received: 11/06/13 08:15

Lab Sample ID: 490-39536-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1	120082	11/06/13 13:09	BLM	TAL NSH
Total/NA	Analysis	9060A		1	121913	11/13/13 09:48	JKF	TAL NSH
Total/NA	Prep	9030B			120788	11/09/13 14:35	SDJ	TAL NSH
Total/NA	Analysis	9034		1	122205	11/09/13 17:04	SDJ	TAL NSH
Dissolved	Filtration	Filtration			122384	11/15/13 10:00	CLJ	TAL NSH
Dissolved	Analysis	9060A		1	122516	11/15/13 16:31	JKF	TAL NSH
Total/NA	Prep	9012B			123102	11/19/13 11:38	REM	TAL NSH
Total/NA	Analysis	9012B		1	123242	11/19/13 17:22	TEM	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39536-1

Method	Method Description	Protocol	Laboratory
8015C	Glycols- Direct Injection (GC/FID)	SW846	TAL NSH
RSK-175	Dissolved Gases (GC)	RSK	TAL NSH
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL NSH
9056A	Anions, Ion Chromatography	SW846	TAL NSH
6020A	Metals (ICP/MS)	SW846	TAL NSH
7470A	Mercury (CVAA)	SW846	TAL NSH
7196A	Chromium, Hexavalent	SW846	TAL NSH
9012B	Cyanide, Total andor Amenable	SW846	TAL NSH
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL NSH
9060A	Organic Carbon, Total (TOC)	SW846	TAL NSH
9060A	Organic Carbon, Dissolved (DOC)	SW846	TAL NSH
SM 4500 CO2 C	Free Carbon Dioxide	SM	TAL NSH

Protocol References:

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab
SM = "Standard Methods For The Examination Of Water And Wastewater",
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39536-1

Laboratory: TestAmerica Nashville

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alaska (UST)	State Program	10	UST-087	07-24-14
Arizona	State Program	9	AZ0473	05-05-14
Arizona	State Program	9	AZ0473	05-05-14 *
Arkansas DEQ	State Program	6	88-0737	04-25-14
California	NELAP	9	1168CA	10-31-14
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-14
Illinois	NELAP	5	200010	12-09-14
Iowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-14
Kentucky (UST)	State Program	4	19	06-30-14
Louisiana	NELAP	6	30613	06-30-14
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	1	M-TN032	06-30-14
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-14
Montana (UST)	State Program	8	NA	01-01-20
Nevada	State Program	9	TN00032	07-31-14
New Hampshire	NELAP	1	2963	10-10-14
New Jersey	NELAP	2	TN965	06-30-14
New York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-13
North Dakota	State Program	8	R-146	06-30-14
Ohio VAP	State Program	5	CL0033	10-16-15
Oklahoma	State Program	6	9412	08-31-14
Oregon	NELAP	10	TN200001	04-29-14
Pennsylvania	NELAP	3	68-00585	06-30-14
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	02-28-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-14
USDA	Federal		S-48469	10-30-16
Utah	NELAP	8	TN00032	07-31-14
Virginia	NELAP	3	460152	06-14-14
Washington	State Program	10	C789	07-19-14
West Virginia DEP	State Program	3	219	02-28-14
Wisconsin	State Program	5	998020430	08-31-14
Wyoming (UST)	A2LA	8	453.07	12-31-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-39536 Chain of Custody

Cooler Received/Opened On 11/6/2013 @ 0815

1. Tracking # 1640 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 17960358

2. Temperature of rep. sample or temp blank when opened: 3.9 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? (YES)...NO...NA

If yes, how many and where: 2 front

5. Were the seals intact, signed, and dated correctly? (YES)...NO...NA

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) ELA

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) (Plastic bag) Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? (YES)...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...(NO)...NA

14. Was there a Trip Blank in this cooler? (YES)...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) DA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? (YES)...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used (YES)...NO...NA

16. Was residual chlorine present? YES...(NO)...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) DA

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) DA

I certify that I attached a label with the unique LIMS number to each container (intial) DA

21. Were there Non-Conformance issues at login? YES...(NO) Was a NCM generated? YES...(NO)...# 89479

DA 11-6-13

BIS = Broken in shipment

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

Loc: 490
39536

COOLER RECEIPT FORM

Cooler Received/Opened On 11/6/2013@ 0815

1. Tracking # 1639 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 96210146

2. Temperature of rep. sample or temp blank when opened: 5.5 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? (YES) ..NO...NA

If yes, how many and where: Two front

5. Were the seals intact, signed, and dated correctly? (YES) ..NO...NA

6. Were custody papers inside cooler? (YES) NO ..NA DA 11-6-13

I certify that I opened the cooler and answered questions 1-6 (intial) DA

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) (Plastic bag) Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES) ..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES) ..NO...NA

12. Did all container labels and tags agree with custody papers? (YES) ..NO...NA

13a. Were VOA vials received? (YES) ..NO...NA

b. Was there any observable headspace present in any VOA vial? YES..(NO)..NA

14. Was there a Trip Blank in this cooler? YES..(NO)..NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) DA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? (YES) NO..NA

b. Did the bottle labels indicate that the correct preservatives were used (YES) ..NO...NA

16. Was residual chlorine present? YES..(NO)..NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) DA

17. Were custody papers properly filled out (ink, signed, etc)? (YES) ..NO...NA

18. Did you sign the custody papers in the appropriate place? (YES) ..NO...NA

19. Were correct containers used for the analysis requested? (YES) ..NO...NA

20. Was sufficient amount of sample sent in each container? (YES) ..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) DA

I certify that I attached a label with the unique LIMS number to each container (intial) DA

21. Were there Non-Conformance issues at login? YES..(NO) Was a NCM generated? YES..(NO)..# 89479

DA 11-6-13

BIS = Broken in shipment

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

Loc: 490
39536

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

11/22/2013

Client Information	Sampler: John Knightly	Lab PM: Connor, Roxanne	Ca	COC No: 490-16687-6964.1
Client Contact: Mariruth Gruis	Phone: 913-522-6370	E-Mail: roxanne.connor@testamericainc.com		Page: Page 1 of 7
Company: Haley & Aldrich, Inc.				Job #:
Address: 11020 King Street Suite 450	Due Date Requested:			
City: Overland Park	TAT Requested (days): normal			
State, Zip: KS, 66210				
Phone: 913-636-3497(Tel)	PO #: Purchase Order Requested			
Email: mgruis@haleyaldrich.com	WO #:			
Project Name: Leeds Facility	Project #: 49003847			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B TCL	8270C TCL Semivolatiles List	Cr+6, SO4, Cl, NO3, NO2, CO2	6020A TCL metals + 7470A Hg	RSK_175 - Methane, Ethane, Ethylene	9060A TOC and DOC	9034 - Sulfide	9012B - Cyanide, Total	8015C_DAI_GLY - Ethylene Glycol	8082A - Standard PCBs (1016-1260)	1010A Flashpoint and 9040C pH	6020A Diss Mn (lab filtered)	6020A Fe & Mn	Total Number of containers	Special Instructions/Note:
				Preservation Code:																		
1	MW-01A-GW-001	11/5/13	0907		Water			X	X	X	X	X	X	X	X	X	X		X	X		
2	MW-01A-GW-001	11/5/13	1702		Water					X												Cr+6
3	MW-01B-GW-001	11/5/13	1145		Water			X	X	X	X	X	X	X	X	X	X		X	X		
4	MW-01B-GW-001	11/5/13	1706		Water					X												Cr+6
5	MW-02A-GW-001	11/5/13	1422		Water			X	X	X	X	X	X	X	X	X	X		X	X		
6	MW-02A-GW-001	11/5/13	1647		Water					X												Cr+6
7	MW-02B-GW-001	11/5/13	1615		Water			X	X	X	X	X	X	X	X	X	X		X	X		Cr+6
					Water																	
8	Trip Blank	—	—	—	Water			X														
					Water																	
					Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	John Knightly	11/5/13, 1915	H+A		11-6-13 0815	TAN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 3.9, 5.5

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 490-39536-1

Login Number: 39536

List Source: TestAmerica Nashville

List Number: 1

Creator: Armstrong, Daniel

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.9C, 5.5C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

ANALYTICAL REPORT

Job Number: 490-39837-2

Job Description: Former Leeds Assembly Plant

For:
Haley & Aldrich, Inc.
11020 King Street
Suite 450
Overland Park, KS 66210

Attention: Mariruth Gruis

Approved for release.
Roxanne Connor
Senior Project Manager
11/22/2013 11:06 AM

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CASE NARRATIVE

Client: Haley & Aldrich, Inc.

Project: Former Leeds Assembly Plant

Report Number: 490-39837-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Nashville attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 11/8/2013 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.1º C, 2.1º C and 3.4º C.

Except:

The following sample(s) were collected in properly preserved vials, however, the pH was outside the required criteria when verified by the laboratory: Equipment Blank (490-39837-9), Field Blank (490-39837-7).

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-03A-GW-001 (490-39837-1), MW-03B-GW-001 (490-39837-2), MW-03B-GW-002 (490-39837-4), MW-05-GW-001 (490-39837-6), Field Blank (490-39837-7), Equipment Blank (490-39837-9) and Trip Blank (490-39837-11) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 11/18/2013 and 11/19/2013.

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 122748 recovered outside control limits for the following analytes: Chlorobenzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 122748 recovered outside control limits for the following analytes: Tetrahydrofuran.

Method(s) 8260B: Vinyl chloride failed the recovery criteria low for the MS and MSD of sample MW-03B-GW-001(490-39837-2) in batch 490-122748. This is attributed to: abundance of Vinyl chloride at concentrations significantly higher than the spike concentration.

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 123017 was outside control limits. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision met acceptance criteria.

Samples MW-03B-GW-001 (490-39837-2)[10X] and MW-03B-GW-002 (490-39837-4)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the VOCs analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-03B-GW-001 (490-39837-2), MW-03B-GW-002 (490-39837-4), MW-05-GW-001 (490-39837-6), Field Blank (490-39837-7) and Equipment Blank (490-39837-9) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 11/14/2013 and analyzed on 11/15/2013.

Method(s) 8270C: The laboratory control sample (LCS) for batch 121926 recovered outside control limits for the following analytes: Benzaldehyde. This analyte was biased high in the LCS and was not detected in the following samples; therefore, the data have been reported: Equipment Blank (490-39837-9), Field Blank (490-39837-7), MW-03B-GW-001 (490-39837-2), MW-03B-GW-002 (490-39837-4), MW-05-GW-001 (490-39837-6).

Method(s) 8270C: The matrix spike / matrix spike duplicate (MS/MSD) percent recoveries and %RPD for batch 121926 were outside control limits for Bis(2-ethylhexyl) phthalate. This is attributed to matrix interferences.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

No other difficulties were encountered during the SVOCs analysis.

All other quality control parameters were within the acceptance limits.

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Instrument ID: HP35 Analysis Batch Number: 121964

Lab Sample ID: STD 490-121964/3 IC Client Sample ID:

Date Analyzed: 11/14/13 14:57 Lab File ID: 1114-03.D GC Column: ZB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3,3-Dimethyl-1-butanol	6.10	Poor chromatography	himelickm	11/14/13 18:52

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Instrument ID: HP31 Analysis Batch Number: 116166

Lab Sample ID: STD 490-116166/3 IC Client Sample ID:

Date Analyzed: 10/22/13 17:06 Lab File ID: 1022003.D GC Column: ZB-5MSi ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	1.82	Poor chromatography	phelpsk	10/23/13 10:11
N-Nitrosodimethylamine	2.17	Poor chromatography	phelpsk	10/23/13 10:11
Pyridine	2.21	Poor chromatography	phelpsk	10/23/13 10:11
2-Fluorophenol (Surr)	3.22	Poor chromatography	phelpsk	10/23/13 10:11
Phenol	3.84	Poor chromatography	phelpsk	10/23/13 10:11

Lab Sample ID: STD 490-116166/6 IC Client Sample ID:

Date Analyzed: 10/22/13 17:28 Lab File ID: 1022004.D GC Column: ZB-5MSi ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
N-Nitrosodimethylamine	2.15	Poor chromatography	phelpsk	10/23/13 10:09
Pyridine	2.17	Poor chromatography	phelpsk	10/23/13 10:09
4-Nitrophenol	6.28	Poor chromatography	phelpsk	10/23/13 10:09

Lab Sample ID: STD 490-116166/7 IC Client Sample ID:

Date Analyzed: 10/22/13 17:51 Lab File ID: 1022005.D GC Column: ZB-5MSi ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
N-Nitrosodimethylamine	2.13	Poor chromatography	phelpsk	10/23/13 10:07
Pyridine	2.16	Poor chromatography	phelpsk	10/23/13 10:07

Lab Sample ID: STD 490-116166/8 IC Client Sample ID:

Date Analyzed: 10/22/13 18:14 Lab File ID: 1022006.D GC Column: ZB-5MSi ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
N-Nitrosodimethylamine	2.11	Poor chromatography	phelpsk	10/23/13 10:05

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Instrument ID: HP31 Analysis Batch Number: 116166

Lab Sample ID: STD 490-116166/10 IC Client Sample ID:

Date Analyzed: 10/22/13 19:00 Lab File ID: 1022008.D GC Column: ZB-5MSi ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Caprolactam	5.10	Poor chromatography	phelpsk	10/23/13 10:01
Indeno[1,2,3-cd]pyrene	13.22	Poor chromatography	phelpsk	10/23/13 10:02

Lab Sample ID: STD 490-116166/11 IC Client Sample ID:

Date Analyzed: 10/22/13 19:23 Lab File ID: 1022009.D GC Column: ZB-5MSi ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Caprolactam	5.10	Poor chromatography	phelpsk	10/23/13 10:02
Indeno[1,2,3-cd]pyrene	13.22	Poor chromatography	phelpsk	10/23/13 10:02

Lab Sample ID: ICV 490-116166/12 Client Sample ID:

Date Analyzed: 10/22/13 19:45 Lab File ID: 1022010.D GC Column: ZB-5MSi ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
bis (2-chloroisopropyl) ether	4.18	Poor chromatography	phelpsk	10/23/13 11:07
Indeno[1,2,3-cd]pyrene	13.21	Poor chromatography	phelpsk	10/23/13 11:07

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Instrument ID: HP31 Analysis Batch Number: 122300

Lab Sample ID: LCS 490-121926/2-A Client Sample ID:

Date Analyzed: 11/15/13 15:47 Lab File ID: 1115007.D GC Column: ZB-5MSi ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
bis (2-chloroisopropyl) ether	3.96	Poor chromatography	phelpsk	11/18/13 09:38

Lab Sample ID: 490-39837-2 MS Client Sample ID: MW-03B-GW-001 MS

Date Analyzed: 11/15/13 17:42 Lab File ID: 1115010.D GC Column: ZB-5MSi ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
bis (2-chloroisopropyl) ether	3.97	Poor chromatography	phelpsk	11/18/13 09:44

Lab Sample ID: 490-39837-2 MSD Client Sample ID: MW-03B-GW-001 MSD

Date Analyzed: 11/15/13 18:06 Lab File ID: 1115011.D GC Column: ZB-5MSi ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
bis (2-chloroisopropyl) ether	3.96	Poor chromatography	phelpsk	11/18/13 09:50

SAMPLE SUMMARY

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
490-39837-1	MW-03A-GW-001	Water	11/07/2013 0935	11/08/2013 0815
490-39837-2	MW-03B-GW-001	Water	11/07/2013 1319	11/08/2013 0815
490-39837-2MS	MW-03B-GW-001	Water	11/07/2013 1319	11/08/2013 0815
490-39837-2MSD	MW-03B-GW-001	Water	11/07/2013 1319	11/08/2013 0815
490-39837-4	MW-03B-GW-002	Water	11/07/2013 1319	11/08/2013 0815
490-39837-6	MW-05-GW-001	Water	11/07/2013 1617	11/08/2013 0815
490-39837-7FB	Field Blank	Water	11/07/2013 0956	11/08/2013 0815
490-39837-9EB	Equipment Blank	Water	11/07/2013 1038	11/08/2013 0815
490-39837-11TB	Trip Blank	Water	11/07/2013 0001	11/08/2013 0815

EXECUTIVE SUMMARY - Detections

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-39837-2	**MW-03B-GW-001**					
cis-1,2-Dichloroethene		38.1		1.00	ug/L	8260B
trans-1,2-Dichloroethene		1.32		1.00	ug/L	8260B
Vinyl chloride		798		10.0	ug/L	8260B
490-39837-4	**MW-03B-GW-002**					
cis-1,2-Dichloroethene		33.7		1.00	ug/L	8260B
trans-1,2-Dichloroethene		1.34		1.00	ug/L	8260B
Vinyl chloride		847		10.0	ug/L	8260B
Bis(2-ethylhexyl) phthalate		6.77	J	9.35	ug/L	8270C
490-39837-6	**MW-05-GW-001**					
Vinyl chloride		0.294	J	1.00	ug/L	8260B
490-39837-7FB	**FIELD BLANK**					
Bis(2-ethylhexyl) phthalate		37.3		9.35	ug/L	8270C

METHOD SUMMARY

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL NSH	SW846 8260B	
Purge and Trap	TAL NSH		SW846 5030B
Semivolatile Organic Compounds (GC/MS)	TAL NSH	SW846 8270C	
Liquid-Liquid Extraction (Separatory Funnel)	TAL NSH		SW846 3510C

Lab References:

TAL NSH = TestAmerica Nashville

Method References:

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

METHOD / ANALYST SUMMARY

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Method	Analyst	Analyst ID
SW846 8260B	Himelick, Marc	MJH
SW846 8270C	Phelps, Ken	KJP

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Client Sample ID: **MW-03A-GW-001**

Lab Sample ID: 490-39837-1 Date Sampled: 11/07/2013 0935
Client Matrix: Water Date Received: 11/08/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-122748	Instrument ID:	HP35
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1118-11.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	11/18/2013 1544			Final Weight/Volume:	10 mL
Prep Date:	11/18/2013 1544				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND	*	0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	ND		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND	*	2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00
1,1,2-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Client Sample ID: **MW-03A-GW-001**

Lab Sample ID: 490-39837-1 Date Sampled: 11/07/2013 0935
Client Matrix: Water Date Received: 11/08/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-122748	Instrument ID:	HP35
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1118-11.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	11/18/2013 1544			Final Weight/Volume:	10 mL
Prep Date:	11/18/2013 1544				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	ND		0.200	1.00
Trichlorofluoromethane	ND		0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	ND		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
Toluene-d8 (Surr)	118		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Client Sample ID: **MW-03B-GW-001**

Lab Sample ID: 490-39837-2 Date Sampled: 11/07/2013 1319
Client Matrix: Water Date Received: 11/08/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-122748	Instrument ID:	HP35
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1118-12.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	11/18/2013 1615			Final Weight/Volume:	10 mL
Prep Date:	11/18/2013 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND	*	0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	38.1		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND	*	2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	1.32		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00
1,1,2-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Client Sample ID: **MW-03B-GW-001**

Lab Sample ID: 490-39837-2 Date Sampled: 11/07/2013 1319
Client Matrix: Water Date Received: 11/08/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-122748	Instrument ID:	HP35
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1118-12.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	11/18/2013 1615			Final Weight/Volume:	10 mL
Prep Date:	11/18/2013 1615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	ND		0.200	1.00
Trichlorofluoromethane	ND		0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
Dibromofluoromethane (Surr)	106		70 - 130
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
Toluene-d8 (Surr)	120		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Client Sample ID: **MW-03B-GW-001**

Lab Sample ID: 490-39837-2 Date Sampled: 11/07/2013 1319
Client Matrix: Water Date Received: 11/08/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-123017	Instrument ID:	HP35
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1119-09.D
Dilution:	10			Initial Weight/Volume:	10 mL
Analysis Date:	11/19/2013 1604			Final Weight/Volume:	10 mL
Prep Date:	11/19/2013 1604				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	798		1.80	10.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
Toluene-d8 (Surr)	119		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Client Sample ID: **MW-03B-GW-002**

Lab Sample ID: 490-39837-4 Date Sampled: 11/07/2013 1319
Client Matrix: Water Date Received: 11/08/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-122748	Instrument ID:	HP35
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1118-13.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	11/18/2013 1645			Final Weight/Volume:	10 mL
Prep Date:	11/18/2013 1645				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND	*	0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	33.7		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND	*	2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	1.34		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00
1,1,2-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Client Sample ID: **MW-03B-GW-002**

Lab Sample ID: 490-39837-4 Date Sampled: 11/07/2013 1319
Client Matrix: Water Date Received: 11/08/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-122748	Instrument ID:	HP35
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1118-13.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	11/18/2013 1645			Final Weight/Volume:	10 mL
Prep Date:	11/18/2013 1645				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	ND		0.200	1.00
Trichlorofluoromethane	ND		0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
Toluene-d8 (Surr)	107		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Client Sample ID: **MW-03B-GW-002**

Lab Sample ID: 490-39837-4 Date Sampled: 11/07/2013 1319
Client Matrix: Water Date Received: 11/08/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-123017	Instrument ID:	HP35
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1119-10.D
Dilution:	10			Initial Weight/Volume:	10 mL
Analysis Date:	11/19/2013 1634			Final Weight/Volume:	10 mL
Prep Date:	11/19/2013 1634				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	847		1.80	10.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	109		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Client Sample ID: **MW-05-GW-001**

Lab Sample ID: 490-39837-6 Date Sampled: 11/07/2013 1617
Client Matrix: Water Date Received: 11/08/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-122748	Instrument ID:	HP35
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1118-14.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	11/18/2013 1716			Final Weight/Volume:	10 mL
Prep Date:	11/18/2013 1716				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND	*	0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	ND		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND	*	2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00
1,1,2-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Client Sample ID: **MW-05-GW-001**

Lab Sample ID: 490-39837-6 Date Sampled: 11/07/2013 1617
Client Matrix: Water Date Received: 11/08/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-122748	Instrument ID:	HP35
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1118-14.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	11/18/2013 1716			Final Weight/Volume:	10 mL
Prep Date:	11/18/2013 1716				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	ND		0.200	1.00
Trichlorofluoromethane	ND		0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	0.294	J	0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
Dibromofluoromethane (Surr)	106		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
Toluene-d8 (Surr)	110		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Client Sample ID: **Field Blank**

Lab Sample ID: 490-39837-7FB Date Sampled: 11/07/2013 0956
Client Matrix: Water Date Received: 11/08/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-122748	Instrument ID:	HP35
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1118-08.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	11/18/2013 1411			Final Weight/Volume:	10 mL
Prep Date:	11/18/2013 1411				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND	*	0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	ND		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND	*	2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00
1,1,2-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Client Sample ID: **Field Blank**

Lab Sample ID: 490-39837-7FB Date Sampled: 11/07/2013 0956
Client Matrix: Water Date Received: 11/08/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-122748	Instrument ID:	HP35
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1118-08.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	11/18/2013 1411			Final Weight/Volume:	10 mL
Prep Date:	11/18/2013 1411				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	ND		0.200	1.00
Trichlorofluoromethane	ND		0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	ND		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
Toluene-d8 (Surr)	122		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Client Sample ID: **Equipment Blank**

Lab Sample ID: 490-39837-9EB Date Sampled: 11/07/2013 1038
Client Matrix: Water Date Received: 11/08/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-122748	Instrument ID:	HP35
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1118-09.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	11/18/2013 1442			Final Weight/Volume:	10 mL
Prep Date:	11/18/2013 1442				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND	*	0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	ND		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND	*	2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00
1,1,2-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Client Sample ID: **Equipment Blank**

Lab Sample ID: 490-39837-9EB Date Sampled: 11/07/2013 1038
Client Matrix: Water Date Received: 11/08/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-122748	Instrument ID:	HP35
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1118-09.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	11/18/2013 1442			Final Weight/Volume:	10 mL
Prep Date:	11/18/2013 1442				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	ND		0.200	1.00
Trichlorofluoromethane	ND		0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	ND		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
Toluene-d8 (Surr)	119		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Client Sample ID: **Trip Blank**

Lab Sample ID: 490-39837-11TB Date Sampled: 11/07/2013 0001
Client Matrix: Water Date Received: 11/08/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-122748	Instrument ID:	HP35
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1118-10.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	11/18/2013 1513			Final Weight/Volume:	10 mL
Prep Date:	11/18/2013 1513				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND	*	0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	ND		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND	*	2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00
1,1,2-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Client Sample ID: **Trip Blank**

Lab Sample ID: 490-39837-11TB Date Sampled: 11/07/2013 0001
Client Matrix: Water Date Received: 11/08/2013 0815

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-122748	Instrument ID:	HP35
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	1118-10.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Analysis Date:	11/18/2013 1513			Final Weight/Volume:	10 mL
Prep Date:	11/18/2013 1513				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	ND		0.200	1.00
Trichlorofluoromethane	ND		0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	ND		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
Toluene-d8 (Surr)	118		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Client Sample ID: **MW-03B-GW-001**

Lab Sample ID: 490-39837-2 Date Sampled: 11/07/2013 1319
Client Matrix: Water Date Received: 11/08/2013 0815

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	490-122300	Instrument ID:	HP31
Prep Method:	3510C	Prep Batch:	490-121926	Lab File ID:	1115009.D
Dilution:	1.0			Initial Weight/Volume:	1070 mL
Analysis Date:	11/15/2013 1719			Final Weight/Volume:	1 mL
Prep Date:	11/14/2013 1154			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.342	1.87
Acenaphthylene	ND		0.308	1.87
Acetophenone	ND		1.78	9.35
Anthracene	ND		0.825	1.87
Atrazine	ND		3.46	9.35
Benzaldehyde	ND		2.01	9.35
Benzo[a]anthracene	ND		0.303	1.87
Benzo[a]pyrene	ND		0.308	1.87
Benzo[b]fluoranthene	ND		0.394	1.87
Benzo[g,h,i]perylene	ND		0.268	1.87
Benzo[k]fluoranthene	ND		0.340	1.87
Biphenyl	ND		3.11	9.35
Bis(2-chloroethoxy)methane	ND		1.27	9.35
Bis(2-chloroethyl)ether	ND		1.30	9.35
bis (2-chloroisopropyl) ether	ND		1.83	9.35
Bis(2-ethylhexyl) phthalate	ND		1.93	9.35
4-Bromophenyl phenyl ether	ND		1.28	9.35
Butyl benzyl phthalate	ND		1.63	9.35
Caprolactam	ND		3.11	9.35
Carbazole	ND		0.279	9.35
4-Chloroaniline	ND		1.09	9.35
4-Chloro-3-methylphenol	ND		3.11	9.35
2-Chloronaphthalene	ND		1.53	9.35
2-Chlorophenol	ND		1.49	9.35
4-Chlorophenyl phenyl ether	ND		1.64	9.35
Chrysene	ND		1.02	1.87
Dibenz(a,h)anthracene	ND		0.602	1.87
Dibenzofuran	ND		0.317	9.35
3,3'-Dichlorobenzidine	ND		1.42	9.35
2,4-Dichlorophenol	ND		0.953	9.35
Diethyl phthalate	ND		1.51	9.35
2,4-Dimethylphenol	ND		0.931	9.35
Dimethyl phthalate	ND		1.69	9.35
Di-n-butyl phthalate	ND		1.40	9.35
4,6-Dinitro-2-methylphenol	ND		1.93	23.4
2,4-Dinitrophenol	ND		2.30	23.4
2,4-Dinitrotoluene	ND		3.11	9.35
2,6-Dinitrotoluene	ND		1.81	9.35
Di-n-octyl phthalate	ND		2.16	9.35
Fluoranthene	ND		0.324	1.87
Fluorene	ND		0.295	1.87
Hexachlorobenzene	ND		1.58	9.35
Hexachlorobutadiene	ND		3.11	9.35
Hexachlorocyclopentadiene	ND		3.11	9.35
Hexachloroethane	ND		3.11	9.35
Indeno[1,2,3-cd]pyrene	ND		0.356	1.87

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Client Sample ID: **MW-03B-GW-001**

Lab Sample ID: 490-39837-2 Date Sampled: 11/07/2013 1319
Client Matrix: Water Date Received: 11/08/2013 0815

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	490-122300	Instrument ID:	HP31
Prep Method:	3510C	Prep Batch:	490-121926	Lab File ID:	1115009.D
Dilution:	1.0			Initial Weight/Volume:	1070 mL
Analysis Date:	11/15/2013 1719			Final Weight/Volume:	1 mL
Prep Date:	11/14/2013 1154			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isophorone	ND		1.16	9.35
2-Methylnaphthalene	ND		0.291	1.87
2-Methylphenol	ND		3.11	9.35
3 & 4 Methylphenol	ND		3.11	9.35
Naphthalene	ND		0.372	1.87
2-Nitroaniline	ND		0.972	23.4
3-Nitroaniline	ND		1.73	23.4
4-Nitroaniline	ND		2.23	23.4
Nitrobenzene	ND		1.16	9.35
2-Nitrophenol	ND		1.47	9.35
4-Nitrophenol	ND		3.11	23.4
N-Nitrosodi-n-propylamine	ND		1.33	9.35
n-Nitrosodiphenylamine(as diphenylamine)	ND		1.35	9.35
Pentachlorophenol	ND		1.54	23.4
Phenanthrene	ND		0.321	1.87
Phenol	ND		3.22	9.35
Pyrene	ND		0.309	1.87
2,4,5-Trichlorophenol	ND		1.90	23.4
2,4,6-Trichlorophenol	ND		1.64	9.35

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	80		29 - 120
2-Fluorophenol (Surr)	37		10 - 120
Nitrobenzene-d5 (Surr)	77		27 - 120
Phenol-d5 (Surr)	23		10 - 120
Terphenyl-d14 (Surr)	75		13 - 120
2,4,6-Tribromophenol (Surr)	85		10 - 120

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Client Sample ID: **MW-03B-GW-002**

Lab Sample ID: 490-39837-4 Date Sampled: 11/07/2013 1319
Client Matrix: Water Date Received: 11/08/2013 0815

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	490-122300	Instrument ID:	HP31
Prep Method:	3510C	Prep Batch:	490-121926	Lab File ID:	1115012.D
Dilution:	1.0			Initial Weight/Volume:	1070 mL
Analysis Date:	11/15/2013 1829			Final Weight/Volume:	1 mL
Prep Date:	11/14/2013 1154			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.342	1.87
Acenaphthylene	ND		0.308	1.87
Acetophenone	ND		1.78	9.35
Anthracene	ND		0.825	1.87
Atrazine	ND		3.46	9.35
Benzaldehyde	ND		2.01	9.35
Benzo[a]anthracene	ND		0.303	1.87
Benzo[a]pyrene	ND		0.308	1.87
Benzo[b]fluoranthene	ND		0.394	1.87
Benzo[g,h,i]perylene	ND		0.268	1.87
Benzo[k]fluoranthene	ND		0.340	1.87
Biphenyl	ND		3.11	9.35
Bis(2-chloroethoxy)methane	ND		1.27	9.35
Bis(2-chloroethyl)ether	ND		1.30	9.35
bis (2-chloroisopropyl) ether	ND		1.83	9.35
Bis(2-ethylhexyl) phthalate	6.77	J	1.93	9.35
4-Bromophenyl phenyl ether	ND		1.28	9.35
Butyl benzyl phthalate	ND		1.63	9.35
Caprolactam	ND		3.11	9.35
Carbazole	ND		0.279	9.35
4-Chloroaniline	ND		1.09	9.35
4-Chloro-3-methylphenol	ND		3.11	9.35
2-Chloronaphthalene	ND		1.53	9.35
2-Chlorophenol	ND		1.49	9.35
4-Chlorophenyl phenyl ether	ND		1.64	9.35
Chrysene	ND		1.02	1.87
Dibenz(a,h)anthracene	ND		0.602	1.87
Dibenzofuran	ND		0.317	9.35
3,3'-Dichlorobenzidine	ND		1.42	9.35
2,4-Dichlorophenol	ND		0.953	9.35
Diethyl phthalate	ND		1.51	9.35
2,4-Dimethylphenol	ND		0.931	9.35
Dimethyl phthalate	ND		1.69	9.35
Di-n-butyl phthalate	ND		1.40	9.35
4,6-Dinitro-2-methylphenol	ND		1.93	23.4
2,4-Dinitrophenol	ND		2.30	23.4
2,4-Dinitrotoluene	ND		3.11	9.35
2,6-Dinitrotoluene	ND		1.81	9.35
Di-n-octyl phthalate	ND		2.16	9.35
Fluoranthene	ND		0.324	1.87
Fluorene	ND		0.295	1.87
Hexachlorobenzene	ND		1.58	9.35
Hexachlorobutadiene	ND		3.11	9.35
Hexachlorocyclopentadiene	ND		3.11	9.35
Hexachloroethane	ND		3.11	9.35
Indeno[1,2,3-cd]pyrene	ND		0.356	1.87

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Client Sample ID: **MW-03B-GW-002**

Lab Sample ID: 490-39837-4 Date Sampled: 11/07/2013 1319
Client Matrix: Water Date Received: 11/08/2013 0815

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	490-122300	Instrument ID:	HP31
Prep Method:	3510C	Prep Batch:	490-121926	Lab File ID:	1115012.D
Dilution:	1.0			Initial Weight/Volume:	1070 mL
Analysis Date:	11/15/2013 1829			Final Weight/Volume:	1 mL
Prep Date:	11/14/2013 1154			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isophorone	ND		1.16	9.35
2-Methylnaphthalene	ND		0.291	1.87
2-Methylphenol	ND		3.11	9.35
3 & 4 Methylphenol	ND		3.11	9.35
Naphthalene	ND		0.372	1.87
2-Nitroaniline	ND		0.972	23.4
3-Nitroaniline	ND		1.73	23.4
4-Nitroaniline	ND		2.23	23.4
Nitrobenzene	ND		1.16	9.35
2-Nitrophenol	ND		1.47	9.35
4-Nitrophenol	ND		3.11	23.4
N-Nitrosodi-n-propylamine	ND		1.33	9.35
n-Nitrosodiphenylamine(as diphenylamine)	ND		1.35	9.35
Pentachlorophenol	ND		1.54	23.4
Phenanthrene	ND		0.321	1.87
Phenol	ND		3.22	9.35
Pyrene	ND		0.309	1.87
2,4,5-Trichlorophenol	ND		1.90	23.4
2,4,6-Trichlorophenol	ND		1.64	9.35

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	74		29 - 120
2-Fluorophenol (Surr)	36		10 - 120
Nitrobenzene-d5 (Surr)	71		27 - 120
Phenol-d5 (Surr)	21		10 - 120
Terphenyl-d14 (Surr)	58		13 - 120
2,4,6-Tribromophenol (Surr)	78		10 - 120

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Client Sample ID: **MW-05-GW-001**

Lab Sample ID: 490-39837-6 Date Sampled: 11/07/2013 1617
Client Matrix: Water Date Received: 11/08/2013 0815

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	490-122300	Instrument ID:	HP31
Prep Method:	3510C	Prep Batch:	490-121926	Lab File ID:	1115013.D
Dilution:	1.0			Initial Weight/Volume:	1070 mL
Analysis Date:	11/15/2013 1852			Final Weight/Volume:	1 mL
Prep Date:	11/14/2013 1154			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.342	1.87
Acenaphthylene	ND		0.308	1.87
Acetophenone	ND		1.78	9.35
Anthracene	ND		0.825	1.87
Atrazine	ND		3.46	9.35
Benzaldehyde	ND		2.01	9.35
Benzo[a]anthracene	ND		0.303	1.87
Benzo[a]pyrene	ND		0.308	1.87
Benzo[b]fluoranthene	ND		0.394	1.87
Benzo[g,h,i]perylene	ND		0.268	1.87
Benzo[k]fluoranthene	ND		0.340	1.87
Biphenyl	ND		3.11	9.35
Bis(2-chloroethoxy)methane	ND		1.27	9.35
Bis(2-chloroethyl)ether	ND		1.30	9.35
bis (2-chloroisopropyl) ether	ND		1.83	9.35
Bis(2-ethylhexyl) phthalate	ND		1.93	9.35
4-Bromophenyl phenyl ether	ND		1.28	9.35
Butyl benzyl phthalate	ND		1.63	9.35
Caprolactam	ND		3.11	9.35
Carbazole	ND		0.279	9.35
4-Chloroaniline	ND		1.09	9.35
4-Chloro-3-methylphenol	ND		3.11	9.35
2-Chloronaphthalene	ND		1.53	9.35
2-Chlorophenol	ND		1.49	9.35
4-Chlorophenyl phenyl ether	ND		1.64	9.35
Chrysene	ND		1.02	1.87
Dibenz(a,h)anthracene	ND		0.602	1.87
Dibenzofuran	ND		0.317	9.35
3,3'-Dichlorobenzidine	ND		1.42	9.35
2,4-Dichlorophenol	ND		0.953	9.35
Diethyl phthalate	ND		1.51	9.35
2,4-Dimethylphenol	ND		0.931	9.35
Dimethyl phthalate	ND		1.69	9.35
Di-n-butyl phthalate	ND		1.40	9.35
4,6-Dinitro-2-methylphenol	ND		1.93	23.4
2,4-Dinitrophenol	ND		2.30	23.4
2,4-Dinitrotoluene	ND		3.11	9.35
2,6-Dinitrotoluene	ND		1.81	9.35
Di-n-octyl phthalate	ND		2.16	9.35
Fluoranthene	ND		0.324	1.87
Fluorene	ND		0.295	1.87
Hexachlorobenzene	ND		1.58	9.35
Hexachlorobutadiene	ND		3.11	9.35
Hexachlorocyclopentadiene	ND		3.11	9.35
Hexachloroethane	ND		3.11	9.35
Indeno[1,2,3-cd]pyrene	ND		0.356	1.87

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Client Sample ID: **MW-05-GW-001**

Lab Sample ID: 490-39837-6 Date Sampled: 11/07/2013 1617
Client Matrix: Water Date Received: 11/08/2013 0815

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	490-122300	Instrument ID:	HP31
Prep Method:	3510C	Prep Batch:	490-121926	Lab File ID:	1115013.D
Dilution:	1.0			Initial Weight/Volume:	1070 mL
Analysis Date:	11/15/2013 1852			Final Weight/Volume:	1 mL
Prep Date:	11/14/2013 1154			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isophorone	ND		1.16	9.35
2-Methylnaphthalene	ND		0.291	1.87
2-Methylphenol	ND		3.11	9.35
3 & 4 Methylphenol	ND		3.11	9.35
Naphthalene	ND		0.372	1.87
2-Nitroaniline	ND		0.972	23.4
3-Nitroaniline	ND		1.73	23.4
4-Nitroaniline	ND		2.23	23.4
Nitrobenzene	ND		1.16	9.35
2-Nitrophenol	ND		1.47	9.35
4-Nitrophenol	ND		3.11	23.4
N-Nitrosodi-n-propylamine	ND		1.33	9.35
n-Nitrosodiphenylamine(as diphenylamine)	ND		1.35	9.35
Pentachlorophenol	ND		1.54	23.4
Phenanthrene	ND		0.321	1.87
Phenol	ND		3.22	9.35
Pyrene	ND		0.309	1.87
2,4,5-Trichlorophenol	ND		1.90	23.4
2,4,6-Trichlorophenol	ND		1.64	9.35

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	80		29 - 120
2-Fluorophenol (Surr)	37		10 - 120
Nitrobenzene-d5 (Surr)	79		27 - 120
Phenol-d5 (Surr)	24		10 - 120
Terphenyl-d14 (Surr)	62		13 - 120
2,4,6-Tribromophenol (Surr)	80		10 - 120

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Client Sample ID: **Field Blank**

Lab Sample ID: 490-39837-7FB
Client Matrix: Water

Date Sampled: 11/07/2013 0956
Date Received: 11/08/2013 0815

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	490-122300	Instrument ID:	HP31
Prep Method:	3510C	Prep Batch:	490-121926	Lab File ID:	1115014.D
Dilution:	1.0			Initial Weight/Volume:	1070 mL
Analysis Date:	11/15/2013 1915			Final Weight/Volume:	1 mL
Prep Date:	11/14/2013 1154			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.342	1.87
Acenaphthylene	ND		0.308	1.87
Acetophenone	ND		1.78	9.35
Anthracene	ND		0.825	1.87
Atrazine	ND		3.46	9.35
Benzaldehyde	ND		2.01	9.35
Benzo[a]anthracene	ND		0.303	1.87
Benzo[a]pyrene	ND		0.308	1.87
Benzo[b]fluoranthene	ND		0.394	1.87
Benzo[g,h,i]perylene	ND		0.268	1.87
Benzo[k]fluoranthene	ND		0.340	1.87
Biphenyl	ND		3.11	9.35
Bis(2-chloroethoxy)methane	ND		1.27	9.35
Bis(2-chloroethyl)ether	ND		1.30	9.35
bis (2-chloroisopropyl) ether	ND		1.83	9.35
Bis(2-ethylhexyl) phthalate	37.3		1.93	9.35
4-Bromophenyl phenyl ether	ND		1.28	9.35
Butyl benzyl phthalate	ND		1.63	9.35
Caprolactam	ND		3.11	9.35
Carbazole	ND		0.279	9.35
4-Chloroaniline	ND		1.09	9.35
4-Chloro-3-methylphenol	ND		3.11	9.35
2-Chloronaphthalene	ND		1.53	9.35
2-Chlorophenol	ND		1.49	9.35
4-Chlorophenyl phenyl ether	ND		1.64	9.35
Chrysene	ND		1.02	1.87
Dibenz(a,h)anthracene	ND		0.602	1.87
Dibenzofuran	ND		0.317	9.35
3,3'-Dichlorobenzidine	ND		1.42	9.35
2,4-Dichlorophenol	ND		0.953	9.35
Diethyl phthalate	ND		1.51	9.35
2,4-Dimethylphenol	ND		0.931	9.35
Dimethyl phthalate	ND		1.69	9.35
Di-n-butyl phthalate	ND		1.40	9.35
4,6-Dinitro-2-methylphenol	ND		1.93	23.4
2,4-Dinitrophenol	ND		2.30	23.4
2,4-Dinitrotoluene	ND		3.11	9.35
2,6-Dinitrotoluene	ND		1.81	9.35
Di-n-octyl phthalate	ND		2.16	9.35
Fluoranthene	ND		0.324	1.87
Fluorene	ND		0.295	1.87
Hexachlorobenzene	ND		1.58	9.35
Hexachlorobutadiene	ND		3.11	9.35
Hexachlorocyclopentadiene	ND		3.11	9.35
Hexachloroethane	ND		3.11	9.35
Indeno[1,2,3-cd]pyrene	ND		0.356	1.87

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Client Sample ID: **Field Blank**

Lab Sample ID: 490-39837-7FB Date Sampled: 11/07/2013 0956
Client Matrix: Water Date Received: 11/08/2013 0815

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	490-122300	Instrument ID:	HP31
Prep Method:	3510C	Prep Batch:	490-121926	Lab File ID:	1115014.D
Dilution:	1.0			Initial Weight/Volume:	1070 mL
Analysis Date:	11/15/2013 1915			Final Weight/Volume:	1 mL
Prep Date:	11/14/2013 1154			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isophorone	ND		1.16	9.35
2-Methylnaphthalene	ND		0.291	1.87
2-Methylphenol	ND		3.11	9.35
3 & 4 Methylphenol	ND		3.11	9.35
Naphthalene	ND		0.372	1.87
2-Nitroaniline	ND		0.972	23.4
3-Nitroaniline	ND		1.73	23.4
4-Nitroaniline	ND		2.23	23.4
Nitrobenzene	ND		1.16	9.35
2-Nitrophenol	ND		1.47	9.35
4-Nitrophenol	ND		3.11	23.4
N-Nitrosodi-n-propylamine	ND		1.33	9.35
n-Nitrosodiphenylamine(as diphenylamine)	ND		1.35	9.35
Pentachlorophenol	ND		1.54	23.4
Phenanthrene	ND		0.321	1.87
Phenol	ND		3.22	9.35
Pyrene	ND		0.309	1.87
2,4,5-Trichlorophenol	ND		1.90	23.4
2,4,6-Trichlorophenol	ND		1.64	9.35

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	78		29 - 120
2-Fluorophenol (Surr)	41		10 - 120
Nitrobenzene-d5 (Surr)	76		27 - 120
Phenol-d5 (Surr)	25		10 - 120
Terphenyl-d14 (Surr)	84		13 - 120
2,4,6-Tribromophenol (Surr)	76		10 - 120

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Client Sample ID: **Equipment Blank**

Lab Sample ID: 490-39837-9EB Date Sampled: 11/07/2013 1038
Client Matrix: Water Date Received: 11/08/2013 0815

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	490-122300	Instrument ID:	HP31
Prep Method:	3510C	Prep Batch:	490-121926	Lab File ID:	1115015.D
Dilution:	1.0			Initial Weight/Volume:	1070 mL
Analysis Date:	11/15/2013 1938			Final Weight/Volume:	1 mL
Prep Date:	11/14/2013 1154			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.342	1.87
Acenaphthylene	ND		0.308	1.87
Acetophenone	ND		1.78	9.35
Anthracene	ND		0.825	1.87
Atrazine	ND		3.46	9.35
Benzaldehyde	ND		2.01	9.35
Benzo[a]anthracene	ND		0.303	1.87
Benzo[a]pyrene	ND		0.308	1.87
Benzo[b]fluoranthene	ND		0.394	1.87
Benzo[g,h,i]perylene	ND		0.268	1.87
Benzo[k]fluoranthene	ND		0.340	1.87
Biphenyl	ND		3.11	9.35
Bis(2-chloroethoxy)methane	ND		1.27	9.35
Bis(2-chloroethyl)ether	ND		1.30	9.35
bis (2-chloroisopropyl) ether	ND		1.83	9.35
Bis(2-ethylhexyl) phthalate	ND		1.93	9.35
4-Bromophenyl phenyl ether	ND		1.28	9.35
Butyl benzyl phthalate	ND		1.63	9.35
Caprolactam	ND		3.11	9.35
Carbazole	ND		0.279	9.35
4-Chloroaniline	ND		1.09	9.35
4-Chloro-3-methylphenol	ND		3.11	9.35
2-Chloronaphthalene	ND		1.53	9.35
2-Chlorophenol	ND		1.49	9.35
4-Chlorophenyl phenyl ether	ND		1.64	9.35
Chrysene	ND		1.02	1.87
Dibenz(a,h)anthracene	ND		0.602	1.87
Dibenzofuran	ND		0.317	9.35
3,3'-Dichlorobenzidine	ND		1.42	9.35
2,4-Dichlorophenol	ND		0.953	9.35
Diethyl phthalate	ND		1.51	9.35
2,4-Dimethylphenol	ND		0.931	9.35
Dimethyl phthalate	ND		1.69	9.35
Di-n-butyl phthalate	ND		1.40	9.35
4,6-Dinitro-2-methylphenol	ND		1.93	23.4
2,4-Dinitrophenol	ND		2.30	23.4
2,4-Dinitrotoluene	ND		3.11	9.35
2,6-Dinitrotoluene	ND		1.81	9.35
Di-n-octyl phthalate	ND		2.16	9.35
Fluoranthene	ND		0.324	1.87
Fluorene	ND		0.295	1.87
Hexachlorobenzene	ND		1.58	9.35
Hexachlorobutadiene	ND		3.11	9.35
Hexachlorocyclopentadiene	ND		3.11	9.35
Hexachloroethane	ND		3.11	9.35
Indeno[1,2,3-cd]pyrene	ND		0.356	1.87

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Client Sample ID: **Equipment Blank**

Lab Sample ID: 490-39837-9EB Date Sampled: 11/07/2013 1038
Client Matrix: Water Date Received: 11/08/2013 0815

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	490-122300	Instrument ID:	HP31
Prep Method:	3510C	Prep Batch:	490-121926	Lab File ID:	1115015.D
Dilution:	1.0			Initial Weight/Volume:	1070 mL
Analysis Date:	11/15/2013 1938			Final Weight/Volume:	1 mL
Prep Date:	11/14/2013 1154			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isophorone	ND		1.16	9.35
2-Methylnaphthalene	ND		0.291	1.87
2-Methylphenol	ND		3.11	9.35
3 & 4 Methylphenol	ND		3.11	9.35
Naphthalene	ND		0.372	1.87
2-Nitroaniline	ND		0.972	23.4
3-Nitroaniline	ND		1.73	23.4
4-Nitroaniline	ND		2.23	23.4
Nitrobenzene	ND		1.16	9.35
2-Nitrophenol	ND		1.47	9.35
4-Nitrophenol	ND		3.11	23.4
N-Nitrosodi-n-propylamine	ND		1.33	9.35
n-Nitrosodiphenylamine(as diphenylamine)	ND		1.35	9.35
Pentachlorophenol	ND		1.54	23.4
Phenanthrene	ND		0.321	1.87
Phenol	ND		3.22	9.35
Pyrene	ND		0.309	1.87
2,4,5-Trichlorophenol	ND		1.90	23.4
2,4,6-Trichlorophenol	ND		1.64	9.35

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	77		29 - 120
2-Fluorophenol (Surr)	36		10 - 120
Nitrobenzene-d5 (Surr)	77		27 - 120
Phenol-d5 (Surr)	23		10 - 120
Terphenyl-d14 (Surr)	83		13 - 120
2,4,6-Tribromophenol (Surr)	73		10 - 120

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
490-39837-1	MW-03A-GW-001	102	102	118	92
490-39837-2	MW-03B-GW-001	106	106	120	93
490-39837-2	MW-03B-GW-001	99	102	119	95
490-39837-4	MW-03B-GW-002	103	105	107	92
490-39837-4	MW-03B-GW-002	101	101	109	92
490-39837-6	MW-05-GW-001	106	105	110	93
490-39837-7	Field Blank	101	104	122	90
490-39837-9	Equipment Blank	103	108	119	94
490-39837-11	Trip Blank	102	105	118	91
MB 490-122748/7		99	104	120	93
MB 490-123017/7		97	100	114	96
LCS 490-122748/3		96	97	108	96
LCS 490-123017/3		96	94	105	103
LCSD 490-122748/4		98	96	107	96
LCSD 490-123017/4		94	93	106	101
490-39837-2 MS	MW-03B-GW-001 MS	98	100	110	94
490-39837-2 MSD	MW-03B-GW-001 MSD	99	99	109	96

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Client: Haley & Aldrich, Inc.

Job Number: 490-39837-2

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water TCLP

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
490-40571-A-1-A MS		104	101	111	94
490-40571-A-1-A MSD		100	98	109	95

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Surrogate Recovery Report

8270C Semivolatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	2FP %Rec	PHL %Rec	NBZ %Rec	FBP %Rec	TBP %Rec	TPH %Rec
490-39837-2	MW-03B-GW-001	37	23	77	80	85	75
490-39837-4	MW-03B-GW-002	36	21	71	74	78	58
490-39837-6	MW-05-GW-001	37	24	79	80	80	62
490-39837-7	Field Blank	41	25	76	78	76	84
490-39837-9	Equipment Blank	36	23	77	77	73	83
MB 490-121926/1-A		34	18	71	76	75	86
LCS 490-121926/2-A		45	30	92	89	97	95
490-39837-2 MS	MW-03B-GW-001 MS	39	26	84	82	90	71
490-39837-2 MSD	MW-03B-GW-001 MSD	36	24	77	77	85	50

Surrogate	Acceptance Limits
2FP = 2-Fluorophenol (Surr)	10-120
PHL = Phenol-d5 (Surr)	10-120
NBZ = Nitrobenzene-d5 (Surr)	27-120
FBP = 2-Fluorobiphenyl (Surr)	29-120
TBP = 2,4,6-Tribromophenol (Surr)	10-120
TPH = Terphenyl-d14 (Surr)	13-120

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Method Blank - Batch: 490-122748

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-122748/7	Analysis Batch:	490-122748	Instrument ID:	HP35
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1118-07.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/18/2013 1341	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	11/18/2013 1341				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND		0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	ND		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND		2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Method Blank - Batch: 490-122748

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-122748/7	Analysis Batch:	490-122748	Instrument ID:	HP35
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1118-07.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/18/2013 1341	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	11/18/2013 1341				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,2-Trichloroethane	ND		0.190	1.00
Trichloroethene	ND		0.200	1.00
Trichlorofluoromethane	ND		0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	ND		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	93	70 - 130
Dibromofluoromethane (Surr)	99	70 - 130
1,2-Dichloroethane-d4 (Surr)	104	70 - 130
Toluene-d8 (Surr)	120	70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-122748

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-122748/3	Analysis Batch:	490-122748	Instrument ID:	HP35
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1118-03.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/18/2013 1138	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	11/18/2013 1138				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-122748/4	Analysis Batch:	490-122748	Instrument ID:	HP35
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1118-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/18/2013 1208	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	11/18/2013 1208				
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	98	104	54 - 145	5	21		
Benzene	102	102	80 - 121	0	17		
Bromochloromethane	99	103	78 - 129	3	17		
Bromodichloromethane	103	107	75 - 129	4	18		
Bromoform	111	116	46 - 145	5	16		
Bromomethane	84	85	41 - 150	1	50		
2-Butanone (MEK)	93	102	62 - 133	9	19		
Carbon disulfide	115	115	77 - 126	0	21		
Carbon tetrachloride	102	102	64 - 147	1	19		
Chlorobenzene	120	122	80 - 120	2	14		*
Chlorodibromomethane	120	122	69 - 133	2	15		
Chloroethane	107	111	72 - 120	4	20		
Chloroform	102	104	73 - 129	2	18		
Chloromethane	64	71	12 - 150	10	31		
cis-1,2-Dichloroethene	115	119	76 - 125	3	17		
cis-1,3-Dichloropropene	116	119	74 - 140	3	15		
Cyclohexane	105	104	73 - 122	1	16		
1,2-Dibromo-3-Chloropropane	90	94	54 - 125	5	24		
1,2-Dibromoethane (EDB)	104	108	80 - 129	4	15		
1,2-Dichlorobenzene	103	106	80 - 121	2	15		
1,3-Dichlorobenzene	102	104	80 - 122	2	15		
1,4-Dichlorobenzene	113	114	80 - 120	1	15		
Dichlorodifluoromethane	108	108	37 - 127	0	18		
1,1-Dichloroethane	114	117	78 - 125	2	17		
1,2-Dichloroethane	99	103	77 - 121	4	17		
1,1-Dichloroethene	111	114	79 - 124	2	17		
1,2-Dichloropropane	110	113	75 - 120	3	17		
Ethylbenzene	112	113	80 - 130	1	15		
2-Hexanone	99	104	60 - 142	5	15		
Isopropylbenzene	113	115	80 - 141	2	16		
Methyl acetate	84	86	64 - 150	2	31		
Methylcyclohexane	98	101	71 - 129	3	19		
Methylene Chloride	109	113	79 - 123	3	17		
4-Methyl-2-pentanone (MIBK)	103	109	60 - 137	6	17		
Methyl tert-butyl ether	98	103	72 - 133	5	16		
N-Propylbenzene	109	110	75 - 129	1	17		

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-122748

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-122748/3	Analysis Batch:	490-122748	Instrument ID:	HP35
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1118-03.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/18/2013 1138	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	11/18/2013 1138				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-122748/4	Analysis Batch:	490-122748	Instrument ID:	HP35
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1118-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/18/2013 1208	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	11/18/2013 1208				
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Styrene	116	117	80 - 127	1	24		
1,1,2,2-Tetrachloroethane	98	101	69 - 131	3	20		
Tetrachloroethene	119	119	80 - 126	1	16		
Tetrahydrofuran	62	76	51 - 124	19	18		*
Toluene	116	116	80 - 126	0	15		
trans-1,2-Dichloroethene	111	121	79 - 126	9	16		
trans-1,3-Dichloropropene	108	113	63 - 134	5	14		
1,2,4-Trichlorobenzene	101	104	63 - 133	3	19		
1,1,1-Trichloroethane	104	108	78 - 135	3	17		
1,1,2-Trichloroethane	106	110	80 - 124	3	15		
Trichloroethene	102	102	80 - 123	0	17		
Trichlorofluoromethane	110	114	65 - 124	3	18		
1,1,2-Trichloro-1,2,2-trichfluoroethane	108	111	77 - 129	3	18		
Vinyl chloride	104	105	68 - 120	1	17		
Xylenes, Total	111	112	80 - 132	1	15		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	96	96	70 - 130
Dibromofluoromethane (Surr)	96	98	70 - 130
1,2-Dichloroethane-d4 (Surr)	97	96	70 - 130
Toluene-d8 (Surr)	108	107	70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 490-122748

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-122748/3	Units: ug/L		LCSD Lab Sample ID:	LCSD 490-122748/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/18/2013 1138			Analysis Date:	11/18/2013 1208
Prep Date:	11/18/2013 1138			Prep Date:	11/18/2013 1208
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual	
Acetone	250	250	245.8	259.5	
Benzene	50.0	50.0	50.75	50.92	
Bromochloromethane	50.0	50.0	49.63	51.28	
Bromodichloromethane	50.0	50.0	51.36	53.55	
Bromoform	50.0	50.0	55.30	58.01	
Bromomethane	50.0	50.0	42.09	42.52	
2-Butanone (MEK)	250	250	232.4	254.7	
Carbon disulfide	50.0	50.0	57.71	57.72	
Carbon tetrachloride	50.0	50.0	50.89	51.15	
Chlorobenzene	50.0	50.0	59.85	60.85	*
Chlorodibromomethane	50.0	50.0	59.84	61.21	
Chloroethane	50.0	50.0	53.34	55.74	
Chloroform	50.0	50.0	50.95	52.00	
Chloromethane	50.0	50.0	32.02	35.52	
cis-1,2-Dichloroethene	50.0	50.0	57.57	59.35	
cis-1,3-Dichloropropene	50.0	50.0	57.94	59.74	
Cyclohexane	50.0	50.0	52.27	51.96	
1,2-Dibromo-3-Chloropropane	50.0	50.0	44.87	46.98	
1,2-Dibromoethane (EDB)	50.0	50.0	51.95	53.92	
1,2-Dichlorobenzene	50.0	50.0	51.73	52.96	
1,3-Dichlorobenzene	50.0	50.0	51.08	51.88	
1,4-Dichlorobenzene	50.0	50.0	56.44	57.20	
Dichlorodifluoromethane	50.0	50.0	53.88	53.98	
1,1-Dichloroethane	50.0	50.0	57.10	58.54	
1,2-Dichloroethane	50.0	50.0	49.65	51.67	
1,1-Dichloroethene	50.0	50.0	55.47	56.82	
1,2-Dichloropropane	50.0	50.0	55.05	56.63	
Ethylbenzene	50.0	50.0	56.03	56.72	
2-Hexanone	250	250	247.0	258.9	
Isopropylbenzene	50.0	50.0	56.59	57.66	
Methyl acetate	250	250	210.5	214.4	
Methylcyclohexane	50.0	50.0	49.17	50.66	
Methylene Chloride	50.0	50.0	54.45	56.31	
4-Methyl-2-pentanone (MIBK)	250	250	257.9	272.7	
Methyl tert-butyl ether	50.0	50.0	49.13	51.52	
N-Propylbenzene	50.0	50.0	54.46	55.04	
Styrene	50.0	50.0	57.78	58.58	
1,1,2,2-Tetrachloroethane	50.0	50.0	49.13	50.60	
Tetrachloroethene	50.0	50.0	59.65	59.35	

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 490-122748

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-122748/3	Units: ug/L		LCSD Lab Sample ID:	LCSD 490-122748/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/18/2013 1138			Analysis Date:	11/18/2013 1208
Prep Date:	11/18/2013 1138			Prep Date:	11/18/2013 1208
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual	
Tetrahydrofuran	100	100	62.41	75.58	*
Toluene	50.0	50.0	58.01	57.94	
trans-1,2-Dichloroethene	50.0	50.0	55.26	60.44	
trans-1,3-Dichloropropene	50.0	50.0	53.93	56.67	
1,2,4-Trichlorobenzene	50.0	50.0	50.52	51.95	
1,1,1-Trichloroethane	50.0	50.0	52.11	53.78	
1,1,2-Trichloroethane	50.0	50.0	53.10	54.96	
Trichloroethene	50.0	50.0	50.95	50.93	
Trichlorofluoromethane	50.0	50.0	55.01	56.76	
1,1,2-Trichloro-1,2,2-trichfluoroethane	50.0	50.0	53.94	55.32	
Vinyl chloride	50.0	50.0	52.16	52.46	
Xylenes, Total	100	100	111.2	112.5	

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-122748

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-39837-2	Analysis Batch:	490-122748	Instrument ID:	HP35
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1118-15.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/18/2013 1747			Final Weight/Volume:	10 mL
Prep Date:	11/18/2013 1747				
Leach Date:	N/A				

MSD Lab Sample ID:	490-39837-2	Analysis Batch:	490-122748	Instrument ID:	HP35
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1118-16.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/18/2013 1817			Final Weight/Volume:	10 mL
Prep Date:	11/18/2013 1817				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	92	87	45 - 141	6	21		
Benzene	107	98	75 - 133	9	17		
Bromochloromethane	105	96	67 - 139	9	17		
Bromodichloromethane	108	100	70 - 140	7	18		
Bromoform	118	105	42 - 147	11	16		
Bromomethane	84	90	16 - 163	7	50		
2-Butanone (MEK)	93	90	50 - 138	4	19		
Carbon disulfide	117	109	48 - 152	7	21		
Carbon tetrachloride	117	105	62 - 164	11	19		
Chlorobenzene	128	115	80 - 129	11	14		
Chlorodibromomethane	127	114	66 - 140	11	15		
Chloroethane	110	111	58 - 137	1	20		
Chloroform	107	99	66 - 138	8	18		
Chloromethane	72	69	10 - 169	5	31		
cis-1,2-Dichloroethene	108	105	68 - 138	2	17		
cis-1,3-Dichloropropene	113	105	71 - 141	7	15		
Cyclohexane	109	102	58 - 144	6	16		
1,2-Dibromo-3-Chloropropane	87	82	52 - 126	7	24		
1,2-Dibromoethane (EDB)	109	98	75 - 137	11	15		
1,2-Dichlorobenzene	108	100	79 - 128	7	15		
1,3-Dichlorobenzene	107	99	77 - 131	8	15		
1,4-Dichlorobenzene	118	108	78 - 126	8	15		
Dichlorodifluoromethane	114	110	40 - 127	3	18		
1,1-Dichloroethane	123	112	71 - 139	9	17		
1,2-Dichloroethane	108	97	64 - 136	11	17		
1,1-Dichloroethene	124	109	70 - 142	12	17		
1,2-Dichloropropane	115	105	67 - 131	10	17		
Ethylbenzene	120	107	79 - 139	11	15		
2-Hexanone	95	86	50 - 150	9	15		
Isopropylbenzene	123	109	80 - 153	11	16		
Methyl acetate	85	82	30 - 165	3	31		
Methylcyclohexane	105	98	59 - 151	8	19		
Methylene Chloride	109	104	64 - 139	4	17		

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-122748

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-39837-2	Analysis Batch:	490-122748	Instrument ID:	HP35
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1118-15.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/18/2013 1747			Final Weight/Volume:	10 mL
Prep Date:	11/18/2013 1747				
Leach Date:	N/A				

MSD Lab Sample ID:	490-39837-2	Analysis Batch:	490-122748	Instrument ID:	HP35
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1118-16.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/18/2013 1817			Final Weight/Volume:	10 mL
Prep Date:	11/18/2013 1817				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
4-Methyl-2-pentanone (MIBK)	97	91	50 - 147	7	17		
Methyl tert-butyl ether	96	92	66 - 141	4	16		
N-Propylbenzene	114	106	69 - 142	7	17		
Styrene	124	110	61 - 148	12	24		
1,1,2,2-Tetrachloroethane	101	93	56 - 143	8	20		
Tetrachloroethene	129	116	72 - 145	10	16		
Tetrahydrofuran	93	88	34 - 133	6	18		
Toluene	122	110	75 - 136	10	15		
trans-1,2-Dichloroethene	118	108	66 - 143	8	16		
trans-1,3-Dichloropropene	109	100	59 - 135	9	14		
1,2,4-Trichlorobenzene	100	95	60 - 136	5	19		
1,1,1-Trichloroethane	114	105	76 - 149	8	17		
1,1,2-Trichloroethane	112	101	74 - 134	10	15		
Trichloroethene	109	99	73 - 144	10	17		
Trichlorofluoromethane	123	115	58 - 139	7	18		
1,1,2-Trichloro-1,2,2-trichfluoroethane	119	111	72 - 148	7	18		
Vinyl chloride	-20	-34	56 - 129	1	17	E 4	E 4
Xylenes, Total	117	105	74 - 141	11	15		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	94	96	70 - 130
Dibromofluoromethane (Surr)	98	99	70 - 130
1,2-Dichloroethane-d4 (Surr)	100	99	70 - 130
Toluene-d8 (Surr)	110	109	70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-122748

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-39837-2	Units: ug/L	MSD Lab Sample ID:	490-39837-2	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/18/2013 1747		Analysis Date:	11/18/2013 1817	
Prep Date:	11/18/2013 1747		Prep Date:	11/18/2013 1817	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Acetone	ND	250	250	230.8	217.2
Benzene	ND	50.0	50.0	53.71	48.97
Bromochloromethane	ND	50.0	50.0	52.47	47.94
Bromodichloromethane	ND	50.0	50.0	53.78	49.90
Bromoform	ND	50.0	50.0	58.88	52.58
Bromomethane	ND	50.0	50.0	41.83	44.84
2-Butanone (MEK)	ND	250	250	233.6	225.5
Carbon disulfide	ND	50.0	50.0	58.65	54.72
Carbon tetrachloride	ND	50.0	50.0	58.68	52.46
Chlorobenzene	ND	50.0	50.0	64.01	57.32
Chlorodibromomethane	ND	50.0	50.0	63.40	57.00
Chloroethane	ND	50.0	50.0	55.09	55.60
Chloroform	ND	50.0	50.0	53.69	49.42
Chloromethane	ND	50.0	50.0	35.98	34.39
cis-1,2-Dichloroethene	38.1	50.0	50.0	92.23	90.60
cis-1,3-Dichloropropene	ND	50.0	50.0	56.34	52.30
Cyclohexane	ND	50.0	50.0	54.52	51.19
1,2-Dibromo-3-Chloropropane	ND	50.0	50.0	43.55	40.80
1,2-Dibromoethane (EDB)	ND	50.0	50.0	54.27	48.83
1,2-Dichlorobenzene	ND	50.0	50.0	53.77	50.06
1,3-Dichlorobenzene	ND	50.0	50.0	53.54	49.48
1,4-Dichlorobenzene	ND	50.0	50.0	58.86	54.21
Dichlorodifluoromethane	ND	50.0	50.0	56.97	55.12
1,1-Dichloroethane	ND	50.0	50.0	61.43	56.18
1,2-Dichloroethane	ND	50.0	50.0	54.09	48.46
1,1-Dichloroethene	ND	50.0	50.0	61.88	54.68
1,2-Dichloropropane	ND	50.0	50.0	57.63	52.31
Ethylbenzene	ND	50.0	50.0	59.81	53.68
2-Hexanone	ND	250	250	236.8	216.1
Isopropylbenzene	ND	50.0	50.0	61.36	54.73
Methyl acetate	ND	250	250	212.1	205.1
Methylcyclohexane	ND	50.0	50.0	52.67	48.80
Methylene Chloride	ND	50.0	50.0	54.27	51.99
4-Methyl-2-pentanone (MIBK)	ND	250	250	242.7	226.3
Methyl tert-butyl ether	ND	50.0	50.0	48.02	45.93
N-Propylbenzene	ND	50.0	50.0	57.00	53.12
Styrene	ND	50.0	50.0	62.15	55.23
1,1,2,2-Tetrachloroethane	ND	50.0	50.0	50.50	46.60
Tetrachloroethene	ND	50.0	50.0	64.35	58.11
Tetrahydrofuran	ND	100	100	93.31	87.57
Toluene	ND	50.0	50.0	60.87	55.18
trans-1,2-Dichloroethene	1.32	50.0	50.0	60.22	55.45
trans-1,3-Dichloropropene	ND	50.0	50.0	54.64	50.16

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-122748

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-39837-2	Units: ug/L	MSD Lab Sample ID:	490-39837-2	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/18/2013 1747		Analysis Date:	11/18/2013 1817	
Prep Date:	11/18/2013 1747		Prep Date:	11/18/2013 1817	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
1,2,4-Trichlorobenzene	ND	50.0	50.0	50.01		47.66	
1,1,1-Trichloroethane	ND	50.0	50.0	57.08		52.46	
1,1,2-Trichloroethane	ND	50.0	50.0	55.78		50.37	
Trichloroethene	ND	50.0	50.0	54.75		49.61	
Trichlorofluoromethane	ND	50.0	50.0	61.41		57.38	
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND	50.0	50.0	59.46		55.36	
Vinyl chloride	640	50.0	50.0	630.4	E 4	623.0	E 4
Xylenes, Total	ND	100	100	117.3		105.2	

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Method Blank - Batch: 490-123017

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-123017/7	Analysis Batch:	490-123017	Instrument ID:	HP35
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1119-07.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/19/2013 1442	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	11/19/2013 1442				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND		0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	ND		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND		2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Method Blank - Batch: 490-123017

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-123017/7	Analysis Batch:	490-123017	Instrument ID:	HP35
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1119-07.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/19/2013 1442	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	11/19/2013 1442				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,2-Trichloroethane	ND		0.190	1.00
Trichloroethene	ND		0.200	1.00
Trichlorofluoromethane	ND		0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	ND		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	96	70 - 130
Dibromofluoromethane (Surr)	97	70 - 130
1,2-Dichloroethane-d4 (Surr)	100	70 - 130
Toluene-d8 (Surr)	114	70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-123017

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-123017/3	Analysis Batch:	490-123017	Instrument ID:	HP35
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1119-03.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/19/2013 1217	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	11/19/2013 1217				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-123017/4	Analysis Batch:	490-123017	Instrument ID:	HP35
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1119-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/19/2013 1248	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	11/19/2013 1248				
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	87	94	54 - 145	8	21		
Benzene	99	96	80 - 121	2	17		
Bromochloromethane	99	97	78 - 129	2	17		
Bromodichloromethane	101	101	75 - 129	0	18		
Bromoform	106	106	46 - 145	0	16		
Bromomethane	90	92	41 - 150	3	50		
2-Butanone (MEK)	91	95	62 - 133	4	19		
Carbon disulfide	108	108	77 - 126	0	21		
Carbon tetrachloride	103	96	64 - 147	7	19		
Chlorobenzene	113	113	80 - 120	0	14		
Chlorodibromomethane	110	113	69 - 133	3	15		
Chloroethane	106	103	72 - 120	4	20		
Chloroform	100	99	73 - 129	1	18		
Chloromethane	68	67	12 - 150	2	31		
cis-1,2-Dichloroethene	112	111	76 - 125	1	17		
cis-1,3-Dichloropropene	114	113	74 - 140	1	15		
Cyclohexane	105	100	73 - 122	4	16		
1,2-Dibromo-3-Chloropropane	90	89	54 - 125	1	24		
1,2-Dibromoethane (EDB)	101	101	80 - 129	1	15		
1,2-Dichlorobenzene	104	100	80 - 121	3	15		
1,3-Dichlorobenzene	102	99	80 - 122	3	15		
1,4-Dichlorobenzene	113	110	80 - 120	2	15		
Dichlorodifluoromethane	110	105	37 - 127	5	18		
1,1-Dichloroethane	108	110	78 - 125	1	17		
1,2-Dichloroethane	98	95	77 - 121	3	17		
1,1-Dichloroethene	108	107	79 - 124	1	17		
1,2-Dichloropropane	108	106	75 - 120	2	17		
Ethylbenzene	106	104	80 - 130	1	15		
2-Hexanone	100	97	60 - 142	3	15		
Isopropylbenzene	106	104	80 - 141	2	16		
Methyl acetate	74	79	64 - 150	6	31		
Methylcyclohexane	100	98	71 - 129	2	19		
Methylene Chloride	103	103	79 - 123	0	17		
4-Methyl-2-pentanone (MIBK)	102	103	60 - 137	0	17		
Methyl tert-butyl ether	95	96	72 - 133	1	16		
N-Propylbenzene	111	107	75 - 129	4	17		

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 490-123017

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-123017/3	Analysis Batch:	490-123017	Instrument ID:	HP35
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1119-03.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/19/2013 1217	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	11/19/2013 1217				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 490-123017/4	Analysis Batch:	490-123017	Instrument ID:	HP35
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1119-04.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/19/2013 1248	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	11/19/2013 1248				
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Styrene	111	107	80 - 127	3	24		
1,1,2,2-Tetrachloroethane	101	97	69 - 131	3	20		
Tetrachloroethene	108	113	80 - 126	4	16		
Tetrahydrofuran	63	72	51 - 124	12	18		
Toluene	110	108	80 - 126	2	15		
trans-1,2-Dichloroethene	105	105	79 - 126	0	16		
trans-1,3-Dichloropropene	107	106	63 - 134	1	14		
1,2,4-Trichlorobenzene	103	101	63 - 133	3	19		
1,1,1-Trichloroethane	103	99	78 - 135	3	17		
1,1,2-Trichloroethane	100	103	80 - 124	3	15		
Trichloroethene	99	98	80 - 123	2	17		
Trichlorofluoromethane	111	107	65 - 124	4	18		
1,1,2-Trichloro-1,2,2-trichfluoroethane	103	101	77 - 129	2	18		
Vinyl chloride	105	102	68 - 120	3	17		
Xylenes, Total	106	104	80 - 132	3	15		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	103	101	70 - 130
Dibromofluoromethane (Surr)	96	94	70 - 130
1,2-Dichloroethane-d4 (Surr)	94	93	70 - 130
Toluene-d8 (Surr)	105	106	70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 490-123017

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-123017/3	Units: ug/L		LCSD Lab Sample ID:	LCSD 490-123017/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/19/2013 1217			Analysis Date:	11/19/2013 1248
Prep Date:	11/19/2013 1217			Prep Date:	11/19/2013 1248
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Acetone	250	250	217.5	235.8
Benzene	50.0	50.0	49.33	48.11
Bromochloromethane	50.0	50.0	49.43	48.26
Bromodichloromethane	50.0	50.0	50.58	50.47
Bromoform	50.0	50.0	53.12	52.90
Bromomethane	50.0	50.0	44.96	46.24
2-Butanone (MEK)	250	250	227.3	236.6
Carbon disulfide	50.0	50.0	54.03	53.92
Carbon tetrachloride	50.0	50.0	51.68	48.04
Chlorobenzene	50.0	50.0	56.36	56.40
Chlorodibromomethane	50.0	50.0	55.16	56.69
Chloroethane	50.0	50.0	53.20	51.26
Chloroform	50.0	50.0	50.10	49.46
Chloromethane	50.0	50.0	34.01	33.42
cis-1,2-Dichloroethene	50.0	50.0	55.78	55.35
cis-1,3-Dichloropropene	50.0	50.0	56.83	56.42
Cyclohexane	50.0	50.0	52.34	50.16
1,2-Dibromo-3-Chloropropane	50.0	50.0	44.95	44.63
1,2-Dibromoethane (EDB)	50.0	50.0	50.64	50.27
1,2-Dichlorobenzene	50.0	50.0	51.90	50.22
1,3-Dichlorobenzene	50.0	50.0	51.12	49.45
1,4-Dichlorobenzene	50.0	50.0	56.27	55.12
Dichlorodifluoromethane	50.0	50.0	54.94	52.31
1,1-Dichloroethane	50.0	50.0	54.20	55.02
1,2-Dichloroethane	50.0	50.0	48.91	47.52
1,1-Dichloroethene	50.0	50.0	54.19	53.43
1,2-Dichloropropane	50.0	50.0	54.00	53.04
Ethylbenzene	50.0	50.0	52.79	52.08
2-Hexanone	250	250	250.5	243.5
Isopropylbenzene	50.0	50.0	53.16	52.23
Methyl acetate	250	250	185.9	197.3
Methylcyclohexane	50.0	50.0	49.83	48.93
Methylene Chloride	50.0	50.0	51.71	51.47
4-Methyl-2-pentanone (MIBK)	250	250	256.1	256.3
Methyl tert-butyl ether	50.0	50.0	47.68	48.20
N-Propylbenzene	50.0	50.0	55.59	53.46
Styrene	50.0	50.0	55.57	53.68
1,1,2,2-Tetrachloroethane	50.0	50.0	50.25	48.58
Tetrachloroethene	50.0	50.0	54.23	56.34

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 490-123017

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 490-123017/3	Units: ug/L		LCSD Lab Sample ID:	LCSD 490-123017/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/19/2013 1217			Analysis Date:	11/19/2013 1248
Prep Date:	11/19/2013 1217			Prep Date:	11/19/2013 1248
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Tetrahydrofuran	100	100	63.18	71.53
Toluene	50.0	50.0	54.81	53.95
trans-1,2-Dichloroethene	50.0	50.0	52.65	52.48
trans-1,3-Dichloropropene	50.0	50.0	53.38	52.76
1,2,4-Trichlorobenzene	50.0	50.0	51.62	50.27
1,1,1-Trichloroethane	50.0	50.0	51.33	49.64
1,1,2-Trichloroethane	50.0	50.0	49.91	51.28
Trichloroethene	50.0	50.0	49.60	48.83
Trichlorofluoromethane	50.0	50.0	55.30	53.33
1,1,2-Trichloro-1,2,2-trichfluoroethane	50.0	50.0	51.48	50.62
Vinyl chloride	50.0	50.0	52.63	50.98
Xylenes, Total	100	100	106.3	103.6

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-123017

Method: 8260B
Preparation: 5030B
TCLP

MS Lab Sample ID:	490-40571-A-1-A MS	Analysis Batch:	490-123017	Instrument ID:	HP35
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1119-22.D
Dilution:	10	Leach Batch:	490-122564	Initial Weight/Volume:	10 mL
Analysis Date:	11/19/2013 2300			Final Weight/Volume:	10 mL
Prep Date:	11/19/2013 2300				
Leach Date:	11/16/2013 1343				

MSD Lab Sample ID:	490-40571-A-1-A MSD	Analysis Batch:	490-123017	Instrument ID:	HP35
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1119-23.D
Dilution:	10	Leach Batch:	490-122564	Initial Weight/Volume:	10 mL
Analysis Date:	11/19/2013 2331			Final Weight/Volume:	10 mL
Prep Date:	11/19/2013 2331				
Leach Date:	11/16/2013 1343				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	91	87	45 - 141	5	21		
Benzene	99	101	75 - 133	2	17		
Bromochloromethane	106	101	67 - 139	5	17		
Bromodichloromethane	100	97	70 - 140	3	18		
Bromoform	112	109	42 - 147	3	16		
Bromomethane	89	101	16 - 163	12	50		
2-Butanone (MEK)	88	88	50 - 138	1	19		
Carbon disulfide	115	107	48 - 152	7	21		
Carbon tetrachloride	111	104	62 - 164	6	19		
Chlorobenzene	120	119	80 - 129	1	14		
Chlorodibromomethane	118	117	66 - 140	1	15		
Chloroethane	118	118	58 - 137	0	20		
Chloroform	110	101	66 - 138	8	18		
Chloromethane	79	83	10 - 169	5	31		
cis-1,2-Dichloroethene	110	113	68 - 138	3	17		
cis-1,3-Dichloropropene	112	111	71 - 141	1	15		
Cyclohexane	106	104	58 - 144	2	16		
1,2-Dibromo-3-Chloropropane	79	80	52 - 126	2	24		
1,2-Dibromoethane (EDB)	101	99	75 - 137	2	15		
1,2-Dichlorobenzene	101	101	79 - 128	1	15		
1,3-Dichlorobenzene	99	101	77 - 131	1	15		
1,4-Dichlorobenzene	110	110	78 - 126	1	15		
Dichlorodifluoromethane	123	120	40 - 127	2	18		
1,1-Dichloroethane	112	115	71 - 139	3	17		
1,2-Dichloroethane	98	100	64 - 136	2	17		
1,1-Dichloroethene	114	111	70 - 142	3	17		
1,2-Dichloropropane	103	101	67 - 131	1	17		
Ethylbenzene	113	110	79 - 139	2	15		
2-Hexanone	93	90	50 - 150	4	15		
Isopropylbenzene	116	114	80 - 153	2	16		
Methyl acetate	78	74	30 - 165	4	31		
Methylcyclohexane	96	96	59 - 151	0	19		
Methylene Chloride	102	101	64 - 139	1	17		

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-123017

Method: 8260B
Preparation: 5030B
TCLP

MS Lab Sample ID:	490-40571-A-1-A MS	Analysis Batch:	490-123017	Instrument ID:	HP35
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1119-22.D
Dilution:	10	Leach Batch:	490-122564	Initial Weight/Volume:	10 mL
Analysis Date:	11/19/2013 2300			Final Weight/Volume:	10 mL
Prep Date:	11/19/2013 2300				
Leach Date:	11/16/2013 1343				

MSD Lab Sample ID:	490-40571-A-1-A MSD	Analysis Batch:	490-123017	Instrument ID:	HP35
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	1119-23.D
Dilution:	10	Leach Batch:	490-122564	Initial Weight/Volume:	10 mL
Analysis Date:	11/19/2013 2331			Final Weight/Volume:	10 mL
Prep Date:	11/19/2013 2331				
Leach Date:	11/16/2013 1343				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
4-Methyl-2-pentanone (MIBK)	99	96	50 - 147	3	17		
Methyl tert-butyl ether	89	89	66 - 141	0	16		
N-Propylbenzene	104	107	69 - 142	3	17		
Styrene	117	115	61 - 148	2	24		
1,1,2,2-Tetrachloroethane	92	93	56 - 143	1	20		
Tetrachloroethene	120	119	72 - 145	1	16		
Tetrahydrofuran	68	86	34 - 133	24	18		F
Toluene	115	113	75 - 136	2	15		
trans-1,2-Dichloroethene	115	113	66 - 143	2	16		
trans-1,3-Dichloropropene	108	107	59 - 135	1	14		
1,2,4-Trichlorobenzene	91	96	60 - 136	5	19		
1,1,1-Trichloroethane	111	108	76 - 149	3	17		
1,1,2-Trichloroethane	107	102	74 - 134	5	15		
Trichloroethene	101	97	73 - 144	4	17		
Trichlorofluoromethane	123	120	58 - 139	3	18		
1,1,2-Trichloro-1,2,2-trichfluoroethane	113	110	72 - 148	3	18		
Vinyl chloride	112	113	56 - 129	0	17		
Xylenes, Total	110	109	74 - 141	1	15		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	94	95	70 - 130
Dibromofluoromethane (Surr)	104	100	70 - 130
1,2-Dichloroethane-d4 (Surr)	101	98	70 - 130
Toluene-d8 (Surr)	111	109	70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-123017

Method: 8260B
Preparation: 5030B
TCLP

MS Lab Sample ID:	490-40571-A-1-A MS	Units:	ug/L	MSD Lab Sample ID:	490-40571-A-1-A MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	10			Dilution:	10
Analysis Date:	11/19/2013 2300			Analysis Date:	11/19/2013 2331
Prep Date:	11/19/2013 2300			Prep Date:	11/19/2013 2331
Leach Date:	11/16/2013 1343			Leach Date:	11/16/2013 1343

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual	
Acetone	ND		2500	2500	2269	2169	
Benzene	ND		500	500	493.1	504.2	
Bromochloromethane	ND		500	500	529.3	504.3	
Bromodichloromethane	ND		500	500	499.9	484.6	
Bromoform	ND		500	500	561.0	544.6	
Bromomethane	ND		500	500	446.8	503.8	
2-Butanone (MEK)	ND		2500	2500	2195	2210	
Carbon disulfide	ND		500	500	576.1	534.7	
Carbon tetrachloride	ND		500	500	553.3	521.7	
Chlorobenzene	ND		500	500	602.1	595.4	
Chlorodibromomethane	ND		500	500	591.2	583.4	
Chloroethane	ND		500	500	588.8	590.7	
Chloroform	2.64	J	500	500	551.8	509.9	
Chloromethane	ND		500	500	396.5	415.1	
cis-1,2-Dichloroethene	ND		500	500	548.1	563.9	
cis-1,3-Dichloropropene	ND		500	500	560.6	555.0	
Cyclohexane	ND		500	500	530.5	521.0	
1,2-Dibromo-3-Chloropropane	ND		500	500	395.7	401.8	
1,2-Dibromoethane (EDB)	ND		500	500	505.7	494.7	
1,2-Dichlorobenzene	ND		500	500	502.7	507.2	
1,3-Dichlorobenzene	ND		500	500	496.7	503.2	
1,4-Dichlorobenzene	ND		500	500	548.6	552.2	
Dichlorodifluoromethane	ND		500	500	613.1	598.1	
1,1-Dichloroethane	ND		500	500	559.4	574.4	
1,2-Dichloroethane	ND		500	500	490.5	499.6	
1,1-Dichloroethene	ND		500	500	570.3	553.3	
1,2-Dichloropropane	ND		500	500	513.2	507.1	
Ethylbenzene	ND		500	500	562.6	551.6	
2-Hexanone	ND		2500	2500	2337	2256	
Isopropylbenzene	ND		500	500	580.0	568.7	
Methyl acetate	ND		2500	2500	1947	1862	
Methylcyclohexane	ND		500	500	479.7	479.3	
Methylene Chloride	39.5	J	500	500	551.3	544.1	
4-Methyl-2-pentanone (MIBK)	ND		2500	2500	2478	2411	
Methyl tert-butyl ether	ND		500	500	447.3	446.2	
N-Propylbenzene	ND		500	500	519.5	533.0	
Styrene	ND		500	500	585.0	573.4	
1,1,2,2-Tetrachloroethane	ND		500	500	460.4	463.1	
Tetrachloroethene	4.06	J	500	500	603.4	599.5	
Tetrahydrofuran	ND		1000	1000	682.3	864.6	F
Toluene	ND		500	500	573.9	564.3	
trans-1,2-Dichloroethene	ND		500	500	574.5	563.3	
trans-1,3-Dichloropropene	ND		500	500	538.3	532.6	

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-123017

Method: 8260B
Preparation: 5030B
TCLP

MS Lab Sample ID:	490-40571-A-1-A MS	Units: ug/L	MSD Lab Sample ID:	490-40571-A-1-A MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	10		Dilution:	10	
Analysis Date:	11/19/2013 2300		Analysis Date:	11/19/2013 2331	
Prep Date:	11/19/2013 2300		Prep Date:	11/19/2013 2331	
Leach Date:	11/16/2013 1343		Leach Date:	11/16/2013 1343	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,2,4-Trichlorobenzene	ND	500	500	456.4	478.0
1,1,1-Trichloroethane	ND	500	500	557.3	539.1
1,1,2-Trichloroethane	ND	500	500	536.0	508.1
Trichloroethene	ND	500	500	503.3	485.2
Trichlorofluoromethane	ND	500	500	616.6	601.1
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND	500	500	563.6	547.9
Vinyl chloride	ND	500	500	560.7	563.5
Xylenes, Total	ND	1000	1000	1103	1088

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Method Blank - Batch: 490-121926

Method: 8270C
Preparation: 3510C

Lab Sample ID:	MB 490-121926/1-A	Analysis Batch:	490-122300	Instrument ID:	HP31
Client Matrix:	Water	Prep Batch:	490-121926	Lab File ID:	1115006.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	11/15/2013 1524	Units:	ug/L	Final Weight/Volume:	1 mL
Prep Date:	11/14/2013 1154			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acenaphthene	ND		0.366	2.00
Acenaphthylene	ND		0.330	2.00
Acetophenone	ND		1.90	10.0
Anthracene	ND		0.883	2.00
Atrazine	ND		3.70	10.0
Benzaldehyde	ND		2.15	10.0
Benzo[a]anthracene	ND		0.324	2.00
Benzo[a]pyrene	ND		0.330	2.00
Benzo[b]fluoranthene	ND		0.422	2.00
Benzo[g,h,i]perylene	ND		0.287	2.00
Benzo[k]fluoranthene	ND		0.364	2.00
Biphenyl	ND		3.33	10.0
Bis(2-chloroethoxy)methane	ND		1.36	10.0
Bis(2-chloroethyl)ether	ND		1.39	10.0
bis (2-chloroisopropyl) ether	ND		1.96	10.0
Bis(2-ethylhexyl) phthalate	ND		2.06	10.0
4-Bromophenyl phenyl ether	ND		1.37	10.0
Butyl benzyl phthalate	ND		1.74	10.0
Caprolactam	ND		3.33	10.0
Carbazole	ND		0.299	10.0
4-Chloroaniline	ND		1.17	10.0
4-Chloro-3-methylphenol	ND		3.33	10.0
2-Chloronaphthalene	ND		1.64	10.0
2-Chlorophenol	ND		1.59	10.0
4-Chlorophenyl phenyl ether	ND		1.75	10.0
Chrysene	ND		1.09	2.00
Dibenz(a,h)anthracene	ND		0.644	2.00
Dibenzofuran	ND		0.339	10.0
3,3'-Dichlorobenzidine	ND		1.52	10.0
2,4-Dichlorophenol	ND		1.02	10.0
Diethyl phthalate	ND		1.62	10.0
2,4-Dimethylphenol	ND		0.996	10.0
Dimethyl phthalate	ND		1.81	10.0
Di-n-butyl phthalate	ND		1.50	10.0
4,6-Dinitro-2-methylphenol	ND		2.07	25.0
2,4-Dinitrophenol	ND		2.46	25.0
2,4-Dinitrotoluene	ND		3.33	10.0
2,6-Dinitrotoluene	ND		1.94	10.0
Di-n-octyl phthalate	ND		2.31	10.0
Fluoranthene	ND		0.347	2.00
Fluorene	ND		0.316	2.00
Hexachlorobenzene	ND		1.69	10.0
Hexachlorobutadiene	ND		3.33	10.0
Hexachlorocyclopentadiene	ND		3.33	10.0
Hexachloroethane	ND		3.33	10.0

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Method Blank - Batch: 490-121926

Method: 8270C
Preparation: 3510C

Lab Sample ID:	MB 490-121926/1-A	Analysis Batch:	490-122300	Instrument ID:	HP31
Client Matrix:	Water	Prep Batch:	490-121926	Lab File ID:	1115006.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	11/15/2013 1524	Units:	ug/L	Final Weight/Volume:	1 mL
Prep Date:	11/14/2013 1154			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Indeno[1,2,3-cd]pyrene	ND		0.381	2.00
Isophorone	ND		1.24	10.0
2-Methylnaphthalene	ND		0.311	2.00
2-Methylphenol	ND		3.33	10.0
3 & 4 Methylphenol	ND		3.33	10.0
Naphthalene	ND		0.398	2.00
2-Nitroaniline	ND		1.04	25.0
3-Nitroaniline	ND		1.85	25.0
4-Nitroaniline	ND		2.39	25.0
Nitrobenzene	ND		1.24	10.0
2-Nitrophenol	ND		1.57	10.0
4-Nitrophenol	ND		3.33	25.0
N-Nitrosodi-n-propylamine	ND		1.42	10.0
n-Nitrosodiphenylamine(as diphenylamine)	ND		1.44	10.0
Pentachlorophenol	ND		1.65	25.0
Phenanthrene	ND		0.343	2.00
Phenol	ND		3.45	10.0
Pyrene	ND		0.331	2.00
2,4,5-Trichlorophenol	ND		2.03	25.0
2,4,6-Trichlorophenol	ND		1.76	10.0

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	76	29 - 120
2-Fluorophenol (Surr)	34	10 - 120
Nitrobenzene-d5 (Surr)	71	27 - 120
Phenol-d5 (Surr)	18	10 - 120
Terphenyl-d14 (Surr)	86	13 - 120
2,4,6-Tribromophenol (Surr)	75	10 - 120

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Lab Control Sample - Batch: 490-121926

Method: 8270C
Preparation: 3510C

Lab Sample ID:	LCS 490-121926/2-A	Analysis Batch:	490-122300	Instrument ID:	HP31
Client Matrix:	Water	Prep Batch:	490-121926	Lab File ID:	1115007.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	11/15/2013 1547	Units:	ug/L	Final Weight/Volume:	1 mL
Prep Date:	11/14/2013 1154			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	50.0	47.24	94	46 - 120	
Acenaphthylene	50.0	46.86	94	48 - 120	
Acetophenone	50.0	46.09	92	52 - 133	
Anthracene	50.0	48.09	96	58 - 130	
Atrazine	50.0	51.11	102	24 - 133	
Benzaldehyde	50.0	75.01	150	34 - 120	*
Benzo[a]anthracene	50.0	48.37	97	57 - 120	
Benzo[a]pyrene	50.0	47.40	95	57 - 124	
Benzo[b]fluoranthene	50.0	45.81	92	51 - 125	
Benzo[g,h,i]perylene	50.0	47.95	96	51 - 123	
Benzo[k]fluoranthene	50.0	49.46	99	51 - 120	
Biphenyl	50.0	45.75	91	10 - 146	
Bis(2-chloroethoxy)methane	50.0	44.77	90	44 - 120	
Bis(2-chloroethyl)ether	50.0	41.97	84	47 - 120	
bis (2-chloroisopropyl) ether	50.0	39.45	79	44 - 120	
Bis(2-ethylhexyl) phthalate	50.0	48.35	97	47 - 138	
4-Bromophenyl phenyl ether	50.0	51.05	102	47 - 127	
Butyl benzyl phthalate	50.0	49.08	98	51 - 146	
Caprolactam	50.0	11.45	23	10 - 120	
Carbazole	50.0	48.49	97	54 - 123	
4-Chloroaniline	50.0	46.82	94	44 - 120	
4-Chloro-3-methylphenol	50.0	50.21	100	44 - 120	
2-Chloronaphthalene	50.0	44.84	90	39 - 120	
2-Chlorophenol	50.0	43.55	87	40 - 120	
4-Chlorophenyl phenyl ether	50.0	48.33	97	50 - 120	
Chrysene	50.0	49.82	100	55 - 120	
Dibenz(a,h)anthracene	50.0	48.67	97	50 - 125	
Dibenzofuran	50.0	47.62	95	50 - 120	
3,3'-Dichlorobenzidine	50.0	47.73	95	46 - 129	
2,4-Dichlorophenol	50.0	48.88	98	38 - 120	
Diethyl phthalate	50.0	49.88	100	54 - 128	
2,4-Dimethylphenol	50.0	39.98	80	21 - 126	
Dimethyl phthalate	50.0	47.98	96	53 - 127	
Di-n-butyl phthalate	50.0	50.61	101	54 - 140	
4,6-Dinitro-2-methylphenol	100	101.5	101	19 - 150	
2,4-Dinitrophenol	100	97.76	98	20 - 150	
2,4-Dinitrotoluene	50.0	50.51	101	46 - 132	
2,6-Dinitrotoluene	50.0	51.60	103	54 - 128	
Di-n-octyl phthalate	50.0	48.83	98	50 - 142	
Fluoranthene	50.0	49.41	99	56 - 120	
Fluorene	50.0	49.55	99	52 - 120	
Hexachlorobenzene	50.0	49.65	99	48 - 131	
Hexachlorobutadiene	50.0	35.28	71	28 - 120	
Hexachlorocyclopentadiene	50.0	32.09	64	17 - 120	
Hexachloroethane	50.0	28.80	58	30 - 120	
Indeno[1,2,3-cd]pyrene	50.0	46.74	93	54 - 125	

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Lab Control Sample - Batch: 490-121926

Method: 8270C
Preparation: 3510C

Lab Sample ID:	LCS 490-121926/2-A	Analysis Batch:	490-122300	Instrument ID:	HP31
Client Matrix:	Water	Prep Batch:	490-121926	Lab File ID:	1115007.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	11/15/2013 1547	Units:	ug/L	Final Weight/Volume:	1 mL
Prep Date:	11/14/2013 1154			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Isophorone	50.0	48.75	98	47 - 120	
2-Methylnaphthalene	50.0	42.53	85	31 - 120	
2-Methylphenol	50.0	38.16	76	38 - 120	
3 & 4 Methylphenol	50.0	34.14	68	33 - 120	
Naphthalene	50.0	39.79	80	37 - 120	
2-Nitroaniline	50.0	49.60	99	46 - 131	
3-Nitroaniline	50.0	44.77	90	54 - 121	
4-Nitroaniline	50.0	46.64	93	55 - 123	
Nitrobenzene	50.0	47.70	95	36 - 120	
2-Nitrophenol	50.0	49.12	98	32 - 120	
4-Nitrophenol	100	37.56	38	10 - 120	
N-Nitrosodi-n-propylamine	50.0	46.19	92	51 - 120	
n-Nitrosodiphenylamine(as diphenylamine)	50.0	59.84	120	58 - 149	
Pentachlorophenol	100	101.4	101	21 - 150	
Phenanthrene	50.0	48.07	96	56 - 120	
Phenol	50.0	15.98	32	14 - 120	
Pyrene	50.0	48.14	96	53 - 129	
2,4,5-Trichlorophenol	50.0	51.77	104	40 - 129	
2,4,6-Trichlorophenol	50.0	50.63	101	39 - 135	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	89	29 - 120
2-Fluorophenol (Surr)	45	10 - 120
Nitrobenzene-d5 (Surr)	92	27 - 120
Phenol-d5 (Surr)	30	10 - 120
Terphenyl-d14 (Surr)	95	13 - 120
2,4,6-Tribromophenol (Surr)	97	10 - 120

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-121926

Method: 8270C
Preparation: 3510C

MS Lab Sample ID:	490-39837-2	Analysis Batch:	490-122300	Instrument ID:	HP31
Client Matrix:	Water	Prep Batch:	490-121926	Lab File ID:	1115010.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1070 mL
Analysis Date:	11/15/2013 1742			Final Weight/Volume:	1 mL
Prep Date:	11/14/2013 1154			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-39837-2	Analysis Batch:	490-122300	Instrument ID:	HP31
Client Matrix:	Water	Prep Batch:	490-121926	Lab File ID:	1115011.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1070 mL
Analysis Date:	11/15/2013 1806			Final Weight/Volume:	1 mL
Prep Date:	11/14/2013 1154			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	89	85	46 - 120	5	31		
Acenaphthylene	88	83	48 - 120	6	31		
Acetophenone	86	79	10 - 200	8	50		
Anthracene	93	86	56 - 130	7	28		
Atrazine	96	92	10 - 200	4	50		
Benzaldehyde	100	122	10 - 200	20	50		
Benzo[a]anthracene	92	84	57 - 122	9	27		
Benzo[a]pyrene	91	83	46 - 138	8	27		
Benzo[b]fluoranthene	92	84	45 - 138	9	39		
Benzo[g,h,i]perylene	91	85	48 - 137	7	27		
Benzo[k]fluoranthene	89	82	44 - 134	8	32		
Biphenyl	86	79	10 - 200	8	50		
Bis(2-chloroethoxy)methane	84	78	41 - 120	7	31		
Bis(2-chloroethyl)ether	81	73	42 - 120	10	38		
bis (2-chloroisopropyl) ether	75	69	44 - 120	8	36		
Bis(2-ethylhexyl) phthalate	410	96	44 - 138	124	28	E F	F
4-Bromophenyl phenyl ether	96	89	47 - 127	8	29		
Butyl benzyl phthalate	96	86	51 - 146	11	31		
Caprolactam	20	19	10 - 200	5	50		J
Carbazole	93	86	53 - 123	8	29		
4-Chloroaniline	86	79	35 - 120	8	26		
4-Chloro-3-methylphenol	91	86	38 - 120	6	22		
2-Chloronaphthalene	85	81	39 - 120	5	36		
2-Chlorophenol	81	75	40 - 120	8	46		
4-Chlorophenyl phenyl ether	90	83	50 - 120	7	29		
Chrysene	94	87	54 - 123	8	27		
Dibenz(a,h)anthracene	91	85	50 - 136	8	28		
Dibenzofuran	88	83	50 - 120	6	29		
3,3'-Dichlorobenzidine	94	70	10 - 130	30	30		
2,4-Dichlorophenol	90	84	38 - 120	7	30		
Diethyl phthalate	95	89	53 - 128	6	28		
2,4-Dimethylphenol	83	76	11 - 130	9	48		
Dimethyl phthalate	92	87	53 - 127	6	27		

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-121926

Method: 8270C
Preparation: 3510C

MS Lab Sample ID:	490-39837-2	Analysis Batch:	490-122300	Instrument ID:	HP31
Client Matrix:	Water	Prep Batch:	490-121926	Lab File ID:	1115010.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1070 mL
Analysis Date:	11/15/2013 1742			Final Weight/Volume:	1 mL
Prep Date:	11/14/2013 1154			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	490-39837-2	Analysis Batch:	490-122300	Instrument ID:	HP31
Client Matrix:	Water	Prep Batch:	490-121926	Lab File ID:	1115011.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1070 mL
Analysis Date:	11/15/2013 1806			Final Weight/Volume:	1 mL
Prep Date:	11/14/2013 1154			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Di-n-butyl phthalate	99	91	54 - 140	8	27		
4,6-Dinitro-2-methylphenol	96	89	10 - 157	8	34		
2,4-Dinitrophenol	89	86	10 - 176	3	31		
2,4-Dinitrotoluene	93	88	46 - 134	5	26		
2,6-Dinitrotoluene	96	91	54 - 128	5	29		
Di-n-octyl phthalate	97	87	50 - 142	11	28		
Fluoranthene	93	87	56 - 120	6	28		
Fluorene	91	86	52 - 120	5	28		
Hexachlorobenzene	94	87	48 - 131	8	28		
Hexachlorobutadiene	72	64	24 - 120	12	43		
Hexachlorocyclopentadiene	62	58	10 - 120	6	43		
Hexachloroethane	63	59	26 - 120	7	45		
Indeno[1,2,3-cd]pyrene	89	82	50 - 136	8	27		
Isophorone	91	86	42 - 120	6	31		
2-Methylnaphthalene	83	75	31 - 120	10	35		
2-Methylphenol	70	64	36 - 120	8	32		
3 & 4 Methylphenol	63	58	32 - 120	9	34		
Naphthalene	77	71	32 - 120	7	37		
2-Nitroaniline	92	90	46 - 131	2	24		
3-Nitroaniline	83	77	38 - 121	8	26		
4-Nitroaniline	85	81	47 - 124	5	26		
Nitrobenzene	86	81	36 - 120	7	28		
2-Nitrophenol	91	84	32 - 120	7	31		
4-Nitrophenol	33	31	10 - 120	6	38		
N-Nitrosodi-n-propylamine	87	80	50 - 121	9	37		
n-Nitrosodiphenylamine(as diphenylamine)	117	110	45 - 149	7	26		
Pentachlorophenol	96	91	21 - 159	5	31		
Phenanthrene	92	85	53 - 120	8	26		
Phenol	31	29	10 - 120	7	42		
Pyrene	93	86	50 - 129	9	29		
2,4,5-Trichlorophenol	96	91	40 - 129	5	34		
2,4,6-Trichlorophenol	94	89	39 - 135	5	40		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	82	77	29 - 120
2-Fluorophenol (Surr)	39	36	10 - 120
Nitrobenzene-d5 (Surr)	84	77	27 - 120
Phenol-d5 (Surr)	26	24	10 - 120
Terphenyl-d14 (Surr)	71	50	13 - 120
2,4,6-Tribromophenol (Surr)	90	85	10 - 120

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-121926

Method: 8270C
Preparation: 3510C

MS Lab Sample ID:	490-39837-2	Units: ug/L	MSD Lab Sample ID:	490-39837-2	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/15/2013 1742		Analysis Date:	11/15/2013 1806	
Prep Date:	11/14/2013 1154		Prep Date:	11/14/2013 1154	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Acenaphthene	ND	46.7	46.7	41.71		39.60	
Acenaphthylene	ND	46.7	46.7	41.05		38.61	
Acetophenone	ND	46.7	46.7	40.13		37.01	
Anthracene	ND	46.7	46.7	43.35		40.38	
Atrazine	ND	46.7	46.7	44.78		42.81	
Benzaldehyde	ND	46.7	46.7	46.71		57.04	
Benzo[a]anthracene	ND	46.7	46.7	42.87		39.24	
Benzo[a]pyrene	ND	46.7	46.7	42.33		38.98	
Benzo[b]fluoranthene	ND	46.7	46.7	42.85		39.30	
Benzo[g,h,i]perylene	ND	46.7	46.7	42.58		39.58	
Benzo[k]fluoranthene	ND	46.7	46.7	41.63		38.54	
Biphenyl	ND	46.7	46.7	40.33		37.13	
Bis(2-chloroethoxy)methane	ND	46.7	46.7	39.13		36.48	
Bis(2-chloroethyl)ether	ND	46.7	46.7	37.84		34.26	
bis (2-chloroisopropyl) ether	ND	46.7	46.7	34.82		32.25	
Bis(2-ethylhexyl) phthalate	ND	46.7	46.7	191.7	E F	45.00	F
4-Bromophenyl phenyl ether	ND	46.7	46.7	45.06		41.63	
Butyl benzyl phthalate	ND	46.7	46.7	44.92		40.30	
Caprolactam	ND	46.7	46.7	9.372		8.910	J
Carbazole	ND	46.7	46.7	43.31		40.00	
4-Chloroaniline	ND	46.7	46.7	40.05		36.91	
4-Chloro-3-methylphenol	ND	46.7	46.7	42.70		40.30	
2-Chloronaphthalene	ND	46.7	46.7	39.60		37.74	
2-Chlorophenol	ND	46.7	46.7	37.67		34.92	
4-Chlorophenyl phenyl ether	ND	46.7	46.7	41.92		39.01	
Chrysene	ND	46.7	46.7	43.95		40.69	
Dibenz(a,h)anthracene	ND	46.7	46.7	42.70		39.51	
Dibenzofuran	ND	46.7	46.7	41.32		39.01	
3,3'-Dichlorobenzidine	ND	46.7	46.7	44.13		32.60	
2,4-Dichlorophenol	ND	46.7	46.7	41.85		39.03	
Diethyl phthalate	ND	46.7	46.7	44.26		41.54	
2,4-Dimethylphenol	ND	46.7	46.7	38.79		35.44	
Dimethyl phthalate	ND	46.7	46.7	42.81		40.43	
Di-n-butyl phthalate	ND	46.7	46.7	46.06		42.34	
4,6-Dinitro-2-methylphenol	ND	93.5	93.5	89.33		82.82	
2,4-Dinitrophenol	ND	93.5	93.5	83.28		80.64	
2,4-Dinitrotoluene	ND	46.7	46.7	43.41		41.33	
2,6-Dinitrotoluene	ND	46.7	46.7	44.79		42.53	
Di-n-octyl phthalate	ND	46.7	46.7	45.23		40.50	
Fluoranthene	ND	46.7	46.7	43.42		40.82	
Fluorene	ND	46.7	46.7	42.69		40.41	
Hexachlorobenzene	ND	46.7	46.7	43.80		40.63	
Hexachlorobutadiene	ND	46.7	46.7	33.80		29.91	

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-121926

Method: 8270C
Preparation: 3510C

MS Lab Sample ID:	490-39837-2	Units: ug/L	MSD Lab Sample ID:	490-39837-2	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/15/2013 1742		Analysis Date:	11/15/2013 1806	
Prep Date:	11/14/2013 1154		Prep Date:	11/14/2013 1154	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Hexachlorocyclopentadiene	ND	46.7	46.7	29.05	27.31
Hexachloroethane	ND	46.7	46.7	29.33	27.42
Indeno[1,2,3-cd]pyrene	ND	46.7	46.7	41.47	38.37
Isophorone	ND	46.7	46.7	42.73	40.08
2-Methylnaphthalene	ND	46.7	46.7	38.79	35.23
2-Methylphenol	ND	46.7	46.7	32.59	30.11
3 & 4 Methylphenol	ND	46.7	46.7	29.59	26.92
Naphthalene	ND	46.7	46.7	35.78	33.35
2-Nitroaniline	ND	46.7	46.7	43.13	42.16
3-Nitroaniline	ND	46.7	46.7	38.96	36.07
4-Nitroaniline	ND	46.7	46.7	39.83	37.73
Nitrobenzene	ND	46.7	46.7	40.41	37.64
2-Nitrophenol	ND	46.7	46.7	42.32	39.28
4-Nitrophenol	ND	93.5	93.5	30.48	28.72
N-Nitrosodi-n-propylamine	ND	46.7	46.7	40.80	37.30
n-Nitrosodiphenylamine(as diphenylamine)	ND	46.7	46.7	54.71	51.25
Pentachlorophenol	ND	93.5	93.5	89.54	85.33
Phenanthrene	ND	46.7	46.7	43.06	39.86
Phenol	ND	46.7	46.7	14.46	13.50
Pyrene	ND	46.7	46.7	43.60	40.02
2,4,5-Trichlorophenol	ND	46.7	46.7	44.85	42.47
2,4,6-Trichlorophenol	ND	46.7	46.7	43.81	41.48

DATA REPORTING QUALIFIERS

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Lab Section	Qualifier	Description
GC/MS VOA		
	*	LCS or LCSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
	F	MS/MSD Recovery and/or RPD exceeds the control limits
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	*	RPD of the LCS and LCSD exceeds the control limits
GC/MS Semi VOA		
	*	LCS or LCSD exceeds the control limits
	F	MS/MSD Recovery and/or RPD exceeds the control limits
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 490-122564					
490-40571-A-1-A MS	Matrix Spike	P	Water		
490-40571-A-1-A MSD	Matrix Spike Duplicate	P	Water		
Analysis Batch:490-122748					
LCS 490-122748/3	Lab Control Sample	T	Water	8260B	
LCSD 490-122748/4	Lab Control Sample Duplicate	T	Water	8260B	
MB 490-122748/7	Method Blank	T	Water	8260B	
490-39837-1	MW-03A-GW-001	T	Water	8260B	
490-39837-2	MW-03B-GW-001	T	Water	8260B	
490-39837-2MS	Matrix Spike	T	Water	8260B	
490-39837-2MSD	Matrix Spike Duplicate	T	Water	8260B	
490-39837-4	MW-03B-GW-002	T	Water	8260B	
490-39837-6	MW-05-GW-001	T	Water	8260B	
490-39837-7FB	Field Blank	T	Water	8260B	
490-39837-9EB	Equipment Blank	T	Water	8260B	
490-39837-11TB	Trip Blank	T	Water	8260B	
Analysis Batch:490-123017					
LCS 490-123017/3	Lab Control Sample	T	Water	8260B	
LCSD 490-123017/4	Lab Control Sample Duplicate	T	Water	8260B	
MB 490-123017/7	Method Blank	T	Water	8260B	
490-39837-2	MW-03B-GW-001	T	Water	8260B	
490-39837-4	MW-03B-GW-002	T	Water	8260B	
490-40571-A-1-A MS	Matrix Spike	P	Water	8260B	
490-40571-A-1-A MSD	Matrix Spike Duplicate	P	Water	8260B	

Report Basis

P = TCLP

T = Total

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 490-121926					
LCS 490-121926/2-A	Lab Control Sample	T	Water	3510C	
MB 490-121926/1-A	Method Blank	T	Water	3510C	
490-39837-2	MW-03B-GW-001	T	Water	3510C	
490-39837-2MS	Matrix Spike	T	Water	3510C	
490-39837-2MSD	Matrix Spike Duplicate	T	Water	3510C	
490-39837-4	MW-03B-GW-002	T	Water	3510C	
490-39837-6	MW-05-GW-001	T	Water	3510C	
490-39837-7FB	Field Blank	T	Water	3510C	
490-39837-9EB	Equipment Blank	T	Water	3510C	
Analysis Batch:490-122300					
LCS 490-121926/2-A	Lab Control Sample	T	Water	8270C	490-121926
MB 490-121926/1-A	Method Blank	T	Water	8270C	490-121926
490-39837-2	MW-03B-GW-001	T	Water	8270C	490-121926
490-39837-2MS	Matrix Spike	T	Water	8270C	490-121926
490-39837-2MSD	Matrix Spike Duplicate	T	Water	8270C	490-121926
490-39837-4	MW-03B-GW-002	T	Water	8270C	490-121926
490-39837-6	MW-05-GW-001	T	Water	8270C	490-121926
490-39837-7FB	Field Blank	T	Water	8270C	490-121926
490-39837-9EB	Equipment Blank	T	Water	8270C	490-121926

Report Basis

T = Total

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Laboratory Chronicle

Lab ID: 490-39837-1 **Client ID:** MW-03A-GW-001

Sample Date/Time: 11/07/2013 09:35 Received Date/Time: 11/08/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39837-A-1		490-122748		11/18/2013 15:44	1	TAL NSH	MJH
A:8260B	490-39837-A-1		490-122748		11/18/2013 15:44	1	TAL NSH	MJH

Lab ID: 490-39837-2 **Client ID:** MW-03B-GW-001

Sample Date/Time: 11/07/2013 13:19 Received Date/Time: 11/08/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39837-A-2		490-122748		11/18/2013 16:15	1	TAL NSH	MJH
A:8260B	490-39837-A-2		490-122748		11/18/2013 16:15	1	TAL NSH	MJH
P:5030B	490-39837-B-2		490-123017		11/19/2013 16:04	10	TAL NSH	MJH
A:8260B	490-39837-B-2		490-123017		11/19/2013 16:04	10	TAL NSH	MJH
P:3510C	490-39837-U-2-A		490-122300	490-121926	11/14/2013 11:54	1	TAL NSH	CLH
A:8270C	490-39837-U-2-A		490-122300	490-121926	11/15/2013 17:19	1	TAL NSH	KJP

Lab ID: 490-39837-2 **Client ID:** MW-03B-GW-001

Sample Date/Time: 11/07/2013 13:19 Received Date/Time: 11/08/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39837-A-2 MS		490-122748		11/18/2013 17:47	1	TAL NSH	MJH
A:8260B	490-39837-A-2 MS		490-122748		11/18/2013 17:47	1	TAL NSH	MJH
P:3510C	490-39837-V-2-A MS		490-122300	490-121926	11/14/2013 11:54	1	TAL NSH	CLH
A:8270C	490-39837-V-2-A MS		490-122300	490-121926	11/15/2013 17:42	1	TAL NSH	KJP

Lab ID: 490-39837-2 **Client ID:** MW-03B-GW-001

Sample Date/Time: 11/07/2013 13:19 Received Date/Time: 11/08/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39837-B-2 MSD		490-122748		11/18/2013 18:17	1	TAL NSH	MJH
A:8260B	490-39837-B-2 MSD		490-122748		11/18/2013 18:17	1	TAL NSH	MJH
P:3510C	490-39837-U-2-B MSD		490-122300	490-121926	11/14/2013 11:54	1	TAL NSH	CLH
A:8270C	490-39837-U-2-B MSD		490-122300	490-121926	11/15/2013 18:06	1	TAL NSH	KJP

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Laboratory Chronicle

Lab ID: 490-39837-4 **Client ID:** MW-03B-GW-002

Sample Date/Time: 11/07/2013 13:19 Received Date/Time: 11/08/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39837-A-4		490-122748		11/18/2013 16:45	1	TAL NSH	MJH
A:8260B	490-39837-A-4		490-122748		11/18/2013 16:45	1	TAL NSH	MJH
P:5030B	490-39837-B-4		490-123017		11/19/2013 16:34	10	TAL NSH	MJH
A:8260B	490-39837-B-4		490-123017		11/19/2013 16:34	10	TAL NSH	MJH
P:3510C	490-39837-U-4-A		490-122300	490-121926	11/14/2013 11:54	1	TAL NSH	CLH
A:8270C	490-39837-U-4-A		490-122300	490-121926	11/15/2013 18:29	1	TAL NSH	KJP

Lab ID: 490-39837-6 **Client ID:** MW-05-GW-001

Sample Date/Time: 11/07/2013 16:17 Received Date/Time: 11/08/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39837-A-6		490-122748		11/18/2013 17:16	1	TAL NSH	MJH
A:8260B	490-39837-A-6		490-122748		11/18/2013 17:16	1	TAL NSH	MJH
P:3510C	490-39837-U-6-A		490-122300	490-121926	11/14/2013 11:54	1	TAL NSH	CLH
A:8270C	490-39837-U-6-A		490-122300	490-121926	11/15/2013 18:52	1	TAL NSH	KJP

Lab ID: 490-39837-7 **Client ID:** Field Blank

Sample Date/Time: 11/07/2013 09:56 Received Date/Time: 11/08/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39837-A-7		490-122748		11/18/2013 14:11	1	TAL NSH	MJH
A:8260B	490-39837-A-7		490-122748		11/18/2013 14:11	1	TAL NSH	MJH
P:3510C	490-39837-T-7-A		490-122300	490-121926	11/14/2013 11:54	1	TAL NSH	CLH
A:8270C	490-39837-T-7-A		490-122300	490-121926	11/15/2013 19:15	1	TAL NSH	KJP

Lab ID: 490-39837-9 **Client ID:** Equipment Blank

Sample Date/Time: 11/07/2013 10:38 Received Date/Time: 11/08/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39837-A-9		490-122748		11/18/2013 14:42	1	TAL NSH	MJH
A:8260B	490-39837-A-9		490-122748		11/18/2013 14:42	1	TAL NSH	MJH
P:3510C	490-39837-U-9-A		490-122300	490-121926	11/14/2013 11:54	1	TAL NSH	CLH
A:8270C	490-39837-U-9-A		490-122300	490-121926	11/15/2013 19:38	1	TAL NSH	KJP

Lab ID: 490-39837-11 **Client ID:** Trip Blank

Sample Date/Time: 11/07/2013 00:01 Received Date/Time: 11/08/2013 08:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39837-A-11		490-122748		11/18/2013 15:13	1	TAL NSH	MJH
A:8260B	490-39837-A-11		490-122748		11/18/2013 15:13	1	TAL NSH	MJH

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Laboratory Chronicle

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 490-122748/7		490-122748		11/18/2013 13:41	1	TAL NSH	MJH
A:8260B	MB 490-122748/7		490-122748		11/18/2013 13:41	1	TAL NSH	MJH
P:5030B	MB 490-123017/7		490-123017		11/19/2013 14:42	1	TAL NSH	MJH
A:8260B	MB 490-123017/7		490-123017		11/19/2013 14:42	1	TAL NSH	MJH
P:3510C	MB 490-121926/1-A		490-122300	490-121926	11/14/2013 11:54	1	TAL NSH	CLH
A:8270C	MB 490-121926/1-A		490-122300	490-121926	11/15/2013 15:24	1	TAL NSH	KJP

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 490-122748/3		490-122748		11/18/2013 11:38	1	TAL NSH	MJH
A:8260B	LCS 490-122748/3		490-122748		11/18/2013 11:38	1	TAL NSH	MJH
P:5030B	LCS 490-123017/3		490-123017		11/19/2013 12:17	1	TAL NSH	MJH
A:8260B	LCS 490-123017/3		490-123017		11/19/2013 12:17	1	TAL NSH	MJH
P:3510C	LCS 490-121926/2-A		490-122300	490-121926	11/14/2013 11:54	1	TAL NSH	CLH
A:8270C	LCS 490-121926/2-A		490-122300	490-121926	11/15/2013 15:47	1	TAL NSH	KJP

Lab ID: LCSD **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 490-122748/4		490-122748		11/18/2013 12:08	1	TAL NSH	MJH
A:8260B	LCSD 490-122748/4		490-122748		11/18/2013 12:08	1	TAL NSH	MJH
P:5030B	LCSD 490-123017/4		490-123017		11/19/2013 12:48	1	TAL NSH	MJH
A:8260B	LCSD 490-123017/4		490-123017		11/19/2013 12:48	1	TAL NSH	MJH

Lab ID: MS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-40571-A-1-A MS		490-123017		11/19/2013 23:00	10	TAL NSH	MJH
A:8260B	490-40571-A-1-A MS		490-123017		11/19/2013 23:00	10	TAL NSH	MJH

Client: Haley & Aldrich, Inc. Job Number: 490-39837-2

Laboratory Chronicle

Lab ID: **MSD** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-40571-A-1-A MSD		490-123017		11/19/2013 23:31	10	TAL NSH	MJH
A:8260B	490-40571-A-1-A MSD		490-123017		11/19/2013 23:31	10	TAL NSH	MJH

Lab References:
TAL NSH = TestAmerica Nashville

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
BNA ICV_MIX1_00008	03/13/14	09/26/13	Methanol, Lot ust methanol 11	100 mL	BNA_List1Std1_00011	5 mL	2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Anthracene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Biphenyl	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
					BNA_List1Std2_00012	5 mL	3,3'-Dichlorobenzidine	100 ug/mL
							Atrazine	100 ug/mL
							Caprolactam	100 ug/mL
					BNA_List1Std5_00009	5 mL	n-Nitrosodiphenylamine(as diphenylamine)	100 ug/mL
					BNA_List1Std6_00010	5 mL	Benzaldehyde	100 ug/mL
.BNA_List1Std1_00011	09/30/14		Restek, Lot A094002		(Purchased Reagent)		2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
.BNA_List1Std2_00012	08/31/14		Restek, Lot A093775		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Caprolactam	2000 ug/mL
.BNA_List1Std5_00009	02/28/15		Restek, Lot A093671		(Purchased Reagent)		n-Nitrosodiphenylamine(as diphenylamine)	2000 ug/mL
.BNA_List1Std6_00010	08/31/14		Restek, Lot A093656		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
BNA ICV_MIX1_00009	03/13/14	10/31/13	Methanol, Lot ust methanol 11	100 mL	BNA_List1Std1_00011	5 mL	1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Biphenyl	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Hexadecane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					BNA_List1Std2_00012	5 mL	3,3'-Dichlorobenzidine	100 ug/mL
							Atrazine	100 ug/mL
							Benzidine	100 ug/mL
							Caprolactam	100 ug/mL
					BNA_List1Std3_00003	5 mL	Benzoic acid	200 ug/mL
					BNA_List1Std3_00007	5 mL	Benzoic acid	200 ug/mL
					BNA_List1Std4_00007	5 mL	Indene	100 ug/mL
					BNA_List1Std5_00009	5 mL	n-Nitrosodiphenylamine(as diphenylamine)	100 ug/mL
					BNA_List1Std6_00010	5 mL	Benzaldehyde	100 ug/mL
.BNA_List1Std1_00011	09/30/14		Restek, Lot A094002		(Purchased Reagent)		1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
.BNA_List1Std2_00012	08/31/14		Restek, Lot A093775		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
.BNA_List1Std3_00003	02/28/16		Restek, Lot A093654		(Purchased Reagent)		Benzoic acid	2000 ug/mL
.BNA_List1Std3_00007	02/28/16		Restek, Lot A093654		(Purchased Reagent)		Benzoic acid	2000 ug/mL
.BNA_List1Std4_00007	08/31/14		Restek, Lot A093668		(Purchased Reagent)		Indene	2000 ug/mL
.BNA_List1Std5_00009	02/28/15		Restek, Lot A093671		(Purchased Reagent)		n-Nitrosodiphenylamine(as diphenylamine)	2000 ug/mL
.BNA_List1Std6_00010	08/31/14		Restek, Lot A093656		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
BNA List 1cal_00002	04/17/14	10/17/13	MeCl2, Lot OP_MECL2_011	50 mL	BNA_List1Std1_00007	5 mL	1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	200 ug/mL
							Anthracene	200 ug/mL
							Azobenzene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Benzyl alcohol	200 ug/mL
							Biphenyl	200 ug/mL
							bis (2-chloroisopropyl) ether	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyridine	200 ug/mL
					BNA_List1Std2_00011	5 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Atrazine	200 ug/mL
							Benzidine	200 ug/mL
							Caprolactam	200 ug/mL
					BNA_List1Std3_00004	5 mL	Benzoic acid	200 ug/mL
					BNA_List1Std4_00006	5 mL	Indene	200 ug/mL
					BNA_List1Std5_00008	5 mL	n-Nitrosodiphenylamine(as diphenylamine)	200 ug/mL
					BNA_List1Std6_00009	5 mL	Benzaldehyde	200 ug/mL
					BNA_Surrogate_00002	2 mL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
.BNA_List1Std1_00007	08/31/14		Restek, Lot A093709		(Purchased Reagent)		1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
.BNA_List1Std2_00011	01/31/15		Restek, Lot A097020		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Caprolactam	2000 ug/mL
.BNA_List1Std3_00004	02/28/16		Restek, Lot A093441		(Purchased Reagent)		Benzoic acid	2000 ug/mL
.BNA_List1Std4_00006	08/31/14		Restek, Lot A093730		(Purchased Reagent)		Indene	2000 ug/mL
.BNA_List1Std5_00008	02/28/15		Restek, Lot A093442		(Purchased Reagent)		n-Nitrosodiphenylamine(as diphenylamine)	2000 ug/mL
.BNA_List1Std6_00009	08/31/14		Restek, Lot A093445		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
.BNA_Surrogate_00002	02/28/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
BNA_W_IS_2000_00002	12/15/13	06/15/13	n/a, Lot n/a	5 mL	BNA_S_IS_2000_00003	5 mL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.BNA_S_IS_2000_00003	02/28/18		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
OP_1:1 Sulfur_00003	04/07/14		Macron, Lot 0000053267		(Purchased Reagent)		Stock Chemical	50 %
OP_BNA_Surr_00011	09/30/15		Ultra, Lot CK-2907		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	50 ug/mL
							2-Fluorobiphenyl (Surr)	50 ug/mL
							2-Fluorophenol (Surr)	50 ug/mL
							Nitrobenzene-d5 (Surr)	50 ug/mL
							Phenol-d5 (Surr)	50 ug/mL
							Terphenyl-d14 (Surr)	50 ug/mL
OP_MeCl2_00019	12/04/14		J.T. Baker, Lot 0000058238		(Purchased Reagent)		Methylene Chloride	0 %
OP_NaOH_00006	08/03/15		VWR, Lot 310803		(Purchased Reagent)		Sodium Hydroxide	0 mL/L
OP_NaSO4_00016	04/15/18		J.T. Baker, Lot 0000049016		(Purchased Reagent)		Stock Chemical	0 %
V1_gases_I_00023	10/08/13	10/01/13	Methanol, Lot 125253	25 mL	V1_Gases_00002	1.25 mL	Bromomethane	100 ug/mL
							Butadiene	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Dichlorofluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.V1_Gases_00002	02/28/15		Restek, Lot A093341		(Purchased Reagent)		Bromomethane	2000000 ug/L
							Butadiene	2000000 ug/L
							Chloroethane	2000000 ug/L
							Chloromethane	2000000 ug/L

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorodifluoromethane	2000000 ug/L
							Dichlorofluoromethane	2000000 ug/L
							Trichlorofluoromethane	2000000 ug/L
							Vinyl chloride	2000000 ug/L
V1_gases_I_00029	11/24/13	11/17/13	Methanol, Lot 0000038701	25 mL	V1_Gases_00003	1.25 mL	Bromomethane	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.V1_Gases_00003	02/28/15		Restek, Lot A093341		(Purchased Reagent)		Bromomethane	2000000 ug/L
							Chloroethane	2000000 ug/L
							Chloromethane	2000000 ug/L
							Dichlorodifluoromethane	2000000 ug/L
							Trichlorofluoromethane	2000000 ug/L
							Vinyl chloride	2000000 ug/L
V1_Mega_I_00009	10/30/13	09/30/13	Methanol, Lot 123279	50 mL	V1_2-CEVE_00002	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					V1_Acrolein_00007	2.5 mL	Acrolein	250 ug/mL
					V1_Additions_00003	2.5 mL	1,2,3-Trimethylbenzene	100 ug/mL
							1,3,5-Trichlorobenzene	100 ug/mL
							2-Chloro-1,3-butadiene	100 ug/mL
							2-Nitropropane	200 ug/mL
							Acetonitrile	1000 ug/mL
							Benzyl chloride	100 ug/mL
							Ethanol	5000 ug/mL
							Ethyl acetate	200 ug/mL
							Ethyl acrylate	100 ug/mL
							Isopropyl alcohol	1000 ug/mL
							Isopropyl ether	100 ug/mL
							Methacrylonitrile	1000 ug/mL
							Methyl methacrylate	200 ug/mL
							n-Butanol	2500 ug/mL
							n-Butyl acetate	100 ug/mL
							Propionitrile	1000 ug/mL
							Tert-amyl methyl ether	100 ug/mL
							Tert-butyl ethyl ether	100 ug/mL
					V1_cyclohxnon_00002	2.5 mL	Cyclohexanone	1000 ug/mL
					V1_Keytones_00002	2.5 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					V1_Megamix_00005	2.5 mL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	100 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane (EDB)	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromochloromethane	100 ug/mL
							Bromodichloromethane	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	1000 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
					V1_vnl acetat_00003	2.5 mL	Vinyl acetate	200 ug/mL
.V1_2-CEVE_00002	02/28/16		Restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000000 ug/L
.V1_Acrolein_00007	12/31/13		Restek, Lot A097557		(Purchased Reagent)		Acrolein	5000000 ug/L
.V1_Additions_00003	08/30/14		Restek, Lot A093634		(Purchased Reagent)		1,2,3-Trimethylbenzene	2000000 ug/L
							1,3,5-Trichlorobenzene	2000000 ug/L
							2-Chloro-1,3-butadiene	2000000 ug/L
							2-Nitropropane	4000000 ug/L
							Acetonitrile	20000000 ug/L
							Benzyl chloride	2000000 ug/L
							Ethanol	100000000 ug/L
							Ethyl acetate	4000000 ug/L
							Ethyl acrylate	2000000 ug/L
							Isopropyl alcohol	20000000 ug/L
							Isopropyl ether	2000000 ug/L
							Methacrylonitrile	20000000 ug/L
							Methyl methacrylate	4000000 ug/L
							n-Butanol	50000000 ug/L
							n-Butyl acetate	2000000 ug/L
							Propionitrile	20000000 ug/L
							Tert-amyl methyl ether	2000000 ug/L
							Tert-butyl ethyl ether	2000000 ug/L
.V1_cyclohxnon_00002	02/28/16		Restek, Lot A093361		(Purchased Reagent)		Cyclohexanone	20000000 ug/L
.V1_Keytones_00002	02/28/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000000 ug/L
							2-Hexanone	10000000 ug/L
							4-Methyl-2-pentanone (MIBK)	10000000 ug/L
							Acetone	10000000 ug/L
.V1_Megamix_00005	02/28/16		Restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000000 ug/L
							1,1,1-Trichloroethane	2000000 ug/L

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2,2-Tetrachloroethane	2000000 ug/L
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2000000 ug/L
							1,1,2-Trichloroethane	2000000 ug/L
							1,1-Dichloroethane	2000000 ug/L
							1,1-Dichloroethene	2000000 ug/L
							1,1-Dichloropropene	2000000 ug/L
							1,2,3-Trichlorobenzene	2000000 ug/L
							1,2,3-Trichloropropane	2000000 ug/L
							1,2,4-Trichlorobenzene	2000000 ug/L
							1,2,4-Trimethylbenzene	2000000 ug/L
							1,2-Dibromo-3-Chloropropane	2000000 ug/L
							1,2-Dibromoethane (EDB)	2000000 ug/L
							1,2-Dichlorobenzene	2000000 ug/L
							1,2-Dichloroethane	2000000 ug/L
							1,2-Dichloropropane	2000000 ug/L
							1,3,5-Trimethylbenzene	2000000 ug/L
							1,3-Dichlorobenzene	2000000 ug/L
							1,3-Dichloropropane	2000000 ug/L
							1,4-Dichlorobenzene	2000000 ug/L
							1,4-Dioxane	40000000 ug/L
							2,2-Dichloropropane	2000000 ug/L
							2-Chlorotoluene	2000000 ug/L
							2-Methyl-2-propanol	20000000 ug/L
							3-Chloro-1-propene	2000000 ug/L
							4-Chlorotoluene	2000000 ug/L
							4-Isopropyltoluene	2000000 ug/L
							Acrylonitrile	20000000 ug/L
							Benzene	2000000 ug/L
							Bromobenzene	2000000 ug/L
							Bromochloromethane	2000000 ug/L
							Bromodichloromethane	2000000 ug/L
							Bromoform	2000000 ug/L
							Carbon disulfide	2000000 ug/L
							Carbon tetrachloride	2000000 ug/L
							Chlorobenzene	2000000 ug/L
							Chlorodibromomethane	2000000 ug/L
							Chloroform	2000000 ug/L
							cis-1,2-Dichloroethene	2000000 ug/L
							cis-1,3-Dichloropropene	2000000 ug/L
							Cyclohexane	2000000 ug/L
							Dibromomethane	2000000 ug/L
							Ethyl ether	2000000 ug/L
							Ethyl methacrylate	2000000 ug/L
							Ethylbenzene	2000000 ug/L
							Hexachlorobutadiene	2000000 ug/L
							Hexane	2000000 ug/L
							Iodomethane	2000000 ug/L

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isobutyl alcohol	20000000 ug/L
							Isopropylbenzene	2000000 ug/L
							m-Xylene & p-Xylene	2000000 ug/L
							Methyl acetate	10000000 ug/L
							Methyl tert-butyl ether	2000000 ug/L
							Methylcyclohexane	2000000 ug/L
							Methylene Chloride	2000000 ug/L
							n-Butylbenzene	2000000 ug/L
							n-Heptane	2000000 ug/L
							N-Propylbenzene	2000000 ug/L
							Naphthalene	2000000 ug/L
							o-Xylene	2000000 ug/L
							sec-Butylbenzene	2000000 ug/L
							Styrene	2000000 ug/L
							tert-Butylbenzene	2000000 ug/L
							Tetrachloroethene	2000000 ug/L
							Tetrahydrofuran	4000000 ug/L
							Toluene	2000000 ug/L
							trans-1,2-Dichloroethene	2000000 ug/L
							trans-1,3-Dichloropropene	2000000 ug/L
							trans-1,4-Dichloro-2-butene	2000000 ug/L
							Trichloroethene	2000000 ug/L
.V1_vnl acetat_00003	12/31/13		Restek, Lot A096198		(Purchased Reagent)		Vinyl acetate	4000000 ug/L
V1_Mega_I_00010	11/26/13	10/26/13	Methanol, Lot 0000049909	50 mL	V1_Keytones_00003	2.5 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					V1_Megamix_00005	2.5 mL	1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane (EDB)	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							Benzene	100 ug/mL
							Bromochloromethane	100 ug/mL
							Bromodichloromethane	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Ethylbenzene	100 ug/mL
							Isopropylbenzene	100 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Styrene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							Trichloroethene	100 ug/mL
							Xylenes, Total	200 ug/mL
.V1_Keytones_00003	02/28/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000000 ug/L
							2-Hexanone	10000000 ug/L
							4-Methyl-2-pentanone (MIBK)	10000000 ug/L
							Acetone	10000000 ug/L
.V1_Megamix_00005	02/28/16		Restek, Lot A093581		(Purchased Reagent)		1,1,1-Trichloroethane	2000000 ug/L
							1,1,2,2-Tetrachloroethane	2000000 ug/L
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2000000 ug/L
							1,1,2-Trichloroethane	2000000 ug/L
							1,1-Dichloroethane	2000000 ug/L
							1,1-Dichloroethene	2000000 ug/L
							1,2,4-Trichlorobenzene	2000000 ug/L
							1,2-Dibromo-3-Chloropropane	2000000 ug/L
							1,2-Dibromoethane (EDB)	2000000 ug/L
							1,2-Dichlorobenzene	2000000 ug/L
							1,2-Dichloroethane	2000000 ug/L
							1,2-Dichloropropane	2000000 ug/L
							1,3-Dichlorobenzene	2000000 ug/L
							1,4-Dichlorobenzene	2000000 ug/L
							Benzene	2000000 ug/L
							Bromochloromethane	2000000 ug/L
							Bromodichloromethane	2000000 ug/L
							Bromoform	2000000 ug/L
							Carbon disulfide	2000000 ug/L
							Carbon tetrachloride	2000000 ug/L
							Chlorobenzene	2000000 ug/L

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorodibromomethane	2000000 ug/L
							Chloroform	2000000 ug/L
							cis-1,2-Dichloroethene	2000000 ug/L
							cis-1,3-Dichloropropene	2000000 ug/L
							Cyclohexane	2000000 ug/L
							Ethylbenzene	2000000 ug/L
							Isopropylbenzene	2000000 ug/L
							Methyl acetate	10000000 ug/L
							Methyl tert-butyl ether	2000000 ug/L
							Methylcyclohexane	2000000 ug/L
							Methylene Chloride	2000000 ug/L
							N-Propylbenzene	2000000 ug/L
							Styrene	2000000 ug/L
							Tetrachloroethene	2000000 ug/L
							Tetrahydrofuran	4000000 ug/L
							Toluene	2000000 ug/L
							trans-1,2-Dichloroethene	2000000 ug/L
							trans-1,3-Dichloropropene	2000000 ug/L
							Trichloroethene	2000000 ug/L
							Xylenes, Total	4000000 ug/L
V2_gases_I_00010	10/08/13	09/18/13	Methanol, Lot 124454	25 mL	V2_Gases_00003	1.25 mL	Bromomethane	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.V2_Gases_00003	02/28/15		Restek, Lot A093618		(Purchased Reagent)		Bromomethane	2000000 ug/L
							Chloroethane	2000000 ug/L
							Chloromethane	2000000 ug/L
							Dichlorodifluoromethane	2000000 ug/L
							Trichlorofluoromethane	2000000 ug/L
							Vinyl chloride	2000000 ug/L
V2_Mega_I_00005	10/20/13	09/20/13	Methanol, Lot 124454	10 mL	V2_Keytones_00001	0.5 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					V2_Megamix_00002	0.5 mL	1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane (EDB)	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							Benzene	100 ug/mL
							Bromochloromethane	100 ug/mL
							Bromodichloromethane	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Ethylbenzene	100 ug/mL
							Isopropylbenzene	100 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Styrene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							Trichloroethene	100 ug/mL
							Xylenes, Total	200 ug/mL
.V2_Keytones_00001	02/28/16		Restek, Lot A093472		(Purchased Reagent)		2-Butanone (MEK)	10000000 ug/L
							2-Hexanone	10000000 ug/L
							4-Methyl-2-pentanone (MIBK)	10000000 ug/L
							Acetone	10000000 ug/L
.V2_Megamix_00002	02/28/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1-Trichloroethane	2000000 ug/L
							1,1,2,2-Tetrachloroethane	2000000 ug/L
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2000000 ug/L
							1,1,2-Trichloroethane	2000000 ug/L
							1,1-Dichloroethane	2000000 ug/L
							1,1-Dichloroethene	2000000 ug/L
							1,2,4-Trichlorobenzene	2000000 ug/L
							1,2-Dibromo-3-Chloropropane	2000000 ug/L
							1,2-Dibromoethane (EDB)	2000000 ug/L
							1,2-Dichlorobenzene	2000000 ug/L
							1,2-Dichloroethane	2000000 ug/L
							1,2-Dichloropropane	2000000 ug/L

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	2000000 ug/L
							1,4-Dichlorobenzene	2000000 ug/L
							Benzene	2000000 ug/L
							Bromochloromethane	2000000 ug/L
							Bromodichloromethane	2000000 ug/L
							Bromoform	2000000 ug/L
							Carbon disulfide	2000000 ug/L
							Carbon tetrachloride	2000000 ug/L
							Chlorobenzene	2000000 ug/L
							Chlorodibromomethane	2000000 ug/L
							Chloroform	2000000 ug/L
							cis-1,2-Dichloroethene	2000000 ug/L
							cis-1,3-Dichloropropene	2000000 ug/L
							Cyclohexane	2000000 ug/L
							Ethylbenzene	2000000 ug/L
							Isopropylbenzene	2000000 ug/L
							Methyl acetate	10000000 ug/L
							Methyl tert-butyl ether	2000000 ug/L
							Methylcyclohexane	2000000 ug/L
							Methylene Chloride	2000000 ug/L
							N-Propylbenzene	2000000 ug/L
							Styrene	2000000 ug/L
							Tetrachloroethene	2000000 ug/L
							Tetrahydrofuran	4000000 ug/L
							Toluene	2000000 ug/L
							trans-1,2-Dichloroethene	2000000 ug/L
							trans-1,3-Dichloropropene	2000000 ug/L
							Trichloroethene	2000000 ug/L
							Xylenes, Total	4000000 ug/L
VO1_ShrtLst_I_00026	11/21/13	10/20/13	Methanol, Lot 958381	10 mL	VO1_33dim1b_S_00002	0.25 mL	3,3-Dimethyl-1-butanol	500 ug/mL
					VO1_ShrtLst_S_00004	5 mL	1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromoethane (EDB)	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							2-Methylnaphthalene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Ethanol	5000 ug/mL
							Ethylbenzene	50 ug/mL
							Isopropyl ether	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							t-Amyl alcohol	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
							tert-Butyl Formate	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Toluene	50 ug/mL
.VO1_33dim1b_S_00002	11/30/16		Restek, Lot A088300		(Purchased Reagent)		3,3-Dimethyl-1-butanol	20000000 ug/L
.VO1_ShrtLst_S_00004	08/31/15		Ultra Scientific, Lot CK-2387		(Purchased Reagent)		1,2,4-Trimethylbenzene	100000 ug/L
							1,2-Dibromoethane (EDB)	100000 ug/L
							1,2-Dichloroethane	100000 ug/L
							1,3,5-Trimethylbenzene	100000 ug/L
							2-Methyl-2-propanol	1000000 ug/L
							2-Methylnaphthalene	100000 ug/L
							4-Isopropyltoluene	100000 ug/L
							Benzene	100000 ug/L
							Ethanol	10000000 ug/L
							Ethylbenzene	100000 ug/L
							Isopropyl ether	100000 ug/L
							Isopropylbenzene	100000 ug/L
							m-Xylene & p-Xylene	200000 ug/L
							Methyl tert-butyl ether	100000 ug/L
							n-Butylbenzene	100000 ug/L
							N-Propylbenzene	100000 ug/L
							Naphthalene	100000 ug/L
							o-Xylene	100000 ug/L
							sec-Butylbenzene	100000 ug/L
							t-Amyl alcohol	1000000 ug/L
							Tert-amyl methyl ether	100000 ug/L
							Tert-butyl ethyl ether	100000 ug/L
							tert-Butyl Formate	1000000 ug/L
							tert-Butylbenzene	100000 ug/L
							Toluene	100000 ug/L
VO2_ShrtLst_I_00028	11/21/13	10/20/13	Methanol, Lot 958381	10 mL	VO2_ShrtLst_S_00003	5 mL	1,2-Dibromoethane (EDB)	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							Benzene	50 ug/mL
							Ethylbenzene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Toluene	50 ug/mL
							Xylenes, Total	150 ug/mL
.VO2_ShrtLst_S_00003	04/30/15		Restek, Lot A094861		(Purchased Reagent)		1,2-Dibromoethane (EDB)	100000 ug/L
							1,2-Dichloroethane	100000 ug/L
							Benzene	100000 ug/L
							Ethylbenzene	100000 ug/L

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropylbenzene	100000 ug/L
							Methyl tert-butyl ether	100000 ug/L
							N-Propylbenzene	100000 ug/L
							Toluene	100000 ug/L
							Xylenes, Total	300000 ug/L
VOA_ISSS250_W_00009	11/24/13	05/24/13	Methanol, Lot K14E06	50 mL	VOA_IS Mix_S_00004	5 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
					VOA_SS Mix_S_00003	5 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
.VOA_IS Mix_S_00004	03/31/14	Ultra Scientific, Lot CJ-0470			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500000 ug/L
							Chlorobenzene-d5	2500000 ug/L
							Fluorobenzene (IS)	2500000 ug/L
.VOA_SS Mix_S_00003	09/30/14	Ultra Scientific, Lot CJ-3029			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500000 ug/L
							4-Bromofluorobenzene (Surr)	2500000 ug/L
							Dibromofluoromethane (Surr)	2500000 ug/L
							Toluene-d8 (Surr)	2500000 ug/L
VOA_ISSS250_W_00010	01/31/14	08/03/13	Methanol, Lot ust_Methanol_00010	50 mL	VOA_IS Mix_S_00004	5 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
					VOA_SS Mix_S_00003	5 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
.VOA_IS Mix_S_00004	03/31/14	Ultra Scientific, Lot CJ-0470			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500000 ug/L
							Chlorobenzene-d5	2500000 ug/L
							Fluorobenzene (IS)	2500000 ug/L
.VOA_SS Mix_S_00003	09/30/14	Ultra Scientific, Lot CJ-3029			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500000 ug/L
							4-Bromofluorobenzene (Surr)	2500000 ug/L
							Dibromofluoromethane (Surr)	2500000 ug/L
							Toluene-d8 (Surr)	2500000 ug/L

10	1,2-Dichlorobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 95-50-1.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
11	Benzyl alcohol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 100-51-6.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
12	Bis(2-chloroisopropyl)ether	720.0	µg/mL	+/-	4.1861	µg/mL	Gravimetric
	CAS # 108-60-1.SEC			+/-	6.3329	µg/mL	Unstressed
	Purity 72%			+/-	12.5198	µg/mL	Stressed
13	2-Methylphenol (o-cresol)	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 95-48-7.SEC			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
14	Acetophenone	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 98-86-2.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
15	Hexachloroethane	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 67-72-1.SEC			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
16	N-Nitroso-di-n-propylamine	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 621-64-7.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
17	4-Methylphenol (p-cresol)	500.0	µg/mL	+/-	2.9138	µg/mL	Gravimetric
	CAS # 106-44-5.SEC			+/-	4.4023	µg/mL	Unstressed
	Purity 99%			+/-	8.6966	µg/mL	Stressed
18	3-Methylphenol (m-cresol)	500.0	µg/mL	+/-	2.9138	µg/mL	Gravimetric
	CAS # 108-39-4.SEC			+/-	4.4023	µg/mL	Unstressed
	Purity 99%			+/-	8.6966	µg/mL	Stressed
19	n-Decane (C10)	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 124-18-5.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
20	n-Octadecane (C18)	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 593-45-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
21	Nitrobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 98-95-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
22	Isophorone	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 78-59-1.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
23	2-Nitrophenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 88-75-5.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
24	2,4-Dimethylphenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 105-67-9.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
25	Bis(2-chloroethoxy)methane	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 111-91-1			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
26	2,4-Dichlorophenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 120-83-2.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
27	1,2,4-Trichlorobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 120-82-1.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
28	Naphthalene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 91-20-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed

29	4-Chloroaniline	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 106-47-8.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
30	Hexachlorobutadiene	1,000.0	µg/mL	+/-	5.8139	µg/mL	Gravimetric
	CAS # 87-68-3.SEC			+/-	8.7954	µg/mL	Unstressed
	Purity 97%			+/-	17.3881	µg/mL	Stressed
31	2-Methylnaphthalene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 91-57-6.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
32	4-Chloro-3-methylphenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 59-50-7.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
33	1-Methylnaphthalene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 90-12-0.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
34	1,2,4,5-Tetrachlorobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 95-94-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
35	Hexachlorocyclopentadiene	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 77-47-4.SEC			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
36	2,4,6-Trichlorophenol	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 88-06-2.SEC			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
37	2,4,5-Trichlorophenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 95-95-4.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
38	2-Chloronaphthalene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 91-58-7.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
39	Biphenyl	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 92-52-4.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
40	2-Nitroaniline	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 88-74-4.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
41	Acenaphthylene	1,000.0	µg/mL	+/-	5.8139	µg/mL	Gravimetric
	CAS # 208-96-8.SEC			+/-	8.7954	µg/mL	Unstressed
	Purity 97%			+/-	17.3881	µg/mL	Stressed
42	1,3-Dinitrobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 99-65-0.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
43	Dimethylphthalate	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 131-11-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
44	2,6-Dinitrotoluene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 606-20-2.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
45	Acenaphthene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 83-32-9.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
46	3-Nitroaniline	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 99-09-2.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
47	2,4-Dinitrophenol	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 51-28-5.SEC			+/-	17.5913	µg/mL	Unstressed
	Purity 99%			+/-	34.7772	µg/mL	Stressed

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567673 **Lot No.:** A097020

Description : 8270 List 1 / Std #2 Amines

8270 List 1 / Std #2 Amines 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : January 31, 2015 **Storage:** 10°C or colder

Handling: Contains carcinogen

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)	
1	epsilon-Caprolactam	2,001.2 µg/mL	+/- 11.6351 µg/mL	Gravimetric
	CAS # 105-60-2 (Lot 10000218)		+/- 13.3830 µg/mL	Unstressed
	Purity 99%		+/- 32.8662 µg/mL	Stressed
2	Atrazine	2,003.0 µg/mL	+/- 11.6457 µg/mL	Gravimetric
	CAS # 1912-24-9 (Lot TZ8ED)		+/- 13.3952 µg/mL	Unstressed
	Purity 98%		+/- 32.8961 µg/mL	Stressed
3	Benzidine	2,005.0 µg/mL	+/- 11.6572 µg/mL	Gravimetric
	CAS # 92-87-5 (Lot 130627JLM)		+/- 13.4085 µg/mL	Unstressed
	Purity 99%		+/- 32.9286 µg/mL	Stressed
4	3,3'-Dichlorobenzidine	2,012.0 µg/mL	+/- 11.6979 µg/mL	Gravimetric
	CAS # 91-94-1 (Lot 130701JLM)		+/- 13.4553 µg/mL	Unstressed
	Purity 99%		+/- 33.0436 µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

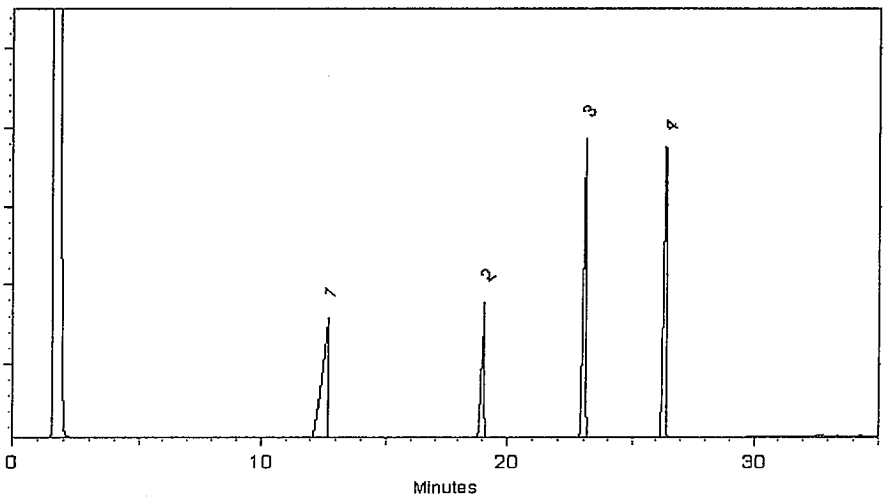
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Kendra Swope - Mix Technician

Date Mixed: 30-Jul-2013 **Balance:** 1128360905

Jodi E. Breon - QA Analyst

Date Passed: 12-Aug-2013

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567673.sec **Lot No.:** A093775

Description : 8270 List 1 / Std #2 Amines

8270 List 1 / Std #2 Amines 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : August 2014 **Storage:** 10°C or colder

Handling: Contains carcinogen

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	epsilon-Caprolactam	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 105-60-2.SEC		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed
2	Atrazine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 1912-24-9.SEC		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed
3	Benzidine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 92-87-5.SEC		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed
4	3,3'-Dichlorobenzidine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 91-94-1.SEC		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

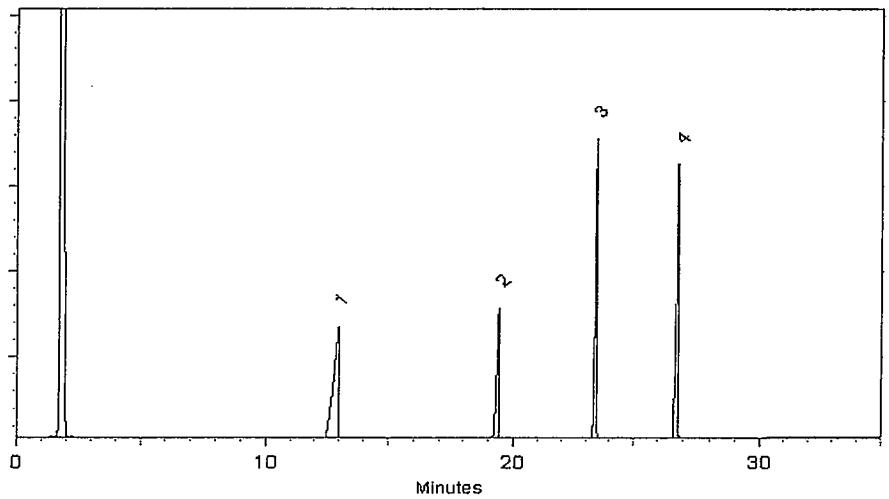
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 11-Mar-2013 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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ID: BNA_List1Std3_00003
Exp:02/28/16 Prpd:JLS Opn:07/13/13
S_2000PPM_2ndSource_Benzo

JLS Rec 7/13/13

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567674.sec **Lot No.:** A093654

Description : 8270 List 1 / Std #3 Benzoic Acid

8270 List 1 / Std #3 Benzoic Acid 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : February 2016 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Benzoic acid	2,000.0	µg/mL	+/- 11.6284	µg/mL	Gravimetric
	CAS # 65-85-0.SEC			+/- 96.5270	µg/mL	Unstressed
	Purity 97%			+/- 96.6098	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

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Certificate of Analysis

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

Catalog No. : 567674.sec **Lot No.:** A093654

Description : 8270 List 1 / Std #3 Benzoic Acid

8270 List 1 / Std #3 Benzoic Acid 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : February 2016 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)		
1	Benzoic acid	2,000.0 µg/mL	+/- 11.6284	µg/mL	Gravimetric
	CAS # 65-85-0.SEC		+/- 96.5270	µg/mL	Unstressed
	Purity 97%		+/- 96.6098	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

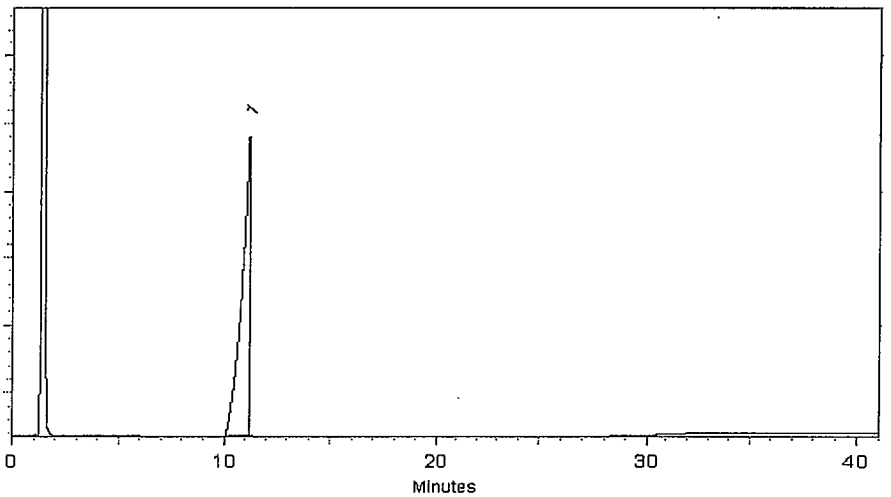
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 22-Feb-2013 Balance: 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567675 **Lot No.:** A093730

Description : 8270 List 1 / Std #4 Indene

8270 List 1 / Std #4 Indene 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : August 2014 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Indene	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 95-13-6		+/- 24.1076	µg/mL	Unstressed
	Purity 99%		+/- 27.2017	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

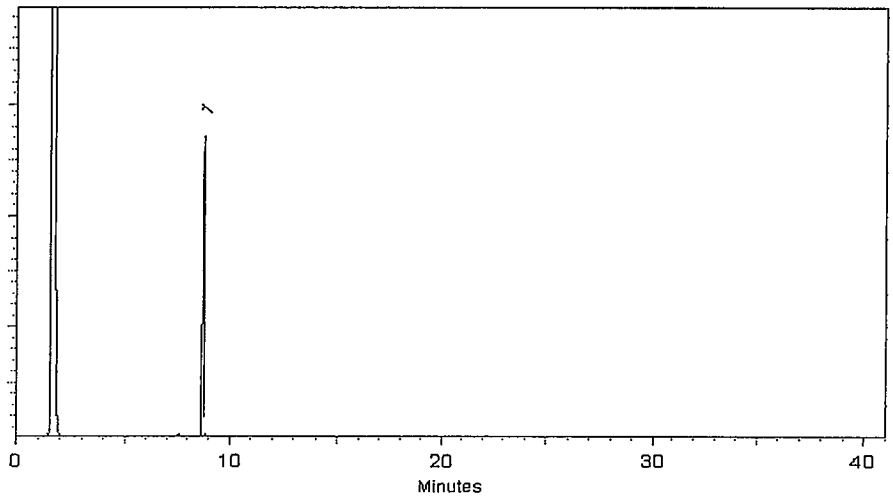
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 27-Feb-2013 Balance: 1128342313

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567675.sec **Lot No.:** A093668

Description : 8270 List 1 / Std #4 Indene

8270 List 1 / Std #4 Indene 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : August 2014 **Storage:** 10°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Indene	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 95-13-6.SEC		+/- 24.1076	µg/mL	Unstressed
	Purity 99%		+/- 27.2017	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

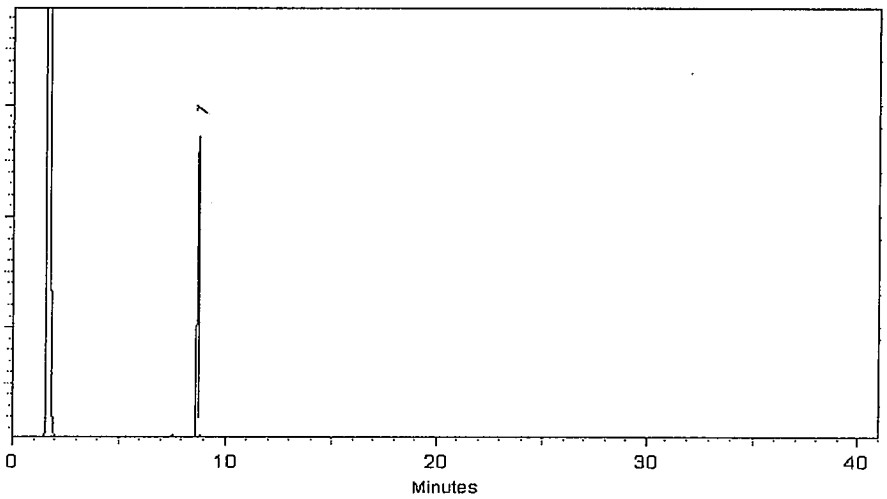
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 27-Feb-2013 Balance: 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

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

Catalog No. : 567676 **Lot No.:** A093442

Description : 8270 List 1 / Std #5 N-Nitrosodiphenylamine

8270 List 1 / Std #5 N-Nitrosodiphenylamine 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : February 2015 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)	
1	N-Nitrosodiphenylamine	2,000.0 µg/mL	+/- 11.6282 µg/mL	Gravimetric
	CAS # 86-30-6		+/- 17.5914 µg/mL	Unstressed
	Purity 97%		+/- 34.7774 µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

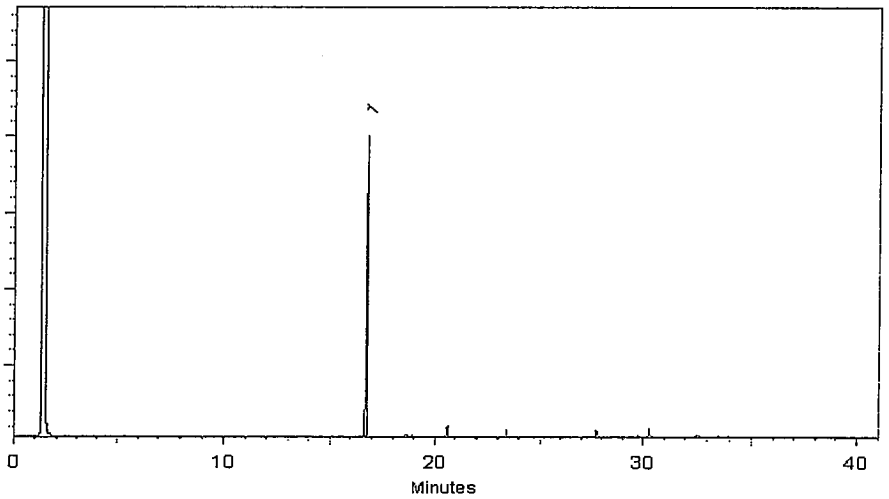
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 25-Feb-2013 Balance: 1128342313

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567676.sec **Lot No.:** A093671

Description : 8270 List 1 / Std #5 N-Nitrosodiphenylamine

8270 List 1 / Std #5 N-Nitrosodiphenylamine 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : February 2015 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	N-Nitrosodiphenylamine	1,999.9 µg/mL	+/- 11.6278	µg/mL	Gravimetric
	CAS # 86-30-6.SEC		+/- 17.5908	µg/mL	Unstressed
	Purity 95%		+/- 34.7762	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

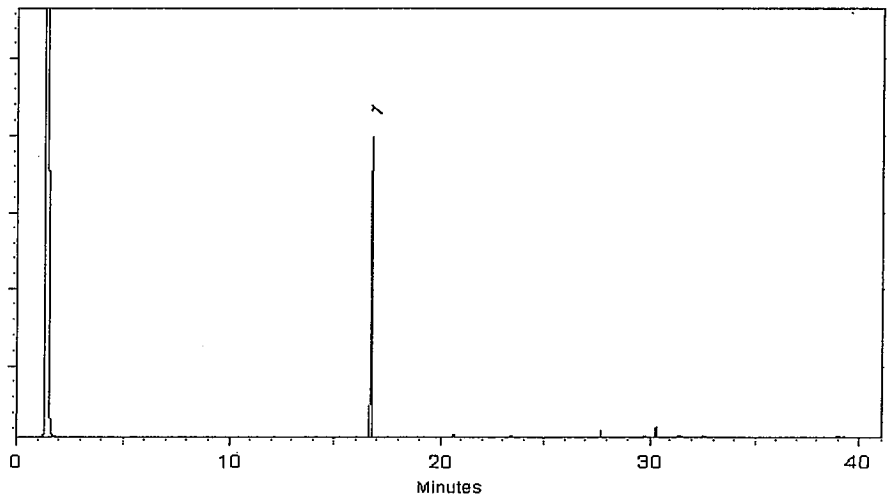
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 25-Feb-2013 Balance: 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

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

Catalog No. : 567677 **Lot No.:** A093445

Description : 8270 List 1 / Std #6 Benzaldehyde

8270 List 1 / Std #6 Benzaldehyde 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : August 2014 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Benzaldehyde	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 100-52-7		+/- 53.7239	µg/mL	Unstressed
	Purity 99%		+/- 66.9795	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

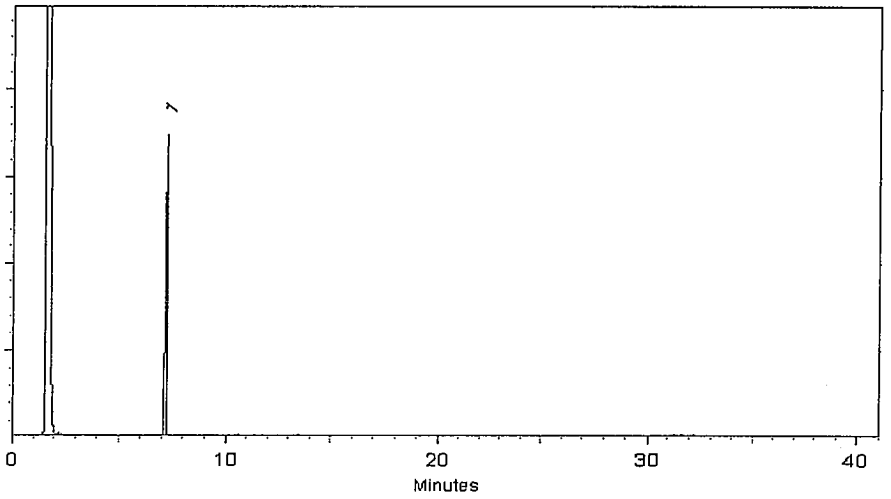
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 25-Feb-2013 Balance: 1128342313

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

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Catalog No. : 567677.sec **Lot No.:** A093656

Description : 8270 List 1 / Std #6 Benzaldehyde

8270 List 1 / Std #6 Benzaldehyde 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : August 2014 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)	
1	Benzaldehyde	2,000.0 µg/mL	+/- 11.6282 µg/mL	Gravimetric
	CAS # 100-52-7.SEC		+/- 53.7239 µg/mL	Unstressed
	Purity 99%		+/- 66.9795 µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

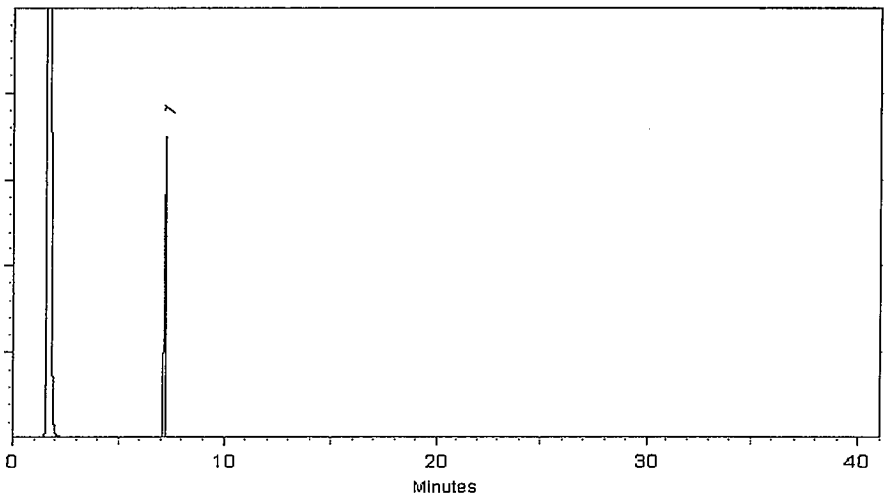
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 25-Feb-2013 Balance: 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\,stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\,stability} + U^2_{shipping\,stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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854605
ID: BNA_Surrogate_00002
Exp:02/28/18 Prpd:JLS Opn:07/13/13
S5000PPM BNA Surrogate ST

Rec 7/13/13
JLS

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Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567685 **Lot No.:** A093638

Description : 8270 Surrogate Standard

8270 Surrogate Standard 5,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : February 2018 **Storage:** 10°C or colder

Handling: Sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Fluorophenol	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 367-12-4		+/- 132.9492	µg/mL	Unstressed
	Purity 99%		+/- 163.4029	µg/mL	Stressed
2	Phenol-d5	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 4165-62-2		+/- 132.9492	µg/mL	Unstressed
	Purity 99%		+/- 163.4029	µg/mL	Stressed
3	Nitrobenzene-d5	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 4165-60-0		+/- 132.9492	µg/mL	Unstressed
	Purity 99%		+/- 163.4029	µg/mL	Stressed
4	2-Fluorobiphenyl	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 321-60-8		+/- 132.9492	µg/mL	Unstressed
	Purity 99%		+/- 163.4029	µg/mL	Stressed
5	2,4,6-Tribromophenol	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 118-79-6		+/- 132.9492	µg/mL	Unstressed
	Purity 99%		+/- 163.4029	µg/mL	Stressed
6	p-Terphenyl-d14	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 1718-51-0		+/- 132.9492	µg/mL	Unstressed
	Purity 99%		+/- 163.4029	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

Custom Standard

Product Number: TAM-201 **Page:** 1 of 1

Lot Number: CK-2907 **Lot Issue Date:** 29-Aug-2013 **Expiration Date:** 30-Sep-2015

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
2-fluorobiphenyl	000321-60-8	RM06546	50.2 ± 0.3 µg/mL
nitrobenzene-d5	004165-60-0	RM01699	50.2 ± 0.3 µg/mL
p-terphenyl-d14	001718-51-0	RM06589	50.1 ± 0.3 µg/mL
2,4,6-tribromophenol	000118-79-6	RM01307	50.2 ± 0.3 µg/mL
2-fluorophenol	000367-12-4	RM03347	50.2 ± 0.3 µg/mL
phenol-d5	004165-62-2	RM06760	50.1 ± 0.3 µg/mL

Matrix: methanol/pH indicator (red-yellow 3.2-4.4)

Storage: Store at Room Temperature (15-30°C)

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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ISO 17025 Accredited A2LA Cert. No. 0851-01

ISO 9001 Registered TUV USA, Inc. Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 401-295-2330
www.ultrasci.com

William J Leahy
Quality Assurance Manager

RESTEK

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Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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639985
ID: V1_2-CEVE_00002
Exp: 02/28/16 Prpd: JH
Primary 2-chloroethylviny

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ISO Guide 34 Accredited
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Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567643 **Lot No.:** A093368

Description : 8260 List 1 / Std #4 2-Chloroethylvinyl Ether

8260 List 1 / Std #4 2-Chloroethylvinyl Ether 2,000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Chloroethyl vinyl ether	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 110-75-8		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed

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

Tech Tips:

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

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

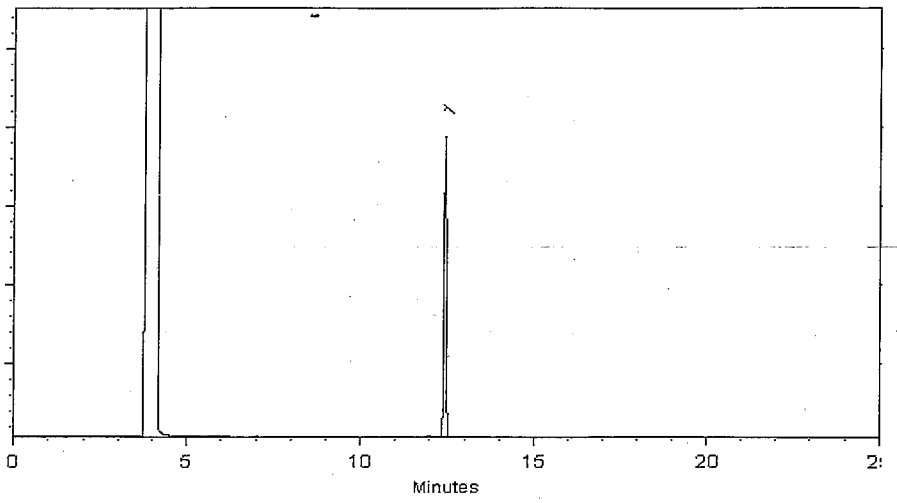
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 15-Feb-2013 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK CERTIFIED REFERENCE MATERIAL

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Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567644 **Lot No.:** A097557

Description : 8260 List 1 / Std # 5 Acrolein

8260 List 1 / Std # 5 Acrolein 5000 ug/ml, Water, 1 ml/ampul

974566
ID: V1_Acrolein_00007
Exp: 12/31/13 Prpd: JPH
Primary Acrolein @ 5000 p

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

Expiration Date : December 31, 2013 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Acrolein		5,006.0 µg/mL	+/-	29.3780	µg/mL	Gravimetric
	CAS # 107-02-8	(Lot 130301JLM)		+/-	131.3952	µg/mL	Unstressed
	Purity 99%			+/-	165.1930	µg/mL	Stressed

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

Column:
105m x 0.53mm x 3.0um
Rtx-502.2 (cat.#10910)

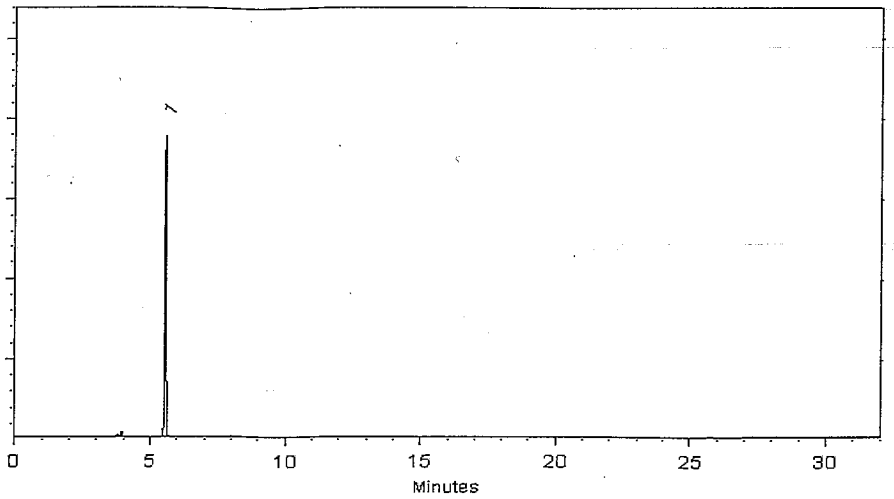
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

F. Joseph Fallon - Mix Technician **Date Mixed:** 23-Aug-2013 **Balance:** B251644995

Jodi E. Breon - QA Analyst **Date Passed:** 27-Aug-2013

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

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649600
ID: V1_cyclohxnon_00002
Exp: 02/28/16 Prpd: JH
Primary cyclohexanone @ 2

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567648 **Lot No.:** A093361

Description : 8260 List 2 / Std #3 Cyclohexanone

8260 List 2 / Std #3 Cyclohexanone 20,000 ug/ml, Water, 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Cyclohexanone	20,000.0 µg/mL	+/- 116.2756	µg/mL	Gravimetric
	CAS # 108-94-1		+/- 1,597.3791	µg/mL	Unstressed
	Purity 99%		+/- 1,598.1615	µg/mL	Stressed

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

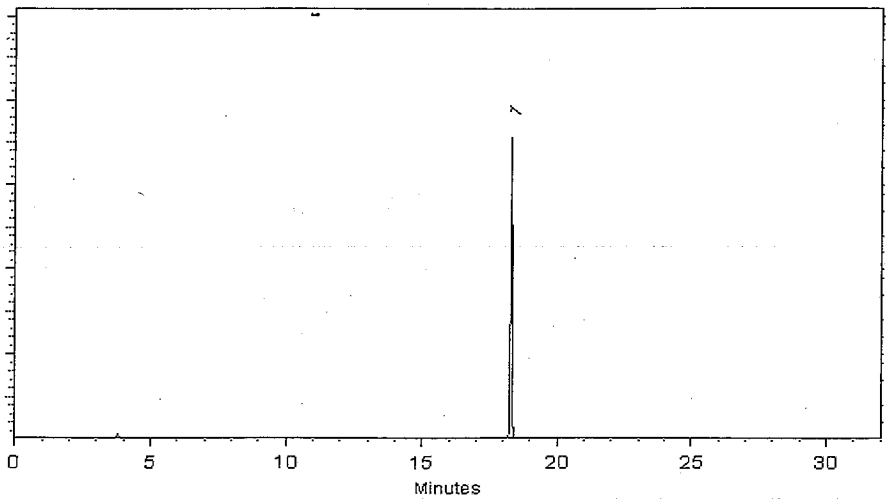
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 14-Feb-2013 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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648756
ID: V1_Gases_00002
Exp: 02/28/15 Prpd: JH
Primary Gases @ 2000ppm

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567645 **Lot No.:** A093341

Description : 8260 List 1 / Std #3 Gases

8260 List 1 / Std #3 Gases 2,000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 **Purity** 99%	2,000.0 µg/mL	+/- 13.8716 µg/mL +/- 25.2661 µg/mL +/- 28.2336 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 **Purity** 99%	1,999.8 µg/mL	+/- 13.9993 µg/mL +/- 25.3348 µg/mL +/- 28.2945 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 **Purity** 99%	2,000.1 µg/mL	+/- 13.9625 µg/mL +/- 25.3168 µg/mL +/- 28.2792 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 **Purity** 99%	2,000.0 µg/mL	+/- 13.3773 µg/mL +/- 24.9981 µg/mL +/- 27.9940 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 **Purity** 99%	2,000.1 µg/mL	+/- 14.2856 µg/mL +/- 25.4963 µg/mL +/- 28.4399 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 **Purity** 99%	2,000.0 µg/mL	+/- 13.2200 µg/mL +/- 24.9143 µg/mL +/- 27.9191 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 **Purity** 99%	2,000.0 µg/mL	+/- 13.5174 µg/mL +/- 25.0735 µg/mL +/- 28.0614 µg/mL	Gravimetric Unstressed Stressed
8	Trichlorofluoromethane (CFC-11) **CAS #** 75-69-4 **Purity** 99%	1,999.9 µg/mL	+/- 13.1170 µg/mL +/- 24.8590 µg/mL +/- 27.8696 µg/mL	Gravimetric Unstressed Stressed

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

Column:
60m x .25mm x 1.4um
Rtx-502.2 (cat.#10916)

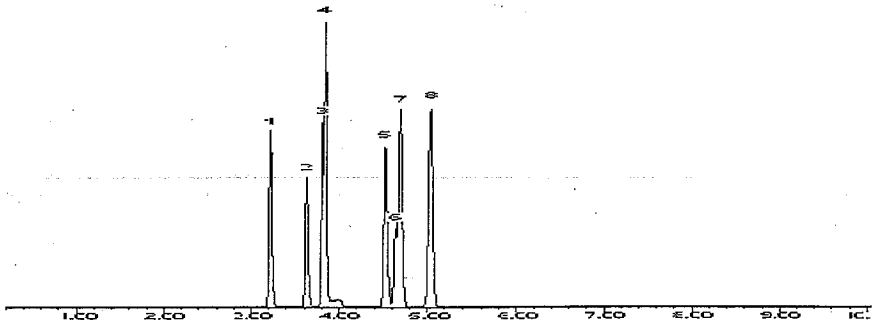
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



Jodi E. Breon - QA Analyst

Date Passed: 25-Feb-2013 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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861418
ID: V1_Gases_00003
Exp: 02/28/15 Prpd: JPH
Primary Gases @ 2000ppm

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567645 **Lot No.:** A093341

Description : 8260 List 1 / Std #3 Gases

8260 List 1 / Std #3 Gases 2,000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)	2,000.0 µg/mL	+/- 13.8716	µg/mL	Gravimetric
	CAS # 75-71-8		+/- 25.2661	µg/mL	Unstressed
	Purity 99%		+/- 28.2336	µg/mL	Stressed
2	Chloromethane (methyl chloride)	1,999.8 µg/mL	+/- 13.9993	µg/mL	Gravimetric
	CAS # 74-87-3		+/- 25.3348	µg/mL	Unstressed
	Purity 99%		+/- 28.2945	µg/mL	Stressed
3	Vinyl chloride	2,000.1 µg/mL	+/- 13.9625	µg/mL	Gravimetric
	CAS # 75-01-4		+/- 25.3168	µg/mL	Unstressed
	Purity 99%		+/- 28.2792	µg/mL	Stressed
4	1,3-Butadiene	2,000.0 µg/mL	+/- 13.3773	µg/mL	Gravimetric
	CAS # 106-99-0		+/- 24.9981	µg/mL	Unstressed
	Purity 99%		+/- 27.9940	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,000.1 µg/mL	+/- 14.2856	µg/mL	Gravimetric
	CAS # 74-83-9		+/- 25.4963	µg/mL	Unstressed
	Purity 99%		+/- 28.4399	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,000.0 µg/mL	+/- 13.2200	µg/mL	Gravimetric
	CAS # 75-00-3		+/- 24.9143	µg/mL	Unstressed
	Purity 99%		+/- 27.9191	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,000.0 µg/mL	+/- 13.5174	µg/mL	Gravimetric
	CAS # 75-43-4		+/- 25.0735	µg/mL	Unstressed
	Purity 99%		+/- 28.0614	µg/mL	Stressed
8	Trichlorofluoromethane (CFC-11)	1,999.9 µg/mL	+/- 13.1170	µg/mL	Gravimetric
	CAS # 75-69-4		+/- 24.8590	µg/mL	Unstressed
	Purity 99%		+/- 27.8696	µg/mL	Stressed

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

Column:
60m x .25mm x 1.4um
Rtx-502.2 (cat.#10916)

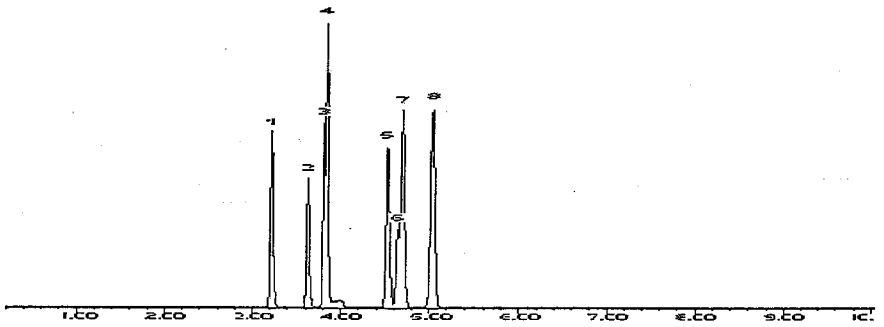
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



Jodi E. Breon - QA Analyst

Date Passed: 25-Feb-2013 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

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640590
ID: V1_Keytones_00002
Exp: 02/28/16 Prpd: JH
Primary Keytones @ 10000p

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567642 **Lot No.:** A093365

Description : 8260 List 1 / Std #2 Ketones

8260 List 1 / Std #2 Ketones 10,000 ug/ml, P&T Methanol/Water (90:10), 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 67-64-1		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
2	2-Butanone (MEK)	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 78-93-3		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 108-10-1		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
4	2-Hexanone	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 591-78-6		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

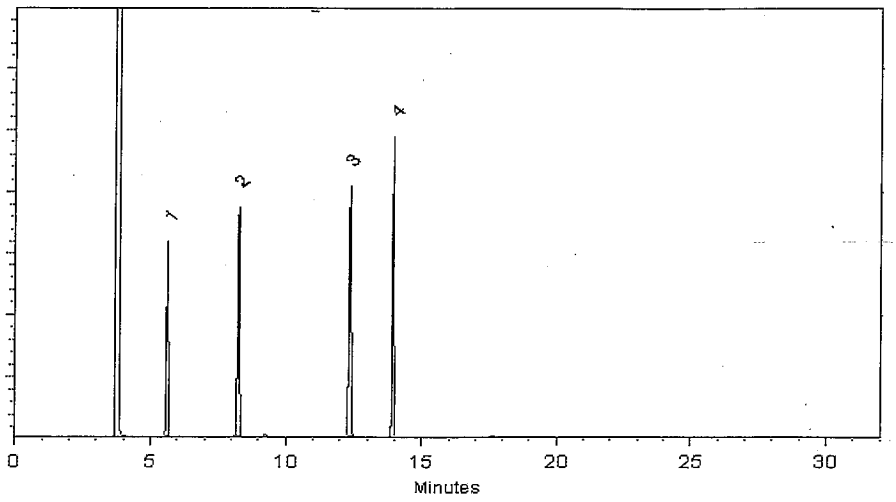
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 14-Feb-2013 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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861274
ID: V1_Keytones_00003
Exp: 02/28/16 Prpd: JPH
Primary Keytones @ 10000p

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ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567642 **Lot No.:** A093365

Description : 8260 List 1 / Std #2 Ketones

8260 List 1 / Std #2 Ketones 10,000 ug/ml, P&T Methanol/Water (90:10), 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 67-64-1		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
2	2-Butanone (MEK)	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 78-93-3		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 108-10-1		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
4	2-Hexanone	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 591-78-6		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

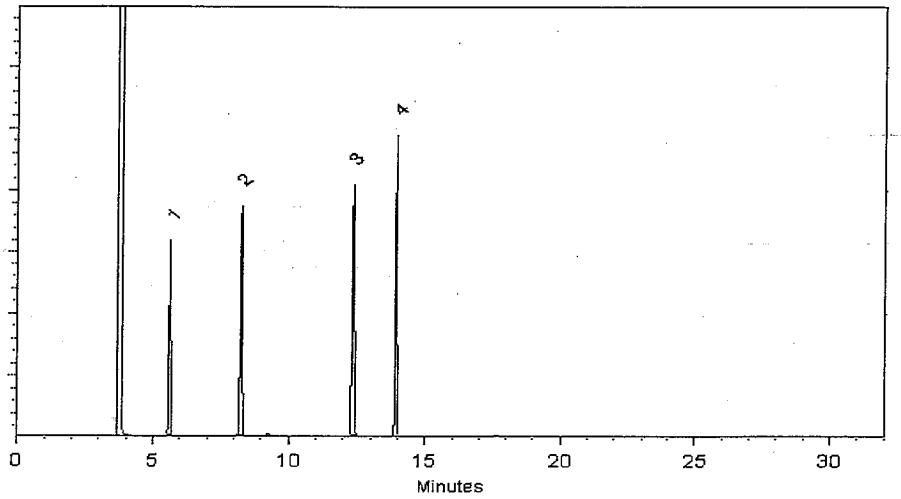
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 14-Feb-2013 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

RESTEK CERTIFIED REFERENCE MATERIAL

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Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

861448
ID: V1_vnl acetat_00003
Exp: 12/31/13 Prpd: JPH
Primary Vinyl Acetate @ 4

Catalog No. : 567646 **Lot No.:** A096198

Description : 8260 List 1 / Std #6 Vinyl Acetate

8260 List 1 / Std #6 Vinyl Acetate 4000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : December 31, 2013 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Vinyl acetate	4,000.0 µg/mL	+/- 23.2563 µg/mL	Gravimetric
	CAS # 108-05-4 (Lot STBC7746V)		+/- 319.4759 µg/mL	Unstressed
	Purity 99%		+/- 319.6324 µg/mL	Stressed

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

Tech Tips:

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

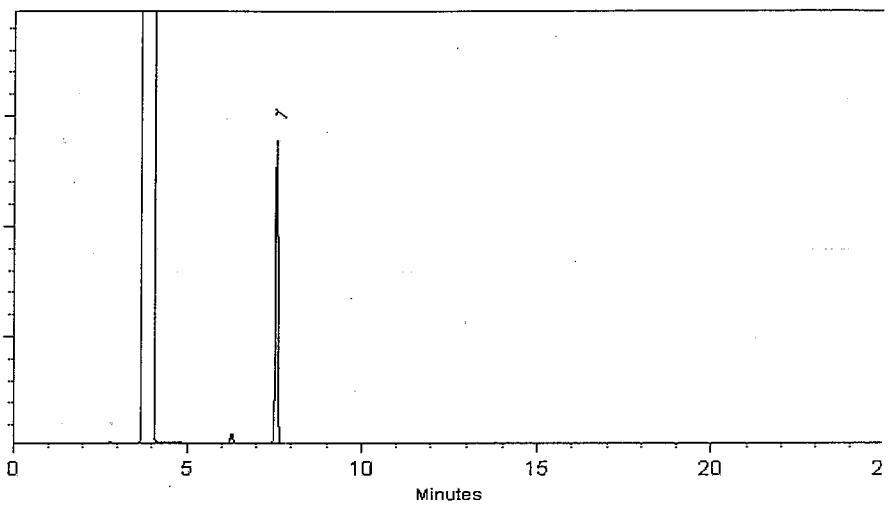
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

F. Joseph Fallon - Mix Technician

Date Mixed: 24-Jun-2013 **Balance:** B251644995

Diane Shaffer - QA Analyst

Date Passed: 25-Jun-2013

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

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899313
ID: V2_Gases_00003
Exp: 02/28/15 Prpd: JPH
Secondary Gases @ 2000pp

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ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567645.sec **Lot No.:** A093618

Description : 8260 List 1 / Std #3 Gases

8260 List 1 / Std #3 Gases 2,000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)	2,001.8 µg/mL	+/- 11.3948	µg/mL	Gravimetric
	CAS # 75-71-8.SEC		+/- 24.0125	µg/mL	Unstressed
	Purity 99%		+/- 27.1228	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,000.6 µg/mL	+/- 11.1434	µg/mL	Gravimetric
	CAS # 74-87-3.SEC		+/- 23.8835	µg/mL	Unstressed
	Purity 99%		+/- 27.0052	µg/mL	Stressed
3	Vinyl chloride	1,996.5 µg/mL	+/- 13.5847	µg/mL	Gravimetric
	CAS # 75-01-4.SEC		+/- 25.0789	µg/mL	Unstressed
	Purity 99%		+/- 28.0563	µg/mL	Stressed
4	1,3-Butadiene	2,003.5 µg/mL	+/- 10.3715	µg/mL	Gravimetric
	CAS # 106-99-0.SEC		+/- 23.5601	µg/mL	Unstressed
	Purity 99%		+/- 26.7280	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,001.5 µg/mL	+/- 12.1569	µg/mL	Gravimetric
	CAS # 74-83-9.SEC		+/- 24.3811	µg/mL	Unstressed
	Purity 99%		+/- 27.4489	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	1,997.2 µg/mL	+/- 13.6408	µg/mL	Gravimetric
	CAS # 75-00-3.SEC		+/- 25.1155	µg/mL	Unstressed
	Purity 99%		+/- 28.0910	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,004.9 µg/mL	+/- 12.2390	µg/mL	Gravimetric
	CAS # 75-43-4.SEC		+/- 24.4529	µg/mL	Unstressed
	Purity 99%		+/- 27.5224	µg/mL	Stressed
8	Trichlorofluoromethane (CFC-11)	2,001.9 µg/mL	+/- 16.1788	µg/mL	Gravimetric
	CAS # 75-69-4.SEC		+/- 26.6190	µg/mL	Unstressed
	Purity 99%		+/- 29.4557	µg/mL	Stressed

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

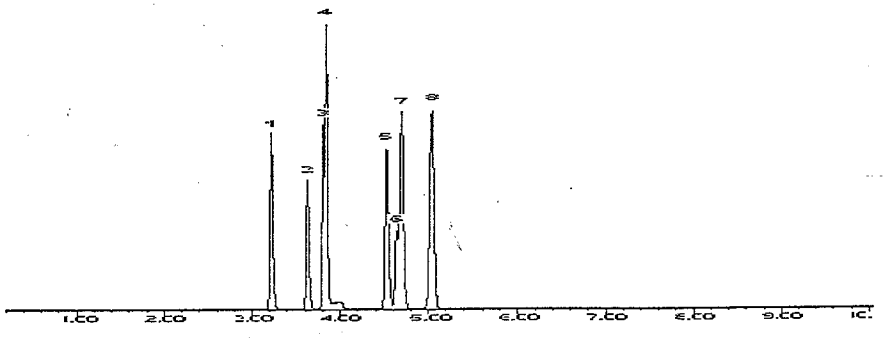
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Jodi E. Breon
Jodi E. Breon - QA Analyst

Date Passed: 25-Feb-2013 **Balance:** 1125113331

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

RESTEK

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648812
ID: V2_Keytones_00001
Exp: 02/28/16 Prpd: JH
Secondary Keytones @ 1000

ACCREDITED
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Reference Material Producer
Certificate #3222.01

ilac-MRA

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ISO/IEC 17025 Accredited
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Certificate of Composition

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567642.sec **Lot No.:** A093472

Description : 8260 List 1 / Std #2 Ketones

8260/624 Ketones Standard 10,000 ug/ml, P&T Methanol/Water (90:10), 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone	10,000.0 µg/mL	+/- 58.1409	µg/mL	Gravimetric
	CAS # 67-64-1.SEC		+/- 798.6898	µg/mL	Unstressed
	Purity 99%		+/- 799.0809	µg/mL	Stressed
2	2-Butanone (MEK)	10,000.0 µg/mL	+/- 58.1409	µg/mL	Gravimetric
	CAS # 78-93-3.SEC		+/- 798.6898	µg/mL	Unstressed
	Purity 99%		+/- 799.0809	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	10,000.0 µg/mL	+/- 58.1409	µg/mL	Gravimetric
	CAS # 108-10-1.SEC		+/- 798.6898	µg/mL	Unstressed
	Purity 99%		+/- 799.0809	µg/mL	Stressed
4	2-Hexanone	10,000.0 µg/mL	+/- 58.1409	µg/mL	Gravimetric
	CAS # 591-78-6.SEC		+/- 798.6898	µg/mL	Unstressed
	Purity 99%		+/- 799.0809	µg/mL	Stressed

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

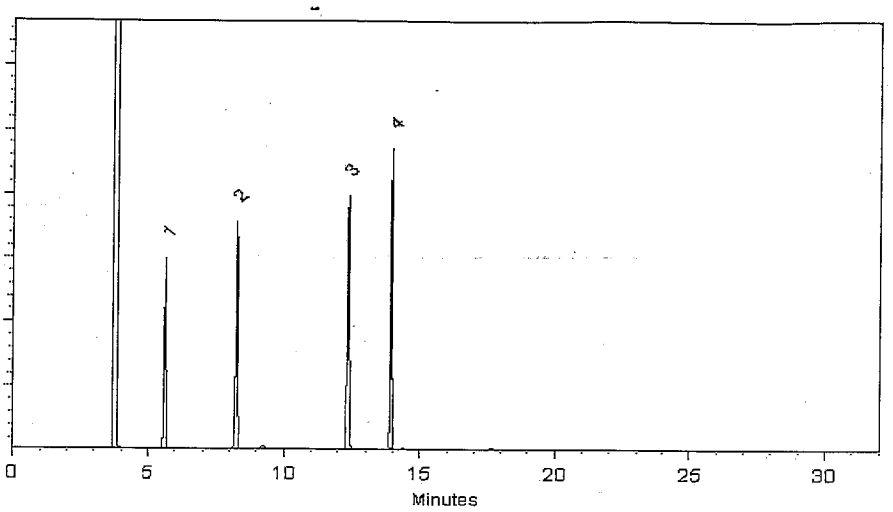
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 14-Feb-2013 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK

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Bellefonte, PA 16823-8812
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www.restek.com

861523
ID: V2_Megamix_00002
Exp: 02/28/16 Prpd: JPH
Secondary Megamix @ 2000

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567641.sec **Lot No.:** A093733

Description : 8260 List 1 / Std #1 MegaMix

8260 List 1 / Std #1 MegaMix 1,000-50,000 µg/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Diethyl ether (ethyl ether)	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 60-29-7.SEC		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113)	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 76-13-1.SEC		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed
3	1,1-Dichloroethene	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 75-35-4.SEC		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed
4	tert-Butanol (TBA)	20,000.0 µg/mL	+/- 116.2756	µg/mL	Gravimetric
	CAS # 75-65-0.SEC		+/- 442.5291	µg/mL	Unstressed
	Purity 99%		+/- 444.3332	µg/mL	Stressed
5	Iodomethane (methyl iodide)	2,000.0 µg/mL	+/- 11.6284	µg/mL	Gravimetric
	CAS # 74-88-4.SEC		+/- 44.2540	µg/mL	Unstressed
	Purity 97%		+/- 44.4344	µg/mL	Stressed
6	Allyl chloride (3-chloropropene)	2,000.0 µg/mL	+/- 11.6281	µg/mL	Gravimetric
	CAS # 107-05-1.SEC		+/- 44.2527	µg/mL	Unstressed
	Purity 98%		+/- 44.4331	µg/mL	Stressed
7	Methyl acetate	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 79-20-9.SEC		+/- 221.2646	µg/mL	Unstressed
	Purity 99%		+/- 222.1666	µg/mL	Stressed
8	Carbon disulfide	2,000.0 µg/mL	+/- 11.6281	µg/mL	Gravimetric
	CAS # 75-15-0.SEC		+/- 44.2527	µg/mL	Unstressed
	Purity 98%		+/- 44.4331	µg/mL	Stressed
9	Methylene chloride (dichloromethane)	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 75-09-2.SEC		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed

10	Acrylonitrile	20,000.0	µg/mL	+/-	116.2756	µg/mL	Gravimetric
	CAS # 107-13-1.SEC			+/-	442.5291	µg/mL	Unstressed
	Purity 99%			+/-	444.3332	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
12	cis-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-59-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
13	n-Hexane (C6)	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 110-54-3.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed
14	1,1-Dichloroethane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 75-34-3.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
15	2,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 594-20-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
16	trans-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 156-60-5.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
17	Chloroform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 67-66-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
18	Isobutanol (2-Methyl-1-propanol)	50,000.0	µg/mL	+/-	290.6891	µg/mL	Gravimetric
	CAS # 78-83-1.SEC			+/-	1,106.3228	µg/mL	Unstressed
	Purity 99%			+/-	1,110.8331	µg/mL	Stressed
19	Bromochloromethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-97-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
20	Tetrahydrofuran	4,000.0	µg/mL	+/-	23.2563	µg/mL	Gravimetric
	CAS # 109-99-9.SEC			+/-	88.5061	µg/mL	Unstressed
	Purity 99%			+/-	88.8670	µg/mL	Stressed
21	1,1,1-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-55-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
22	Cyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 110-82-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
23	1,1-Dichloropropene	2,010.5	µg/mL	+/-	11.6890	µg/mL	Gravimetric
	CAS # 563-58-6.SEC			+/-	44.4847	µg/mL	Unstressed
	Purity 98%			+/-	44.6661	µg/mL	Stressed
24	Carbon tetrachloride	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 56-23-5.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed
25	n-Heptane (C7)	2,000.1	µg/mL	+/-	11.6288	µg/mL	Gravimetric
	CAS # 142-82-5.SEC			+/-	44.2553	µg/mL	Unstressed
	Purity 99%			+/-	44.4357	µg/mL	Stressed
26	Benzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-43-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
27	1,2-Dichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 107-06-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
28	Trichloroethene	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 79-01-6.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed

29	Methylcyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-87-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
30	1,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 78-87-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
31	1,4-Dioxane	40,000.0	µg/mL	+/-	232.5513	µg/mL	Gravimetric
	CAS # 123-91-1.SEC			+/-	885.0582	µg/mL	Unstressed
	Purity 99%			+/-	888.6665	µg/mL	Stressed
32	Dibromomethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-95-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
33	Bromodichloromethane	2,000.1	µg/mL	+/-	11.6290	µg/mL	Gravimetric
	CAS # 75-27-4.SEC			+/-	44.2562	µg/mL	Unstressed
	Purity 97%			+/-	44.4366	µg/mL	Stressed
34	cis-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
35	Toluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-88-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
36	Ethyl methacrylate	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 97-63-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
37	trans-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
38	1,1,2-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-00-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
39	1,3-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-28-9.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
40	Tetrachloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 127-18-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
41	Dibromochloromethane	2,000.1	µg/mL	+/-	11.6290	µg/mL	Gravimetric
	CAS # 124-48-1.SEC			+/-	44.2562	µg/mL	Unstressed
	Purity 97%			+/-	44.4366	µg/mL	Stressed
42	1,2-Dibromoethane (EDB)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-93-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
43	Chlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-90-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
44	1,1,1,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 630-20-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
45	m-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 108-38-3.SEC			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
46	p-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 106-42-3.SEC			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
47	o-Xylene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-47-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

48	Ethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-41-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
49	Styrene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-42-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
50	Isopropylbenzene (cumene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-82-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
51	Bromoform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-25-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-34-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
53	1,2,3-Trichloropropane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 96-18-4.SEC			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
54	trans-1,4-Dichloro-2-butene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 110-57-6.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
55	n-Propylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 103-65-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
56	Bromobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-86-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
57	1,3,5-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-67-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
58	2-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-49-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
59	4-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-43-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
60	tert-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-06-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
61	1,2,4-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-63-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
62	sec-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 135-98-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
63	4-Isopropyltoluene (p-cymene)	2,000.1	µg/mL	+/-	11.6285	µg/mL	Gravimetric
	CAS # 99-87-6.SEC			+/-	44.2545	µg/mL	Unstressed
	Purity 96%			+/-	44.4349	µg/mL	Stressed
64	1,3-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 541-73-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
65	1,4-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-46-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
66	n-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 104-51-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

67	1,2-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-50-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 96-12-8.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
69	1,2,4-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 120-82-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
70	Hexachlorobutadiene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 87-68-3.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
71	Naphthalene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 91-20-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
72	1,2,3-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 87-61-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

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

Column:
60m x .25mm x 1.4um
Rtx-502.2 (cat.#10916)

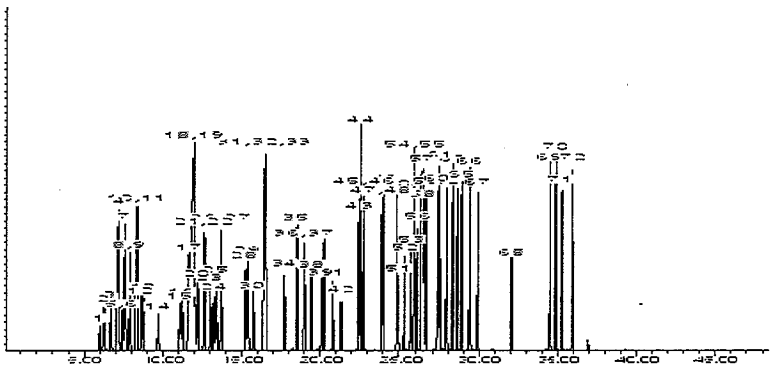
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



Jennifer L. Pollino - QC Analyst

Date Passed: 01-Mar-2013 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

NV02969

RESTEK

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www.Restek.com

ACCREDITED
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
Testing Laboratory
Certificate #3222.02

Gravimetric Certificate

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 563892 **Lot No.:** A088300

Description : Custom 3,3-Dimethyl-1-butanol Standard

3,3-Dimethyl-1-butanol Std 20000ug/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : November 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	3,3-Dimethyl-1-butanol (ETBA)	20,000.000 ug/mL	+/- 185.083771 ug/mL	Gravimetric
	CAS # 624-95-3		+/- 465.368671 ug/mL	Unstressed
	Purity 99%		+/- 467.084575 ug/mL	Stressed

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

Date Mixed: 07-May-2012 **Balance:** 1128342313

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

892820
ID: VO1_ShrtLst_S_00004
Exp: 08/31/15 Prpd: JPH
Primary Short List Mix at

Custom Standard

Product Number: CUS-7011 **Page:** 1 of 2

Lot Number: CK-2387 **Lot Issue Date:** 22-Jul-2013 **Expiration Date:** 31-Aug-2015

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA Scientific's ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
TAME	000994-05-8	RM00554	100.3 ± 0.5 µg/mL
benzene	000071-43-2	RM03830	100.3 ± 0.5 µg/mL
EDB	000106-93-4	RM00018	100.3 ± 0.5 µg/mL
1,2-dichloroethane	000107-06-2	NT01561	100.3 ± 0.5 µg/mL
ethylbenzene	000100-41-4	RM00783	100.1 ± 0.5 µg/mL
ethyl tert-butyl ether	000637-92-3	RM02196	100.2 ± 0.5 µg/mL
2-methyl-2-pentanol	000590-36-3	RM03764	1004 ± 5 µg/mL
isopropylbenzene	000098-82-8	rm00835	100.3 ± 0.5 µg/mL
isopropyl ether	000108-20-3	RM00553	100.3 ± 0.5 µg/mL
MTBE	001634-04-4	RM05378	100.3 ± 0.5 µg/mL
ethanol	000064-17-5	RM03898	10032 ± 50 µg/mL
naphthalene	000091-20-3	NT02215	100.3 ± 0.5 µg/mL
tert-amyl alcohol	000075-85-4	RM02466	1003 ± 5 µg/mL
t-butanol (2-methyl-2-propanol)	000075-65-0	RM00555	1003 ± 5 µg/mL
tert-butyl formate	000762-75-4	RM01820	1004 ± 5 µg/mL
toluene	000108-88-3	RM02555	100.3 ± 0.5 µg/mL
1,3,5-trimethylbenzene	000108-67-8	rm00051	100.3 ± 0.5 µg/mL
1,2,4-trimethylbenzene	000095-63-6	rm00050	100.3 ± 0.5 µg/mL
o-xylene	000095-47-6	RM00052	100.2 ± 0.5 µg/mL
m-xylene	000108-38-3	RM00053	100.4 ± 0.5 µg/mL
p-xylene	000106-42-3	RM02647	100.2 ± 0.5 µg/mL
xylenes (total)	001330-20-7	RM02648	300.9 ± 1.5 µg/mL

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

A2LA ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0851-01
ISO 9001:2008 Registered TUV USA, Inc. Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
wwww.ultrasci.com

William J. Leary
Quality Assurance Manager

11/22/2013

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

Custom Standard

Product Number: CUS-7011 **Page:** 2 of 2

Lot Number: CK-2387 **Lot Issue Date:** 22-Jul-2013 **Expiration Date:** 31-Aug-2015

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA Scientific's ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

2-methylnaphthalene	000091-57-6	RM01258	100.5 ± 0.5 µg/mL
sec-butylbenzene	000135-98-8	rm01800	100.3 ± 0.5 µg/mL
tert-butylbenzene	000098-06-6	rm00043	100.3 ± 0.5 µg/mL
n-butylbenzene	000104-51-8	rm01802	100.3 ± 0.5 µg/mL
4-isopropyltoluene	000099-87-6	rm00046	100.3 ± 0.5 µg/mL
n-propylbenzene	000103-65-1	rm02470	100.3 ± 0.5 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0851-01
ISO 9001:2008 Registered TUV USA, Inc. Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
wwww.ultrasci.com

William J. Leary
Quality Assurance Manager

11/22/2013

RESTEK CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

697215
ID: VO2_ShrtLst_S_00003
Exp: 04/30/15 Prpd: JH
Secondary Short List Mix

Catalog No. : 561573 **Lot No.:** A094861

Description : Custom BTEX/Oxygenates Standard

Custom BTEX/Oxygenates Standard 100-10000 µg/mL, P&T Methanol, 5mL/ampul

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

Expiration Date : April 30, 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Ethanol		10,000.8	µg/mL	+/- 58.1455	µg/mL	Gravimetric
	CAS # 64-17-5	(Lot SHBB4935V)			+/- 221.2831	µg/mL	Unstressed
	Purity 99%				+/- 222.1852	µg/mL	Stressed
2	tert-Butanol (TBA)		1,000.8	µg/mL	+/- 5.8322	µg/mL	Gravimetric
	CAS # 75-65-0	(Lot SHBC0151V)			+/- 22.1478	µg/mL	Unstressed
	Purity 99%				+/- 22.2380	µg/mL	Stressed
3	Methyl-tert-butyl ether (MTBE)		100.0	µg/mL	+/- 0.5899	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBC1436V)			+/- 2.2149	µg/mL	Unstressed
	Purity 99%				+/- 2.2239	µg/mL	Stressed
4	Diisopropyl ether (DIPE)		100.4	µg/mL	+/- 0.5923	µg/mL	Gravimetric
	CAS # 108-20-3	(Lot 83896LMV)			+/- 2.2238	µg/mL	Unstressed
	Purity 99%				+/- 2.2328	µg/mL	Stressed
5	Ethyl-tert-butyl ether (ETBE)		100.2	µg/mL	+/- 0.5911	µg/mL	Gravimetric
	CAS # 637-92-3	(Lot MKBJ1700V)			+/- 2.2193	µg/mL	Unstressed
	Purity 99%				+/- 2.2284	µg/mL	Stressed
6	tert-Butyl formate		1,000.6	µg/mL	+/- 5.8310	µg/mL	Gravimetric
	CAS # 762-75-4	(Lot 1452624V)			+/- 22.1433	µg/mL	Unstressed
	Purity 99%				+/- 22.2336	µg/mL	Stressed
7	1,2-Dichloroethane		100.0	µg/mL	+/- 0.5899	µg/mL	Gravimetric
	CAS # 107-06-2	(Lot SHBC3686V)			+/- 2.2149	µg/mL	Unstressed
	Purity 99%				+/- 2.2239	µg/mL	Stressed
8	tert-Amyl alcohol		1,000.6	µg/mL	+/- 5.8310	µg/mL	Gravimetric
	CAS # 75-85-4	(Lot 04318BJ)			+/- 22.1433	µg/mL	Unstressed
	Purity 99%				+/- 22.2336	µg/mL	Stressed

9	tert-Amyl methyl ether (TAME)		100.4	µg/mL	+/-	0.5923	µg/mL	Gravimetric
	CAS # 994-05-8	(Lot OS1028/4V)			+/-	2.2238	µg/mL	Unstressed
	Purity 99%				+/-	2.2328	µg/mL	Stressed
10	Benzene		100.2	µg/mL	+/-	0.5911	µg/mL	Gravimetric
	CAS # 71-43-2	(Lot SHBC0830V)			+/-	2.2193	µg/mL	Unstressed
	Purity 99%				+/-	2.2284	µg/mL	Stressed
11	2-Methyl-2-pentanol (tert-butyl ethyl alcohol)		1,000.8	µg/mL	+/-	5.8322	µg/mL	Gravimetric
	CAS # 590-36-3	(Lot 15208HDV)			+/-	22.1478	µg/mL	Unstressed
	Purity 99%				+/-	22.2380	µg/mL	Stressed
12	Toluene		100.2	µg/mL	+/-	0.5911	µg/mL	Gravimetric
	CAS # 108-88-3	(Lot SHBC3714V)			+/-	2.2193	µg/mL	Unstressed
	Purity 99%				+/-	2.2284	µg/mL	Stressed
13	1,2-Dibromoethane (EDB)		100.2	µg/mL	+/-	0.5911	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot SHBB3031V)			+/-	2.2193	µg/mL	Unstressed
	Purity 99%				+/-	2.2284	µg/mL	Stressed
14	Ethylbenzene		100.2	µg/mL	+/-	0.5911	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBC2278V)			+/-	2.2193	µg/mL	Unstressed
	Purity 99%				+/-	2.2284	µg/mL	Stressed
15	m-Xylene		100.0	µg/mL	+/-	0.5899	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot SHBB1328V)			+/-	2.2149	µg/mL	Unstressed
	Purity 99%				+/-	2.2239	µg/mL	Stressed
16	p-Xylene		100.2	µg/mL	+/-	0.5911	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot SHBC6261V)			+/-	2.2193	µg/mL	Unstressed
	Purity 99%				+/-	2.2284	µg/mL	Stressed
17	o-Xylene		100.0	µg/mL	+/-	0.5899	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBC4667V)			+/-	2.2149	µg/mL	Unstressed
	Purity 99%				+/-	2.2239	µg/mL	Stressed
18	Isopropylbenzene (cumene)		100.4	µg/mL	+/-	0.5923	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot 10169400)			+/-	2.2238	µg/mL	Unstressed
	Purity 99%				+/-	2.2328	µg/mL	Stressed
19	n-Propylbenzene		100.2	µg/mL	+/-	0.5911	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot MKBJ0332V)			+/-	2.2193	µg/mL	Unstressed
	Purity 99%				+/-	2.2284	µg/mL	Stressed
20	1,3,5-Trimethylbenzene		100.0	µg/mL	+/-	0.5899	µg/mL	Gravimetric
	CAS # 108-67-8	(Lot BCBJ3305V)			+/-	2.2149	µg/mL	Unstressed
	Purity 99%				+/-	2.2239	µg/mL	Stressed
21	tert-Butylbenzene		100.4	µg/mL	+/-	0.5923	µg/mL	Gravimetric
	CAS # 98-06-6	(Lot S52237V)			+/-	2.2238	µg/mL	Unstressed
	Purity 99%				+/-	2.2328	µg/mL	Stressed
22	1,2,4-Trimethylbenzene		100.2	µg/mL	+/-	0.5908	µg/mL	Gravimetric
	CAS # 95-63-6	(Lot MKBH0072V)			+/-	2.2184	µg/mL	Unstressed
	Purity 98%				+/-	2.2274	µg/mL	Stressed
23	sec-Butylbenzene		100.4	µg/mL	+/-	0.5923	µg/mL	Gravimetric
	CAS # 135-98-8	(Lot MKBG3822V)			+/-	2.2238	µg/mL	Unstressed
	Purity 99%				+/-	2.2328	µg/mL	Stressed
24	4-Isopropyltoluene (p-Cymene)		100.4	µg/mL	+/-	0.5923	µg/mL	Gravimetric
	CAS # 99-87-6	(Lot MKBK4439V)			+/-	2.2238	µg/mL	Unstressed
	Purity 99%				+/-	2.2328	µg/mL	Stressed

25	n-Butylbenzene		100.4	µg/mL	+/- 0.5923	µg/mL	Gravimetric
	CAS # 104-51-8	(Lot 09418JJV)			+/- 2.2238	µg/mL	Unstressed
	Purity 99%				+/- 2.2328	µg/mL	Stressed
26	Naphthalene		100.4	µg/mL	+/- 0.5923	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKBF8633V)			+/- 2.2238	µg/mL	Unstressed
	Purity 99%				+/- 2.2328	µg/mL	Stressed
27	2-Methylnaphthalene		100.0	µg/mL	+/- 0.5901	µg/mL	Gravimetric
	CAS # 91-57-6	(Lot 19399MJV)			+/- 2.2156	µg/mL	Unstressed
	Purity 96%				+/- 2.2246	µg/mL	Stressed

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

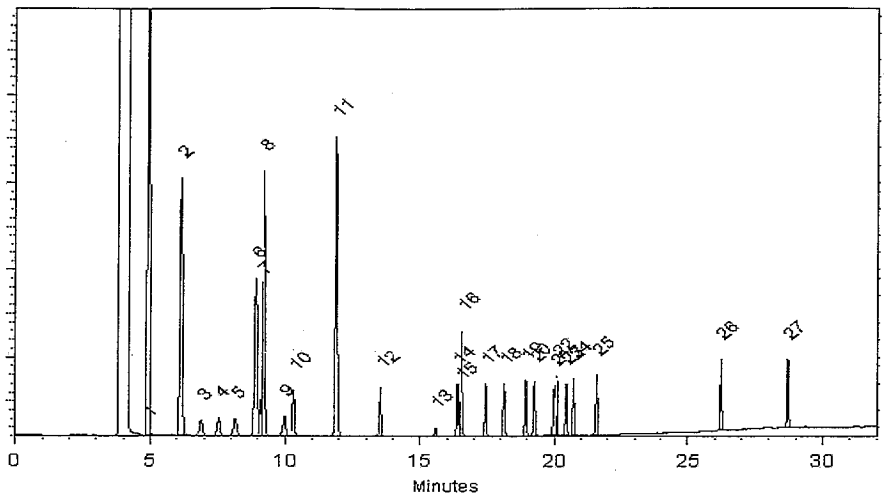
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Brandon Reish - Mix Technician

Date Mixed: 17-Apr-2013 **Balance:** 1127510105

Jodi E. Breon - QA Analyst

Date Passed: 24-Apr-2013

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

573199
ID: VOA_IS Mix_S_00004
Exp: 03/31/14 Prpd: JH
Internal Standard Mix at

Custom Standard

Product Number: TAM-104 **Page:** 1 of 1

Lot Number: CJ-0470 **Lot Issue Date:** 14-Feb-2012 **Expiration Date:** 31-Mar-2014

This Certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
fluorobenzene	000462-06-6	RM03366-01	2513 ± 13 µg/mL
chlorobenzene-d5	003114-55-4	RM01430-04	2512 ± 13 µg/mL
1,4-dichlorobenzene-d4	003855-82-1	RM01700-02	2507 ± 13 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at Room Temperature (18-25° C)

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

A2LA ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0851-01
ISO 9001:2008 Registered TUV USA, Inc. Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
wwww.ultrasci.com

William J. Leary
Quality Assurance Manager

11/22/2013

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

573188
ID: VOA_SS Mix_S_00003
Exp: 09/30/14 Prpd: JH
Surrogate Standard Mix at

Custom Standard

Product Number: TAM-100 **Page:** 1 of 1

Lot Number: CJ-3029 **Lot Issue Date:** 06-Aug-2012 **Expiration Date:** 30-Sep-2014

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
4-bromofluorobenzene	000460-00-4	RM03365	2509 ± 13 µg/mL
dibromofluoromethane	001868-53-7	RM04871	2511 ± 13 µg/mL
1,2-dichloroethane-d4	017060-07-0	RM05260	2506 ± 13 µg/mL
toluene-d8	002037-26-5	RM01741	2507 ± 13 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ACCREDITED

ISO 17025 Accredited A2LA Cert. No. 0851-01

ISO 9001 Registered TUV USA, Inc. Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 401-295-2330
www.ultrasci.com

William J. Leary
Quality Assurance Manager

11/22/2013

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39837-2

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	Alaska (UST)	State Program	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas DEQ	State Program	6	88-0737
TestAmerica Nashville	California	NELAP	9	1168CA
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAP	4	E87358
TestAmerica Nashville	Illinois	NELAP	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAP	7	E-10229
TestAmerica Nashville	Kentucky (UST)	State Program	4	19
TestAmerica Nashville	Louisiana	NELAP	6	30613
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAP	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana (UST)	State Program	8	NA
TestAmerica Nashville	Nevada	State Program	9	TN00032
TestAmerica Nashville	New Hampshire	NELAP	1	2963
TestAmerica Nashville	New Jersey	NELAP	2	TN965
TestAmerica Nashville	New York	NELAP	2	11342
TestAmerica Nashville	North Carolina DENR	State Program	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio VAP	State Program	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAP	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAP	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009 (001)
TestAmerica Nashville	South Carolina	State Program	4	84009 (002)
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAP	6	T104704077-09-TX
TestAmerica Nashville	USDA	Federal		S-48469
TestAmerica Nashville	Utah	NELAP	8	TN00032
TestAmerica Nashville	Virginia	NELAP	3	460152
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia DEP	State Program	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430
TestAmerica Nashville	Wyoming (UST)	A2LA	8	453.07

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260B

Volatile Organic Compounds (GC/MS) by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Matrix: Water Level: Low

GC Column (1): ZB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
MW-03A-GW-001	490-39837-1	102	102	118	92
MW-03B-GW-001	490-39837-2	106	106	120	93
MW-03B-GW-001	490-39837-2	99	102	119	95
MW-03B-GW-002	490-39837-4	103	105	107	92
MW-03B-GW-002	490-39837-4	101	101	109	92
MW-05-GW-001	490-39837-6	106	105	110	93
Field Blank	490-39837-7	101	104	122	90
Equipment Blank	490-39837-9	103	108	119	94
Trip Blank	490-39837-11	102	105	118	91
	MB 490-122748/7	99	104	120	93
	MB 490-123017/7	97	100	114	96
	LCS 490-122748/3	96	97	108	96
	LCS 490-123017/3	96	94	105	103
	LCSD 490-122748/4	98	96	107	96
	LCSD 490-123017/4	94	93	106	101
MW-03B-GW-001 MS	490-39837-2 MS	98	100	110	94
MW-03B-GW-001 MSD	490-39837-2 MSD	99	99	109	96

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Column to be used to flag recovery values

FORM II 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Matrix: Water (TCLP) Level: Low

GC Column (1): ZB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
	490-40571-A-1-A MS	104	101	111	94
	490-40571-A-1-A MSD	100	98	109	95

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 1118-03.D

Lab ID: LCS 490-122748/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	250	245.8	98	54-145	
Benzene	50.0	50.75	102	80-121	
Bromochloromethane	50.0	49.63	99	78-129	
Bromodichloromethane	50.0	51.36	103	75-129	
Bromoform	50.0	55.30	111	46-145	
Bromomethane	50.0	42.09	84	41-150	
2-Butanone (MEK)	250	232.4	93	62-133	
Carbon disulfide	50.0	57.71	115	77-126	
Carbon tetrachloride	50.0	50.89	102	64-147	
Chlorobenzene	50.0	59.85	120	80-120	
Chlorodibromomethane	50.0	59.84	120	69-133	
Chloroethane	50.0	53.34	107	72-120	
Chloroform	50.0	50.95	102	73-129	
Chloromethane	50.0	32.02	64	12-150	
cis-1,2-Dichloroethene	50.0	57.57	115	76-125	
cis-1,3-Dichloropropene	50.0	57.94	116	74-140	
Cyclohexane	50.0	52.27	105	73-122	
1,2-Dibromo-3-Chloropropane	50.0	44.87	90	54-125	
1,2-Dibromoethane (EDB)	50.0	51.95	104	80-129	
1,2-Dichlorobenzene	50.0	51.73	103	80-121	
1,3-Dichlorobenzene	50.0	51.08	102	80-122	
1,4-Dichlorobenzene	50.0	56.44	113	80-120	
Dichlorodifluoromethane	50.0	53.88	108	37-127	
1,1-Dichloroethane	50.0	57.10	114	78-125	
1,2-Dichloroethane	50.0	49.65	99	77-121	
1,1-Dichloroethene	50.0	55.47	111	79-124	
1,2-Dichloropropane	50.0	55.05	110	75-120	
Ethylbenzene	50.0	56.03	112	80-130	
2-Hexanone	250	247.0	99	60-142	
Isopropylbenzene	50.0	56.59	113	80-141	
Methyl acetate	250	210.5	84	64-150	
Methylcyclohexane	50.0	49.17	98	71-129	
Methylene Chloride	50.0	54.45	109	79-123	
4-Methyl-2-pentanone (MIBK)	250	257.9	103	60-137	
Methyl tert-butyl ether	50.0	49.13	98	72-133	
N-Propylbenzene	50.0	54.46	109	75-129	
Styrene	50.0	57.78	116	80-127	
1,1,2,2-Tetrachloroethane	50.0	49.13	98	69-131	
Tetrachloroethene	50.0	59.65	119	80-126	
Tetrahydrofuran	100	62.41	62	51-124	
Toluene	50.0	58.01	116	80-126	
trans-1,2-Dichloroethene	50.0	55.26	111	79-126	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 1118-03.D

Lab ID: LCS 490-122748/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	50.0	53.93	108	63-134	
1,2,4-Trichlorobenzene	50.0	50.52	101	63-133	
1,1,1-Trichloroethane	50.0	52.11	104	78-135	
1,1,2-Trichloroethane	50.0	53.10	106	80-124	
Trichloroethene	50.0	50.95	102	80-123	
Trichlorofluoromethane	50.0	55.01	110	65-124	
1,1,2-Trichloro-1,2,2-trichfluoroethane	50.0	53.94	108	77-129	
Vinyl chloride	50.0	52.16	104	68-120	
Xylenes, Total	100	111.2	111	80-132	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 1119-03.D

Lab ID: LCS 490-123017/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	250	217.5	87	54-145	
Benzene	50.0	49.33	99	80-121	
Bromochloromethane	50.0	49.43	99	78-129	
Bromodichloromethane	50.0	50.58	101	75-129	
Bromoform	50.0	53.12	106	46-145	
Bromomethane	50.0	44.96	90	41-150	
2-Butanone (MEK)	250	227.3	91	62-133	
Carbon disulfide	50.0	54.03	108	77-126	
Carbon tetrachloride	50.0	51.68	103	64-147	
Chlorobenzene	50.0	56.36	113	80-120	
Chlorodibromomethane	50.0	55.16	110	69-133	
Chloroethane	50.0	53.20	106	72-120	
Chloroform	50.0	50.10	100	73-129	
Chloromethane	50.0	34.01	68	12-150	
cis-1,2-Dichloroethene	50.0	55.78	112	76-125	
cis-1,3-Dichloropropene	50.0	56.83	114	74-140	
Cyclohexane	50.0	52.34	105	73-122	
1,2-Dibromo-3-Chloropropane	50.0	44.95	90	54-125	
1,2-Dibromoethane (EDB)	50.0	50.64	101	80-129	
1,2-Dichlorobenzene	50.0	51.90	104	80-121	
1,3-Dichlorobenzene	50.0	51.12	102	80-122	
1,4-Dichlorobenzene	50.0	56.27	113	80-120	
Dichlorodifluoromethane	50.0	54.94	110	37-127	
1,1-Dichloroethane	50.0	54.20	108	78-125	
1,2-Dichloroethane	50.0	48.91	98	77-121	
1,1-Dichloroethene	50.0	54.19	108	79-124	
1,2-Dichloropropane	50.0	54.00	108	75-120	
Ethylbenzene	50.0	52.79	106	80-130	
2-Hexanone	250	250.5	100	60-142	
Isopropylbenzene	50.0	53.16	106	80-141	
Methyl acetate	250	185.9	74	64-150	
Methylcyclohexane	50.0	49.83	100	71-129	
Methylene Chloride	50.0	51.71	103	79-123	
4-Methyl-2-pentanone (MIBK)	250	256.1	102	60-137	
Methyl tert-butyl ether	50.0	47.68	95	72-133	
N-Propylbenzene	50.0	55.59	111	75-129	
Styrene	50.0	55.57	111	80-127	
1,1,2,2-Tetrachloroethane	50.0	50.25	101	69-131	
Tetrachloroethene	50.0	54.23	108	80-126	
Tetrahydrofuran	100	63.18	63	51-124	
Toluene	50.0	54.81	110	80-126	
trans-1,2-Dichloroethene	50.0	52.65	105	79-126	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 1119-03.D

Lab ID: LCS 490-123017/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	50.0	53.38	107	63-134	
1,2,4-Trichlorobenzene	50.0	51.62	103	63-133	
1,1,1-Trichloroethane	50.0	51.33	103	78-135	
1,1,2-Trichloroethane	50.0	49.91	100	80-124	
Trichloroethene	50.0	49.60	99	80-123	
Trichlorofluoromethane	50.0	55.30	111	65-124	
1,1,2-Trichloro-1,2,2-trichfluoroethane	50.0	51.48	103	77-129	
Vinyl chloride	50.0	52.63	105	68-120	
Xylenes, Total	100	106.3	106	80-132	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 1118-04.D

Lab ID: LCSD 490-122748/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	250	259.5	104	5	21	54-145	
Benzene	50.0	50.92	102	0	17	80-121	
Bromochloromethane	50.0	51.28	103	3	17	78-129	
Bromodichloromethane	50.0	53.55	107	4	18	75-129	
Bromoform	50.0	58.01	116	5	16	46-145	
Bromomethane	50.0	42.52	85	1	50	41-150	
2-Butanone (MEK)	250	254.7	102	9	19	62-133	
Carbon disulfide	50.0	57.72	115	0	21	77-126	
Carbon tetrachloride	50.0	51.15	102	1	19	64-147	
Chlorobenzene	50.0	60.85	122	2	14	80-120	*
Chlorodibromomethane	50.0	61.21	122	2	15	69-133	
Chloroethane	50.0	55.74	111	4	20	72-120	
Chloroform	50.0	52.00	104	2	18	73-129	
Chloromethane	50.0	35.52	71	10	31	12-150	
cis-1,2-Dichloroethene	50.0	59.35	119	3	17	76-125	
cis-1,3-Dichloropropene	50.0	59.74	119	3	15	74-140	
Cyclohexane	50.0	51.96	104	1	16	73-122	
1,2-Dibromo-3-Chloropropane	50.0	46.98	94	5	24	54-125	
1,2-Dibromoethane (EDB)	50.0	53.92	108	4	15	80-129	
1,2-Dichlorobenzene	50.0	52.96	106	2	15	80-121	
1,3-Dichlorobenzene	50.0	51.88	104	2	15	80-122	
1,4-Dichlorobenzene	50.0	57.20	114	1	15	80-120	
Dichlorodifluoromethane	50.0	53.98	108	0	18	37-127	
1,1-Dichloroethane	50.0	58.54	117	2	17	78-125	
1,2-Dichloroethane	50.0	51.67	103	4	17	77-121	
1,1-Dichloroethene	50.0	56.82	114	2	17	79-124	
1,2-Dichloropropane	50.0	56.63	113	3	17	75-120	
Ethylbenzene	50.0	56.72	113	1	15	80-130	
2-Hexanone	250	258.9	104	5	15	60-142	
Isopropylbenzene	50.0	57.66	115	2	16	80-141	
Methyl acetate	250	214.4	86	2	31	64-150	
Methylcyclohexane	50.0	50.66	101	3	19	71-129	
Methylene Chloride	50.0	56.31	113	3	17	79-123	
4-Methyl-2-pentanone (MIBK)	250	272.7	109	6	17	60-137	
Methyl tert-butyl ether	50.0	51.52	103	5	16	72-133	
N-Propylbenzene	50.0	55.04	110	1	17	75-129	
Styrene	50.0	58.58	117	1	24	80-127	
1,1,2,2-Tetrachloroethane	50.0	50.60	101	3	20	69-131	
Tetrachloroethene	50.0	59.35	119	1	16	80-126	
Tetrahydrofuran	100	75.58	76	19	18	51-124	*
Toluene	50.0	57.94	116	0	15	80-126	
trans-1,2-Dichloroethene	50.0	60.44	121	9	16	79-126	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 1118-04.D

Lab ID: LCSD 490-122748/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	50.0	56.67	113	5	14	63-134	
1,2,4-Trichlorobenzene	50.0	51.95	104	3	19	63-133	
1,1,1-Trichloroethane	50.0	53.78	108	3	17	78-135	
1,1,2-Trichloroethane	50.0	54.96	110	3	15	80-124	
Trichloroethene	50.0	50.93	102	0	17	80-123	
Trichlorofluoromethane	50.0	56.76	114	3	18	65-124	
1,1,2-Trichloro-1,2,2-trichfluoroethane	50.0	55.32	111	3	18	77-129	
Vinyl chloride	50.0	52.46	105	1	17	68-120	
Xylenes, Total	100	112.5	112	1	15	80-132	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 1119-04.D

Lab ID: LCSD 490-123017/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	250	235.8	94	8	21	54-145	
Benzene	50.0	48.11	96	2	17	80-121	
Bromochloromethane	50.0	48.26	97	2	17	78-129	
Bromodichloromethane	50.0	50.47	101	0	18	75-129	
Bromoform	50.0	52.90	106	0	16	46-145	
Bromomethane	50.0	46.24	92	3	50	41-150	
2-Butanone (MEK)	250	236.6	95	4	19	62-133	
Carbon disulfide	50.0	53.92	108	0	21	77-126	
Carbon tetrachloride	50.0	48.04	96	7	19	64-147	
Chlorobenzene	50.0	56.40	113	0	14	80-120	
Chlorodibromomethane	50.0	56.69	113	3	15	69-133	
Chloroethane	50.0	51.26	103	4	20	72-120	
Chloroform	50.0	49.46	99	1	18	73-129	
Chloromethane	50.0	33.42	67	2	31	12-150	
cis-1,2-Dichloroethene	50.0	55.35	111	1	17	76-125	
cis-1,3-Dichloropropene	50.0	56.42	113	1	15	74-140	
Cyclohexane	50.0	50.16	100	4	16	73-122	
1,2-Dibromo-3-Chloropropane	50.0	44.63	89	1	24	54-125	
1,2-Dibromoethane (EDB)	50.0	50.27	101	1	15	80-129	
1,2-Dichlorobenzene	50.0	50.22	100	3	15	80-121	
1,3-Dichlorobenzene	50.0	49.45	99	3	15	80-122	
1,4-Dichlorobenzene	50.0	55.12	110	2	15	80-120	
Dichlorodifluoromethane	50.0	52.31	105	5	18	37-127	
1,1-Dichloroethane	50.0	55.02	110	1	17	78-125	
1,2-Dichloroethane	50.0	47.52	95	3	17	77-121	
1,1-Dichloroethene	50.0	53.43	107	1	17	79-124	
1,2-Dichloropropane	50.0	53.04	106	2	17	75-120	
Ethylbenzene	50.0	52.08	104	1	15	80-130	
2-Hexanone	250	243.5	97	3	15	60-142	
Isopropylbenzene	50.0	52.23	104	2	16	80-141	
Methyl acetate	250	197.3	79	6	31	64-150	
Methylcyclohexane	50.0	48.93	98	2	19	71-129	
Methylene Chloride	50.0	51.47	103	0	17	79-123	
4-Methyl-2-pentanone (MIBK)	250	256.3	103	0	17	60-137	
Methyl tert-butyl ether	50.0	48.20	96	1	16	72-133	
N-Propylbenzene	50.0	53.46	107	4	17	75-129	
Styrene	50.0	53.68	107	3	24	80-127	
1,1,2,2-Tetrachloroethane	50.0	48.58	97	3	20	69-131	
Tetrachloroethene	50.0	56.34	113	4	16	80-126	
Tetrahydrofuran	100	71.53	72	12	18	51-124	
Toluene	50.0	53.95	108	2	15	80-126	
trans-1,2-Dichloroethene	50.0	52.48	105	0	16	79-126	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 1119-04.D

Lab ID: LCSD 490-123017/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	50.0	52.76	106	1	14	63-134	
1,2,4-Trichlorobenzene	50.0	50.27	101	3	19	63-133	
1,1,1-Trichloroethane	50.0	49.64	99	3	17	78-135	
1,1,2-Trichloroethane	50.0	51.28	103	3	15	80-124	
Trichloroethene	50.0	48.83	98	2	17	80-123	
Trichlorofluoromethane	50.0	53.33	107	4	18	65-124	
1,1,2-Trichloro-1,2,2-trichfluoroethane	50.0	50.62	101	2	18	77-129	
Vinyl chloride	50.0	50.98	102	3	17	68-120	
Xylenes, Total	100	103.6	104	3	15	80-132	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 1118-15.D

Lab ID: 490-39837-2 MS Client ID: MW-03B-GW-001 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acetone	250	ND	230.8	92	45-141	
Benzene	50.0	ND	53.71	107	75-133	
Bromochloromethane	50.0	ND	52.47	105	67-139	
Bromodichloromethane	50.0	ND	53.78	108	70-140	
Bromoform	50.0	ND	58.88	118	42-147	
Bromomethane	50.0	ND	41.83	84	16-163	
2-Butanone (MEK)	250	ND	233.6	93	50-138	
Carbon disulfide	50.0	ND	58.65	117	48-152	
Carbon tetrachloride	50.0	ND	58.68	117	62-164	
Chlorobenzene	50.0	ND	64.01	128	80-129	
Chlorodibromomethane	50.0	ND	63.40	127	66-140	
Chloroethane	50.0	ND	55.09	110	58-137	
Chloroform	50.0	ND	53.69	107	66-138	
Chloromethane	50.0	ND	35.98	72	10-169	
cis-1,2-Dichloroethene	50.0	38.1	92.23	108	68-138	
cis-1,3-Dichloropropene	50.0	ND	56.34	113	71-141	
Cyclohexane	50.0	ND	54.52	109	58-144	
1,2-Dibromo-3-Chloropropane	50.0	ND	43.55	87	52-126	
1,2-Dibromoethane (EDB)	50.0	ND	54.27	109	75-137	
1,2-Dichlorobenzene	50.0	ND	53.77	108	79-128	
1,3-Dichlorobenzene	50.0	ND	53.54	107	77-131	
1,4-Dichlorobenzene	50.0	ND	58.86	118	78-126	
Dichlorodifluoromethane	50.0	ND	56.97	114	40-127	
1,1-Dichloroethane	50.0	ND	61.43	123	71-139	
1,2-Dichloroethane	50.0	ND	54.09	108	64-136	
1,1-Dichloroethene	50.0	ND	61.88	124	70-142	
1,2-Dichloropropane	50.0	ND	57.63	115	67-131	
Ethylbenzene	50.0	ND	59.81	120	79-139	
2-Hexanone	250	ND	236.8	95	50-150	
Isopropylbenzene	50.0	ND	61.36	123	80-153	
Methyl acetate	250	ND	212.1	85	30-165	
Methylcyclohexane	50.0	ND	52.67	105	59-151	
Methylene Chloride	50.0	ND	54.27	109	64-139	
4-Methyl-2-pentanone (MIBK)	250	ND	242.7	97	50-147	
Methyl tert-butyl ether	50.0	ND	48.02	96	66-141	
N-Propylbenzene	50.0	ND	57.00	114	69-142	
Styrene	50.0	ND	62.15	124	61-148	
1,1,2,2-Tetrachloroethane	50.0	ND	50.50	101	56-143	
Tetrachloroethene	50.0	ND	64.35	129	72-145	
Tetrahydrofuran	100	ND	93.31	93	34-133	
Toluene	50.0	ND	60.87	122	75-136	
trans-1,2-Dichloroethene	50.0	1.32	60.22	118	66-143	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 1118-15.D

Lab ID: 490-39837-2 MS Client ID: MW-03B-GW-001 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	50.0	ND	54.64	109	59-135	
1,2,4-Trichlorobenzene	50.0	ND	50.01	100	60-136	
1,1,1-Trichloroethane	50.0	ND	57.08	114	76-149	
1,1,2-Trichloroethane	50.0	ND	55.78	112	74-134	
Trichloroethene	50.0	ND	54.75	109	73-144	
Trichlorofluoromethane	50.0	ND	61.41	123	58-139	
1,1,2-Trichloro-1,2,2-trichfluoroethane	50.0	ND	59.46	119	72-148	
Vinyl chloride	50.0	640	630.4	-20	56-129	E 4
Xylenes, Total	100	ND	117.3	117	74-141	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Matrix: Water (TCLP) Level: Low Lab File ID: 1119-22.D

Lab ID: 490-40571-A-1-A MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acetone	2500	ND	2269	91	45-141	
Benzene	500	ND	493.1	99	75-133	
Bromochloromethane	500	ND	529.3	106	67-139	
Bromodichloromethane	500	ND	499.9	100	70-140	
Bromoform	500	ND	561.0	112	42-147	
Bromomethane	500	ND	446.8	89	16-163	
2-Butanone (MEK)	2500	ND	2195	88	50-138	
Carbon disulfide	500	ND	576.1	115	48-152	
Carbon tetrachloride	500	ND	553.3	111	62-164	
Chlorobenzene	500	ND	602.1	120	80-129	
Chlorodibromomethane	500	ND	591.2	118	66-140	
Chloroethane	500	ND	588.8	118	58-137	
Chloroform	500	2.64 J	551.8	110	66-138	
Chloromethane	500	ND	396.5	79	10-169	
cis-1,2-Dichloroethene	500	ND	548.1	110	68-138	
cis-1,3-Dichloropropene	500	ND	560.6	112	71-141	
Cyclohexane	500	ND	530.5	106	58-144	
1,2-Dibromo-3-Chloropropane	500	ND	395.7	79	52-126	
1,2-Dibromoethane (EDB)	500	ND	505.7	101	75-137	
1,2-Dichlorobenzene	500	ND	502.7	101	79-128	
1,3-Dichlorobenzene	500	ND	496.7	99	77-131	
1,4-Dichlorobenzene	500	ND	548.6	110	78-126	
Dichlorodifluoromethane	500	ND	613.1	123	40-127	
1,1-Dichloroethane	500	ND	559.4	112	71-139	
1,2-Dichloroethane	500	ND	490.5	98	64-136	
1,1-Dichloroethene	500	ND	570.3	114	70-142	
1,2-Dichloropropane	500	ND	513.2	103	67-131	
Ethylbenzene	500	ND	562.6	113	79-139	
2-Hexanone	2500	ND	2337	93	50-150	
Isopropylbenzene	500	ND	580.0	116	80-153	
Methyl acetate	2500	ND	1947	78	30-165	
Methylcyclohexane	500	ND	479.7	96	59-151	
Methylene Chloride	500	39.5 J	551.3	102	64-139	
4-Methyl-2-pentanone (MIBK)	2500	ND	2478	99	50-147	
Methyl tert-butyl ether	500	ND	447.3	89	66-141	
N-Propylbenzene	500	ND	519.5	104	69-142	
Styrene	500	ND	585.0	117	61-148	
1,1,2,2-Tetrachloroethane	500	ND	460.4	92	56-143	
Tetrachloroethene	500	4.06 J	603.4	120	72-145	
Tetrahydrofuran	1000	ND	682.3	68	34-133	
Toluene	500	ND	573.9	115	75-136	
trans-1,2-Dichloroethene	500	ND	574.5	115	66-143	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Matrix: Water (TCLP) Level: Low Lab File ID: 1119-22.D

Lab ID: 490-40571-A-1-A MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	500	ND	538.3	108	59-135	
1,2,4-Trichlorobenzene	500	ND	456.4	91	60-136	
1,1,1-Trichloroethane	500	ND	557.3	111	76-149	
1,1,2-Trichloroethane	500	ND	536.0	107	74-134	
Trichloroethene	500	ND	503.3	101	73-144	
Trichlorofluoromethane	500	ND	616.6	123	58-139	
1,1,2-Trichloro-1,2,2-trichfluoroethane	500	ND	563.6	113	72-148	
Vinyl chloride	500	ND	560.7	112	56-129	
Xylenes, Total	1000	ND	1103	110	74-141	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 1118-16.D

Lab ID: 490-39837-2 MSD Client ID: MW-03B-GW-001 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	250	217.2	87	6	21	45-141	
Benzene	50.0	48.97	98	9	17	75-133	
Bromochloromethane	50.0	47.94	96	9	17	67-139	
Bromodichloromethane	50.0	49.90	100	7	18	70-140	
Bromoform	50.0	52.58	105	11	16	42-147	
Bromomethane	50.0	44.84	90	7	50	16-163	
2-Butanone (MEK)	250	225.5	90	4	19	50-138	
Carbon disulfide	50.0	54.72	109	7	21	48-152	
Carbon tetrachloride	50.0	52.46	105	11	19	62-164	
Chlorobenzene	50.0	57.32	115	11	14	80-129	
Chlorodibromomethane	50.0	57.00	114	11	15	66-140	
Chloroethane	50.0	55.60	111	1	20	58-137	
Chloroform	50.0	49.42	99	8	18	66-138	
Chloromethane	50.0	34.39	69	5	31	10-169	
cis-1,2-Dichloroethene	50.0	90.60	105	2	17	68-138	
cis-1,3-Dichloropropene	50.0	52.30	105	7	15	71-141	
Cyclohexane	50.0	51.19	102	6	16	58-144	
1,2-Dibromo-3-Chloropropane	50.0	40.80	82	7	24	52-126	
1,2-Dibromoethane (EDB)	50.0	48.83	98	11	15	75-137	
1,2-Dichlorobenzene	50.0	50.06	100	7	15	79-128	
1,3-Dichlorobenzene	50.0	49.48	99	8	15	77-131	
1,4-Dichlorobenzene	50.0	54.21	108	8	15	78-126	
Dichlorodifluoromethane	50.0	55.12	110	3	18	40-127	
1,1-Dichloroethane	50.0	56.18	112	9	17	71-139	
1,2-Dichloroethane	50.0	48.46	97	11	17	64-136	
1,1-Dichloroethene	50.0	54.68	109	12	17	70-142	
1,2-Dichloropropane	50.0	52.31	105	10	17	67-131	
Ethylbenzene	50.0	53.68	107	11	15	79-139	
2-Hexanone	250	216.1	86	9	15	50-150	
Isopropylbenzene	50.0	54.73	109	11	16	80-153	
Methyl acetate	250	205.1	82	3	31	30-165	
Methylcyclohexane	50.0	48.80	98	8	19	59-151	
Methylene Chloride	50.0	51.99	104	4	17	64-139	
4-Methyl-2-pentanone (MIBK)	250	226.3	91	7	17	50-147	
Methyl tert-butyl ether	50.0	45.93	92	4	16	66-141	
N-Propylbenzene	50.0	53.12	106	7	17	69-142	
Styrene	50.0	55.23	110	12	24	61-148	
1,1,2,2-Tetrachloroethane	50.0	46.60	93	8	20	56-143	
Tetrachloroethene	50.0	58.11	116	10	16	72-145	
Tetrahydrofuran	100	87.57	88	6	18	34-133	
Toluene	50.0	55.18	110	10	15	75-136	
trans-1,2-Dichloroethene	50.0	55.45	108	8	16	66-143	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 1118-16.D

Lab ID: 490-39837-2 MSD Client ID: MW-03B-GW-001 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	50.0	50.16	100	9	14	59-135	
1,2,4-Trichlorobenzene	50.0	47.66	95	5	19	60-136	
1,1,1-Trichloroethane	50.0	52.46	105	8	17	76-149	
1,1,2-Trichloroethane	50.0	50.37	101	10	15	74-134	
Trichloroethene	50.0	49.61	99	10	17	73-144	
Trichlorofluoromethane	50.0	57.38	115	7	18	58-139	
1,1,2-Trichloro-1,2,2-trichfluoroethane	50.0	55.36	111	7	18	72-148	
Vinyl chloride	50.0	623.0	-34	1	17	56-129	E 4
Xylenes, Total	100	105.2	105	11	15	74-141	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Matrix: Water (TCLP) Level: Low Lab File ID: 1119-23.D

Lab ID: 490-40571-A-1-A MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	2500	2169	87	5	21	45-141	
Benzene	500	504.2	101	2	17	75-133	
Bromochloromethane	500	504.3	101	5	17	67-139	
Bromodichloromethane	500	484.6	97	3	18	70-140	
Bromoform	500	544.6	109	3	16	42-147	
Bromomethane	500	503.8	101	12	50	16-163	
2-Butanone (MEK)	2500	2210	88	1	19	50-138	
Carbon disulfide	500	534.7	107	7	21	48-152	
Carbon tetrachloride	500	521.7	104	6	19	62-164	
Chlorobenzene	500	595.4	119	1	14	80-129	
Chlorodibromomethane	500	583.4	117	1	15	66-140	
Chloroethane	500	590.7	118	0	20	58-137	
Chloroform	500	509.9	101	8	18	66-138	
Chloromethane	500	415.1	83	5	31	10-169	
cis-1,2-Dichloroethene	500	563.9	113	3	17	68-138	
cis-1,3-Dichloropropene	500	555.0	111	1	15	71-141	
Cyclohexane	500	521.0	104	2	16	58-144	
1,2-Dibromo-3-Chloropropane	500	401.8	80	2	24	52-126	
1,2-Dibromoethane (EDB)	500	494.7	99	2	15	75-137	
1,2-Dichlorobenzene	500	507.2	101	1	15	79-128	
1,3-Dichlorobenzene	500	503.2	101	1	15	77-131	
1,4-Dichlorobenzene	500	552.2	110	1	15	78-126	
Dichlorodifluoromethane	500	598.1	120	2	18	40-127	
1,1-Dichloroethane	500	574.4	115	3	17	71-139	
1,2-Dichloroethane	500	499.6	100	2	17	64-136	
1,1-Dichloroethene	500	553.3	111	3	17	70-142	
1,2-Dichloropropane	500	507.1	101	1	17	67-131	
Ethylbenzene	500	551.6	110	2	15	79-139	
2-Hexanone	2500	2256	90	4	15	50-150	
Isopropylbenzene	500	568.7	114	2	16	80-153	
Methyl acetate	2500	1862	74	4	31	30-165	
Methylcyclohexane	500	479.3	96	0	19	59-151	
Methylene Chloride	500	544.1	101	1	17	64-139	
4-Methyl-2-pentanone (MIBK)	2500	2411	96	3	17	50-147	
Methyl tert-butyl ether	500	446.2	89	0	16	66-141	
N-Propylbenzene	500	533.0	107	3	17	69-142	
Styrene	500	573.4	115	2	24	61-148	
1,1,2,2-Tetrachloroethane	500	463.1	93	1	20	56-143	
Tetrachloroethene	500	599.5	119	1	16	72-145	
Tetrahydrofuran	1000	864.6	86	24	18	34-133	F
Toluene	500	564.3	113	2	15	75-136	
trans-1,2-Dichloroethene	500	563.3	113	2	16	66-143	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Matrix: Water (TCLP) Level: Low Lab File ID: 1119-23.D

Lab ID: 490-40571-A-1-A MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	500	532.6	107	1	14	59-135	
1,2,4-Trichlorobenzene	500	478.0	96	5	19	60-136	
1,1,1-Trichloroethane	500	539.1	108	3	17	76-149	
1,1,2-Trichloroethane	500	508.1	102	5	15	74-134	
Trichloroethene	500	485.2	97	4	17	73-144	
Trichlorofluoromethane	500	601.1	120	3	18	58-139	
1,1,2-Trichloro-1,2,2-trichfluoroethane	500	547.9	110	3	18	72-148	
Vinyl chloride	500	563.5	113	0	17	56-129	
Xylenes, Total	1000	1088	109	1	15	74-141	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Lab File ID: 1118-07.D Lab Sample ID: MB 490-122748/7

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP35 Date Analyzed: 11/18/2013 13:41

GC Column: ZB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 490-122748/3	1118-03.D	11/18/2013 11:38
	LCSD 490-122748/4	1118-04.D	11/18/2013 12:08
Field Blank	490-39837-7	1118-08.D	11/18/2013 14:11
Equipment Blank	490-39837-9	1118-09.D	11/18/2013 14:42
Trip Blank	490-39837-11	1118-10.D	11/18/2013 15:13
MW-03A-GW-001	490-39837-1	1118-11.D	11/18/2013 15:44
MW-03B-GW-001	490-39837-2	1118-12.D	11/18/2013 16:15
MW-03B-GW-002	490-39837-4	1118-13.D	11/18/2013 16:45
MW-05-GW-001	490-39837-6	1118-14.D	11/18/2013 17:16
MW-03B-GW-001 MS	490-39837-2 MS	1118-15.D	11/18/2013 17:47
MW-03B-GW-001 MSD	490-39837-2 MSD	1118-16.D	11/18/2013 18:17

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Lab File ID: 1119-07.D Lab Sample ID: MB 490-123017/7

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP35 Date Analyzed: 11/19/2013 14:42

GC Column: ZB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
MW-03B-GW-001	490-39837-2	1119-09.D	11/19/2013 16:04
MW-03B-GW-002	490-39837-4	1119-10.D	11/19/2013 16:34
	490-40571-A-1-A MS	1119-22.D	11/19/2013 23:00
	490-40571-A-1-A MSD	1119-23.D	11/19/2013 23:31

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Lab File ID: 1001-10.D BFB Injection Date: 10/01/2013

Instrument ID: HP35 BFB Injection Time: 15:51

Analysis Batch No.: 110993

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.1	
75	30.0 - 60.0 % of mass 95	49.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	98.6	
175	5.0 - 9.0 % of mass 174	7.6	(7.7)1
176	95.0 - 101.0 % of mass 174	95.1	(96.5)1
177	5.0 - 9.0 % of mass 176	6.2	(6.6)2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD 490-110993/12	1001-12.D	10/01/2013	19:38
	STD 490-110993/13	1001-13.D	10/01/2013	20:09
	STD 490-110993/14	1001-14.D	10/01/2013	20:40
	STD 490-110993/15	1001-15.D	10/01/2013	21:11
	STD 490-110993/16	1001-16.D	10/01/2013	21:41
	STD 490-110993/17	1001-17.D	10/01/2013	22:12
	ICIS 490-110993/18	1001-18.D	10/01/2013	22:43
	STD 490-110993/19	1001-19.D	10/01/2013	23:14
	STD 490-110993/20	1001-20.D	10/01/2013	23:45
	STD 490-110993/21	1001-21.D	10/02/2013	00:15
	ICV 490-110993/25	1001-25.D	10/02/2013	02:18

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Lab File ID: 1114-01.D BFB Injection Date: 11/14/2013

Instrument ID: HP35 BFB Injection Time: 13:43

Analysis Batch No.: 121964

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.5	
75	30.0 - 60.0 % of mass 95	48.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	96.5	
175	5.0 - 9.0 % of mass 174	7.2	(7.5)1
176	95.0 - 101.0 % of mass 174	93.2	(96.6)1
177	5.0 - 9.0 % of mass 176	6.2	(6.7)2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD 490-121964/3	1114-03.D	11/14/2013	14:57
	STD 490-121964/4	1114-04.D	11/14/2013	15:28
	STD 490-121964/5	1114-05.D	11/14/2013	15:59
	STD 490-121964/6	1114-06.D	11/14/2013	16:30
	STD 490-121964/7	1114-07.D	11/14/2013	17:00
	STD 490-121964/8	1114-08.D	11/14/2013	17:31
	ICIS 490-121964/9	1114-09.D	11/14/2013	18:02
	STD 490-121964/10	1114-10.D	11/14/2013	18:38
	STD 490-121964/11	1114-11.D	11/14/2013	19:08

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Lab File ID: 1114-15.D BFB Injection Date: 11/15/2013

Instrument ID: HP35 BFB Injection Time: 09:57

Analysis Batch No.: 121964

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.3	
75	30.0 - 60.0 % of mass 95	48.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	96.1	
175	5.0 - 9.0 % of mass 174	7.6	(7.9)1
176	95.0 - 101.0 % of mass 174	93.1	(96.9)1
177	5.0 - 9.0 % of mass 176	6.1	(6.6)2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICV 490-121964/14	1114-14a.D	11/15/2013	10:42

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Lab File ID: 1118-01.D BFB Injection Date: 11/18/2013

Instrument ID: HP35 BFB Injection Time: 10:32

Analysis Batch No.: 122748

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.2	
75	30.0 - 60.0 % of mass 95	46.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	103.6	
175	5.0 - 9.0 % of mass 174	7.7	(7.4)1
176	95.0 - 101.0 % of mass 174	99.4	(95.9)1
177	5.0 - 9.0 % of mass 176	6.3	(6.4)2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-122748/2	1118-02.D	11/18/2013	11:07
	LCS 490-122748/3	1118-03.D	11/18/2013	11:38
	LCSD 490-122748/4	1118-04.D	11/18/2013	12:08
	MB 490-122748/7	1118-07.D	11/18/2013	13:41
Field Blank	490-39837-7	1118-08.D	11/18/2013	14:11
Equipment Blank	490-39837-9	1118-09.D	11/18/2013	14:42
Trip Blank	490-39837-11	1118-10.D	11/18/2013	15:13
MW-03A-GW-001	490-39837-1	1118-11.D	11/18/2013	15:44
MW-03B-GW-001	490-39837-2	1118-12.D	11/18/2013	16:15
MW-03B-GW-002	490-39837-4	1118-13.D	11/18/2013	16:45
MW-05-GW-001	490-39837-6	1118-14.D	11/18/2013	17:16
MW-03B-GW-001 MS	490-39837-2 MS	1118-15.D	11/18/2013	17:47
MW-03B-GW-001 MSD	490-39837-2 MSD	1118-16.D	11/18/2013	18:17

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Lab File ID: 1119-01.D BFB Injection Date: 11/19/2013

Instrument ID: HP35 BFB Injection Time: 11:11

Analysis Batch No.: 123017

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.5	
75	30.0 - 60.0 % of mass 95	46.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	100.4	
175	5.0 - 9.0 % of mass 174	7.4	(7.4)1
176	95.0 - 101.0 % of mass 174	96.5	(96.1)1
177	5.0 - 9.0 % of mass 176	6.5	(6.8)2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-123017/2	1119-02.D	11/19/2013	11:47
	LCS 490-123017/3	1119-03.D	11/19/2013	12:17
	LCSD 490-123017/4	1119-04.D	11/19/2013	12:48
	MB 490-123017/7	1119-07.D	11/19/2013	14:42
MW-03B-GW-001	490-39837-2	1119-09.D	11/19/2013	16:04
MW-03B-GW-002	490-39837-4	1119-10.D	11/19/2013	16:34
	490-40571-A-1-A MS	1119-22.D	11/19/2013	23:00
	490-40571-A-1-A MSD	1119-23.D	11/19/2013	23:31

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Sample No.: ICIS 490-110993/18 Date Analyzed: 10/01/2013 22:43

Instrument ID: HP35 GC Column: ZB-624 ID: 0.18(mm)

Lab File ID (Standard): 1001-18.D Heated Purge: (Y/N) N

Calibration ID: 19385

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		994360	4.15	788475	6.53	482914	8.68
UPPER LIMIT		1988720	4.65	1576950	7.03	965828	9.18
LOWER LIMIT		497180	3.65	394238	6.03	241457	8.18
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 490-110993/25		911226	4.15	719862	6.53	431489	8.68
CCVIS 490-123017/2		1056297	4.15	757717	6.53	427382	8.68

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Sample No.: ICIS 490-121964/9 Date Analyzed: 11/14/2013 18:02

Instrument ID: HP35 GC Column: ZB-624 ID: 0.18(mm)

Lab File ID (Standard): 1114-09.D Heated Purge: (Y/N) N

Calibration ID: 20571

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		837793	4.15	596966	6.53	376173	8.68
UPPER LIMIT		1675586	4.65	1193932	7.03	752346	9.18
LOWER LIMIT		418897	3.65	298483	6.03	188087	8.18
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 490-121964/14		892653	4.15	618195	6.53	371589	8.68
CCVIS 490-122748/2		853430	4.14	607886	6.53	389699	8.68

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Sample No.: CCVIS 490-122748/2 Date Analyzed: 11/18/2013 11:07

Instrument ID: HP35 GC Column: ZB-624 ID: 0.18(mm)

Lab File ID (Standard): 1118-02.D Heated Purge: (Y/N) N

Calibration ID: 20571

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		853430	4.14	607886	6.53	389699	8.68
UPPER LIMIT		1706860	4.64	1215772	7.03	779398	9.18
LOWER LIMIT		426715	3.64	303943	6.03	194850	8.18
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 490-122748/3		897824	4.14	630349	6.52	391365	8.68
LCSD 490-122748/4		868439	4.14	614555	6.53	382330	8.68
MB 490-122748/7		828805	4.14	537848	6.53	282295	8.68
490-39837-7	Field Blank	822543	4.14	525851	6.53	280133	8.68
490-39837-9	Equipment Blank	804332	4.14	518589	6.53	268473	8.68
490-39837-11	Trip Blank	806511	4.14	508600	6.53	267384	8.68
490-39837-1	MW-03A-GW-001	811129	4.14	518780	6.53	272389	8.68
490-39837-2	MW-03B-GW-001	774180	4.14	494573	6.53	257847	8.68
490-39837-4	MW-03B-GW-002	799866	4.14	524060	6.53	268092	8.68
490-39837-6	MW-05-GW-001	792807	4.14	520446	6.53	265068	8.68
490-39837-2 MS	MW-03B-GW-001 MS	817374	4.14	576749	6.53	375193	8.68
490-39837-2 MSD	MW-03B-GW-001 MSD	846863	4.14	598306	6.53	370717	8.68

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Sample No.: CCVIS 490-123017/2 Date Analyzed: 11/19/2013 11:47

Instrument ID: HP35 GC Column: ZB-624 ID: 0.18(mm)

Lab File ID (Standard): 1119-02.D Heated Purge: (Y/N) N

Calibration ID: 20571

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1056297	4.15	757717	6.53	427382	8.68
UPPER LIMIT		2112594	4.65	1515434	7.03	854764	9.18
LOWER LIMIT		528149	3.65	378859	6.03	213691	8.18
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 490-123017/3		1026228	4.14	753617	6.53	422424	8.68
LCSD 490-123017/4		1013145	4.15	736670	6.53	425813	8.68
MB 490-123017/7		904720	4.14	619813	6.53	314560	8.68
490-39837-2	MW-03B-GW-001	839345	4.15	560043	6.53	294157	8.68
490-39837-4	MW-03B-GW-002	788758	4.14	538855	6.53	284843	8.68
490-40571-A-1-A MS		775670	4.14	542040	6.53	365575	8.68
490-40571-A-1-A MSD		820143	4.15	561370	6.53	357968	8.68

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: MW-03A-GW-001 | Lab Sample ID: 490-39837-1

Matrix: Water | Lab File ID: 1118-11.D

Analysis Method: 8260B | Date Collected: 11/07/2013 09:35

Sample wt/vol: 10(mL) | Date Analyzed: 11/18/2013 15:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122748 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND	*	1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	ND		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: MW-03A-GW-001 | Lab Sample ID: 490-39837-1

Matrix: Water | Lab File ID: 1118-11.D

Analysis Method: 8260B | Date Collected: 11/07/2013 09:35

Sample wt/vol: 10(mL) | Date Analyzed: 11/18/2013 15:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122748 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND	*	5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND		1.00	0.200
75-69-4	Trichlorofluoromethane	ND		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		1.00	0.330
75-01-4	Vinyl chloride	ND		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		70-130
1868-53-7	Dibromofluoromethane (Surr)	102		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-130
2037-26-5	Toluene-d8 (Surr)	118		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-11.D
Lims ID: 490-39837-A-1 Lab Sample ID: 490-39837-1
Client ID: MW-03A-GW-001
Sample Type: Client
Inject. Date: 18-Nov-2013 15:44:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: 490-39837-A-1
Misc. Info.: 490-0028621-011
Operator ID: MJH HP35 Instrument ID: HP35

Method: \\Nvlchrom\ChromData\HP35\20131118-28621.b\8260HP35.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 19-Nov-2013 18:25:34 Calib Date: 02-Oct-2013 00:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D

Column 1 : Detector MS SCAN
Process Host: XAWRK006

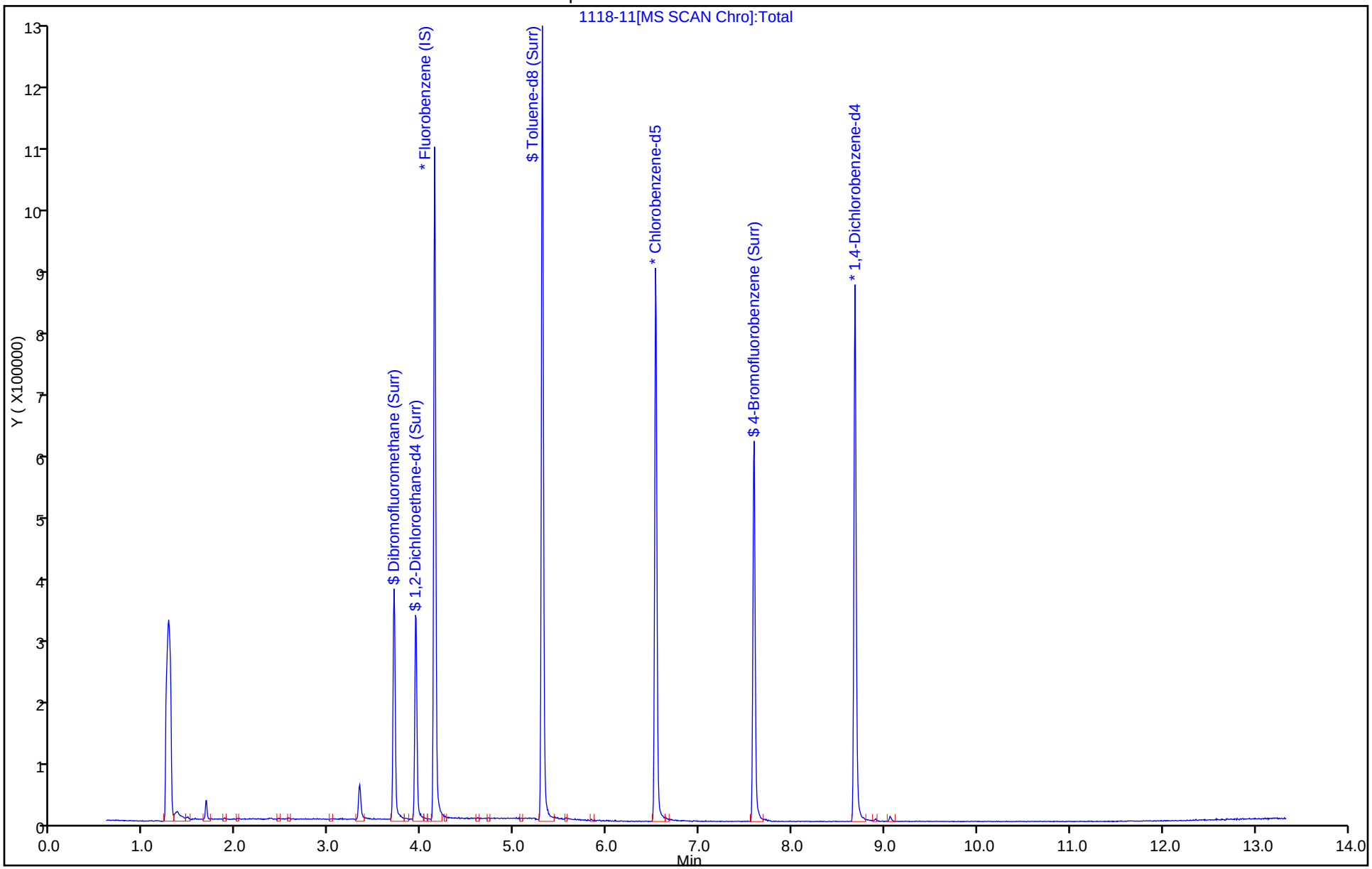
First Level Reviewer: himelickm Date: 19-Nov-2013 18:25:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.142	4.138	0.004	98	811129	25.0	
* 2 Chlorobenzene-d5	117	6.527	6.529	-0.002	83	518780	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.680	8.676	0.004	93	272389	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.704	3.700	0.004	58	195291	25.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.935	3.937	-0.002	91	193630	25.4	
$ 6 Toluene-d8 (Surr)	98	5.304	5.306	-0.002	84	775808	29.5	
$ 7 4-Bromofluorobenzene (Surr)	95	7.591	7.587	0.004	96	207581	23.1	

Report Date: 19-Nov-2013 18:25:34 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-11.D				
Injection Date:	18-Nov-2013 15:44:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	490-39837-A-1	Lab Sample ID:	490-39837-1	Worklist Smp#:	11
Client ID:	MW-03A-GW-001				
Purge Vol:	10.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260HP35	Limit Group:	MSV 8260B ICAL		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: MW-03B-GW-001 | Lab Sample ID: 490-39837-2

Matrix: Water | Lab File ID: 1118-12.D

Analysis Method: 8260B | Date Collected: 11/07/2013 13:19

Sample wt/vol: 10(mL) | Date Analyzed: 11/18/2013 16:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122748 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND	*	1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	38.1		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: MW-03B-GW-001 | Lab Sample ID: 490-39837-2

Matrix: Water | Lab File ID: 1118-12.D

Analysis Method: 8260B | Date Collected: 11/07/2013 13:19

Sample wt/vol: 10(mL) | Date Analyzed: 11/18/2013 16:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122748 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND	*	5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	1.32		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND		1.00	0.200
75-69-4	Trichlorofluoromethane	ND		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		1.00	0.330
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		70-130
1868-53-7	Dibromofluoromethane (Surr)	106		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-130
2037-26-5	Toluene-d8 (Surr)	120		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-12.D
Lims ID: 490-39837-A-2 Lab Sample ID: 490-39837-2
Client ID: MW-03B-GW-001
Sample Type: Client
Inject. Date: 18-Nov-2013 16:15:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: 490-39837-A-2
Misc. Info.: 490-0028621-012
Operator ID: MJH HP35 Instrument ID: HP35

Method: \\Nvlchrom\ChromData\HP35\20131118-28621.b\8260HP35.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 19-Nov-2013 18:26:39 Calib Date: 02-Oct-2013 00:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D

Column 1 : Detector MS SCAN
Process Host: XAWRK006

First Level Reviewer: himelickm Date: 19-Nov-2013 18:26:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.142	4.138	0.004	98	774180	25.0	
* 2 Chlorobenzene-d5	117	6.527	6.529	-0.002	83	494573	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.681	8.676	0.005	93	257847	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.704	3.700	0.004	66	193072	26.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.936	3.937	-0.001	91	191955	26.4	
$ 6 Toluene-d8 (Surr)	98	5.304	5.306	-0.002	92	751180	29.9	
$ 7 4-Bromofluorobenzene (Surr)	95	7.586	7.587	-0.001	96	196839	23.2	
11 Vinyl chloride	62	1.575	1.577	-0.002	78	5326231	640.2	E
33 trans-1,2-Dichloroethene	61	2.761	2.757	0.004	85	16199	1.32	
43 cis-1,2-Dichloroethene	61	3.388	3.390	-0.002	69	446208	38.1	
85 1-Chlorohexane	91	6.527	6.525	0.002	1	212	0	
S 132 1,2-Dichloroethene, Total	1				0		39.4	

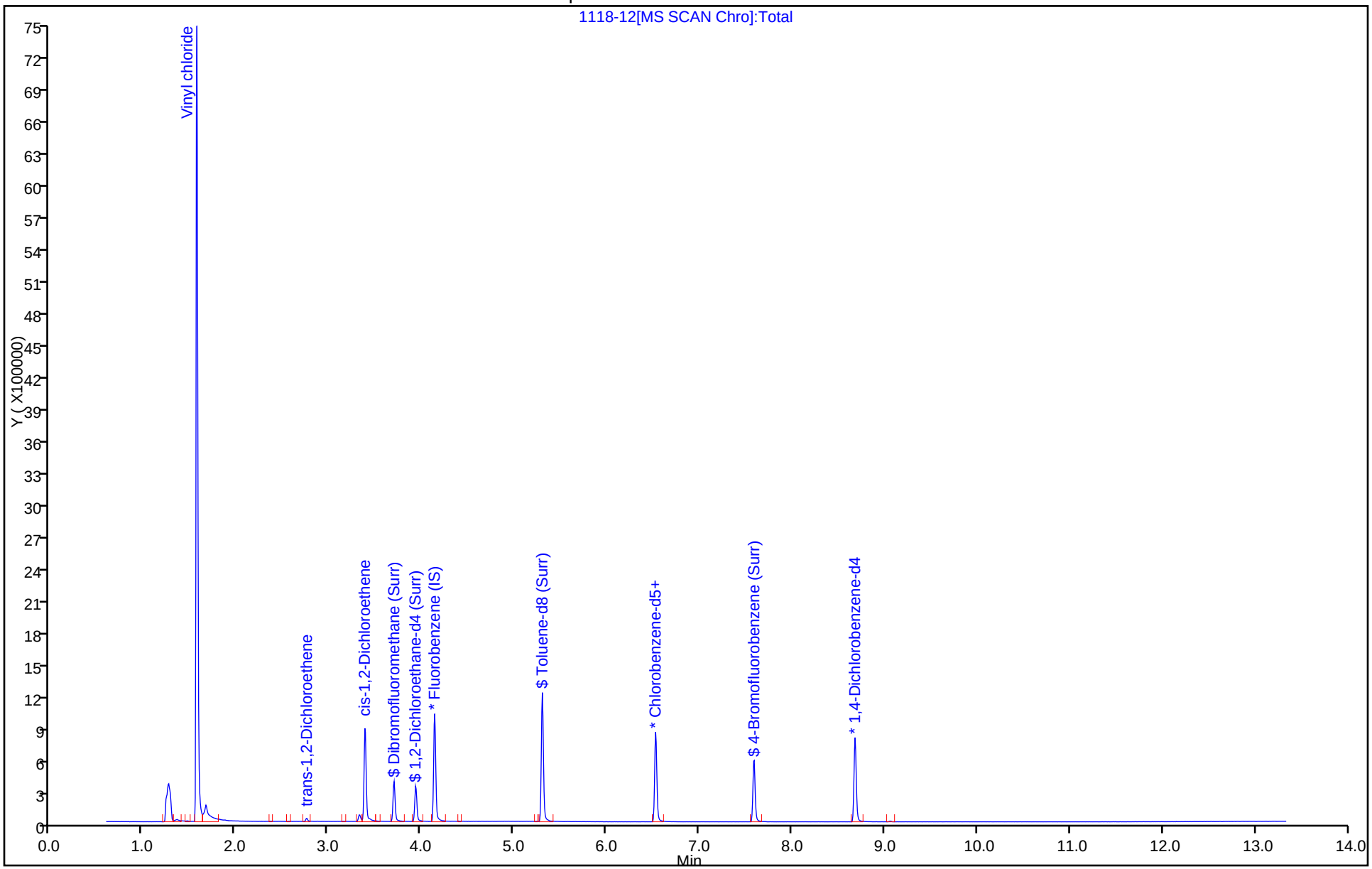
QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

Report Date: 19-Nov-2013 18:26:40 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-12.D				
Injection Date:	18-Nov-2013 16:15:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	490-39837-A-2	Lab Sample ID:	490-39837-2	Worklist Smp#:	12
Client ID:	MW-03B-GW-001				
Purge Vol:	10.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8260HP35	Limit Group:	MSV 8260B ICAL		



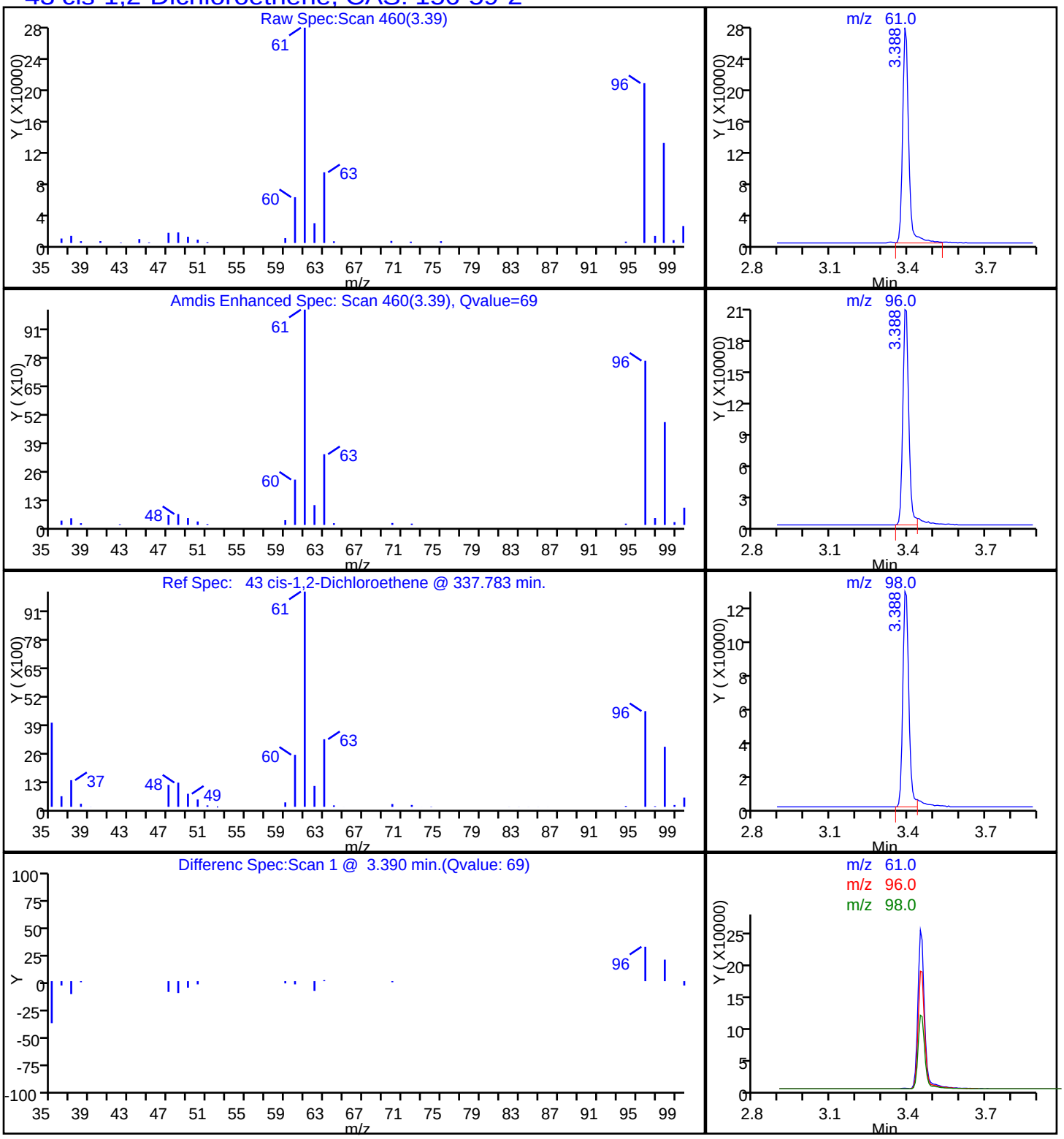
Report Date: 19-Nov-2013 18:26:40 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-12.D

Injection Date:	18-Nov-2013 16:15:30	Instrument ID:	HP35
Lims ID:	490-39837-A-2	Lab Sample ID:	490-39837-2
Client ID:	MW-03B-GW-001		
Operator ID:	MJH HP35	ALS Bottle#:	12 Worklist Smp#: 12
Purge Vol:	10.000 mL	Dil. Factor:	1.0000
Method:	8260HP35	Limit Group:	MSV 8260B ICAL
Column:		Detector	MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2



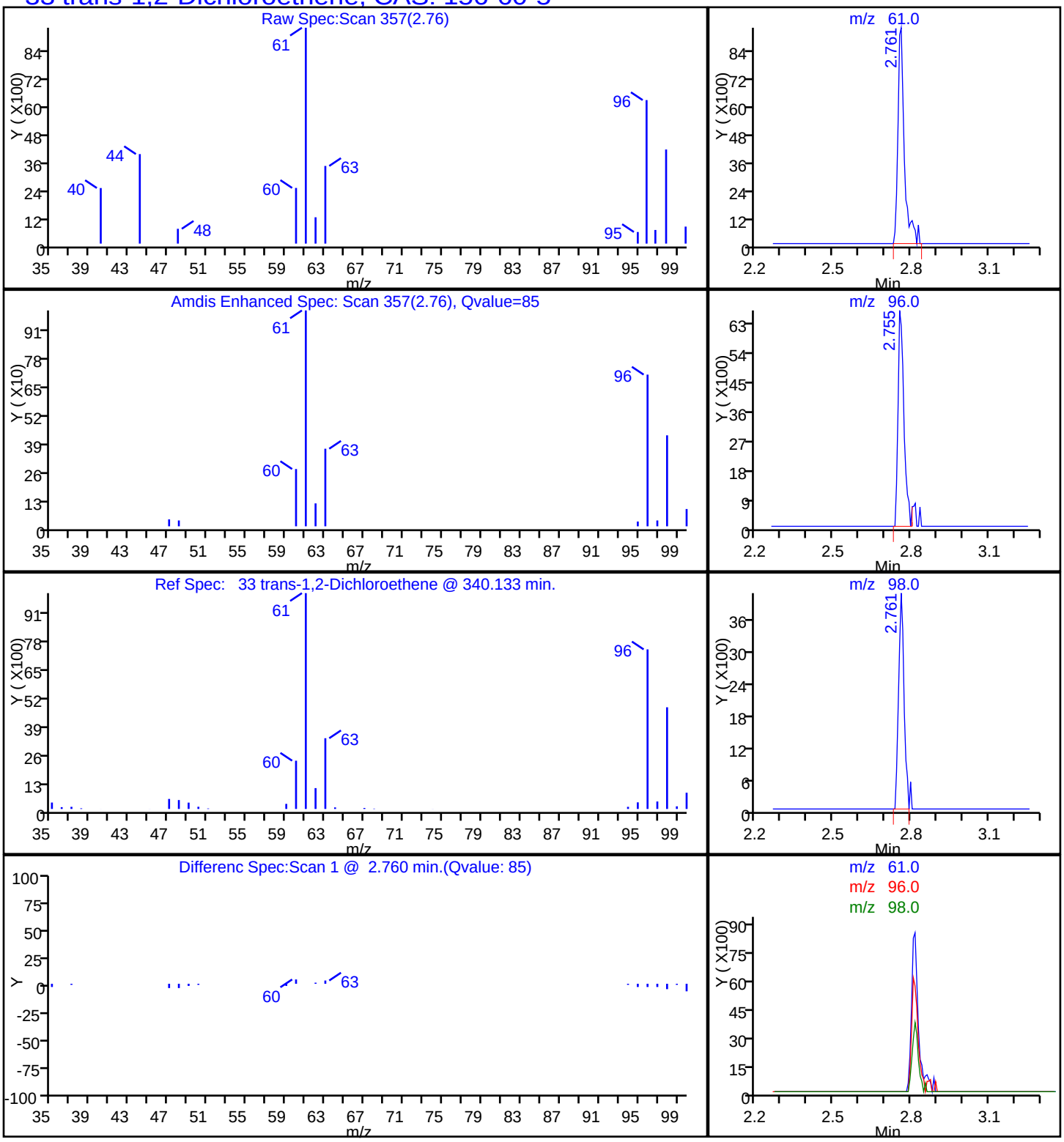
Report Date: 19-Nov-2013 18:26:40 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-12.D

Injection Date:	18-Nov-2013 16:15:30	Instrument ID:	HP35
Lims ID:	490-39837-A-2	Lab Sample ID:	490-39837-2
Client ID:	MW-03B-GW-001		
Operator ID:	MJH HP35	ALS Bottle#:	12 Worklist Smp#: 12
Purge Vol:	10.000 mL	Dil. Factor:	1.0000
Method:	8260HP35	Limit Group:	MSV 8260B ICAL
Column:		Detector	MS SCAN

33 trans-1,2-Dichloroethene, CAS: 156-60-5



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: MW-03B-GW-001 | Lab Sample ID: 490-39837-2

Matrix: Water | Lab File ID: 1119-09.D

Analysis Method: 8260B | Date Collected: 11/07/2013 13:19

Sample wt/vol: 10(mL) | Date Analyzed: 11/19/2013 16:04

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 123017 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	798		10.0	1.80

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-130
2037-26-5	Toluene-d8 (Surr)	119		70-130

Report Date: 20-Nov-2013 10:05:16 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131119-28678.b\1119-09.D
Lims ID: 490-39837-B-2 Lab Sample ID: 490-39837-2
Client ID: MW-03B-GW-001
Sample Type: Client
Inject. Date: 19-Nov-2013 16:04:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 10.000 mL Dil. Factor: 10.0000
Sample Info: 490-39837-B-2
Misc. Info.: 490-0028678-009
Operator ID: MJH HP35 Instrument ID: HP35

Method: \\Nvlchrom\ChromData\HP35\20131119-28678.b\8260HP35.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 20-Nov-2013 10:04:29 Calib Date: 02-Oct-2013 00:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D

Column 1 : Detector MS SCAN
Process Host: XAWRK040

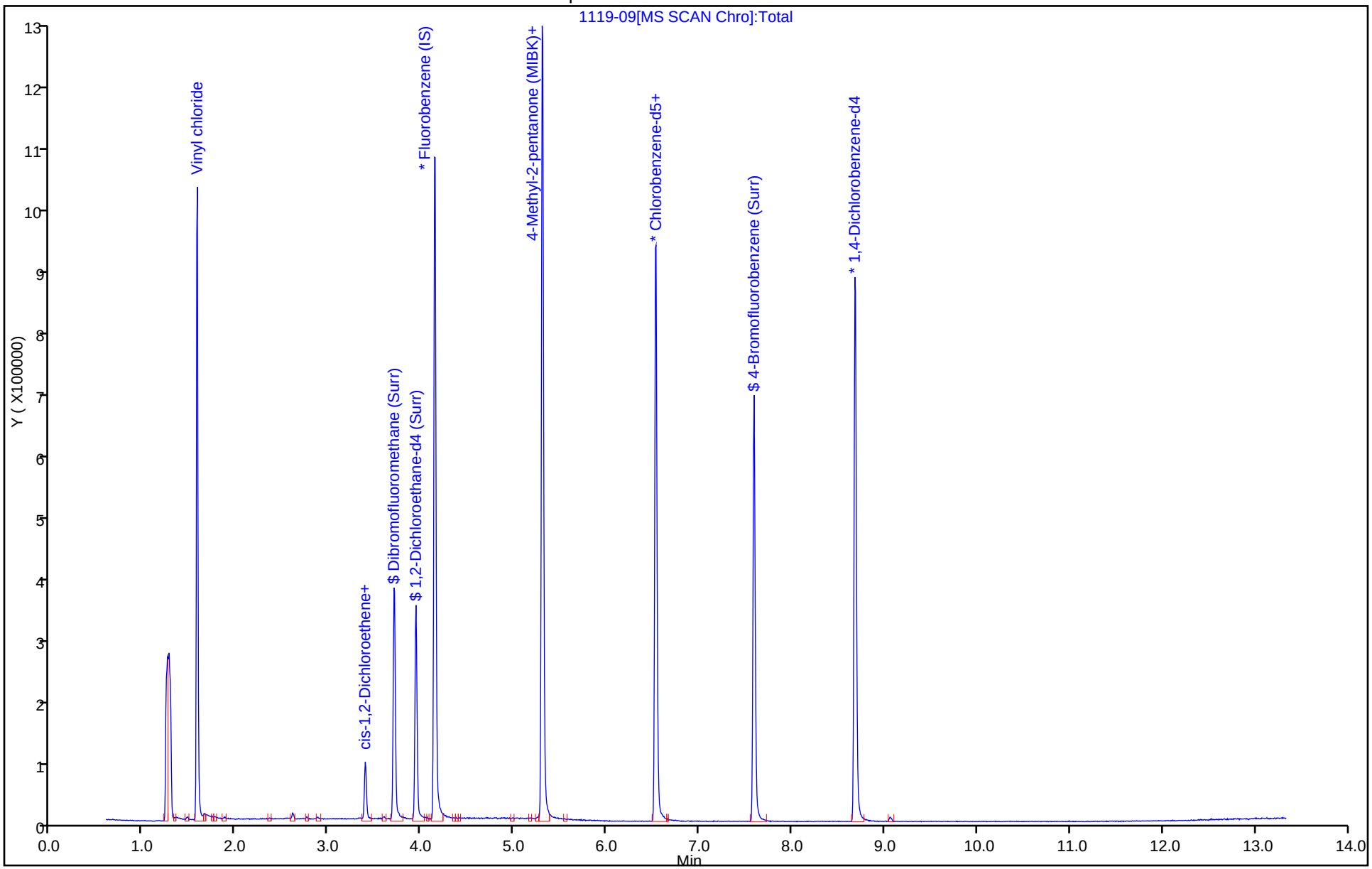
First Level Reviewer: haleyj Date: 20-Nov-2013 10:05:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.147	4.146	0.001	99	839345	25.0	
* 2 Chlorobenzene-d5	117	6.532	6.530	0.002	83	560043	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.679	8.678	0.001	93	294157	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.703	3.702	0.001	57	195462	24.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.940	3.939	0.001	91	200277	25.4	
$ 6 Toluene-d8 (Surr)	98	5.303	5.308	-0.005	84	841952	29.6	
$ 7 4-Bromofluorobenzene (Surr)	95	7.590	7.589	0.001	96	229821	23.7	
11 Vinyl chloride	62	1.580	1.579	0.001	83	720116	79.8	
43 cis-1,2-Dichloroethene	61	3.393	3.391	0.001	75	45179	3.22	
74 4-Methyl-2-pentanone (MIBK)	58	5.309	5.223	0.086	1	6827	4.74	

Report Date: 20-Nov-2013 10:05:16 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP35\20131119-28678.b\1119-09.D				
Injection Date:	19-Nov-2013 16:04:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	490-39837-B-2	Lab Sample ID:	490-39837-2	Worklist Smp#:	9
Client ID:	MW-03B-GW-001				
Purge Vol:	10.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	9
Method:	8260HP35	Limit Group:	MSV 8260B ICAL		



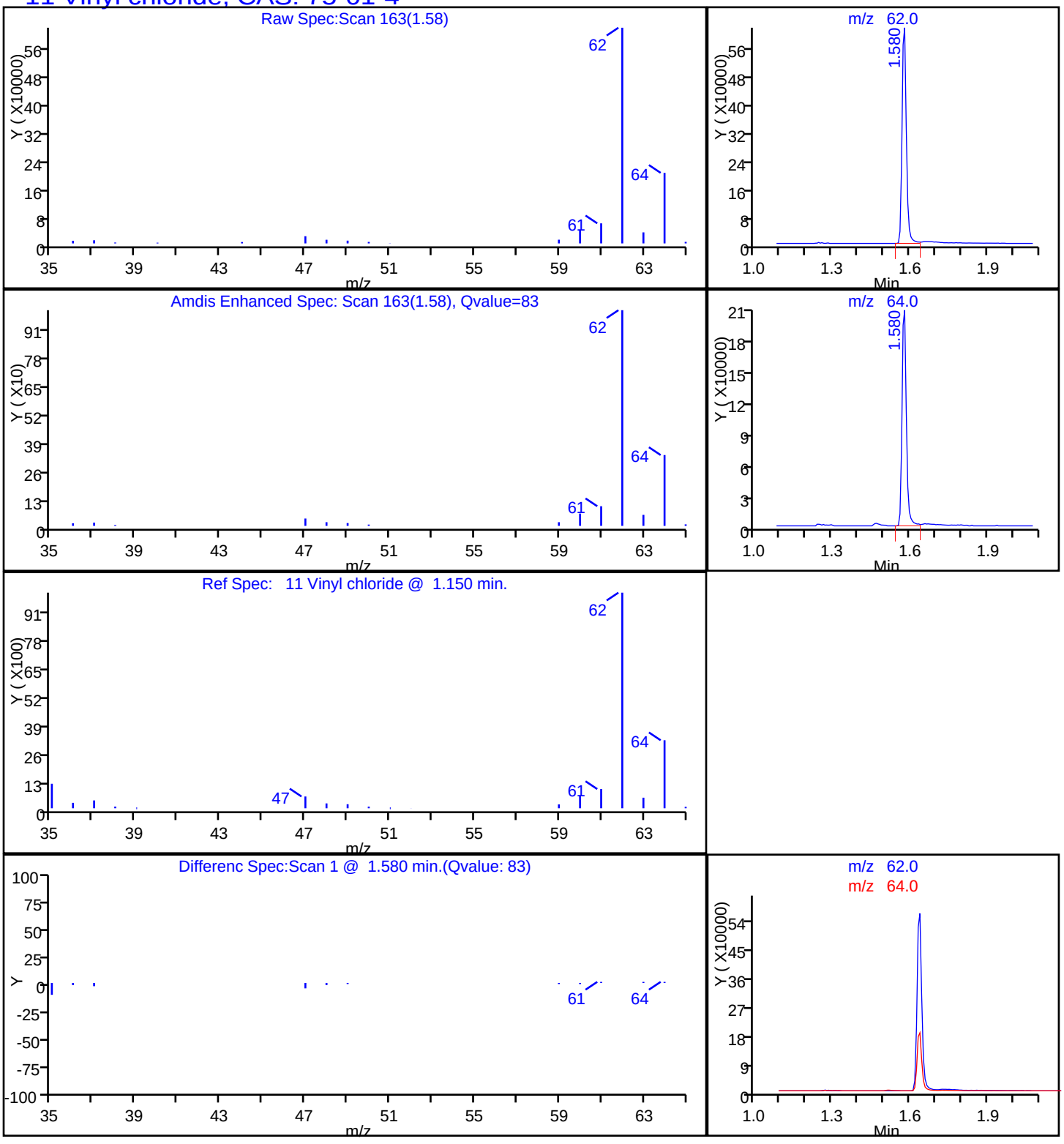
Report Date: 20-Nov-2013 10:05:16 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131119-28678.b\1119-09.D

Injection Date:	19-Nov-2013 16:04:30	Instrument ID:	HP35
Lims ID:	490-39837-B-2	Lab Sample ID:	490-39837-2
Client ID:	MW-03B-GW-001		
Operator ID:	MJH HP35	ALS Bottle#:	9 Worklist Smp#: 9
Purge Vol:	10.000 mL	Dil. Factor:	10.0000
Method:	8260HP35	Limit Group:	MSV 8260B ICAL
Column:		Detector	MS SCAN

11 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: MW-03B-GW-002 | Lab Sample ID: 490-39837-4

Matrix: Water | Lab File ID: 1118-13.D

Analysis Method: 8260B | Date Collected: 11/07/2013 13:19

Sample wt/vol: 10(mL) | Date Analyzed: 11/18/2013 16:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122748 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND	*	1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	33.7		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: MW-03B-GW-002 | Lab Sample ID: 490-39837-4

Matrix: Water | Lab File ID: 1118-13.D

Analysis Method: 8260B | Date Collected: 11/07/2013 13:19

Sample wt/vol: 10(mL) | Date Analyzed: 11/18/2013 16:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122748 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND	*	5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	1.34		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND		1.00	0.200
75-69-4	Trichlorofluoromethane	ND		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	ND		1.00	0.330
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		70-130
1868-53-7	Dibromofluoromethane (Surr)	103		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-130
2037-26-5	Toluene-d8 (Surr)	107		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-13.D
Lims ID: 490-39837-A-4 Lab Sample ID: 490-39837-4
Client ID: MW-03B-GW-002
Sample Type: Client
Inject. Date: 18-Nov-2013 16:45:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: 490-39837-A-4
Misc. Info.: 490-0028621-013
Operator ID: MJH HP35 Instrument ID: HP35

Method: \\Nvlchrom\ChromData\HP35\20131118-28621.b\8260HP35.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 19-Nov-2013 18:27:20 Calib Date: 02-Oct-2013 00:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D

Column 1 : Detector MS SCAN
Process Host: XAWRK006

First Level Reviewer: himelickm Date: 19-Nov-2013 18:27:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.139	4.138	0.001	98	799866	25.0	
* 2 Chlorobenzene-d5	117	6.530	6.529	0.001	84	524060	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.678	8.676	0.002	93	268092	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.701	3.700	0.001	58	194522	25.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.939	3.937	0.002	91	197890	26.4	
$ 6 Toluene-d8 (Surr)	98	5.308	5.306	0.002	83	714320	26.9	
$ 7 4-Bromofluorobenzene (Surr)	95	7.589	7.587	0.002	96	203625	23.0	
11 Vinyl chloride	62	1.572	1.577	-0.005	77	5500448	639.9	E
33 trans-1,2-Dichloroethene	61	2.759	2.757	0.002	84	16966	1.34	
43 cis-1,2-Dichloroethene	61	3.391	3.390	0.001	69	409126	33.7	

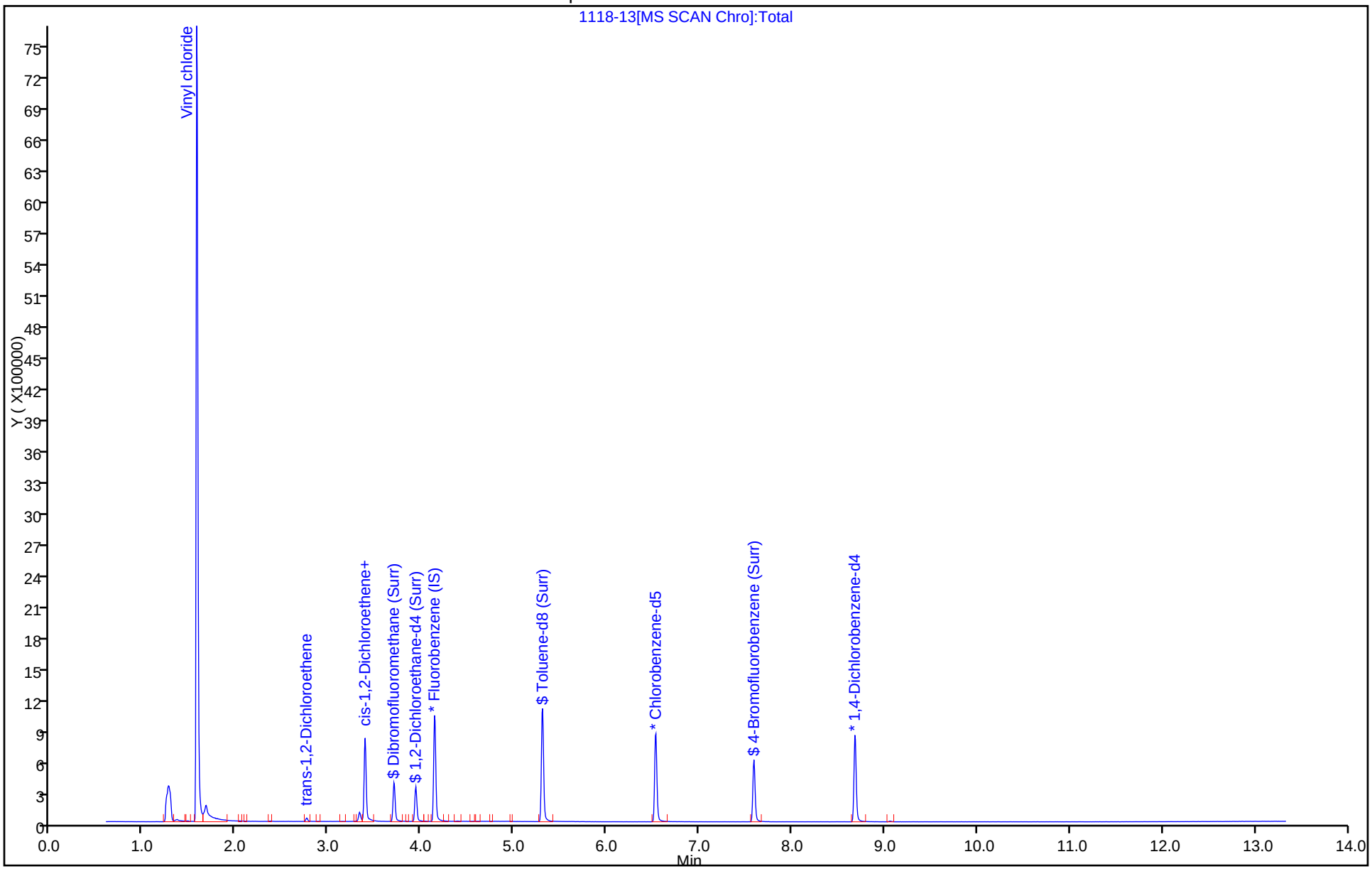
QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

Report Date: 19-Nov-2013 18:27:20 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-13.D				
Injection Date:	18-Nov-2013 16:45:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	490-39837-A-4	Lab Sample ID:	490-39837-4	Worklist Smp#:	13
Client ID:	MW-03B-GW-002				
Purge Vol:	10.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260HP35	Limit Group:	MSV 8260B ICAL		



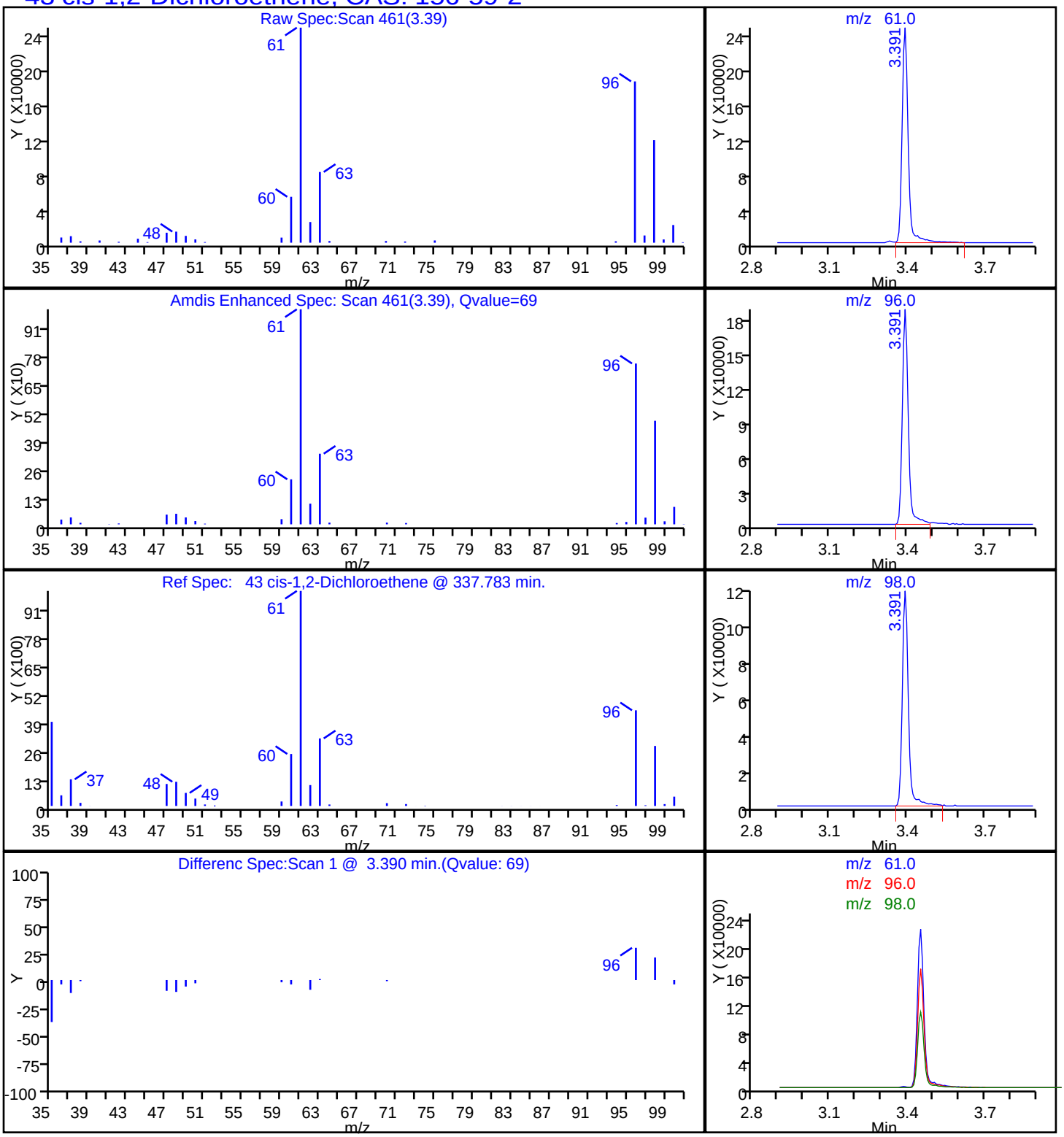
Report Date: 19-Nov-2013 18:27:20 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-13.D

Injection Date:	18-Nov-2013 16:45:30	Instrument ID:	HP35		
Lims ID:	490-39837-A-4	Lab Sample ID:	490-39837-4		
Client ID:	MW-03B-GW-002				
Operator ID:	MJH HP35	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	10.000 mL	Dil. Factor:	1.0000		
Method:	8260HP35	Limit Group:	MSV 8260B ICAL		
Column:		Detector	MS SCAN		

43 cis-1,2-Dichloroethene, CAS: 156-59-2



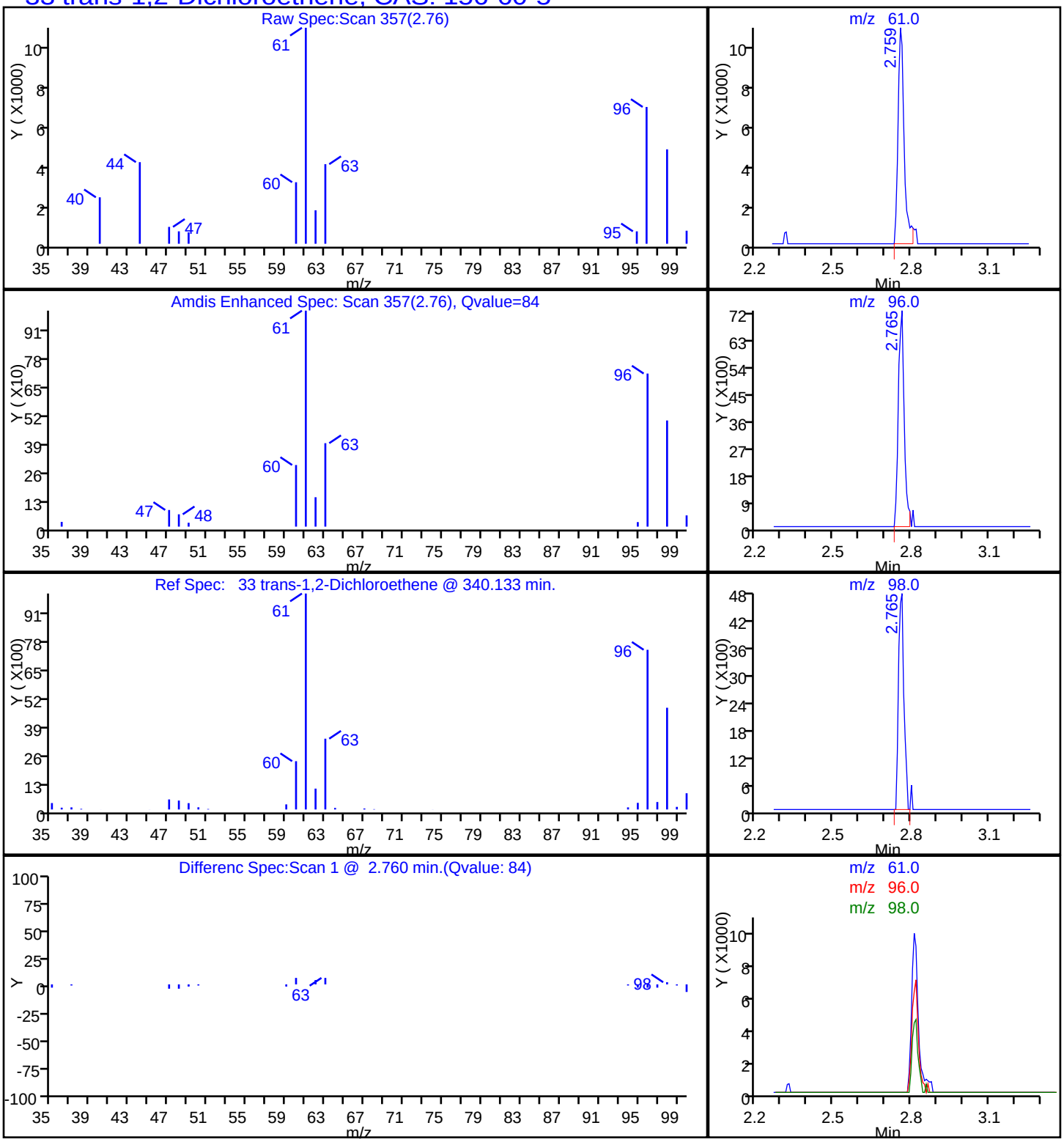
Report Date: 19-Nov-2013 18:27:20 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-13.D

Injection Date:	18-Nov-2013 16:45:30	Instrument ID:	HP35		
Lims ID:	490-39837-A-4	Lab Sample ID:	490-39837-4		
Client ID:	MW-03B-GW-002				
Operator ID:	MJH HP35	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	10.000 mL	Dil. Factor:	1.0000		
Method:	8260HP35	Limit Group:	MSV 8260B ICAL		
Column:		Detector	MS SCAN		

33 trans-1,2-Dichloroethene, CAS: 156-60-5



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: MW-03B-GW-002 | Lab Sample ID: 490-39837-4

Matrix: Water | Lab File ID: 1119-10.D

Analysis Method: 8260B | Date Collected: 11/07/2013 13:19

Sample wt/vol: 10(mL) | Date Analyzed: 11/19/2013 16:34

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 123017 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	847		10.0	1.80

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		70-130
1868-53-7	Dibromofluoromethane (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	109		70-130

Report Date: 20-Nov-2013 10:05:26 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131119-28678.b\1119-10.D
Lims ID: 490-39837-B-4 Lab Sample ID: 490-39837-4
Client ID: MW-03B-GW-002
Sample Type: Client
Inject. Date: 19-Nov-2013 16:34:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 10.000 mL Dil. Factor: 10.0000
Sample Info: 490-39837-B-4
Misc. Info.: 490-0028678-010
Operator ID: MJH HP35 Instrument ID: HP35

Method: \\Nvlchrom\ChromData\HP35\20131119-28678.b\8260HP35.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 20-Nov-2013 10:04:29 Calib Date: 02-Oct-2013 00:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D

Column 1 : Detector MS SCAN
Process Host: XAWRK040

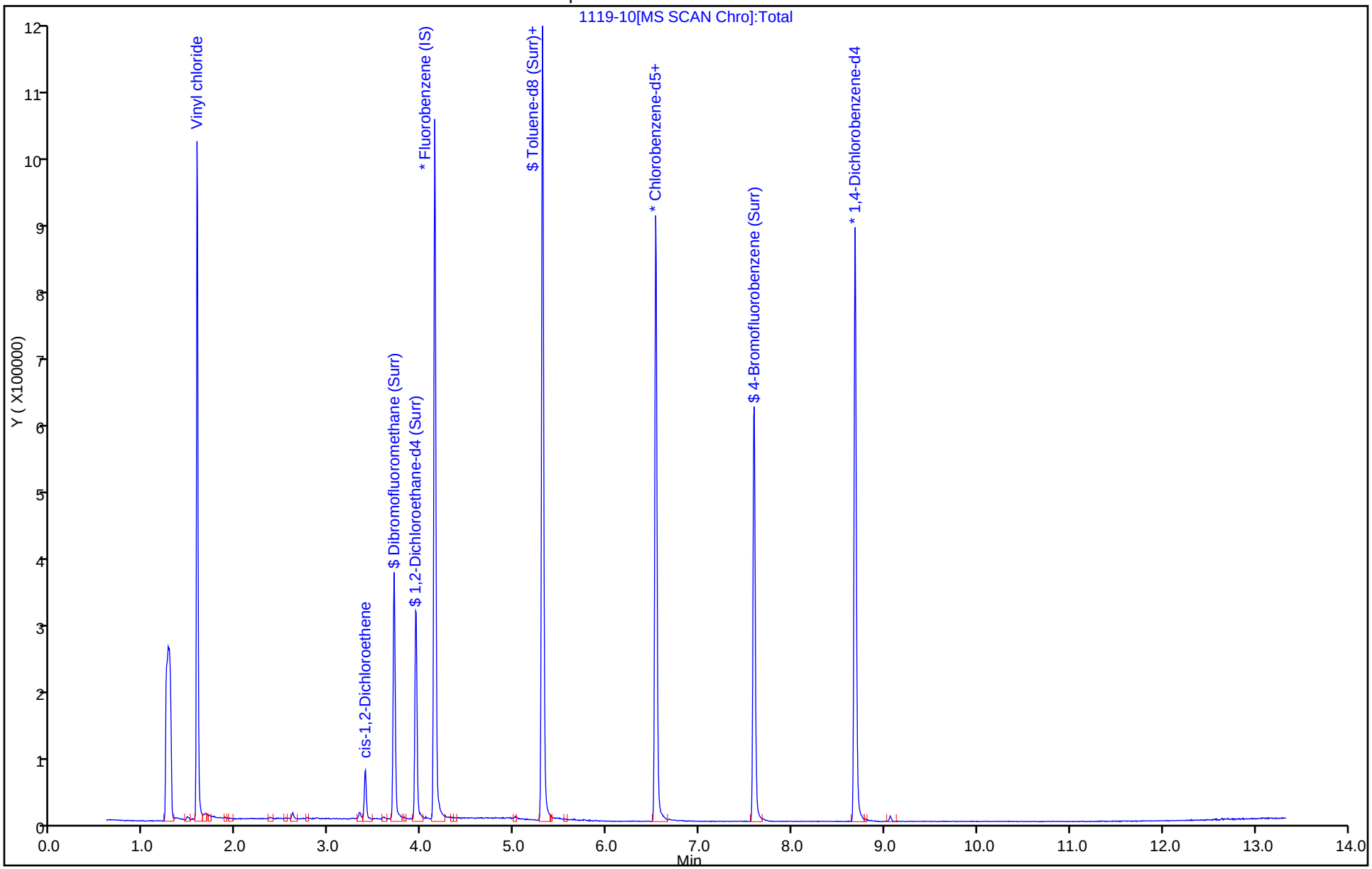
First Level Reviewer: haleyj Date: 20-Nov-2013 10:05:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.143	4.146	-0.003	98	788758	25.0	
* 2 Chlorobenzene-d5	117	6.528	6.530	-0.002	85	538855	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.681	8.678	0.003	92	284843	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.705	3.702	0.003	57	187291	25.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.936	3.939	-0.003	98	186981	25.3	
$ 6 Toluene-d8 (Surr)	98	5.305	5.308	-0.003	84	747364	27.3	
$ 7 4-Bromofluorobenzene (Surr)	95	7.592	7.589	0.003	96	215550	23.0	
11 Vinyl chloride	62	1.576	1.579	-0.003	84	718289	84.7	
43 cis-1,2-Dichloroethene	61	3.395	3.391	0.004	66	35874	2.66	
74 4-Methyl-2-pentanone (MIBK)	58	5.305	5.223	0.082	1	5591	4.03	

Report Date: 20-Nov-2013 10:05:26 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP35\20131119-28678.b\1119-10.D				
Injection Date:	19-Nov-2013 16:34:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	490-39837-B-4	Lab Sample ID:	490-39837-4	Worklist Smp#:	10
Client ID:	MW-03B-GW-002				
Purge Vol:	10.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	10
Method:	8260HP35	Limit Group:	MSV 8260B ICAL		



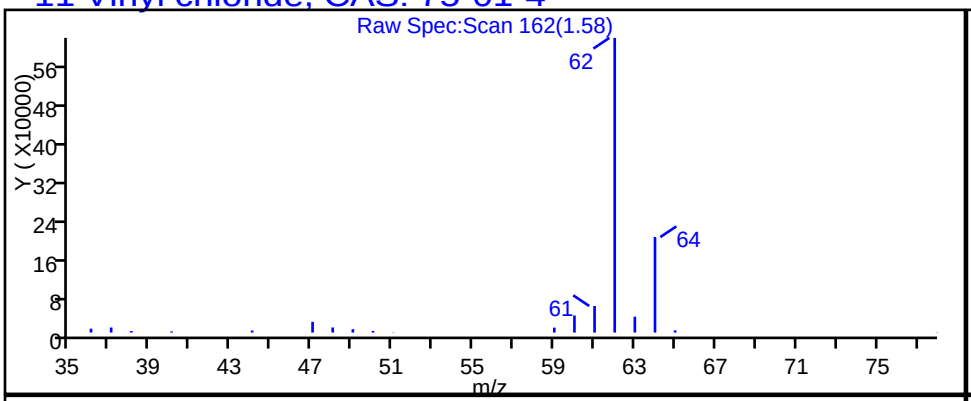
Report Date: 20-Nov-2013 10:05:26 Chrom Revision: 2.1 15-Oct-2013 07:52:24

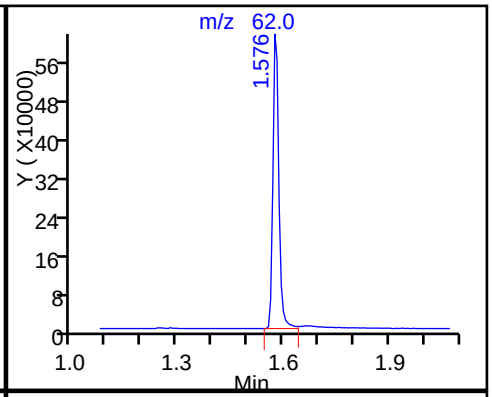
TestAmerica Nashville

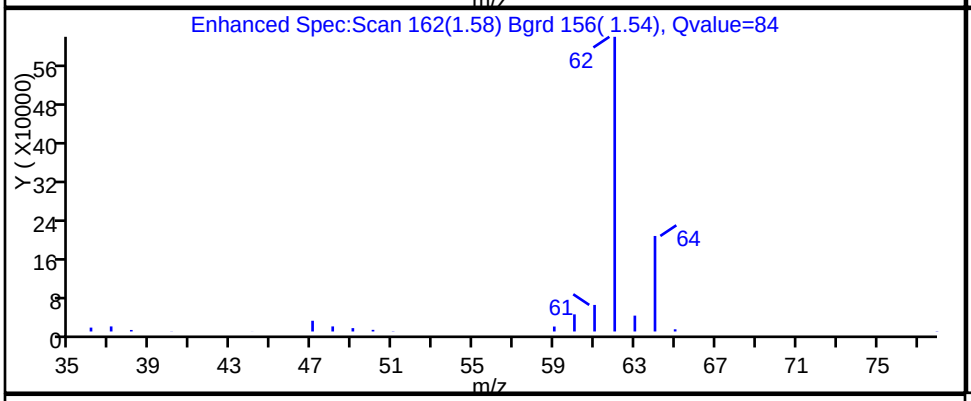
Data File: \\Nvlchrom\ChromData\HP35\20131119-28678.b\1119-10.D

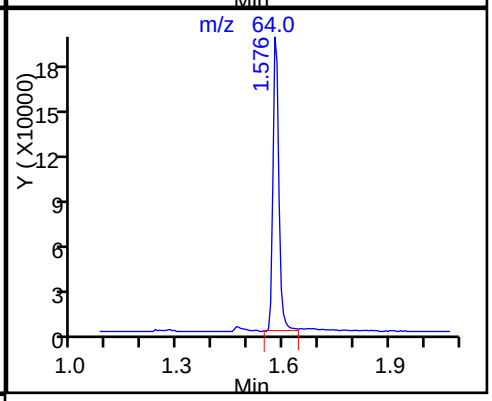
Injection Date:	19-Nov-2013 16:34:30	Instrument ID:	HP35
Lims ID:	490-39837-B-4	Lab Sample ID:	490-39837-4
Client ID:	MW-03B-GW-002		
Operator ID:	MJH HP35	ALS Bottle#:	10 Worklist Smp#: 10
Purge Vol:	10.000 mL	Dil. Factor:	10.0000
Method:	8260HP35	Limit Group:	MSV 8260B ICAL
Column:		Detector	MS SCAN

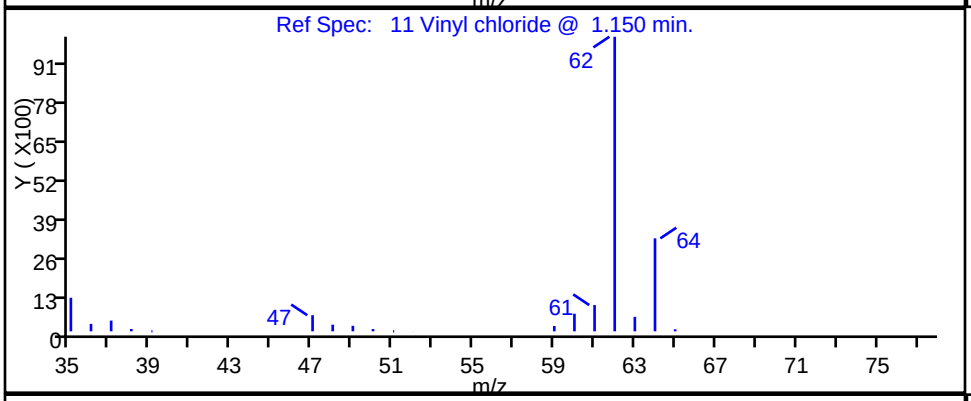
11 Vinyl chloride, CAS: 75-01-4

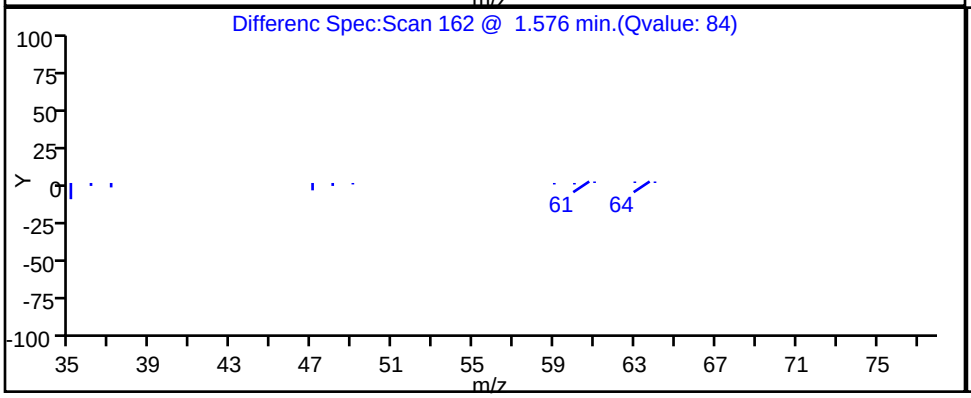


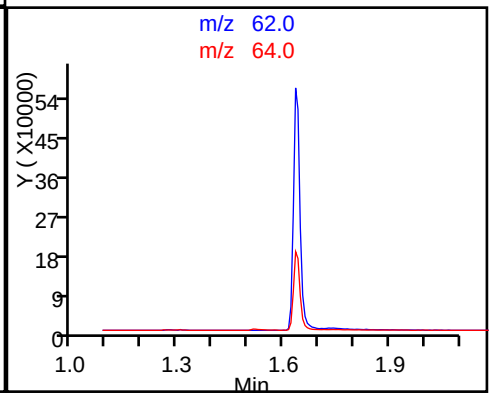












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: MW-05-GW-001 | Lab Sample ID: 490-39837-6

Matrix: Water | Lab File ID: 1118-14.D

Analysis Method: 8260B | Date Collected: 11/07/2013 16:17

Sample wt/vol: 10(mL) | Date Analyzed: 11/18/2013 17:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122748 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND	*	1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	ND		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: MW-05-GW-001 | Lab Sample ID: 490-39837-6

Matrix: Water | Lab File ID: 1118-14.D

Analysis Method: 8260B | Date Collected: 11/07/2013 16:17

Sample wt/vol: 10(mL) | Date Analyzed: 11/18/2013 17:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122748 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND	*	5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND		1.00	0.200
75-69-4	Trichlorofluoromethane	ND		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		1.00	0.330
75-01-4	Vinyl chloride	0.294	J	1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		70-130
1868-53-7	Dibromofluoromethane (Surr)	106		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-130
2037-26-5	Toluene-d8 (Surr)	110		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-14.D
Lims ID: 490-39837-A-6 Lab Sample ID: 490-39837-6
Client ID: MW-05-GW-001
Sample Type: Client
Inject. Date: 18-Nov-2013 17:16:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: 490-39837-A-6
Misc. Info.: 490-0028621-014
Operator ID: MJH HP35 Instrument ID: HP35

Method: \\Nvlchrom\ChromData\HP35\20131118-28621.b\8260HP35.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 19-Nov-2013 18:28:36 Calib Date: 02-Oct-2013 00:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D

Column 1 : Detector MS SCAN
Process Host: XAWRK006

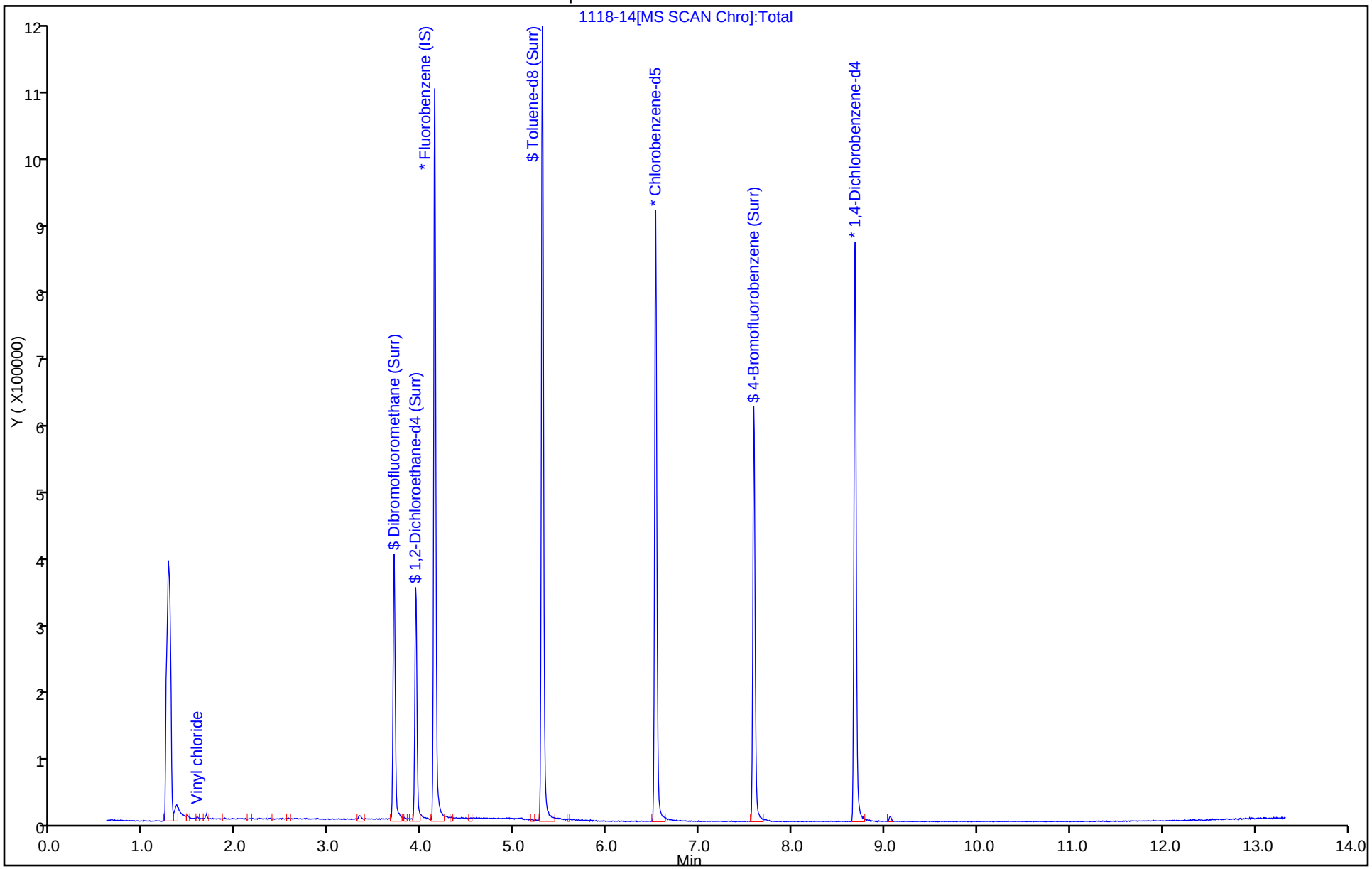
First Level Reviewer: himelickm Date: 19-Nov-2013 18:28:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.143	4.138	0.005	99	792807	25.0	
* 2 Chlorobenzene-d5	117	6.528	6.529	-0.001	84	520446	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.681	8.676	0.005	93	265068	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.705	3.700	0.005	58	198007	26.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.936	3.937	-0.001	99	195593	26.3	
$ 6 Toluene-d8 (Surr)	98	5.305	5.306	-0.001	83	728158	27.6	
$ 7 4-Bromofluorobenzene (Surr)	95	7.586	7.587	-0.001	96	203401	23.3	
11 Vinyl chloride	62	1.576	1.577	-0.001	18	2504	0.2939	

Report Date: 19-Nov-2013 18:28:36 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

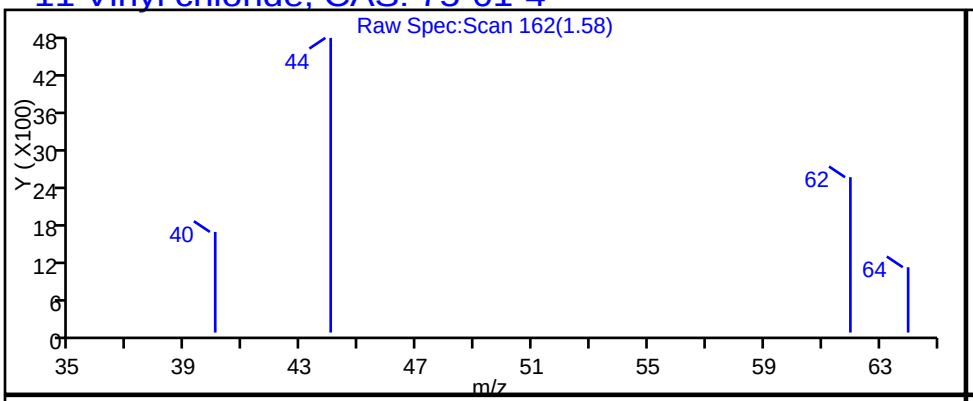
Data File:	\\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-14.D				
Injection Date:	18-Nov-2013 17:16:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	490-39837-A-6	Lab Sample ID:	490-39837-6	Worklist Smp#:	14
Client ID:	MW-05-GW-001				
Purge Vol:	10.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260HP35	Limit Group:	MSV 8260B ICAL		

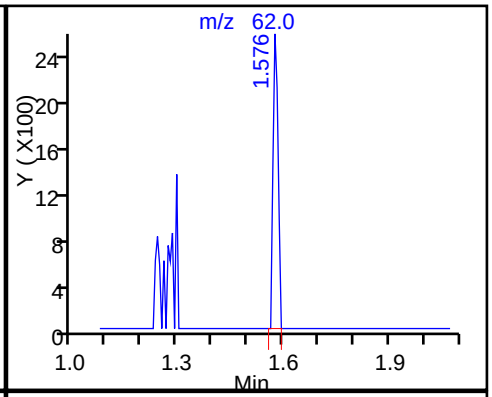


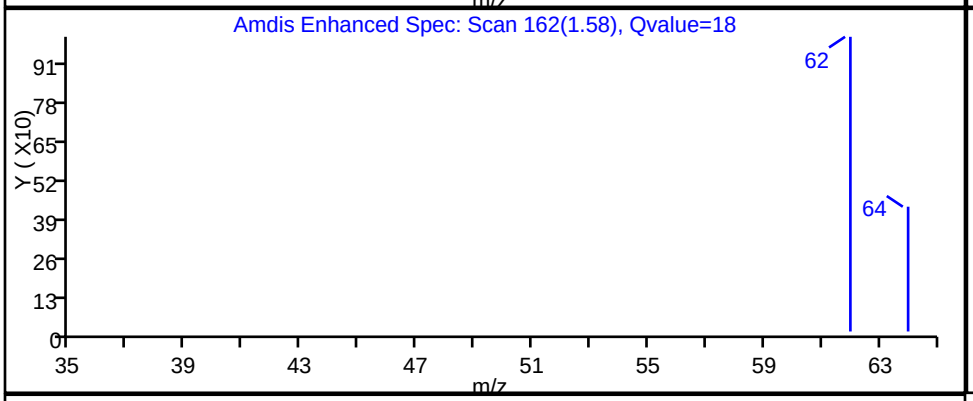
TestAmerica Nashville

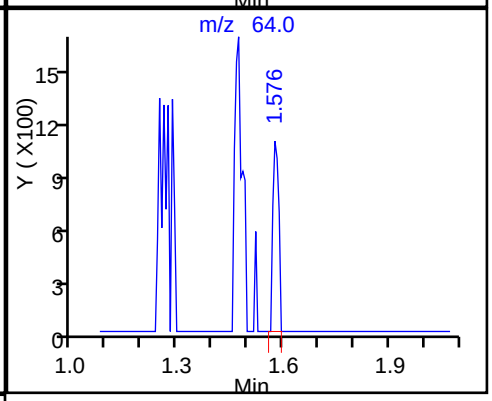
Data File: \\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-14.D
Injection Date: 18-Nov-2013 17:16:30 Instrument ID: HP35
Lims ID: 490-39837-A-6 Lab Sample ID: 490-39837-6
Client ID: MW-05-GW-001
Operator ID: MJH HP35 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Method: 8260HP35 Limit Group: MSV 8260B ICAL
Column: Detector MS SCAN

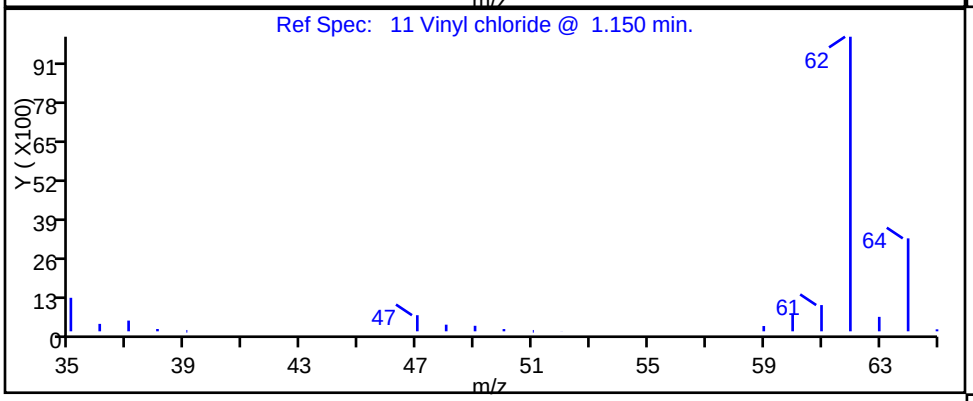
11 Vinyl chloride, CAS: 75-01-4

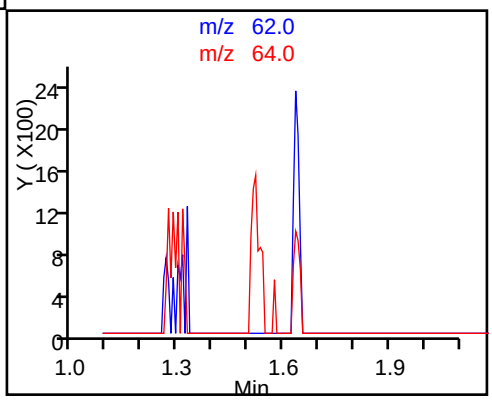












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: Field Blank | Lab Sample ID: 490-39837-7

Matrix: Water | Lab File ID: 1118-08.D

Analysis Method: 8260B | Date Collected: 11/07/2013 09:56

Sample wt/vol: 10(mL) | Date Analyzed: 11/18/2013 14:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122748 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND	*	1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	ND		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: Field Blank | Lab Sample ID: 490-39837-7

Matrix: Water | Lab File ID: 1118-08.D

Analysis Method: 8260B | Date Collected: 11/07/2013 09:56

Sample wt/vol: 10(mL) | Date Analyzed: 11/18/2013 14:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122748 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND	*	5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND		1.00	0.200
75-69-4	Trichlorofluoromethane	ND		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		1.00	0.330
75-01-4	Vinyl chloride	ND		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	90		70-130
1868-53-7	Dibromofluoromethane (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-130
2037-26-5	Toluene-d8 (Surr)	122		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-08.D
Lims ID: 490-39837-A-7 Lab Sample ID: 490-39837-7
Client ID: Field Blank
Sample Type: Client
Inject. Date: 18-Nov-2013 14:11:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: 490-39837-A-7
Misc. Info.: 490-0028621-008
Operator ID: MJH HP35 Instrument ID: HP35

Method: \\Nvlchrom\ChromData\HP35\20131118-28621.b\8260HP35.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 19-Nov-2013 18:24:29 Calib Date: 02-Oct-2013 00:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D

Column 1 : Detector MS SCAN
Process Host: XAWRK006

First Level Reviewer: himelickm Date: 19-Nov-2013 18:24:29

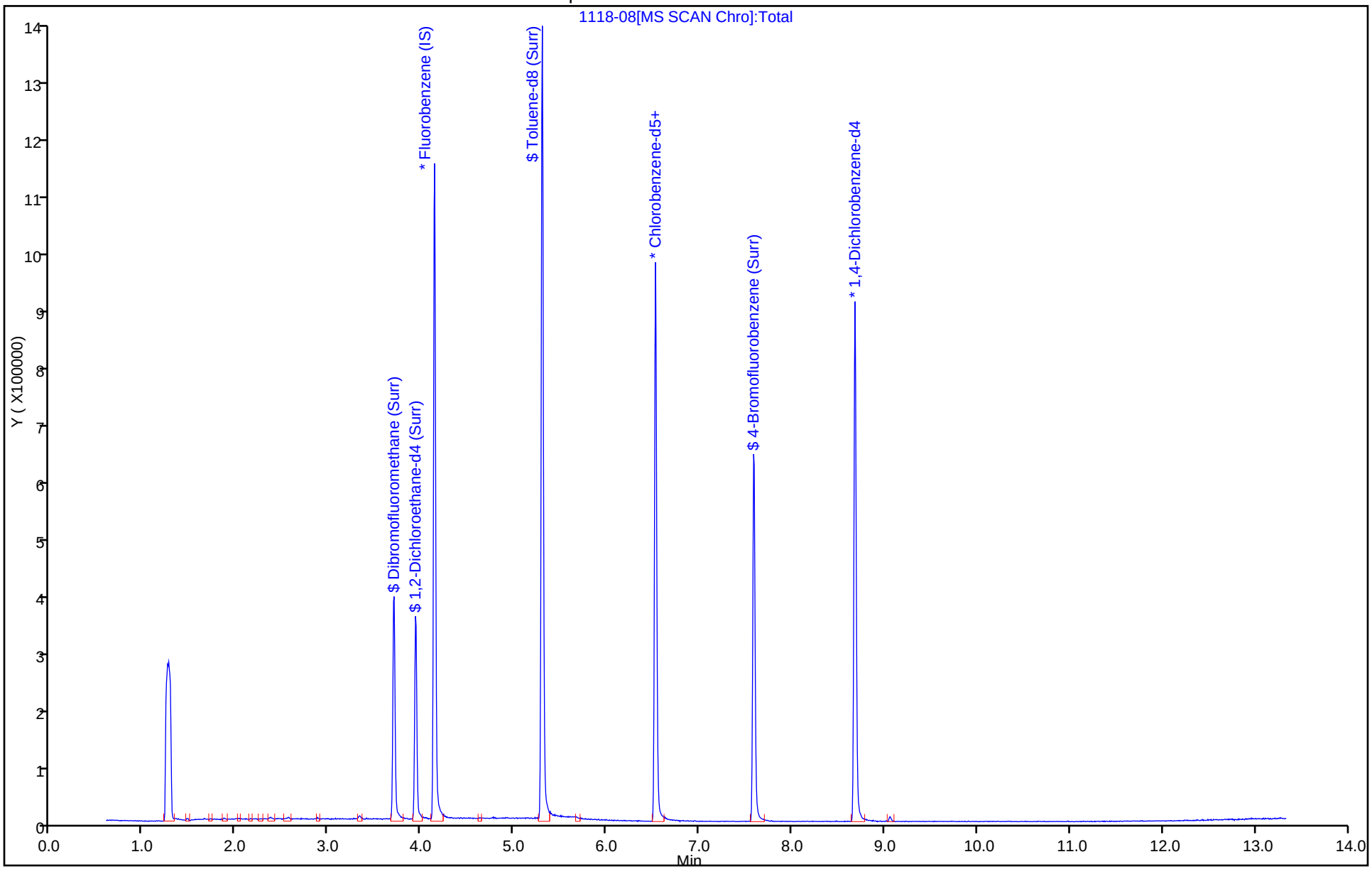
	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
*	1 Fluorobenzene (IS)	96	4.142	4.138	0.004	98	822543	25.0	
*	2 Chlorobenzene-d5	117	6.527	6.529	-0.002	83	525851	25.0	
*	3 1,4-Dichlorobenzene-d4	152	8.680	8.676	0.004	93	280133	25.0	
$	4 Dibromofluoromethane (Surr)	111	3.704	3.700	0.004	59	196541	25.3	
$	5 1,2-Dichloroethane-d4 (Surr)	65	3.935	3.937	-0.002	91	201008	26.0	
$	6 Toluene-d8 (Surr)	98	5.304	5.306	-0.002	84	815210	30.6	
$	7 4-Bromofluorobenzene (Surr)	95	7.585	7.587	-0.002	96	208808	22.6	

Report Date: 19-Nov-2013 18:24:29 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-08.D

Injection Date:	18-Nov-2013 14:11:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	490-39837-A-7	Lab Sample ID:	490-39837-7	Worklist Smp#:	8
Client ID:	Field Blank				
Purge Vol:	10.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260HP35	Limit Group:	MSV 8260B ICAL		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: Equipment Blank | Lab Sample ID: 490-39837-9

Matrix: Water | Lab File ID: 1118-09.D

Analysis Method: 8260B | Date Collected: 11/07/2013 10:38

Sample wt/vol: 10(mL) | Date Analyzed: 11/18/2013 14:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122748 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND	*	1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	ND		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: Equipment Blank | Lab Sample ID: 490-39837-9

Matrix: Water | Lab File ID: 1118-09.D

Analysis Method: 8260B | Date Collected: 11/07/2013 10:38

Sample wt/vol: 10(mL) | Date Analyzed: 11/18/2013 14:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122748 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND	*	5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND		1.00	0.200
75-69-4	Trichlorofluoromethane	ND		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		1.00	0.330
75-01-4	Vinyl chloride	ND		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		70-130
1868-53-7	Dibromofluoromethane (Surr)	103		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		70-130
2037-26-5	Toluene-d8 (Surr)	119		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-09.D
Lims ID: 490-39837-A-9 Lab Sample ID: 490-39837-9
Client ID: Equipment Blank
Sample Type: Client
Inject. Date: 18-Nov-2013 14:42:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: 490-39837-A-9
Misc. Info.: 490-0028621-009
Operator ID: MJH HP35 Instrument ID: HP35

Method: \\Nvlchrom\ChromData\HP35\20131118-28621.b\8260HP35.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 19-Nov-2013 18:24:53 Calib Date: 02-Oct-2013 00:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D

Column 1 : Detector MS SCAN
Process Host: XAWRK006

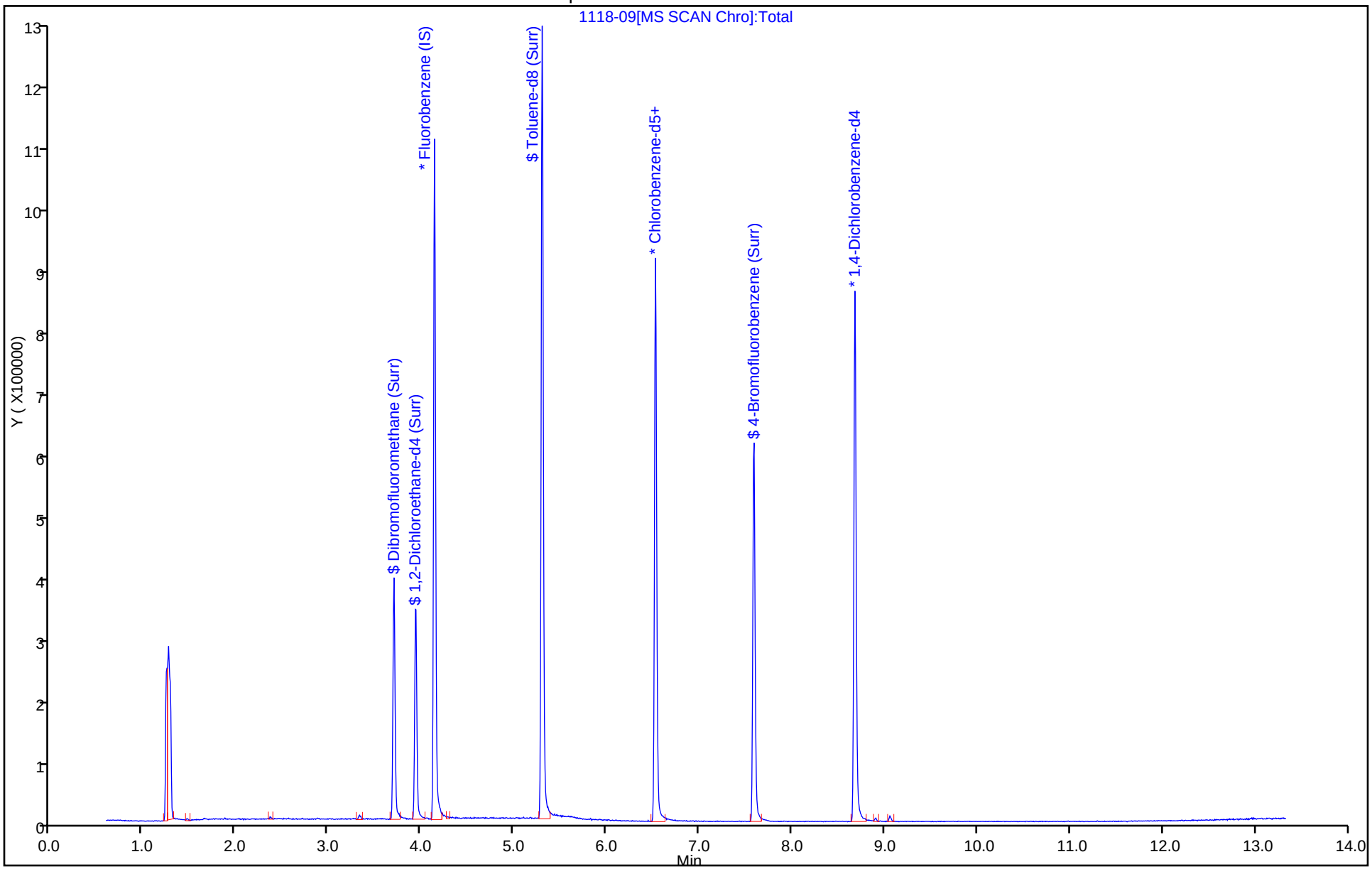
First Level Reviewer: himelickm Date: 19-Nov-2013 18:24:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.141	4.138	0.003	98	804332	25.0	
* 2 Chlorobenzene-d5	117	6.525	6.529	-0.004	83	518589	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.679	8.676	0.003	93	268473	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.703	3.700	0.003	64	195723	25.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.934	3.937	-0.003	91	203427	26.9	
$ 6 Toluene-d8 (Surr)	98	5.303	5.306	-0.003	84	784925	29.8	
$ 7 4-Bromofluorobenzene (Surr)	95	7.590	7.587	0.003	96	208652	23.6	

Report Date: 19-Nov-2013 18:24:53 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-09.D				
Injection Date:	18-Nov-2013 14:42:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	490-39837-A-9	Lab Sample ID:	490-39837-9	Worklist Smp#:	9
Client ID:	Equipment Blank				
Purge Vol:	10.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260HP35	Limit Group:	MSV 8260B ICAL		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: Trip Blank | Lab Sample ID: 490-39837-11

Matrix: Water | Lab File ID: 1118-10.D

Analysis Method: 8260B | Date Collected: 11/07/2013 00:01

Sample wt/vol: 10(mL) | Date Analyzed: 11/18/2013 15:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122748 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND	*	1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	ND		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: Trip Blank | Lab Sample ID: 490-39837-11

Matrix: Water | Lab File ID: 1118-10.D

Analysis Method: 8260B | Date Collected: 11/07/2013 00:01

Sample wt/vol: 10(mL) | Date Analyzed: 11/18/2013 15:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122748 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND	*	5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND		1.00	0.200
75-69-4	Trichlorofluoromethane	ND		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		1.00	0.330
75-01-4	Vinyl chloride	ND		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	91		70-130
1868-53-7	Dibromofluoromethane (Surr)	102		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-130
2037-26-5	Toluene-d8 (Surr)	118		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-10.D
Lims ID: 490-39837-A-11 Lab Sample ID: 490-39837-11
Client ID: Trip Blank
Sample Type: Client
Inject. Date: 18-Nov-2013 15:13:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: 490-39837-A-11
Misc. Info.: 490-0028621-010
Operator ID: MJH HP35 Instrument ID: HP35

Method: \\Nvlchrom\ChromData\HP35\20131118-28621.b\8260HP35.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 19-Nov-2013 18:25:10 Calib Date: 02-Oct-2013 00:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D

Column 1 : Detector MS SCAN
Process Host: XAWRK006

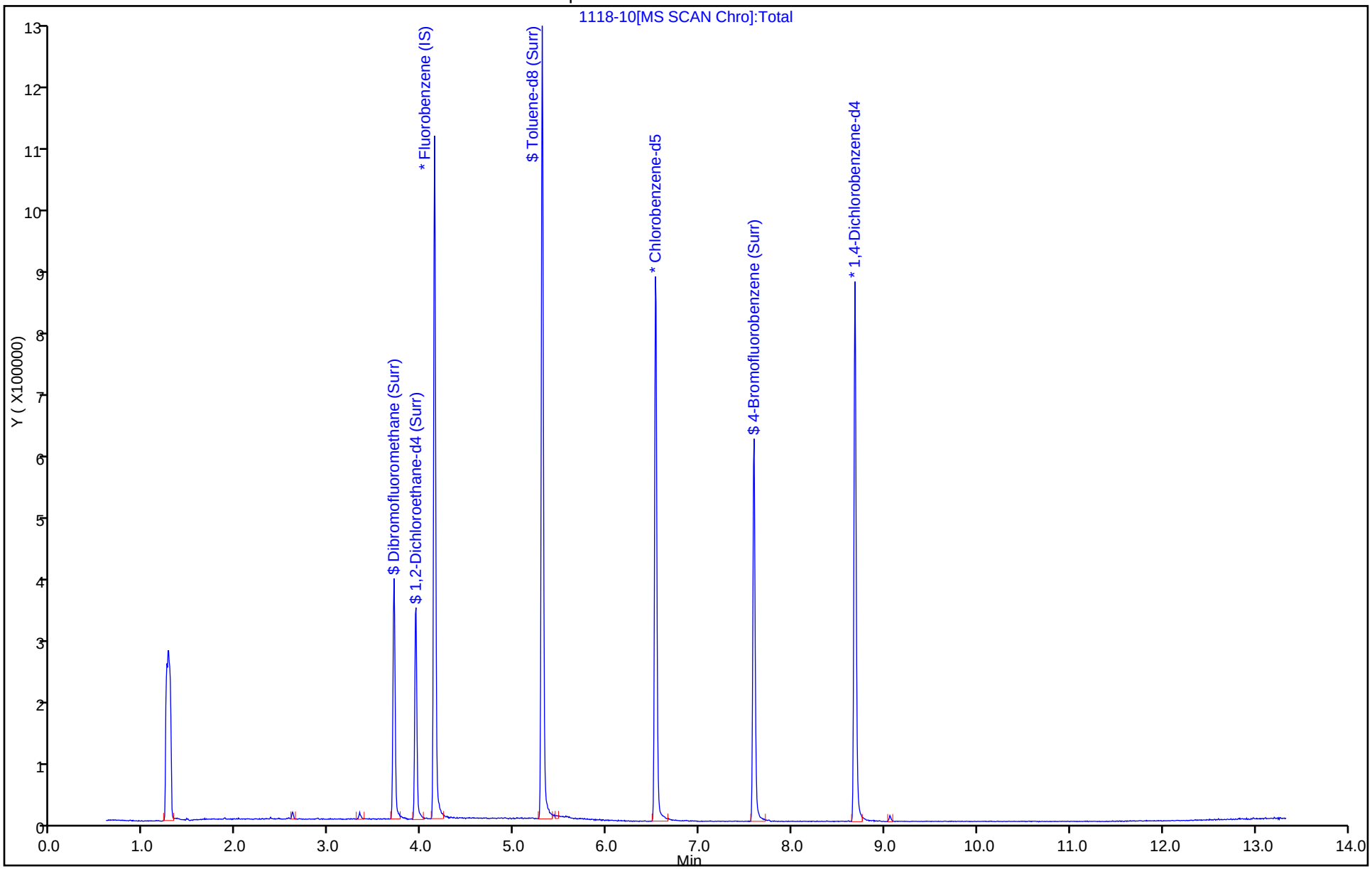
First Level Reviewer: himelickm Date: 19-Nov-2013 18:25:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.141	4.138	0.003	98	806511	25.0	
* 2 Chlorobenzene-d5	117	6.526	6.529	-0.003	83	508600	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.679	8.676	0.003	93	267384	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.703	3.700	0.003	57	193474	25.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.940	3.937	0.003	91	198121	26.2	
$ 6 Toluene-d8 (Surr)	98	5.303	5.306	-0.003	93	762012	29.5	
$ 7 4-Bromofluorobenzene (Surr)	95	7.590	7.587	0.003	96	201310	22.8	

Report Date: 19-Nov-2013 18:25:11 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-10.D				
Injection Date:	18-Nov-2013 15:13:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	490-39837-A-11	Lab Sample ID:	490-39837-11	Worklist Smp#:	10
Client ID:	Trip Blank				
Purge Vol:	10.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260HP35	Limit Group:	MSV 8260B ICAL		



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39837-2 Analy Batch No.: 110993

SDG No.:

Instrument ID: HP35 GC Column: ZB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/01/2013 19:38 Calibration End Date: 10/02/2013 00:15 Calibration ID: 19385

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 490-110993/12	1001-12.D
Level 2	STD 490-110993/13	1001-13.D
Level 3	STD 490-110993/14	1001-14.D
Level 4	STD 490-110993/15	1001-15.D
Level 5	STD 490-110993/16	1001-16.D
Level 6	STD 490-110993/17	1001-17.D
Level 7	ICIS 490-110993/18	1001-18.D
Level 8	STD 490-110993/19	1001-19.D
Level 9	STD 490-110993/20	1001-20.D
Level 10	STD 490-110993/21	1001-21.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Dichlorodifluoromethane	0.2149 0.2402	0.2358 0.2375	0.2355 0.2312	0.2360 0.2382	0.2313 0.2201	Ave		0.2321				3.6		15.0			
Chloromethane	0.8236 0.3241	0.4453 0.3074	0.3979 0.2955	0.3400 0.2844	0.3267 0.2767	Lin1	0.2554	0.2829			0.1000				0.9990		0.9900
Vinyl chloride	0.3288 0.2681	0.2780 0.2672	0.2480 0.2649	0.2627 0.2590	0.2583 0.2519	Ave		0.2687				8.5		15.0			
Butadiene	0.2400 0.2621	0.2452 0.2640	0.2370 0.2739	0.2418 0.2716	0.2481 0.2548	Ave		0.2539				5.3		15.0			
Bromomethane	+++++ 0.1216	0.1140 0.1304	0.1120 0.1360	0.1070 +++++	0.1065 +++++	Lin1	-0.052	0.1322							0.9970		0.9900
Chloroethane	0.2670 0.1654	0.1950 0.1664	0.1778 0.1688	0.1695 0.1670	0.1642 +++++	Lin2	0.0480	0.1616							0.9970		0.9900
Dichlorofluoromethane	0.6655 0.3963	0.4355 0.3878	0.4079 0.3778	0.4078 0.3547	0.3951 0.3489	Lin2	0.1323	0.3663							0.9920		0.9900
Trichlorofluoromethane	0.3396 0.3290	0.3455 0.3214	0.3188 0.3491	0.3336 0.3400	0.3112 0.3268	Ave		0.3315				3.7		15.0			
Diethyl ether	0.2229 0.1507	0.1662 0.1513	0.1438 0.1468	0.1531 0.1457	0.1547 0.1373	Lin2	0.0348	0.1437							0.9950		0.9900
Ethanol	0.0054 0.0035	0.0042 0.0034	0.0038 0.0033	0.0037 0.0032	0.0035 0.0033	Lin2	0.0486	0.0034							0.9990		0.9900
Acrolein	0.0222 0.0208	0.0194 0.0208	0.0187 0.0200	0.0198 0.0205	0.0194 0.0200	Ave		0.0202				4.8		15.0			
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.2146 0.2130	0.2262 0.2088	0.2084 0.1969	0.2124 0.1928	0.2047 0.1818	Ave		0.2060				6.1		15.0			
1,1-Dichloroethene	0.2915 0.1988	0.2103 0.1977	0.1968 0.1955	0.2015 0.1994	0.1988 0.1927	Lin2	0.0420	0.1920							0.9960		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39837-2 Analy Batch No.: 110993

SDG No.:

Instrument ID: HP35 GC Column: ZB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/01/2013 19:38 Calibration End Date: 10/02/2013 00:15 Calibration ID: 19385

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Acetone	0.0169 0.0108	0.0143 0.0105	0.0117 0.0103	0.0115 0.0104	0.0110 0.0108	Lin2	0.0164	0.0105							0.9990		0.9900
Iodomethane	+++++ 0.2928	0.2227 0.3101	0.2325 0.2936	0.2614 0.2756	0.2724 +++++	Ave		0.2702				11.0		15.0			
Isopropyl alcohol	0.0088 0.0065	0.0084 0.0060	0.0075 0.0060	0.0075 0.0063	0.0066 0.0062	Lin2	0.0142	0.0064							0.9940		0.9900
Carbon disulfide	1.1164 0.6578	0.7484 0.6715	0.6493 0.6106	0.6683 0.5796	0.6793 +++++	Lin2	0.2229	0.6128							0.9900		0.9900
3-Chloro-1-propene	+++++ 0.2017	0.1812 0.2116	0.1991 0.2090	0.1744 0.2163	0.2009 0.2236	Ave		0.2020				7.9		15.0			
Acetonitrile	0.0989 0.0532	0.0628 0.0518	0.0570 0.0481	0.0543 0.0451	0.0528 0.0423	Lin1	0.3111	0.0445							0.9950		0.9900
Methyl acetate	0.1377 0.1216	0.1370 0.1181	0.1349 0.1105	0.1254 0.1082	0.1228 0.0940	Lin2	0.0752	0.1152							0.9910		0.9900
Methylene Chloride	0.4591 0.2384	0.2692 0.2354	0.2386 0.2246	0.2457 0.2211	0.2376 0.2097	Lin1	0.1069	0.2163							0.9980		0.9900
tert-Butyl alcohol (TBA)	0.0093 0.0096	0.0100 0.0095	0.0094 0.0091	0.0100 0.0097	0.0098 0.0098	Ave		0.0096				3.2		15.0			
Methyl tert-butyl ether	0.6749 0.4908	0.5301 0.4866	0.4887 0.4636	0.5012 0.4446	0.4803 0.3887	Lin2	0.1030	0.4549							0.9940		0.9900
trans-1,2-Dichloroethene	0.5908 0.3211	0.3722 0.3198	0.3291 0.3069	0.3291 0.2995	0.3212 0.3045	Lin2	0.1281	0.2996							0.9900		0.9900
Acrylonitrile	0.0485 0.0480	0.0520 0.0468	0.0493 0.0444	0.0488 0.0448	0.0473 0.0392	Ave		0.0469				7.4		15.0			
Hexane	0.4048 0.3400	0.3788 0.3368	0.3369 0.3157	0.3393 0.3060	0.3323 0.2770	Ave		0.3367				11.0		15.0			
Diisopropyl ether	1.4818 0.7967	0.8873 0.7674	0.8091 0.7137	0.8007 0.6434	0.7788 +++++	Lin1	0.3912	0.6844							0.9940		0.9900
1,1-Dichloroethane	0.8676 0.4298	0.4665 0.4294	0.4426 0.4050	0.4441 0.4136	0.4323 0.3972	Lin1	0.1765	0.4042			0.1000				0.9990		0.9900
Vinyl acetate	0.8588 0.4925	0.5319 0.4746	0.4994 0.4403	0.4903 +++++	0.4897 +++++	Lin1	0.3325	0.4541							0.9980		0.9900
Chloroprene	0.5844 0.3793	0.3984 0.3702	0.3596 0.3518	0.3721 0.3373	0.3656 +++++	Lin2	0.1022	0.3469							0.9910		0.9900
Ethyl tert-butyl ether	+++++ 0.6542	0.6620 0.6323	0.6190 0.6009	0.6413 0.5762	0.6405 +++++	Lin2	0.0392	0.6190							0.9980		0.9900
2,2-Dichloropropane	0.5568 0.3449	0.3791 0.3429	0.3528 0.3217	0.3433 0.3232	0.3295 0.2981	Lin2	0.1065	0.3178							0.9940		0.9900
cis-1,2-Dichloroethene	0.7090 0.4057	0.4203 0.4081	0.4001 0.3833	0.4132 0.3798	0.4035 0.3664	Lin1	0.1388	0.3750							0.9990		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39837-2 Analy Batch No.: 110993

SDG No.:

Instrument ID: HP35 GC Column: ZB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/01/2013 19:38 Calibration End Date: 10/02/2013 00:15 Calibration ID: 19385

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
2-Butanone (MEK)	0.0133 0.0148	0.0151 0.0142	0.0122 0.0139	0.0142 0.0145	0.0144 0.0146	Ave		0.0141				5.9		15.0			
Ethyl acetate	0.2417 0.2048	0.2132 0.2024	0.2331 0.1937	0.2006 0.1894	0.2021 0.1735	Ave		0.2055				9.7		15.0			
Propionitrile	0.0180 0.0180	0.0175 0.0178	0.0163 0.0175	0.0188 0.0177	0.0164 0.0170	Ave		0.0175				4.5		15.0			
Methacrylonitrile	0.0968 0.0876	0.1029 0.0841	0.1016 0.0773	0.0886 0.0694	0.0885 +++++	Ave		0.0885				12.0		15.0			
Bromochloromethane	0.1952 0.1399	0.1362 0.1345	0.1386 0.1283	0.1391 0.1252	0.1412 0.1185	Lin2	0.0282	0.1287							0.9920		0.9900
Chloroform	+++++ 0.4171	0.5488 0.3982	0.4782 0.3716	0.4554 0.3598	0.4206 0.3286	Lin2	0.1806	0.3820							0.9930		0.9900
Tetrahydrofuran	0.0506 0.0363	0.0670 0.0525	0.0529 0.0496	0.0386 0.0507	0.0375 0.0491	Lin1	-0.004	0.0493							0.9960		0.9900
1,1,1-Trichloroethane	0.5500 0.3588	0.3731 0.3480	0.3558 0.3329	0.3598 0.3179	0.3503 0.2856	Lin2	0.0993	0.3246							0.9910		0.9900
Cyclohexane	0.4759 0.4331	0.4466 0.4347	0.4203 0.4152	0.4186 0.3974	0.4268 0.3542	Ave		0.4223				7.5		15.0			
1,1-Dichloropropene	0.4218 0.3155	0.3268 0.3144	0.2982 0.3006	0.3111 0.2960	0.3054 +++++	Lin2	0.0528	0.2983							0.9960		0.9900
Carbon tetrachloride	0.3766 0.3009	0.3184 0.3070	0.2909 0.2884	0.3029 0.2792	0.3017 0.2554	Ave		0.3021				10.0		15.0			
Isobutanol	+++++ 0.0122	0.0193 0.0119	0.0180 0.0117	0.0121 0.0119	0.0123 0.0117	Lin2	0.0836	0.0117							0.9920		0.9900
Benzene	+++++ 1.0080	1.1168 0.9857	1.0353 0.9032	1.0304 0.7965	0.9992 +++++	Ave		0.9844				9.8		15.0			
1,2-Dichloroethane	0.3844 0.2819	0.2962 0.2803	0.2833 0.2681	0.2881 0.2601	0.2847 0.2344	Lin2	0.0539	0.2652							0.9950		0.9900
Tert-amyl methyl ether	0.7639 0.5487	0.5573 0.5511	0.5350 0.5264	0.5560 0.5069	0.5398 0.4292	Lin2	0.1111	0.5082							0.9910		0.9900
Heptane	0.4391 0.3569	0.4153 0.3606	0.3458 0.3430	0.3346 0.3264	0.3426 0.2912	Ave		0.3556				12.0		15.0			
n-Butanol	0.0009 0.0028	0.0033 0.0028	0.0029 0.0027	0.0028 0.0028	0.0026 0.0030	Lin1	-0.016	0.0029							0.9980		0.9900
Trichloroethene	+++++ 0.2550	0.2677 0.2584	0.2634 0.2457	0.2596 0.2464	0.2590 +++++	Ave		0.2569				3.0		15.0			
Ethyl acrylate	0.4615 0.3518	0.4238 0.3541	0.3402 0.3347	0.3649 0.3255	0.3616 0.3027	Ave		0.3621				13.0		15.0			
Methylcyclohexane	0.4487 0.4175	0.4399 0.4218	0.4069 0.3911	0.4095 0.3828	0.4015 0.3523	Ave		0.4072				6.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39837-2 Analy Batch No.: 110993

SDG No.:

Instrument ID: HP35 GC Column: ZB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/01/2013 19:38 Calibration End Date: 10/02/2013 00:15 Calibration ID: 19385

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,2-Dichloropropane	0.4415 0.2562	0.2799 0.2541	0.2533 0.2451	0.2639 0.2418	0.2540 0.2229	Lin1	0.0984	0.2330							0.9980		0.9900
Methyl methacrylate	0.1599 0.1540	0.1713 0.1504	0.1625 0.1470	0.1484 0.1416	0.1439 0.1297	Ave		0.1509				7.8		15.0			
Dibromomethane	0.1277 0.1127	0.1186 0.1112	0.1068 0.1069	0.1119 0.1077	0.1117 0.1008	Ave		0.1116				6.6		15.0			
1,4-Dioxane	+++++ 0.0011	+++++ 0.0011	0.0010 0.0011	0.0011 0.0012	0.0010 +++++	Ave		0.0011				4.0		15.0			
Bromodichloromethane	0.4278 0.3046	0.3081 0.3098	0.2873 0.2988	0.3128 0.2917	0.3010 0.2698	Lin2	0.0572	0.2889							0.9930		0.9900
2-Nitropropane	0.0171 0.0657	0.0652 0.0696	0.0573 0.0703	0.0574 0.0733	0.0603 0.0723	Lin1	-0.057	0.0720							0.9990		0.9900
2-Chloroethyl vinyl ether	+++++ 0.0955	0.0675 0.1021	0.0734 0.1087	0.0809 0.1150	0.0876 0.1127	Lin1	-0.087	0.1120							0.9980		0.9900
cis-1,3-Dichloropropene	0.6106 0.4621	0.4678 0.4657	0.4448 0.4550	0.4458 0.4464	0.4493 0.3902	Lin2	0.0746	0.4348							0.9950		0.9900
4-Methyl-2-pentanone (MIBK)	0.0562 0.0676	0.0654 0.0662	0.0648 0.0651	0.0659 0.0660	0.0658 0.0602	Ave		0.0643				5.3		15.0			
Toluene	+++++ 1.3610	1.9302 1.2981	1.5716 1.2009	1.4591 1.0441	1.4138 +++++	Lin2	0.7020	1.2444							0.9920		0.9900
trans-1,3-Dichloropropene	0.4204 0.3473	0.3520 0.3553	0.3156 0.3516	0.3347 0.3535	0.3341 0.3172	Ave		0.3482				8.4		15.0			
Ethyl methacrylate	0.2626 0.2779	0.2663 0.2788	0.2513 0.2788	0.2658 0.2803	0.2691 0.2576	Ave		0.2689				3.7		15.0			
1,1,2-Trichloroethane	0.2562 0.2119	0.2281 0.2089	0.2155 0.2014	0.2113 0.2018	0.2093 0.1844	Ave		0.2129				8.9		15.0			
Tetrachloroethene	0.4975 0.3712	0.3992 0.3689	0.3902 0.3549	0.3783 0.3499	0.3671 0.3093	Lin2	0.0690	0.3518							0.9970		0.9900
1,3-Dichloropropane	0.4743 0.3820	0.4233 0.3775	0.3918 0.3636	0.3838 0.3602	0.3739 0.3199	Ave		0.3850				11.0		15.0			
2-Hexanone	0.0605 0.0619	0.0603 0.0591	0.0576 0.0591	0.0600 0.0593	0.0610 0.0545	Ave		0.0593				3.5		15.0			
n-Butyl acetate	+++++ 0.1153	0.1675 0.1160	0.1045 0.1163	0.1341 0.1209	0.1095 +++++	Lin1	0.0201	0.1183							0.9990		0.9900
Chlorodibromomethane	0.2041 0.1867	0.1523 0.1919	0.1636 0.1925	0.1723 0.1940	0.1759 0.1816	Ave		0.1815				8.6		15.0			
1,2-Dibromoethane (EDB)	0.2261 0.2038	0.1987 0.2020	0.1912 0.1977	0.2044 0.1962	0.1979 0.1801	Ave		0.1998				5.8		15.0			
Chlorobenzene	1.3747 0.8601	0.9464 0.8266	0.8925 0.8027	0.8818 0.7463	0.8486 +++++	Lin2	0.2603	0.7965			0.3000				0.9940		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39837-2 Analy Batch No.: 110993

SDG No.:

Instrument ID: HP35 GC Column: ZB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/01/2013 19:38 Calibration End Date: 10/02/2013 00:15 Calibration ID: 19385

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Ethylbenzene	+++++ 1.4875	1.5985 1.4340	1.5130 1.3196	1.4979 1.1092	1.4494 +++++	Ave		1.4261				11.0		15.0			
1,1,1,2-Tetrachloroethane	0.4125 0.3009	0.3023 0.3003	0.2989 0.2967	0.2894 0.2910	0.2982 0.2535	Lin2	0.0547	0.2831							0.9940		0.9900
m,p-Xylene	+++++ 1.1704	1.2705 1.1409	1.1756 1.0578	1.1613 0.9485	1.1383 +++++	Ave		1.1329				8.4		15.0			
o-Xylene	+++++ 1.1935	1.2596 1.1635	1.1833 1.0823	1.1981 0.9744	1.1652 +++++	Ave		1.1525				7.6		15.0			
Styrene	1.2780 0.9871	0.9236 0.9787	0.9136 0.9211	0.9583 0.8303	0.9571 +++++	Lin2	0.1461	0.9089							0.9910		0.9900
Bromoform	+++++ 0.1369	0.1098 0.1457	0.1187 0.1548	0.1231 0.1604	0.1284 0.1495	Lin1	-0.078	0.1527			0.1000				0.9980		0.9900
Isopropylbenzene	+++++ 1.4642	1.5160 1.4351	1.4451 1.3459	1.4436 1.1463	1.4253 +++++	Ave		1.4027				8.1		15.0			
Cyclohexanone	0.0081 0.0036	0.0071 0.0033	0.0051 0.0034	0.0041 0.0036	0.0040 0.0038	Lin1	0.0253	0.0036							0.9980		0.9900
Bromobenzene	1.3154 0.8777	1.0423 0.9038	0.8980 0.9056	0.9223 0.8707	0.9131 0.8198	Lin2	0.2095	0.8654							0.9980		0.9900
1,1,2,2-Tetrachloroethane	0.4484 0.3822	0.4049 0.3770	0.3987 0.3835	0.3930 0.3783	0.3946 0.3749	Ave		0.3936			0.3000	5.5		15.0			
1,2,3-Trichloropropane	+++++ 0.1062	0.0973 0.1100	0.1103 0.1141	0.1054 0.1132	0.1100 0.1093	Ave		0.1084				4.6		15.0			
N-Propylbenzene	+++++ 2.8705	3.1202 2.8438	2.8744 2.6008	2.8579 2.1259	2.8710 +++++	Ave		2.7705				11.0		15.0			
trans-1,4-Dichloro-2-butene	+++++ 0.0818	0.0783 0.0823	0.0700 0.0849	0.0729 0.0876	0.0764 +++++	Ave		0.0793				7.6		15.0			
2-Chlorotoluene	2.2280 1.6826	1.8748 1.6556	1.7469 1.6137	1.6506 1.4472	1.6959 1.2195	Lin2	0.3457	1.5471							0.9910		0.9900
1,3,5-Trimethylbenzene	+++++ 2.0964	2.1838 2.0723	1.9665 1.9404	2.0038 1.6734	2.0478 1.3210	Ave		1.9228				14.0		15.0			
4-Chlorotoluene	2.4240 1.8369	2.0261 1.8164	1.8382 1.7406	1.8111 1.5458	1.8548 +++++	Lin2	0.3314	1.7340							0.9970		0.9900
tert-Butylbenzene	+++++ 1.7835	1.7250 1.7886	1.6735 1.7058	1.6726 1.5431	1.7569 1.2789	Ave		1.6587				9.7		15.0			
1,2,4-Trimethylbenzene	+++++ 2.1907	2.0061 2.1368	1.9687 1.9792	2.1128 1.7188	2.1514 1.3248	Ave		1.9544				14.0		15.0			
sec-Butylbenzene	+++++ 2.6574	2.5515 2.6193	2.4017 2.4008	2.5036 2.0028	2.5946 +++++	Ave		2.4665				8.5		15.0			
p-Isopropyltoluene	+++++ 2.3804	2.0937 2.3415	2.0660 2.1590	2.2179 1.8176	2.3153 1.3971	Ave		2.0876				15.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39837-2 Analy Batch No.: 110993

SDG No.:

Instrument ID: HP35 GC Column: ZB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/01/2013 19:38 Calibration End Date: 10/02/2013 00:15 Calibration ID: 19385

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,3-Dichlorobenzene	1.6844 1.3163	1.4446 1.2854	1.3294 1.2161	1.3253 1.1003	1.3227 +++++	Ave		1.3360				12.0		15.0			
1,4-Dichlorobenzene	1.8131 1.3329	1.4832 1.2688	1.3326 1.2062	1.3367 1.1191	1.3388 0.9589	Lin2	0.3063	1.2000							0.9900		0.9900
1,2,3-Trimethylbenzene	2.5896 2.1838	2.1738 2.1403	2.0874 1.9719	2.1412 1.6796	2.1870 +++++	Ave		2.1283				11.0		15.0			
Benzyl chloride	0.3433 0.3918	0.3427 0.4108	0.3338 0.4088	0.3513 0.4011	0.3559 +++++	Lin2	-0.029	0.3836							0.9950		0.9900
n-Butylbenzene	2.2663 2.0976	1.9825 2.0760	1.8430 1.9270	1.9882 1.6400	2.0618 1.2667	Ave		1.9149				15.0		15.0			
1,2-Dichlorobenzene	1.4612 1.1766	1.2607 1.1486	1.2192 1.1112	1.1944 1.0287	1.1897 0.9028	Ave		1.1693				12.0		15.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.0678	+++++ 0.0716	0.0465 0.0758	0.0629 0.0812	0.0681 0.0847	Lin1	-0.111	0.0821							0.9980		0.9900
1,3,5-Trichlorobenzene	1.3744 1.0795	1.1569 1.0879	1.0463 1.0871	1.0601 1.0394	1.0837 0.9571	Ave		1.0972				10.0		15.0			
1,2,4-Trichlorobenzene	1.0690 0.9133	0.9463 0.9348	0.8489 0.9417	0.8651 0.9168	0.8941 0.8681	Ave		0.9198				6.8		15.0			
Hexachlorobutadiene	0.7057 0.5637	0.6157 0.5614	0.5772 0.5647	0.5705 0.5560	0.5538 0.5384	Ave		0.5807				8.3		15.0			
Naphthalene	1.2457 1.3230	1.0783 1.3534	1.0238 1.3587	1.1230 1.3067	1.2132 1.1965	Ave		1.2222				9.6		15.0			
1,2,3-Trichlorobenzene	0.8988 0.7855	0.8319 0.7935	0.7472 0.7981	0.7709 0.7729	0.7919 0.7417	Ave		0.7933				5.7		15.0			
Dibromofluoromethane (Surr)	0.2376 0.2367	0.2370 0.2384	0.2370 0.2356	0.2387 0.2381	0.2349 0.2276	Ave		0.2361				1.4		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2326 0.2314	0.2423 0.2324	0.2432 0.2289	0.2441 0.2299	0.2334 0.2281	Ave		0.2346				2.6		15.0			
Toluene-d8 (Surr)	1.2696 1.2741	1.2684 1.2611	1.2683 1.2613	1.2749 1.2790	1.2769 1.2515	Ave		1.2685				0.7		15.0			
4-Bromofluorobenzene (Surr)	0.8141 0.7945	0.8144 0.8152	0.8123 0.8379	0.8028 0.8446	0.8096 0.8947	Ave		0.8240				3.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39837-2 Analy Batch No.: 110993

SDG No.:

Instrument ID: HP35 GC Column: ZB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/01/2013 19:38 Calibration End Date: 10/02/2013 00:15 Calibration ID: 19385

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 490-110993/12	1001-12.D
Level 2	STD 490-110993/13	1001-13.D
Level 3	STD 490-110993/14	1001-14.D
Level 4	STD 490-110993/15	1001-15.D
Level 5	STD 490-110993/16	1001-16.D
Level 6	STD 490-110993/17	1001-17.D
Level 7	ICIS 490-110993/18	1001-18.D
Level 8	STD 490-110993/19	1001-19.D
Level 9	STD 490-110993/20	1001-20.D
Level 10	STD 490-110993/21	1001-21.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Dichlorodifluoromethane	FB	Ave	4272 192012	9193 472309	18969 948150	45995 1986361	91119 3634704	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Chloromethane	FB	Lin1	16368 259013	17361 611237	32050 1212052	66272 2371495	128730 4569545	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Vinyl chloride	FB	Ave	6534 214251	10837 531359	19977 1086502	51196 2159892	101769 4160031	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Butadiene	FB	Ave	4770 209463	9561 525017	19093 1123140	47128 2265139	97761 4208387	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Bromomethane	FB	Lin1	+++++ 97159	4446 259426	9022 557682	20860 +++++	41975 +++++	+++++ 20.0	1.00 50.0	2.00 100	5.00 +++++	10.0 +++++
Chloroethane	FB	Lin2	5306 132185	7602 330973	14325 692114	33040 1392708	64692 +++++	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
Dichlorofluoromethane	FB	Lin2	13227 316756	16979 771252	32859 1549411	79482 2957991	155674 5761814	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Trichlorofluoromethane	FB	Ave	6749 262967	13470 639185	25684 1431552	65017 2834915	122623 5397533	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Diethyl ether	FB	Lin2	4430 120476	6481 300975	11583 601875	29846 1214988	60936 2267357	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Ethanol	FB	Lin2	5339 138330	8115 340649	15247 672501	36453 1351110	69300 2762612	25.0 1000	50.0 2500	100 5000	250 10000	500 20000
Acrolein	FB	Ave	1101 41505	1892 103435	3772 205391	9658 428014	19103 824031	1.25 50.0	2.50 125	5.00 250	12.5 500	25.0 1000
1,1,2-Trichloro-1,2,2-trichfluoroethane	FB	Ave	4266 170251	8820 415250	16791 807346	41390 1607495	80660 3002502	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,1-Dichloroethene	FB	Lin2	5793 158866	8200 393186	15853 801881	39272 1662517	78310 3183074	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Acetone	FB	Lin2	1684 43063	2790 103925	4710 212207	11209 435455	21571 891274	2.50 100	5.00 250	10.0 500	25.0 1000	50.0 2000

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39837-2 Analy Batch No.: 110993

SDG No.:

Instrument ID: HP35 GC Column: ZB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/01/2013 19:38 Calibration End Date: 10/02/2013 00:15 Calibration ID: 19385

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Iodomethane	FB	Ave	+++++ 234047	8683 616770	18729 1204097	50950 2298292	107338 +++++	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
Isopropyl alcohol	FB	Lin2	1756 51615	3269 118780	6031 246656	14527 528153	26191 1023069	5.00 200	10.0 500	20.0 1000	50.0 2000	100 4000
Carbon disulfide	FB	Lin2	22189 525769	29177 1335482	52302 2503945	130243 4833783	267642 +++++	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
3-Chloro-1-propene	FB	Ave	+++++ 161242	7064 420753	16041 857189	33992 1803519	79159 3692512	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Acetonitrile	FB	Lin1	19657 425166	24483 1029285	45901 1972723	105904 3757073	208086 6988178	5.00 200	10.0 500	20.0 1000	50.0 2000	100 4000
Methyl acetate	FB	Lin2	13681 485888	26704 1174494	54334 2265144	122205 4510383	241849 7759392	2.50 100	5.00 250	10.0 500	25.0 1000	50.0 2000
Methylene Chloride	FB	Lin1	9124 190518	10494 468057	19219 920989	47880 1843934	93615 3462326	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
tert-Butyl alcohol (TBA)	FB	Ave	1856 76679	3884 188904	7553 371532	19548 805803	38676 1623118	5.00 200	10.0 500	20.0 1000	50.0 2000	100 4000
Methyl tert-butyl ether	FB	Lin2	13414 392248	20669 967615	39371 1901166	97685 3707778	189223 6418192	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
trans-1,2-Dichloroethene	FB	Lin2	11743 256661	14510 635996	26509 1258688	64145 2497379	126558 5027713	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Acrylonitrile	FB	Ave	9639 383598	20255 930413	39703 1821320	95020 3739368	186166 6470626	5.00 200	10.0 500	20.0 1000	50.0 2000	100 4000
Hexane	FB	Ave	8046 271743	14768 669720	27139 1294564	66125 2551904	130902 4573733	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Diisopropyl ether	FB	Lin1	29450 636777	34594 1526077	65174 2926807	156059 5365599	306823 +++++	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
1,1-Dichloroethane	FB	Lin1	17244 343545	18186 853869	35655 1660824	86550 3449047	170327 6559043	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Vinyl acetate	FB	Lin1	34136 787282	41474 1887500	80463 3611671	191121 +++++	385902 +++++	1.00 40.0	2.00 100	4.00 200	10.0 +++++	20.0 +++++
Chloroprene	FB	Lin2	11614 303117	15534 736209	28970 1442651	72526 2813104	144052 +++++	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
Ethyl tert-butyl ether	FB	Lin2	+++++ 522821	25808 1257526	49864 2464116	124989 4805145	252356 +++++	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
2,2-Dichloropropane	FB	Lin2	11066 275654	14781 681917	28420 1319455	66908 2695617	129834 4923113	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
cis-1,2-Dichloroethene	FB	Lin1	14091 324229	16385 811652	32227 1571909	80530 3167414	158978 6050397	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
2-Butanone (MEK)	FB	Ave	1322 59325	2942 141405	4928 285929	13859 602662	28309 1206853	2.50 100	5.00 250	10.0 500	25.0 1000	50.0 2000
Ethyl acetate	FB	Ave	9608 327304	16626 805030	37563 1588481	78211 3158755	159283 5728835	1.00 40.0	2.00 100	4.00 200	10.0 400	20.0 800

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39837-2 Analy Batch No.: 110993

SDG No.:

Instrument ID: HP35 GC Column: ZB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/01/2013 19:38 Calibration End Date: 10/02/2013 00:15 Calibration ID: 19385

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Propionitrile	FB	Ave	3581 144236	6809 354223	13100 718636	36620 1473807	64429 2799136	5.00 200	10.0 500	20.0 1000	50.0 2000	100 4000
Methacrylonitrile	FB	Ave	19246 700227	40105 1671832	81807 3168464	172679 5790798	348796 +++++	5.00 200	10.0 500	20.0 1000	50.0 2000	100 +++++
Bromochloromethane	FB	Lin2	3879 111838	5311 267422	11168 526181	27118 1043724	55626 1956986	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Chloroform	FB	Lin2	+++++ 333345	21397 791923	38524 1523943	88767 3000353	165708 5427205	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Tetrahydrofuran	FB	Lin1	2011 58022	5221 208683	8529 406770	15049 846230	29569 1621123	1.00 40.0	2.00 100	4.00 200	10.0 400	20.0 800
1,1,1-Trichloroethane	FB	Lin2	10932 286782	14548 692106	28659 1365303	70120 2650977	138029 4716370	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Cyclohexane	FB	Ave	9459 346186	17413 864585	33855 1702675	81594 3314340	168135 5849347	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,1-Dichloropropene	FB	Lin2	8384 252176	12740 625256	24018 1232708	60633 2468200	120309 +++++	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
Carbon tetrachloride	FB	Ave	7484 240458	12415 610615	23434 1182544	59041 2328162	118874 4218243	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Isobutanol	FB	Lin2	+++++ 97151	7511 236178	14474 478833	23531 994367	48544 1929967	+++++ 200	10.0 500	20.0 1000	50.0 2000	100 4000
Benzene	FB	Ave	+++++ 805592	43541 1960278	83402 3703848	200824 6642405	393676 +++++	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
1,2-Dichloroethane	FB	Lin2	7639 225312	11548 557402	22821 1099339	56148 2169313	112176 3871229	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Tert-amyl methyl ether	FB	Lin2	15183 438557	21727 1096047	43094 2158976	108364 4227411	212679 7087444	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Heptane	FB	Ave	8727 285284	16190 717172	27858 1406547	65206 2722304	134967 4809072	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
n-Butanol	FB	Lin1	439 56732	3197 137997	5871 275805	13583 589217	26052 1249015	12.5 500	25.0 1250	50.0 2500	125 5000	250 10000
Trichloroethene	FB	Ave	+++++ 203817	10436 513984	21220 1007581	50590 2054709	102045 +++++	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
Ethyl acrylate	FB	Ave	9173 281175	16521 704238	27401 1372808	71114 2714623	142450 4999547	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Methylcyclohexane	FB	Ave	8917 333649	17149 838813	32781 1603744	79805 3191840	158201 5817096	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,2-Dichloropropane	FB	Lin1	8774 204766	10914 505303	20402 1005092	51425 2016557	100057 3680595	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Methyl methacrylate	FB	Ave	6356 246122	13361 598196	26183 1206011	57846 2361775	113371 4282518	1.00 40.0	2.00 100	4.00 200	10.0 400	20.0 800
Dibromomethane	FB	Ave	2539 90058	4625 221234	8604 438488	21817 898298	44023 1663895	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39837-2 Analy Batch No.: 110993

SDG No.:

Instrument ID: HP35 GC Column: ZB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/01/2013 19:38 Calibration End Date: 10/02/2013 00:15 Calibration ID: 19385

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,4-Dioxane	FB	Ave	+++++ 17346	+++++ 42269	1684 89134	4404 193190	8196 +++++	+++++ 400	+++++ 1000	40.0 2000	100 4000	200 +++++
Bromodichloromethane	FB	Lin2	8502 243457	12014 616008	23143 1225486	60974 2432382	118592 4454768	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
2-Nitropropane	FB	Lin1	679 105053	5085 276985	9237 576235	22372 1222156	47504 2389154	1.00 40.0	2.00 100	4.00 200	10.0 400	20.0 800
2-Chloroethyl vinyl ether	CBZ	Lin1	+++++ 60102	2082 160985	4637 350787	12472 750086	27442 1523260	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
cis-1,3-Dichloropropene	CBZ	Lin2	9543 290763	14438 734403	28094 1468421	68744 2910137	140813 5274696	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	4395 212595	10099 521933	20466 1050493	50788 2152990	103091 4067194	2.50 100	5.00 250	10.0 500	25.0 1000	50.0 2000
Toluene	CBZ	Lin2	+++++ 856368	59571 2047060	99275 3875358	224982 6806890	443095 +++++	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
trans-1,3-Dichloropropene	CBZ	Ave	6570 218535	10865 560251	19938 1134668	51609 2304863	104700 4287991	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Ethyl methacrylate	CBZ	Ave	4104 174841	8220 439637	15874 899817	40989 1827722	84347 3482847	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,1,2-Trichloroethane	CBZ	Ave	4004 133356	7041 329375	13614 649923	32581 1315759	65612 2493045	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Tetrachloroethene	CBZ	Lin2	7776 233556	12319 581805	24650 1145334	58338 2281500	115048 4181931	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,3-Dichloropropane	CBZ	Ave	7412 240388	13063 595337	24750 1173266	59188 2348459	117180 4325273	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
2-Hexanone	CBZ	Ave	4731 194772	9302 466015	18203 953625	46284 1933977	95634 3682777	2.50 100	5.00 250	10.0 500	25.0 1000	50.0 2000
n-Butyl acetate	FB	Lin1	+++++ 92132	6530 230689	8418 476982	26140 1007828	43137 +++++	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
Chlorodibromomethane	CBZ	Ave	3190 117478	4700 302653	10332 621253	26574 1264920	55145 2454529	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,2-Dibromoethane (EDB)	CBZ	Ave	3534 128212	6132 318557	12076 637875	31515 1279092	62028 2435156	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Chlorobenzene	CBZ	Lin2	21485 541168	29209 1303498	56376 2590503	135964 4865361	265971 +++++	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
Ethylbenzene	CBZ	Ave	+++++ 935936	49333 2261413	95568 4258370	230969 7231743	454250 +++++	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
1,1,1,2-Tetrachloroethane	CBZ	Lin2	6447 189353	9331 473631	18880 957588	44627 1897481	93451 3427823	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
m,p-Xylene	CBZ	Ave	+++++ 736428	39211 1799201	74259 3413537	179070 6184046	356755 +++++	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
o-Xylene	CBZ	Ave	+++++ 750953	38874 1834716	74743 3492697	184747 6352567	365176 +++++	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39837-2 Analy Batch No.: 110993

SDG No.:

Instrument ID: HP35 GC Column: ZB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/01/2013 19:38 Calibration End Date: 10/02/2013 00:15 Calibration ID: 19385

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Styrene	CBZ	Lin2	19973 621096	28504 1543376	57711 2972501	147767 5413154	299979 +++++	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
Bromoform	CBZ	Lin1	+++++ 86145	3390 229759	7501 499610	18983 1045922	40254 2020912	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Isopropylbenzene	CBZ	Ave	+++++ 921287	46789 2263034	91281 4343318	222594 7473786	446699 +++++	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
Cyclohexanone	FB	Lin1	1611 28748	2749 66562	4118 138760	8019 299167	15722 621401	5.00 200	10.0 500	20.0 1000	50.0 2000	100 4000
Bromobenzene	DCB	Lin2	12004 337268	18726 872949	33617 1732353	85513 3357115	169340 5910103	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,1,2,2-Tetrachloroethane	DCB	Ave	4092 146857	7275 364133	14927 733600	36442 1458665	73184 2702579	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,2,3-Trichloropropane	DCB	Ave	+++++ 40791	1749 106214	4130 218268	9772 436456	20397 787758	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
N-Propylbenzene	DCB	Ave	+++++ 1102963	56058 2746645	107606 4975122	264985 8196742	532430 +++++	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
trans-1,4-Dichloro-2-butene	DCB	Ave	+++++ 31420	1406 79455	2622 162445	6756 337845	14163 +++++	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
2-Chlorotoluene	DCB	Lin2	20332 646535	33682 1599060	65397 3086850	153043 5580047	314512 8791543	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,3,5-Trimethylbenzene	DCB	Ave	+++++ 805510	39235 2001499	73617 3711831	185792 6452010	379769 9523025	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
4-Chlorotoluene	DCB	Lin2	22120 705806	36402 1754321	68814 3329646	167927 5960035	343981 +++++	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
tert-Butylbenzene	DCB	Ave	+++++ 685301	30991 1727439	62651 3263119	155089 5949885	325820 9219431	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,2,4-Trimethylbenzene	DCB	Ave	+++++ 841777	36042 2063736	73702 3786193	195898 6627391	398973 9550748	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
sec-Butylbenzene	DCB	Ave	+++++ 1021096	45840 2529832	89910 4592532	232136 7722141	481171 +++++	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
p-Isopropyltoluene	DCB	Ave	+++++ 914650	37615 2261447	77343 4130126	205647 7008021	429374 10071561	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,3-Dichlorobenzene	DCB	Ave	15371 505770	25954 1241491	49766 2326284	122880 4242542	245301 +++++	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
1,4-Dichlorobenzene	DCB	Lin2	16546 512171	26647 1225408	49886 2307393	123943 4314965	248275 6913039	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,2,3-Trimethylbenzene	DCB	Ave	23632 839105	39054 2067145	78143 3772214	198534 6476154	405590 +++++	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
Benzyl chloride	CBZ	Lin2	5366 246511	10577 647844	21088 1319326	54164 2614896	111545 +++++	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
n-Butylbenzene	DCB	Ave	20681 805989	35618 2005025	68994 3686165	184344 6323440	382365 9131847	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39837-2 Analy Batch No.: 110993

SDG No.:

Instrument ID: HP35 GC Column: ZB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/01/2013 19:38 Calibration End Date: 10/02/2013 00:15 Calibration ID: 19385

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,2-Dichlorobenzene	DCB	Ave	13334 452118	22650 1109330	45644 2125661	110742 3966571	220634 6508344	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,2-Dibromo-3-Chloropropane	DCB	Lin1	+++++ 26060	+++++ 69144	1741 145045	5830 313034	12622 610673	+++++ 20.0	+++++ 50.0	2.00 100	5.00 200	10.0 400
1,3,5-Trichlorobenzene	DCB	Ave	12542 414791	20785 1050728	39168 2079593	98291 4007699	200971 6900054	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,2,4-Trichlorobenzene	DCB	Ave	9755 350938	17001 902813	31781 1801400	80215 3534980	165808 6258200	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Hexachlorobutadiene	DCB	Ave	6440 216594	11061 542190	21608 1080234	52894 2143687	102699 3881366	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Naphthalene	DCB	Ave	11368 508367	19373 1307183	38328 2599169	104126 5038196	224988 8625982	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,2,3-Trichlorobenzene	DCB	Ave	8202 301824	14946 766426	27974 1526794	71475 2980024	146868 5347043	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Dibromofluoromethane (Surr)	FB	Ave	236070 236496	231038 237024	238605 241531	232604 248145	231357 234956	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	231150 231143	236197 231099	244849 234717	237833 239649	229885 235480	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0
Toluene-d8 (Surr)	CBZ	Ave	992128 1002108	978642 994343	1001446 1017586	982957 1042311	1000480 1057484	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0
4-Bromofluorobenzene (Surr)	DCB	Ave	371456 381607	365809 393690	380112 400696	372190 407080	375364 403144	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-12.D
Lims ID: std .5 Client ID:
Inject. Date: 01-Oct-2013 19:38:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: STD .5
Misc. Info.: 490-0025968-012
Operator: MJH HP35 Instrument ID: HP35
Purge Vol: 10.000 mL ALS Bottle#: 12
Lims Batch ID: 110993 Lims Sample ID: 12
Sublist: chrom-8260HP35*sub12
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP35\20131001-25968.b\8260HP35.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 02-Oct-2013 12:10:32 Calib Date: 02-Oct-2013 00:15:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK001

First Level Reviewer: himelickm Date: 02-Oct-2013 12:10:32

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.148	4.152	-0.004	98	993740	25.0	
* 2 Chlorobenzene-d5	117	6.527	6.531	-0.004	85	781440	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.680	8.678	0.002	93	456280	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.710	3.708	0.002	79	236070	25.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.941	3.945	-0.004	91	231150	24.8	
$ 6 Toluene-d8 (Surr)	98	5.310	5.308	0.002	84	992128	25.0	
$ 7 4-Bromofluorobenzene (Surr)	95	7.585	7.589	-0.004	95	371456	24.7	
9 Dichlorodifluoromethane	85	1.392	1.390	0.002	38	4272	0.4631	
10 Chloromethane	50	1.520	1.524	-0.004	68	16368	0.5527	
11 Vinyl chloride	62	1.587	1.585	0.002	4	6534	0.6118	
12 Butadiene	54	1.611	1.609	0.002	0	4770	0.4727	
13 Bromomethane	96	1.806	1.798	0.008	48	4138	1.18	
14 Chloroethane	64	1.861	1.859	0.002	41	5306	0.5291	
15 Dichlorofluoromethane	67	1.983	1.980	0.003	36	13227	0.5473	
16 Trichlorofluoromethane	101	2.007	2.005	0.002	55	6749	0.5122	
18 Ethanol	45	2.171	2.169	0.002	52	5339	25.5	
17 Ethyl ether	59	2.171	2.169	0.002	77	4430	0.5335	
19 Acrolein	56	2.299	2.278	0.021	1	1101	1.37	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.293	2.291	0.002	25	4266	0.5211	
21 1,1-Dichloroethene	96	2.323	2.321	0.002	69	5793	0.5402	
22 Acetone	58	2.378	2.370	0.008	86	1684	2.46	
23 Iodomethane	142	2.439	2.431	0.009	76	7440	0.6928	
25 Isopropyl alcohol	45	2.451	2.449	0.002	42	1756	4.67	
26 Carbon disulfide	76	2.475	2.473	0.002	89	22189	0.5472	
28 Acetonitrile	41	2.536	2.534	0.002	68	19657	4.12	
27 3-Chloro-1-propene	76	2.536	2.534	0.002	78	5609	0.6986	
29 Methyl acetate	43	2.548	2.540	0.008	93	13681	2.34	
30 Methylene Chloride	84	2.621	2.619	0.002	75	9124	0.5667	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
31 2-Methyl-2-propanol	59	2.688	2.680	0.008	33	1856	4.86	
32 Methyl tert-butyl ether	73	2.749	2.753	-0.004	81	13414	0.5154	
33 trans-1,2-Dichloroethene	61	2.767	2.765	0.002	78	11743	0.5584	
34 Acrylonitrile	53	2.792	2.783	0.009	86	9639	5.17	
35 Hexane	57	2.889	2.887	0.002	77	8046	0.6011	
36 Isopropyl ether	45	3.023	3.021	0.002	90	29450	0.5110	
37 1,1-Dichloroethane	63	3.035	3.033	0.002	50	17244	0.6367	
38 Vinyl acetate	43	3.041	3.033	0.008	97	34136	1.16	
39 2-Chloro-1,3-butadiene	53	3.078	3.075	0.003	47	11614	0.5477	
40 Tert-butyl ethyl ether	59	3.248	3.246	0.002	93	19992	0.7491	
42 2,2-Dichloropropane	77	3.388	3.386	0.002	66	11066	0.5408	
43 cis-1,2-Dichloroethene	61	3.400	3.398	0.002	48	14091	0.5751	
41 Ethyl acetate	43	3.418	3.410	0.008	42	9608	1.18	
44 2-Butanone (MEK)	72	3.412	3.410	0.002	74	1322	2.35	
45 Propionitrile	54	3.491	3.477	0.014	6	3581	5.15	
46 Methacrylonitrile	41	3.564	3.556	0.008	83	19246	5.47	
47 Chlorobromomethane	130	3.564	3.562	0.002	32	3879	0.5394	
49 Tetrahydrofuran	42	3.601	3.599	0.002	1	2011	1.11	
48 Chloroform	83	3.601	3.599	0.002	58	19423	0.8065	
51 1,1,1-Trichloroethane	97	3.710	3.708	0.002	5	10932	0.5413	
52 Cyclohexane	56	3.735	3.732	0.003	69	9459	0.5635	
54 Carbon tetrachloride	117	3.820	3.811	0.009	70	7484	0.6231	
53 1,1-Dichloropropene	75	3.814	3.811	0.003	50	8384	0.5301	
55 Isobutyl alcohol	43	3.917	3.909	0.008	26	2892	-0.9258	
57 Benzene	78	3.966	3.964	0.002	54	37409	0.9560	
58 1,2-Dichloroethane	62	3.996	3.994	0.002	15	7639	0.5213	
59 Tert-amyl methyl ether	73	4.002	4.000	0.002	86	15183	0.5329	
60 n-Heptane	43	4.069	4.067	0.002	79	8727	0.6175	
61 n-Butanol	56	4.465	4.371	0.094	1	439	9.21	
62 Trichloroethene	130	4.404	4.402	0.002	64	8377	0.8203	
63 Ethyl acrylate	55	4.513	4.511	0.002	0	9173	0.6373	
64 Methylcyclohexane	83	4.513	4.511	0.002	63	8917	0.5509	
65 1,2-Dichloropropane	63	4.586	4.584	0.002	65	8774	0.5252	
67 Methyl methacrylate	41	4.635	4.627	0.008	52	6356	1.06	
68 Dibromomethane	93	4.696	4.687	0.009	57	2539	0.5723	
69 1,4-Dioxane	88	4.708	4.700	0.008	9	875	20.3	
70 Dichlorobromomethane	83	4.793	4.791	0.002	59	8502	0.5423	
71 2-Nitropropane	43	5.018	4.979	0.039	1	679	1.03	
72 2-Chloroethyl vinyl ether	63	4.994	4.986	0.008	1	1002	1.06	
73 cis-1,3-Dichloropropene	75	5.122	5.113	0.009	46	9543	0.5307	
74 4-Methyl-2-pentanone (MIBK)	58	5.231	5.229	0.002	77	4395	2.19	
75 Toluene	91	5.365	5.363	0.002	88	51115	0.7500	
76 trans-1,3-Dichloropropene	75	5.566	5.557	0.009	49	6570	0.6037	
77 Ethyl methacrylate	69	5.602	5.588	0.014	1	4104	0.4883	
78 1,1,2-Trichloroethane	97	5.730	5.722	0.008	20	4004	0.6017	
79 Tetrachloroethene	166	5.809	5.801	0.008	78	7776	0.5109	
80 1,3-Dichloropropane	76	5.864	5.862	0.002	50	7412	0.6159	
81 2-Hexanone	58	5.912	5.904	0.008	81	4731	2.55	
82 n-Butyl acetate	43	5.998	5.983	0.015	21	1473	0.1434	
83 Chlorodibromomethane	127	6.065	6.062	0.003	19	3190	0.5623	
84 Ethylene Dibromide	107	6.168	6.160	0.008	41	3534	0.5659	
86 Chlorobenzene	112	6.557	6.555	0.002	80	21485	0.5362	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
88 1,1,1,2-Tetrachloroethane	131	6.624	6.622	0.002	9	6447	0.5354	
87 Ethylbenzene	91	6.624	6.622	0.002	86	34925	0.7835	
89 m-Xylene & p-Xylene	91	6.728	6.725	0.003	89	27745	0.7835	
90 o-Xylene	91	7.087	7.084	0.003	82	26557	0.7372	
91 Styrene	104	7.117	7.109	0.008	76	19973	0.5423	
92 Bromoform	173	7.324	7.322	0.002	11	1656	0.8565	
93 Isopropylbenzene	105	7.409	7.407	0.002	68	30611	0.6982	
94 Cyclohexanone	55	7.592	7.577	0.015	1	1611	4.21	
95 Bromobenzene	77	7.738	7.729	0.009	57	12004	0.5179	
96 1,1,2,2-Tetrachloroethane	83	7.750	7.747	0.003	1	4092	0.5697	
99 N-Propylbenzene	91	7.792	7.790	0.002	85	33608	0.6646	
98 trans-1,4-Dichloro-2-butene	53	7.787	7.790	-0.003	1	0	0	
97 1,2,3-Trichloropropane	110	7.806	7.790	0.016	1	0	0	
100 2-Chlorotoluene	91	7.902	7.900	0.002	74	20332	0.4966	
101 1,3,5-Trimethylbenzene	105	7.957	7.960	-0.004	63	22148	0.6311	
102 4-Chlorotoluene	91	8.005	8.003	0.002	55	22120	0.5078	
103 tert-Butylbenzene	119	8.261	8.265	-0.004	58	18453	0.6096	
104 1,2,4-Trimethylbenzene	105	8.322	8.319	0.003	55	21378	0.5993	
106 sec-Butylbenzene	105	8.474	8.471	0.003	40	26372	0.5858	
107 4-Isopropyltoluene	119	8.607	8.611	-0.004	61	22183	0.5822	
108 1,3-Dichlorobenzene	146	8.620	8.617	0.003	50	15371	0.6304	
109 1,4-Dichlorobenzene	146	8.705	8.703	0.002	76	16546	0.5003	
110 1,2,3-Trimethylbenzene	105	8.729	8.733	-0.004	0	23632	0.6084	
111 Benzyl chloride	91	8.851	8.842	0.009	1	5366	0.5234	
112 n-Butylbenzene	91	9.009	9.007	0.002	70	20681	0.5917	
113 1,2-Dichlorobenzene	146	9.070	9.068	0.002	49	13334	0.6248	
115 1,3,5-Trichlorobenzene	180	10.086	10.077	0.009	35	12542	0.6263	
116 1,2,4-Trichlorobenzene	180	10.834	10.832	0.002	19	9755	0.5811	
117 Hexachlorobutadiene	225	10.980	10.984	-0.004	20	6440	0.6076	
118 Naphthalene	128	11.120	11.112	0.008	1	11368	0.5096	
119 1,2,3-Trichlorobenzene	180	11.375	11.367	0.008	24	8202	0.5665	
S 132 1,2-Dichloroethene, Total	1				0		1.13	
S 131 Xylenes, Total	1				0		1.52	

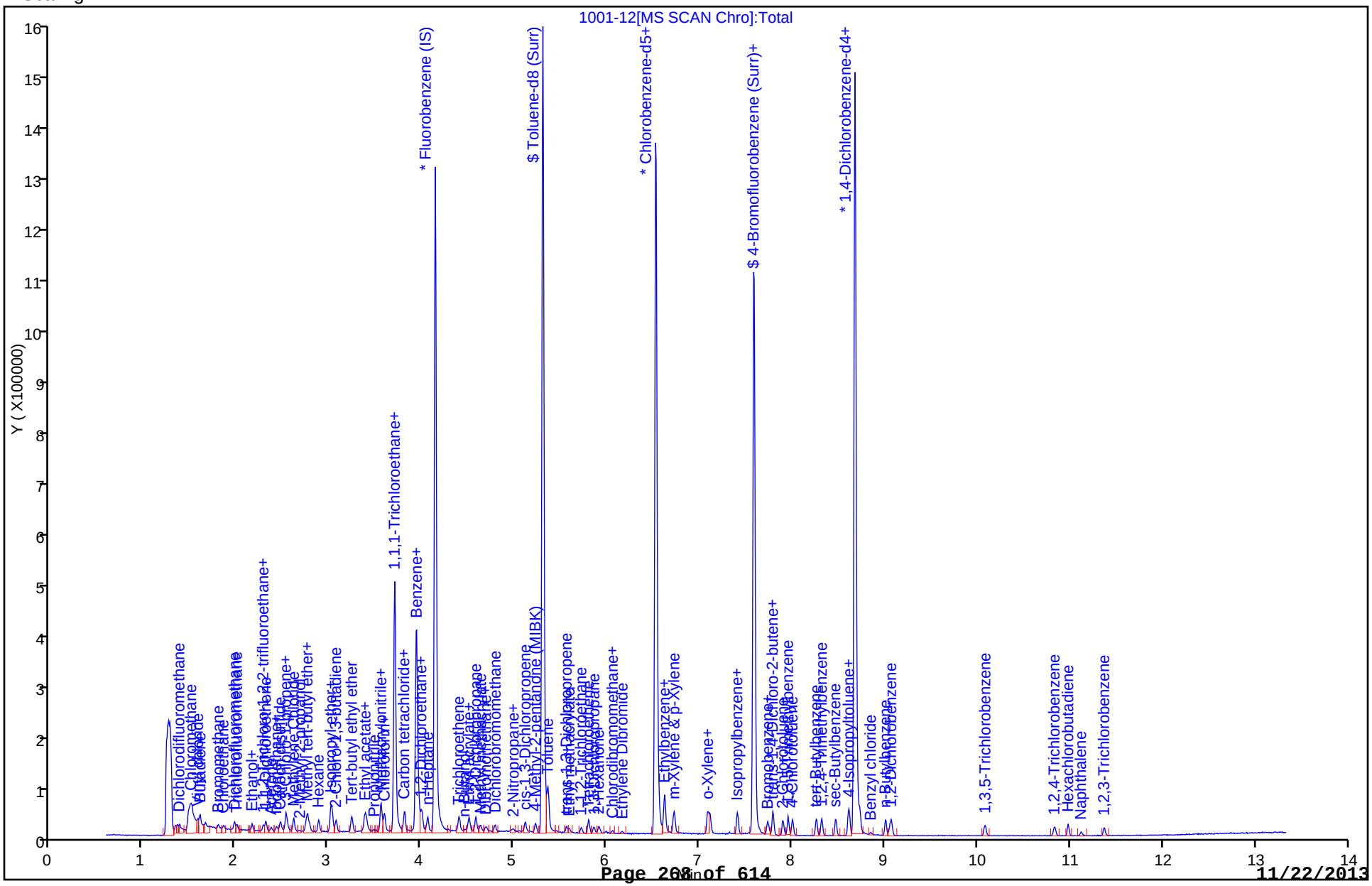
Report Date: 02-Oct-2013 12:10:32 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-12.D

Injection Date:	01-Oct-2013 19:38:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP35
Lims Batch ID:	110993	Lims Sample ID:	12
Operator ID:	MJH HP35	Purge Vol:	10.000 mL
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-13.D
Lims ID: std 1 Client ID:
Inject. Date: 01-Oct-2013 20:09:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: STD 1
Misc. Info.: 490-0025968-013
Operator: MJH HP35 Instrument ID: HP35
Purge Vol: 10.000 mL ALS Bottle#: 13
Lims Batch ID: 110993 Lims Sample ID: 13
Sublist: chrom-8260HP35*sub12
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP35\20131001-25968.b\8260HP35.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 02-Oct-2013 12:10:25 Calib Date: 02-Oct-2013 00:15:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK001

First Level Reviewer: himelickm Date: 02-Oct-2013 12:10:25

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.147	4.152	-0.005	98	974689	25.0	
* 2 Chlorobenzene-d5	117	6.532	6.531	0.001	84	771572	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.679	8.678	0.001	94	449153	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.709	3.708	0.001	80	231038	25.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.946	3.945	0.001	91	236197	25.8	
$ 6 Toluene-d8 (Surr)	98	5.309	5.308	0.001	84	978642	25.0	
$ 7 4-Bromofluorobenzene (Surr)	95	7.590	7.589	0.001	95	365809	24.7	
9 Dichlorodifluoromethane	85	1.391	1.390	0.001	66	9193	1.02	
10 Chloromethane	50	1.525	1.524	0.001	69	17361	0.6712	
11 Vinyl chloride	62	1.586	1.585	0.001	49	10837	1.03	
12 Butadiene	54	1.610	1.609	0.001	0	9561	0.9660	
13 Bromomethane	96	1.805	1.798	0.007	52	4446	1.26	
14 Chloroethane	64	1.860	1.859	0.001	52	7602	0.9096	
15 Dichlorofluoromethane	67	1.981	1.980	0.001	50	16979	0.8277	
16 Trichlorofluoromethane	101	2.006	2.005	0.001	53	13470	1.04	
18 Ethanol	45	2.170	2.169	0.001	47	8115	47.5	
17 Ethyl ether	59	2.170	2.169	0.001	76	6481	0.9147	
19 Acrolein	56	2.286	2.278	0.008	1	1892	2.41	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.292	2.291	0.001	49	8820	1.10	
21 1,1-Dichloroethene	96	2.322	2.321	0.001	71	8200	0.8767	
22 Acetone	58	2.377	2.370	0.007	90	2790	5.23	
23 Iodomethane	142	2.438	2.431	0.008	76	8683	0.8244	
25 Isopropyl alcohol	45	2.456	2.449	0.007	43	3269	10.8	
26 Carbon disulfide	76	2.474	2.473	0.001	98	29177	0.8575	
28 Acetonitrile	41	2.535	2.534	0.001	71	24483	7.12	
27 3-Chloro-1-propene	76	2.535	2.534	0.001	77	7064	0.8970	
29 Methyl acetate	43	2.547	2.540	0.007	94	26704	5.29	
30 Methylene Chloride	84	2.620	2.619	0.001	77	10494	0.7499	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
31 2-Methyl-2-propanol	59	2.681	2.680	0.001	59	3884	10.4	
32 Methyl tert-butyl ether	73	2.754	2.753	0.001	83	20669	0.9389	
33 trans-1,2-Dichloroethene	61	2.772	2.765	0.007	80	14510	0.8146	
34 Acrylonitrile	53	2.790	2.783	0.007	93	20255	11.1	
35 Hexane	57	2.888	2.887	0.001	88	14768	1.12	
36 Isopropyl ether	45	3.022	3.021	0.001	92	34594	0.7250	
37 1,1-Dichloroethane	63	3.034	3.033	0.001	72	18186	0.7175	
38 Vinyl acetate	43	3.040	3.033	0.007	96	41474	1.61	
39 2-Chloro-1,3-butadiene	53	3.076	3.075	0.001	67	15534	0.8540	
40 Tert-butyl ethyl ether	59	3.247	3.246	0.001	93	25808	1.01	
42 2,2-Dichloropropane	77	3.387	3.386	0.001	75	14781	0.8577	
43 cis-1,2-Dichloroethene	61	3.399	3.398	0.001	55	16385	0.7505	
41 Ethyl acetate	43	3.417	3.410	0.007	62	16626	2.08	
44 2-Butanone (MEK)	72	3.417	3.410	0.007	90	2942	5.34	
45 Propionitrile	54	3.484	3.477	0.007	75	6809	9.99	
46 Methacrylonitrile	41	3.563	3.556	0.007	91	40105	11.6	
47 Chlorobromomethane	130	3.569	3.562	0.007	68	5311	0.8395	
49 Tetrahydrofuran	42	3.600	3.599	0.001	38	5221	2.80	
48 Chloroform	83	3.600	3.599	0.001	71	21397	0.9641	
51 1,1,1-Trichloroethane	97	3.709	3.708	0.001	17	14548	0.8435	
52 Cyclohexane	56	3.733	3.732	0.001	83	17413	1.06	
54 Carbon tetrachloride	117	3.812	3.811	0.001	75	12415	1.05	
53 1,1-Dichloropropene	75	3.812	3.811	0.001	64	12740	0.9185	
55 Isobutyl alcohol	43	3.916	3.909	0.007	49	7511	9.33	
57 Benzene	78	3.971	3.964	0.007	58	43541	1.13	
58 1,2-Dichloroethane	62	4.001	3.994	0.007	33	11548	0.9136	
59 Tert-amyl methyl ether	73	4.007	4.000	0.007	84	21727	0.8778	
60 n-Heptane	43	4.068	4.067	0.001	82	16190	1.17	
61 n-Butanol	56	4.384	4.371	0.013	49	3197	33.6	
62 Trichloroethene	130	4.409	4.402	0.007	76	10436	1.04	
63 Ethyl acrylate	55	4.512	4.511	0.001	0	16521	1.17	
64 Methylcyclohexane	83	4.518	4.511	0.007	72	17149	1.08	
65 1,2-Dichloropropane	63	4.585	4.584	0.001	66	10914	0.7792	
67 Methyl methacrylate	41	4.634	4.627	0.007	70	13361	2.27	
68 Dibromomethane	93	4.695	4.687	0.008	71	4625	1.06	
69 1,4-Dioxane	88	4.711	4.700	0.011	1	0	0	
70 Dichlorobromomethane	83	4.792	4.791	0.001	71	12014	0.8685	
71 2-Nitropropane	43	4.981	4.979	0.002	70	5085	2.61	
72 2-Chloroethyl vinyl ether	63	4.993	4.986	0.007	8	2082	1.38	
73 cis-1,3-Dichloropropene	75	5.120	5.113	0.007	53	14438	0.9045	
74 4-Methyl-2-pentanone (MIBK)	58	5.230	5.229	0.001	83	10099	5.09	
75 Toluene	91	5.364	5.363	0.001	82	59571	0.9870	
76 trans-1,3-Dichloropropene	75	5.565	5.557	0.008	59	10865	1.01	
77 Ethyl methacrylate	69	5.595	5.588	0.007	55	8220	0.99	
78 1,1,2-Trichloroethane	97	5.723	5.722	0.001	43	7041	1.07	
79 Tetrachloroethene	166	5.808	5.801	0.007	80	12319	0.9383	
80 1,3-Dichloropropane	76	5.863	5.862	0.001	63	13063	1.10	
81 2-Hexanone	58	5.911	5.904	0.007	82	9302	5.08	
82 n-Butyl acetate	43	5.984	5.983	0.001	36	6530	1.25	
83 Chlorodibromomethane	127	6.063	6.062	0.001	31	4700	0.8391	
84 Ethylene Dibromide	107	6.167	6.160	0.007	47	6132	0.99	
86 Chlorobenzene	112	6.556	6.555	0.001	82	29209	0.8615	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
88 1,1,1,2-Tetrachloroethane	131	6.623	6.622	0.001	19	9331	0.8747	
87 Ethylbenzene	91	6.623	6.622	0.001	92	49333	1.12	
89 m-Xylene & p-Xylene	91	6.726	6.725	0.001	89	39211	1.12	
90 o-Xylene	91	7.091	7.084	0.007	88	38874	1.09	
91 Styrene	104	7.116	7.109	0.007	79	28504	0.8554	
92 Bromoform	173	7.329	7.322	0.007	22	3390	1.23	
93 Isopropylbenzene	105	7.414	7.407	0.007	77	46789	1.08	
94 Cyclohexanone	55	7.584	7.577	0.007	10	2749	12.5	
95 Bromobenzene	77	7.736	7.729	0.007	80	18726	0.9623	
96 1,1,2,2-Tetrachloroethane	83	7.748	7.747	0.001	14	7275	1.03	
99 N-Propylbenzene	91	7.797	7.790	0.007	94	56058	1.13	
98 trans-1,4-Dichloro-2-butene	53	7.797	7.790	0.007	1	1406	0.9873	
97 1,2,3-Trichloropropane	110	7.797	7.790	0.007	19	1749	0.8979	
100 2-Chlorotoluene	91	7.901	7.900	0.001	86	33682	0.9883	
101 1,3,5-Trimethylbenzene	105	7.961	7.960	0.001	78	39235	1.14	
102 4-Chlorotoluene	91	8.004	8.003	0.001	80	36402	0.9773	
103 tert-Butylbenzene	119	8.266	8.265	0.001	70	30991	1.04	
104 1,2,4-Trimethylbenzene	105	8.320	8.319	0.001	80	36042	1.03	
106 sec-Butylbenzene	105	8.472	8.471	0.001	66	45840	1.03	
107 4-Isopropyltoluene	119	8.606	8.611	-0.005	85	37615	1.00	
108 1,3-Dichlorobenzene	146	8.618	8.617	0.001	77	25954	1.08	
109 1,4-Dichlorobenzene	146	8.704	8.703	0.001	72	26647	0.9808	
110 1,2,3-Trimethylbenzene	105	8.728	8.733	-0.005	0	39054	1.02	
111 Benzyl chloride	91	8.850	8.842	0.008	7	10577	0.9692	
112 n-Butylbenzene	91	9.008	9.007	0.001	85	35618	1.04	
113 1,2-Dichlorobenzene	146	9.075	9.068	0.007	79	22650	1.08	
114 1,2-Dibromo-3-Chloropropane	157	9.896	9.889	0.007	1	0	0	
115 1,3,5-Trichlorobenzene	180	10.085	10.077	0.008	59	20785	1.05	
116 1,2,4-Trichlorobenzene	180	10.839	10.832	0.007	46	17001	1.03	
117 Hexachlorobutadiene	225	10.985	10.984	0.001	47	11061	1.06	
118 Naphthalene	128	11.119	11.112	0.007	25	19373	0.8822	
119 1,2,3-Trichlorobenzene	180	11.368	11.367	0.001	45	14946	1.05	
S 132 1,2-Dichloroethene, Total	1				0		1.57	
S 131 Xylenes, Total	1				0		2.21	

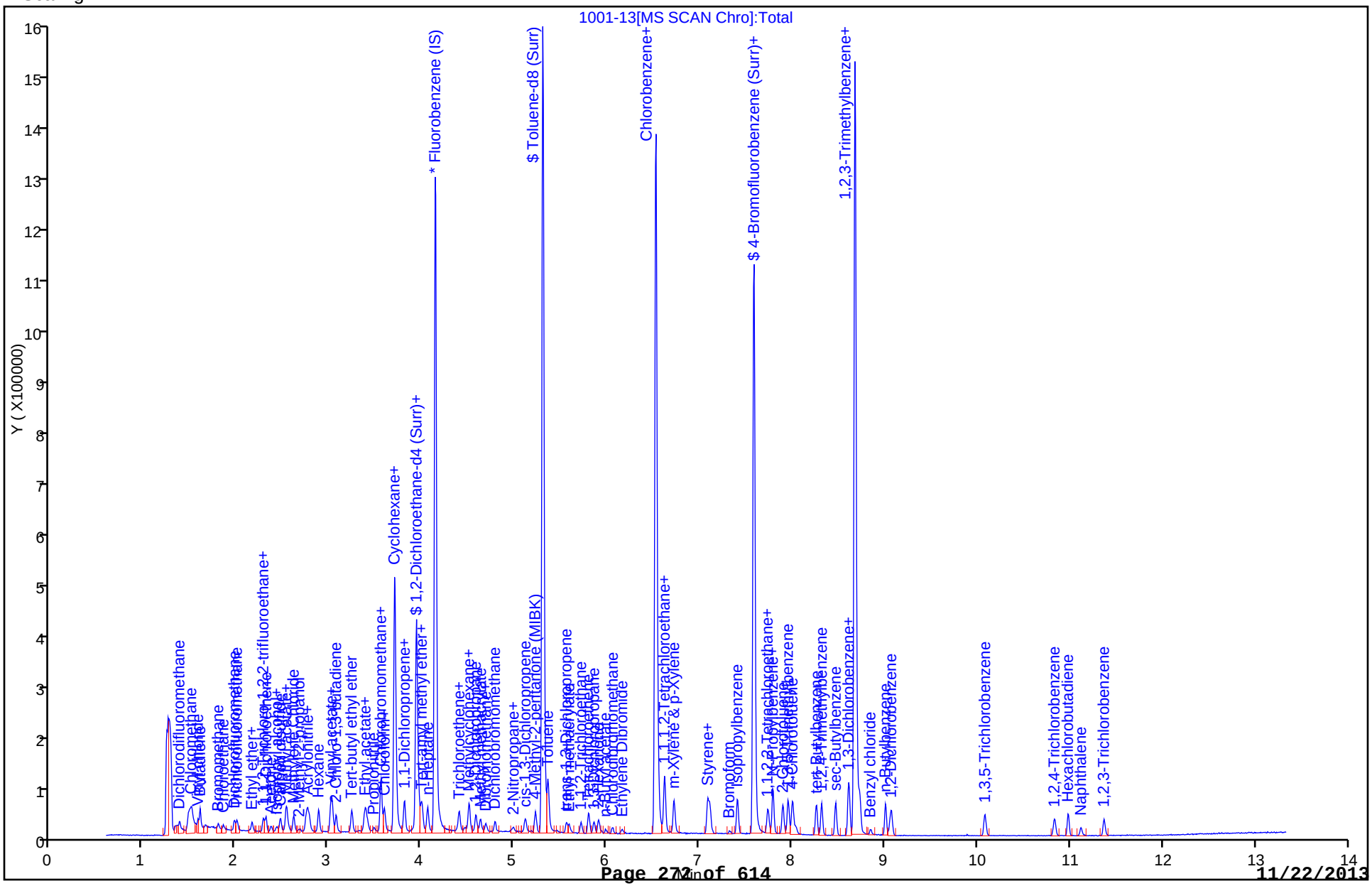
Report Date: 02-Oct-2013 12:10:25 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-13.D

Injection Date:	01-Oct-2013 20:09:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP35
Lims Batch ID:	110993	Lims Sample ID:	13
Operator ID:	MJH HP35	Purge Vol:	10.000 mL
Column Type:		Column Dia:	

Y Scaling:



11/22/2013

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-14.D
Lims ID: std 2 Client ID:
Inject. Date: 01-Oct-2013 20:40:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: STD 2
Misc. Info.: 490-0025968-014
Operator: MJH HP35 Instrument ID: HP35
Purge Vol: 10.000 mL ALS Bottle#: 14
Lims Batch ID: 110993 Lims Sample ID: 14
Sublist: chrom-8260HP35*sub12
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP35\20131001-25968.b\8260HP35.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 02-Oct-2013 12:10:20 Calib Date: 02-Oct-2013 00:15:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK001

First Level Reviewer: himelickm Date: 02-Oct-2013 12:10:19

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.152	4.152	0.0	98	1006943	25.0	
* 2 Chlorobenzene-d5	117	6.530	6.531	-0.001	87	789581	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.684	8.678	0.006	93	467954	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.707	3.708	-0.001	80	238605	25.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.945	3.945	0.0	91	244849	25.9	
$ 6 Toluene-d8 (Surr)	98	5.314	5.308	0.006	84	1001446	25.0	
$ 7 4-Bromofluorobenzene (Surr)	95	7.589	7.589	0.0	94	380112	24.6	
9 Dichlorodifluoromethane	85	1.390	1.390	0.0	89	18969	2.03	
10 Chloromethane	50	1.524	1.524	0.0	81	32050	1.91	
11 Vinyl chloride	62	1.590	1.585	0.005	79	19977	1.85	
12 Butadiene	54	1.609	1.609	0.0	0	19093	1.87	
13 Bromomethane	96	1.809	1.798	0.011	73	9022	2.09	
14 Chloroethane	64	1.864	1.859	0.005	69	14325	1.90	
15 Dichlorofluoromethane	67	1.980	1.980	0.0	65	32859	1.87	
16 Trichlorofluoromethane	101	2.010	2.005	0.005	86	25684	1.92	
18 Ethanol	45	2.168	2.169	-0.001	54	15247	98.3	
17 Ethyl ether	59	2.168	2.169	-0.001	82	11583	1.76	
19 Acrolein	56	2.284	2.278	0.006	4	3772	4.64	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.296	2.291	0.005	67	16791	2.02	
21 1,1-Dichloroethene	96	2.320	2.321	-0.001	84	15853	1.83	
22 Acetone	58	2.381	2.370	0.011	90	4710	9.53	
23 Iodomethane	142	2.436	2.431	0.006	76	18729	1.72	
25 Isopropyl alcohol	45	2.454	2.449	0.005	63	6031	21.1	
26 Carbon disulfide	76	2.479	2.473	0.006	97	52302	1.76	
28 Acetonitrile	41	2.539	2.534	0.005	66	45901	18.6	
27 3-Chloro-1-propene	76	2.533	2.534	-0.001	83	16041	1.97	
29 Methyl acetate	43	2.546	2.540	0.006	98	54334	11.1	
30 Methylene Chloride	84	2.625	2.619	0.006	86	19219	1.71	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
31 2-Methyl-2-propanol	59	2.685	2.680	0.005	81	7553	19.5	
32 Methyl tert-butyl ether	73	2.752	2.753	-0.001	86	39371	1.92	
33 trans-1,2-Dichloroethene	61	2.771	2.765	0.006	93	26509	1.77	
34 Acrylonitrile	53	2.789	2.783	0.006	98	39703	21.0	
35 Hexane	57	2.892	2.887	0.005	90	27139	2.00	
36 Isopropyl ether	45	3.020	3.021	-0.001	91	65174	1.79	
37 1,1-Dichloroethane	63	3.032	3.033	-0.001	90	35655	1.75	
38 Vinyl acetate	43	3.038	3.033	0.005	96	80463	3.67	
39 2-Chloro-1,3-butadiene	53	3.081	3.075	0.006	79	28970	1.78	
40 Tert-butyl ethyl ether	59	3.245	3.246	-0.001	95	49864	1.94	
42 2,2-Dichloropropane	77	3.385	3.386	-0.001	82	28420	1.88	
43 cis-1,2-Dichloroethene	61	3.403	3.398	0.005	65	32227	1.76	
41 Ethyl acetate	43	3.415	3.410	0.005	76	37563	4.54	
44 2-Butanone (MEK)	72	3.415	3.410	0.005	89	4928	8.66	
45 Propionitrile	54	3.482	3.477	0.005	85	13100	18.6	
46 Methacrylonitrile	41	3.561	3.556	0.005	94	81807	22.9	
47 Chlorobromomethane	130	3.568	3.562	0.006	66	11168	1.94	
49 Tetrahydrofuran	42	3.610	3.599	0.011	1	8529	4.38	
48 Chloroform	83	3.598	3.599	-0.001	73	38524	2.03	
51 1,1,1-Trichloroethane	97	3.707	3.708	-0.001	29	28659	1.89	
52 Cyclohexane	56	3.732	3.732	0.0	89	33855	1.99	
54 Carbon tetrachloride	117	3.817	3.811	0.006	69	23434	1.93	
53 1,1-Dichloropropene	75	3.817	3.811	0.006	82	24018	1.82	
55 Isobutyl alcohol	43	4.006	3.909	0.097	39	14474	23.6	
57 Benzene	78	3.969	3.964	0.005	93	83402	2.10	
58 1,2-Dichloroethane	62	3.999	3.994	0.005	57	22821	1.93	
59 Tert-amyl methyl ether	73	4.006	4.000	0.006	92	43094	1.89	
60 n-Heptane	43	4.066	4.067	-0.001	86	27858	1.95	
61 n-Butanol	56	4.389	4.371	0.018	66	5871	55.5	
62 Trichloroethene	130	4.407	4.402	0.005	85	21220	2.05	
63 Ethyl acrylate	55	4.517	4.511	0.006	0	27401	1.88	
64 Methylcyclohexane	83	4.517	4.511	0.006	84	32781	2.00	
65 1,2-Dichloropropane	63	4.590	4.584	0.006	82	20402	1.75	
67 Methyl methacrylate	41	4.632	4.627	0.005	80	26183	4.31	
68 Dibromomethane	93	4.693	4.687	0.006	79	8604	1.91	
69 1,4-Dioxane	88	4.711	4.700	0.011	50	1684	38.5	
70 Dichlorobromomethane	83	4.796	4.791	0.005	77	23143	1.79	
71 2-Nitropropane	43	4.985	4.979	0.006	75	9237	3.98	
72 2-Chloroethyl vinyl ether	63	4.997	4.986	0.011	53	4637	2.09	
73 cis-1,3-Dichloropropene	75	5.119	5.113	0.006	66	28094	1.87	
74 4-Methyl-2-pentanone (MIBK)	58	5.228	5.229	-0.001	90	20466	10.1	
75 Toluene	91	5.362	5.363	-0.001	90	99275	1.96	
76 trans-1,3-Dichloropropene	75	5.563	5.557	0.006	76	19938	1.81	
77 Ethyl methacrylate	69	5.593	5.588	0.005	72	15874	1.87	
78 1,1,2-Trichloroethane	97	5.721	5.722	-0.001	71	13614	2.02	
79 Tetrachloroethene	166	5.806	5.801	0.005	87	24650	2.02	
80 1,3-Dichloropropane	76	5.861	5.862	-0.001	76	24750	2.04	
81 2-Hexanone	58	5.910	5.904	0.006	89	18203	9.71	
82 n-Butyl acetate	43	5.983	5.983	0.0	78	8418	1.60	
83 Chlorodibromomethane	127	6.062	6.062	0.0	52	10332	1.80	
84 Ethylene Dibromide	107	6.165	6.160	0.005	57	12076	1.91	
86 Chlorobenzene	112	6.561	6.555	0.006	92	56376	1.91	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
88 1,1,1,2-Tetrachloroethane	131	6.621	6.622	-0.001	27	18880	1.92	
87 Ethylbenzene	91	6.621	6.622	-0.001	97	95568	2.12	
89 m-Xylene & p-Xylene	91	6.725	6.725	0.0	98	74259	2.08	
90 o-Xylene	91	7.090	7.084	0.006	92	74743	2.05	
91 Styrene	104	7.114	7.109	0.005	90	57711	1.85	
92 Bromoform	173	7.333	7.322	0.011	78	7501	2.06	
93 Isopropylbenzene	105	7.412	7.407	0.005	91	91281	2.06	
94 Cyclohexanone	55	7.577	7.577	0.0	22	4118	21.2	
95 Bromobenzene	77	7.735	7.729	0.006	88	33617	1.83	
96 1,1,2,2-Tetrachloroethane	83	7.747	7.747	0.0	55	14927	2.03	
99 N-Propylbenzene	91	7.796	7.790	0.006	96	107606	2.07	
98 trans-1,4-Dichloro-2-butene	53	7.796	7.790	0.006	13	2622	1.77	
97 1,2,3-Trichloropropane	110	7.789	7.790	-0.001	22	4130	2.04	
100 2-Chlorotoluene	91	7.899	7.900	-0.001	92	65397	2.03	
101 1,3,5-Trimethylbenzene	105	7.960	7.960	0.0	75	73617	2.05	
102 4-Chlorotoluene	91	8.008	8.003	0.005	89	68814	1.93	
103 tert-Butylbenzene	119	8.264	8.265	-0.001	85	62651	2.02	
104 1,2,4-Trimethylbenzene	105	8.319	8.319	0.0	87	73702	2.01	
106 sec-Butylbenzene	105	8.471	8.471	0.0	83	89910	1.95	
107 4-Isopropyltoluene	119	8.611	8.611	0.0	94	77343	1.98	
108 1,3-Dichlorobenzene	146	8.617	8.617	0.0	92	49766	1.99	
109 1,4-Dichlorobenzene	146	8.702	8.703	-0.001	86	49886	1.97	
110 1,2,3-Trimethylbenzene	105	8.732	8.733	-0.001	0	78143	1.96	
111 Benzyl chloride	91	8.848	8.842	0.006	56	21088	1.82	
112 n-Butylbenzene	91	9.012	9.007	0.005	88	68994	1.92	
113 1,2-Dichlorobenzene	146	9.073	9.068	0.005	89	45644	2.09	
114 1,2-Dibromo-3-Chloropropane	157	9.888	9.889	-0.001	1	1741	2.48	
115 1,3,5-Trichlorobenzene	180	10.083	10.077	0.006	83	39168	1.91	
116 1,2,4-Trichlorobenzene	180	10.837	10.832	0.005	66	31781	1.85	
117 Hexachlorobutadiene	225	10.983	10.984	-0.001	69	21608	1.99	
118 Naphthalene	128	11.117	11.112	0.005	69	38328	1.68	
119 1,2,3-Trichlorobenzene	180	11.367	11.367	0.0	73	27974	1.88	
S 132 1,2-Dichloroethene, Total	1				0		3.53	
S 131 Xylenes, Total	1				0		4.13	

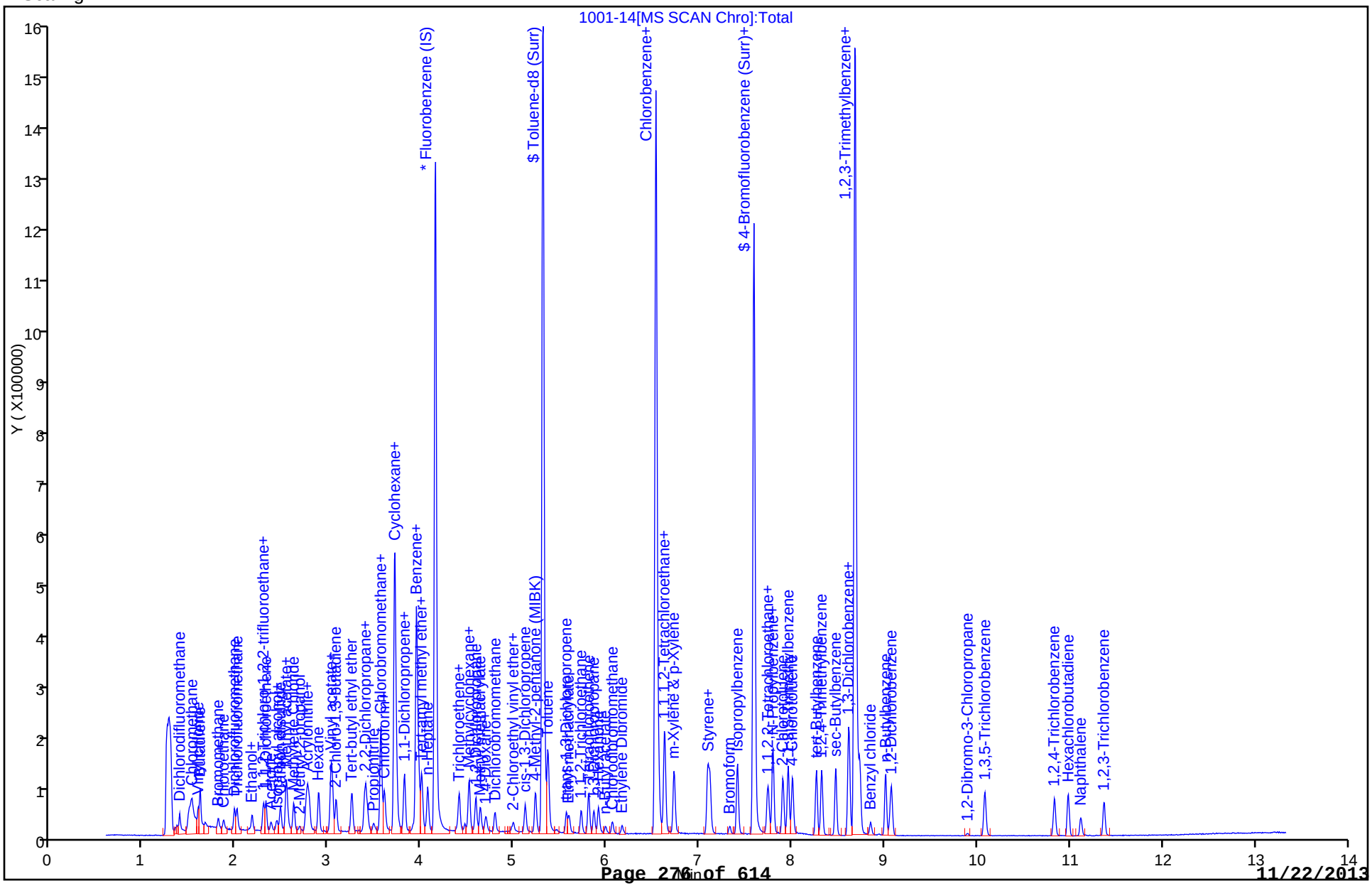
Report Date: 02-Oct-2013 12:10:20 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-14.D

Injection Date:	01-Oct-2013 20:40:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP35
Lims Batch ID:	110993	Lims Sample ID:	14
Operator ID:	MJH HP35	Purge Vol:	10.000 mL
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-15.D
Lims ID: std 5 Client ID:
Inject. Date: 01-Oct-2013 21:11:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: STD 5
Misc. Info.: 490-0025968-015
Operator: MJH HP35 Instrument ID: HP35
Purge Vol: 10.000 mL ALS Bottle#: 15
Lims Batch ID: 110993 Lims Sample ID: 15
Sublist: chrom-8260HP35*sub12
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP35\20131001-25968.b\8260HP35.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 02-Oct-2013 12:10:14 Calib Date: 02-Oct-2013 00:15:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK001

First Level Reviewer: himelickm Date: 02-Oct-2013 12:10:14

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.147	4.152	-0.005	98	974506	25.0	
* 2 Chlorobenzene-d5	117	6.532	6.531	0.001	85	770985	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.679	8.678	0.001	93	463603	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.709	3.708	0.001	83	232604	25.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.946	3.945	0.001	92	237833	26.0	
$ 6 Toluene-d8 (Surr)	98	5.309	5.308	0.001	84	982957	25.1	
$ 7 4-Bromofluorobenzene (Surr)	95	7.584	7.589	-0.005	94	372190	24.4	
9 Dichlorodifluoromethane	85	1.391	1.390	0.001	83	45995	5.08	
10 Chloromethane	50	1.519	1.524	-0.005	97	66272	5.11	
11 Vinyl chloride	62	1.586	1.585	0.001	92	51196	4.89	
12 Butadiene	54	1.610	1.609	0.001	0	47128	4.76	
13 Bromomethane	96	1.805	1.798	0.007	83	20860	4.44	
14 Chloroethane	64	1.866	1.859	0.007	95	33040	4.95	
15 Dichlorofluoromethane	67	1.981	1.980	0.001	80	79482	5.21	
16 Trichlorofluoromethane	101	2.006	2.005	0.001	81	65017	5.03	
18 Ethanol	45	2.170	2.169	0.001	74	36453	264.2	
17 Ethyl ether	59	2.170	2.169	0.001	88	29846	5.08	
19 Acrolein	56	2.286	2.278	0.008	68	9658	12.3	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.292	2.291	0.001	78	41390	5.16	
21 1,1-Dichloroethene	96	2.322	2.321	0.001	88	39272	5.03	
22 Acetone	58	2.371	2.370	0.001	90	11209	25.7	
23 Iodomethane	142	2.432	2.431	0.002	96	50950	4.84	
25 Isopropyl alcohol	45	2.456	2.449	0.007	67	14527	55.8	
26 Carbon disulfide	76	2.474	2.473	0.001	99	130243	5.09	
28 Acetonitrile	41	2.535	2.534	0.001	70	105904	54.0	
27 3-Chloro-1-propene	76	2.535	2.534	0.001	84	33992	4.32	
29 Methyl acetate	43	2.547	2.540	0.007	96	122205	26.6	
30 Methylene Chloride	84	2.620	2.619	0.001	88	47880	5.18	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
31 2-Methyl-2-propanol	59	2.681	2.680	0.001	88	19548	52.1	
32 Methyl tert-butyl ether	73	2.754	2.753	0.001	89	97685	5.28	
33 trans-1,2-Dichloroethene	61	2.766	2.765	0.001	94	64145	5.06	
34 Acrylonitrile	53	2.784	2.783	0.001	97	95020	52.0	
35 Hexane	57	2.888	2.887	0.001	93	66125	5.04	
36 Isopropyl ether	45	3.022	3.021	0.001	91	156059	5.28	
37 1,1-Dichloroethane	63	3.034	3.033	0.001	83	86550	5.06	
38 Vinyl acetate	43	3.040	3.033	0.007	97	191121	10.1	
39 2-Chloro-1,3-butadiene	53	3.076	3.075	0.001	87	72526	5.07	
40 Tert-butyl ethyl ether	59	3.247	3.246	0.001	95	124989	5.12	
42 2,2-Dichloropropane	77	3.381	3.386	-0.005	90	66908	5.07	
43 cis-1,2-Dichloroethene	61	3.399	3.398	0.001	71	80530	5.14	
41 Ethyl acetate	43	3.417	3.410	0.007	94	78211	9.77	
44 2-Butanone (MEK)	72	3.417	3.410	0.007	90	13859	25.2	
45 Propionitrile	54	3.484	3.477	0.007	95	36620	53.7	
46 Methacrylonitrile	41	3.557	3.556	0.001	94	172679	50.0	
47 Chlorobromomethane	130	3.563	3.562	0.001	77	27118	5.19	
49 Tetrahydrofuran	42	3.606	3.599	0.007	1	15049	7.92	
48 Chloroform	83	3.600	3.599	0.001	81	88767	5.49	
51 1,1,1-Trichloroethane	97	3.709	3.708	0.001	50	70120	5.24	
52 Cyclohexane	56	3.727	3.732	-0.005	93	81594	4.96	
54 Carbon tetrachloride	117	3.812	3.811	0.001	74	59041	5.01	
53 1,1-Dichloropropene	75	3.812	3.811	0.001	86	60633	5.04	
55 Isobutyl alcohol	43	3.910	3.909	0.001	73	23531	44.5	
57 Benzene	78	3.965	3.964	0.001	97	200824	5.23	
58 1,2-Dichloroethane	62	3.995	3.994	0.001	68	56148	5.23	
59 Tert-amyl methyl ether	73	4.001	4.000	0.001	95	108364	5.25	
60 n-Heptane	43	4.068	4.067	0.001	92	65206	4.70	
61 n-Butanol	56	4.384	4.371	0.013	92	13583	125.1	
62 Trichloroethene	130	4.409	4.402	0.007	91	50590	5.05	
63 Ethyl acrylate	55	4.512	4.511	0.001	0	71114	5.04	
64 Methylcyclohexane	83	4.512	4.511	0.001	91	79805	5.03	
65 1,2-Dichloropropane	63	4.585	4.584	0.001	91	51425	5.24	
67 Methyl methacrylate	41	4.634	4.627	0.007	88	57846	9.84	
68 Dibromomethane	93	4.695	4.687	0.008	77	21817	5.01	
69 1,4-Dioxane	88	4.707	4.700	0.007	29	4404	103.9	
70 Dichlorobromomethane	83	4.792	4.791	0.001	94	60974	5.22	
71 2-Nitropropane	43	4.981	4.979	0.001	78	22372	8.77	
72 2-Chloroethyl vinyl ether	63	4.993	4.986	0.007	76	12472	4.39	
73 cis-1,3-Dichloropropene	75	5.120	5.113	0.007	80	68744	4.96	
74 4-Methyl-2-pentanone (MIBK)	58	5.230	5.229	0.001	95	50788	25.6	
75 Toluene	91	5.364	5.363	0.001	89	224982	5.30	
76 trans-1,3-Dichloropropene	75	5.565	5.557	0.008	87	51609	4.81	
77 Ethyl methacrylate	69	5.589	5.588	0.001	88	40989	4.94	
78 1,1,2-Trichloroethane	97	5.723	5.722	0.001	91	32581	4.96	
79 Tetrachloroethene	166	5.802	5.801	0.001	90	58338	5.18	
80 1,3-Dichloropropane	76	5.857	5.862	-0.005	90	59188	4.98	
81 2-Hexanone	58	5.905	5.904	0.001	97	46284	25.3	
82 n-Butyl acetate	43	5.984	5.983	0.001	89	26140	5.50	
83 Chlorodibromomethane	127	6.057	6.062	-0.005	77	26574	4.75	
84 Ethylene Dibromide	107	6.161	6.160	0.001	83	31515	5.11	
86 Chlorobenzene	112	6.556	6.555	0.001	92	135964	5.21	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
88 1,1,1,2-Tetrachloroethane	131	6.623	6.622	0.001	37	44627	4.92	
87 Ethylbenzene	91	6.623	6.622	0.001	99	230969	5.25	
89 m-Xylene & p-Xylene	91	6.720	6.725	-0.005	99	179070	5.13	
90 o-Xylene	91	7.085	7.084	0.001	96	184747	5.20	
91 Styrene	104	7.110	7.109	0.001	96	147767	5.11	
92 Bromoform	173	7.329	7.322	0.007	85	18983	4.54	
93 Isopropylbenzene	105	7.408	7.407	0.001	95	222594	5.15	
94 Cyclohexanone	55	7.578	7.577	0.001	27	8019	49.8	
95 Bromobenzene	77	7.736	7.729	0.007	90	85513	5.09	
96 1,1,2,2-Tetrachloroethane	83	7.748	7.747	0.001	76	36442	4.99	
99 N-Propylbenzene	91	7.791	7.790	0.001	96	264985	5.16	
98 trans-1,4-Dichloro-2-butene	53	7.797	7.790	0.007	22	6756	4.60	
97 1,2,3-Trichloropropane	110	7.791	7.790	0.001	60	9772	4.86	
100 2-Chlorotoluene	91	7.901	7.900	0.001	96	153043	5.11	
101 1,3,5-Trimethylbenzene	105	7.955	7.960	-0.005	80	185792	5.21	
102 4-Chlorotoluene	91	8.004	8.003	0.001	96	167927	5.03	
103 tert-Butylbenzene	119	8.266	8.265	0.001	89	155089	5.04	
104 1,2,4-Trimethylbenzene	105	8.320	8.319	0.001	96	195898	5.41	
106 sec-Butylbenzene	105	8.472	8.471	0.001	92	232136	5.08	
107 4-Isopropyltoluene	119	8.606	8.611	-0.005	96	205647	5.31	
108 1,3-Dichlorobenzene	146	8.618	8.617	0.001	97	122880	4.96	
109 1,4-Dichlorobenzene	146	8.704	8.703	0.001	86	123943	5.31	
110 1,2,3-Trimethylbenzene	105	8.728	8.733	-0.005	0	198534	5.03	
111 Benzyl chloride	91	8.850	8.842	0.008	86	54164	4.65	
112 n-Butylbenzene	91	9.008	9.007	0.001	93	184344	5.19	
113 1,2-Dichlorobenzene	146	9.069	9.068	0.001	97	110742	5.11	
114 1,2-Dibromo-3-Chloropropane	157	9.890	9.889	0.001	20	5830	5.18	
115 1,3,5-Trichlorobenzene	180	10.078	10.077	0.001	95	98291	4.83	
116 1,2,4-Trichlorobenzene	180	10.833	10.832	0.001	87	80215	4.70	
117 Hexachlorobutadiene	225	10.985	10.984	0.001	87	52894	4.91	
118 Naphthalene	128	11.113	11.112	0.001	86	104126	4.59	
119 1,2,3-Trichlorobenzene	180	11.368	11.367	0.001	88	71475	4.86	
S 132 1,2-Dichloroethene, Total	1				0		10.2	
S 131 Xylenes, Total	1				0		10.3	

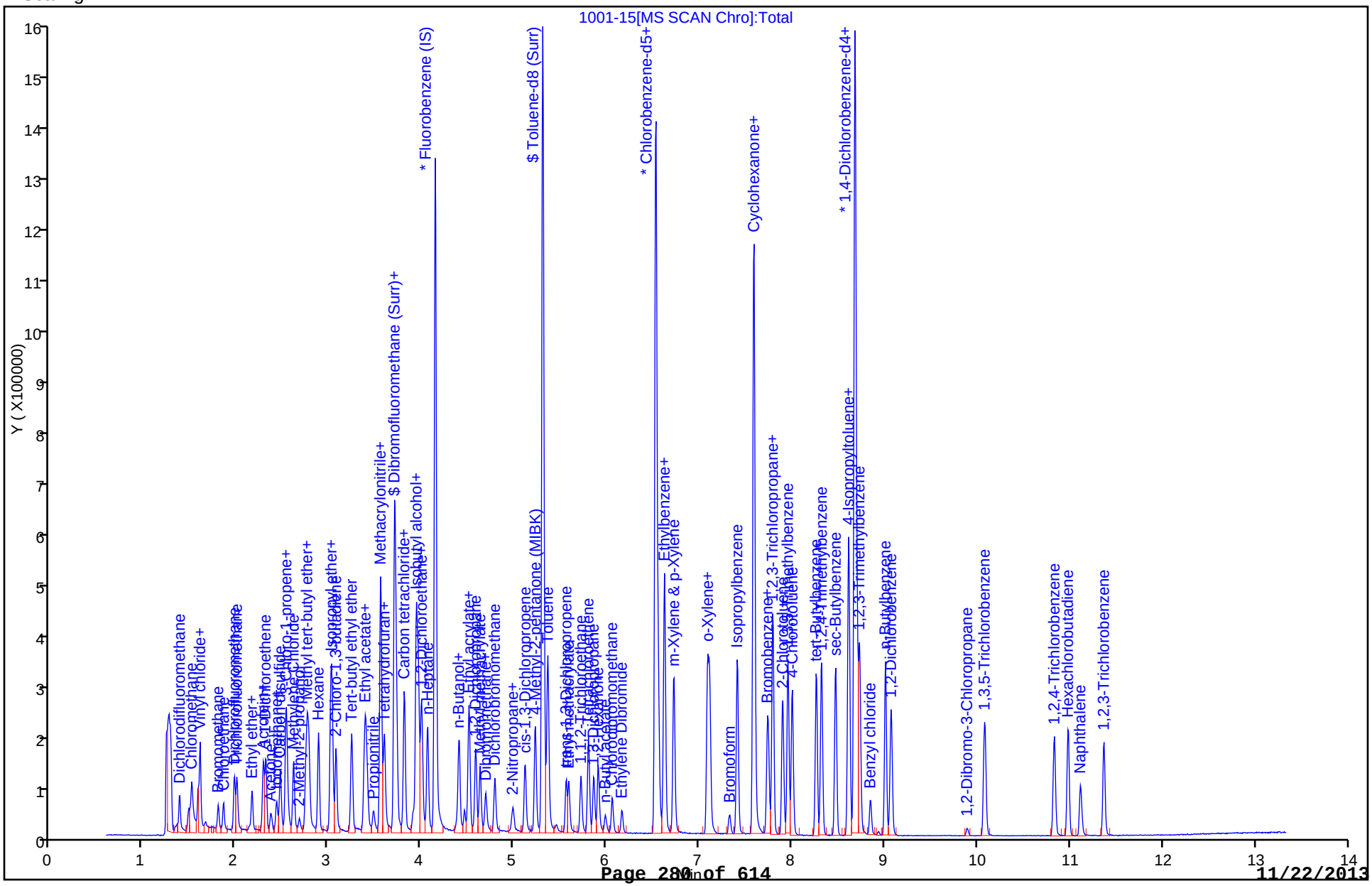
Report Date: 02-Oct-2013 12:10:14 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-15.D

Injection Date:	01-Oct-2013 21:11:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP35
Lims Batch ID:	110993	Lims Sample ID:	15
Operator ID:	MJH HP35	Purge Vol:	10.000 mL
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-16.D
Lims ID: std 10 Client ID:
Inject. Date: 01-Oct-2013 21:41:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: STD 10
Misc. Info.: 490-0025968-016
Operator: MJH HP35 Instrument ID: HP35
Purge Vol: 10.000 mL ALS Bottle#: 16
Lims Batch ID: 110993 Lims Sample ID: 16
Sublist: chrom-8260HP35*sub12
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP35\20131001-25968.b\8260HP35.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 02-Oct-2013 12:10:09 Calib Date: 02-Oct-2013 00:15:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK001

First Level Reviewer: himelickm Date: 02-Oct-2013 12:10:09

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.149	4.152	-0.003	98	984959	25.0	
* 2 Chlorobenzene-d5	117	6.527	6.531	-0.004	85	783536	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.681	8.678	0.003	92	463630	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.711	3.708	0.003	83	231357	24.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.942	3.945	-0.003	91	229885	24.9	
$ 6 Toluene-d8 (Surr)	98	5.311	5.308	0.003	84	1000480	25.2	
$ 7 4-Bromofluorobenzene (Surr)	95	7.586	7.589	-0.003	94	375364	24.6	
9 Dichlorodifluoromethane	85	1.387	1.390	-0.003	87	91119	9.97	
10 Chloromethane	50	1.521	1.524	-0.003	99	128730	10.6	
11 Vinyl chloride	62	1.588	1.585	0.003	77	101769	9.61	
12 Butadiene	54	1.612	1.609	0.003	0	97761	9.77	
13 Bromomethane	96	1.807	1.798	0.009	88	41975	8.45	
14 Chloroethane	64	1.861	1.859	0.002	98	64692	9.86	
15 Dichlorofluoromethane	67	1.983	1.980	0.003	82	155674	10.4	
16 Trichlorofluoromethane	101	2.007	2.005	0.002	84	122623	9.39	
18 Ethanol	45	2.172	2.169	0.003	72	69300	509.7	
17 Ethyl ether	59	2.172	2.169	0.003	88	60936	10.5	
19 Acrolein	56	2.281	2.278	0.003	84	19103	24.0	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.293	2.291	0.002	84	80660	9.94	
21 1,1-Dichloroethene	96	2.324	2.321	0.003	89	78310	10.1	
22 Acetone	58	2.372	2.370	0.002	96	21571	50.4	
23 Iodomethane	142	2.433	2.431	0.003	97	107338	10.1	
25 Isopropyl alcohol	45	2.451	2.449	0.002	87	26191	101.2	
26 Carbon disulfide	76	2.476	2.473	0.003	99	267642	10.7	
28 Acetonitrile	41	2.537	2.534	0.003	68	208086	111.6	
27 3-Chloro-1-propene	76	2.537	2.534	0.003	83	79159	9.95	
29 Methyl acetate	43	2.543	2.540	0.003	98	241849	52.7	
30 Methylene Chloride	84	2.622	2.619	0.003	89	93615	10.5	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
31 2-Methyl-2-propanol	59	2.683	2.680	0.003	94	38676	102.1	
32 Methyl tert-butyl ether	73	2.749	2.753	-0.004	91	189223	10.3	
33 trans-1,2-Dichloroethene	61	2.768	2.765	0.003	95	126558	10.3	
34 Acrylonitrile	53	2.786	2.783	0.003	96	186166	100.8	
35 Hexane	57	2.889	2.887	0.002	95	130902	9.87	
36 Isopropyl ether	45	3.023	3.021	0.002	89	306823	10.8	
37 1,1-Dichloroethane	63	3.029	3.033	-0.004	84	170327	10.3	
38 Vinyl acetate	43	3.035	3.033	0.002	96	385902	20.8	
39 2-Chloro-1,3-butadiene	53	3.078	3.075	0.003	88	144052	10.2	
40 Tert-butyl ethyl ether	59	3.248	3.246	0.002	95	252356	10.3	
42 2,2-Dichloropropane	77	3.382	3.386	-0.004	90	129834	10.0	
43 cis-1,2-Dichloroethene	61	3.400	3.398	0.002	70	158978	10.4	
41 Ethyl acetate	43	3.413	3.410	0.003	90	159283	19.7	
44 2-Butanone (MEK)	72	3.413	3.410	0.003	92	28309	50.9	
45 Propionitrile	54	3.480	3.477	0.003	97	64429	93.5	
46 Methacrylonitrile	41	3.559	3.556	0.003	94	348796	100.0	
47 Chlorobromomethane	130	3.565	3.562	0.003	74	55626	10.7	
49 Tetrahydrofuran	42	3.601	3.599	0.002	73	29569	15.3	
48 Chloroform	83	3.595	3.599	-0.004	83	165708	10.5	
51 1,1,1-Trichloroethane	97	3.711	3.708	0.003	65	138029	10.5	
52 Cyclohexane	56	3.729	3.732	-0.003	92	168135	10.1	
54 Carbon tetrachloride	117	3.814	3.811	0.003	74	118874	9.99	
53 1,1-Dichloropropene	75	3.814	3.811	0.003	90	120309	10.1	
55 Isobutyl alcohol	43	3.905	3.909	-0.004	94	48544	98.3	
57 Benzene	78	3.966	3.964	0.002	97	393676	10.2	
58 1,2-Dichloroethane	62	3.997	3.994	0.003	91	112176	10.5	
59 Tert-amyl methyl ether	73	4.003	4.000	0.003	97	212679	10.4	
60 n-Heptane	43	4.064	4.067	-0.003	92	134967	9.63	
61 n-Butanol	56	4.380	4.371	0.009	92	26052	232.5	
62 Trichloroethene	130	4.404	4.402	0.002	93	102045	10.1	
63 Ethyl acrylate	55	4.514	4.511	0.003	0	142450	9.99	
64 Methylcyclohexane	83	4.514	4.511	0.003	91	158201	9.86	
65 1,2-Dichloropropane	63	4.587	4.584	0.003	93	100057	10.5	
67 Methyl methacrylate	41	4.629	4.627	0.002	88	113371	19.1	
68 Dibromomethane	93	4.690	4.687	0.003	83	44023	10.0	
69 1,4-Dioxane	88	4.708	4.700	0.008	57	8196	191.4	
70 Dichlorobromomethane	83	4.794	4.791	0.003	92	118592	10.2	
71 2-Nitropropane	43	4.982	4.979	0.003	94	47504	17.5	
72 2-Chloroethyl vinyl ether	63	4.988	4.986	0.002	79	27442	8.60	
73 cis-1,3-Dichloropropene	75	5.116	5.113	0.003	85	140813	10.2	
74 4-Methyl-2-pentanone (MIBK)	58	5.225	5.229	-0.004	97	103091	51.1	
75 Toluene	91	5.365	5.363	0.002	91	443095	10.8	
76 trans-1,3-Dichloropropene	75	5.560	5.557	0.003	91	104700	9.59	
77 Ethyl methacrylate	69	5.590	5.588	0.002	88	84347	10.0	
78 1,1,2-Trichloroethane	97	5.724	5.722	0.002	86	65612	9.83	
79 Tetrachloroethene	166	5.803	5.801	0.002	91	115048	10.2	
80 1,3-Dichloropropane	76	5.858	5.862	-0.004	92	117180	9.71	
81 2-Hexanone	58	5.907	5.904	0.003	97	95634	51.4	
82 n-Butyl acetate	43	5.980	5.983	-0.003	94	43137	9.09	
83 Chlorodibromomethane	127	6.059	6.062	-0.003	83	55145	9.69	
84 Ethylene Dibromide	107	6.162	6.160	0.002	95	62028	9.91	
86 Chlorobenzene	112	6.558	6.555	0.003	92	265971	10.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
88 1,1,1,2-Tetrachloroethane	131	6.625	6.622	0.003	38	93451	10.3	
87 Ethylbenzene	91	6.625	6.622	0.003	99	454250	10.2	
89 m-Xylene & p-Xylene	91	6.722	6.725	-0.003	99	356755	10.0	
90 o-Xylene	91	7.087	7.084	0.003	97	365176	10.1	
91 Styrene	104	7.111	7.109	0.002	96	299979	10.4	
92 Bromoform	173	7.324	7.322	0.002	93	40254	8.92	
93 Isopropylbenzene	105	7.409	7.407	0.002	96	446699	10.2	
94 Cyclohexanone	55	7.580	7.577	0.003	34	15722	103.2	
95 Bromobenzene	77	7.732	7.729	0.003	93	169340	10.3	
96 1,1,2,2-Tetrachloroethane	83	7.750	7.747	0.003	91	73184	10.0	
99 N-Propylbenzene	91	7.793	7.790	0.003	98	532430	10.4	
98 trans-1,4-Dichloro-2-butene	53	7.793	7.790	0.003	30	14163	9.63	
97 1,2,3-Trichloropropane	110	7.793	7.790	0.003	44	20397	10.1	
100 2-Chlorotoluene	91	7.896	7.900	-0.004	95	314512	10.7	
101 1,3,5-Trimethylbenzene	105	7.957	7.960	-0.003	80	379769	10.7	
102 4-Chlorotoluene	91	8.000	8.003	-0.003	97	343981	10.5	
103 tert-Butylbenzene	119	8.261	8.265	-0.004	85	325820	10.6	
104 1,2,4-Trimethylbenzene	105	8.316	8.319	-0.003	90	398973	11.0	
106 sec-Butylbenzene	105	8.468	8.471	-0.003	94	481171	10.5	
107 4-Isopropyltoluene	119	8.608	8.611	-0.003	95	429374	11.1	
108 1,3-Dichlorobenzene	146	8.620	8.617	0.003	98	245301	9.90	
109 1,4-Dichlorobenzene	146	8.705	8.703	0.002	94	248275	10.9	
110 1,2,3-Trimethylbenzene	105	8.730	8.733	-0.003	0	405590	10.3	
111 Benzyl chloride	91	8.845	8.842	0.003	94	111545	9.35	
112 n-Butylbenzene	91	9.009	9.007	0.002	94	382365	10.8	
113 1,2-Dichlorobenzene	146	9.070	9.068	0.002	97	220634	10.2	
114 1,2-Dibromo-3-Chloropropane	157	9.891	9.889	0.002	47	12622	9.64	
115 1,3,5-Trichlorobenzene	180	10.080	10.077	0.003	97	200971	9.88	
116 1,2,4-Trichlorobenzene	180	10.828	10.832	-0.004	92	165808	9.72	
117 Hexachlorobutadiene	225	10.980	10.984	-0.004	87	102699	9.54	
118 Naphthalene	128	11.114	11.112	0.002	95	224988	9.93	
119 1,2,3-Trichlorobenzene	180	11.370	11.367	0.003	95	146868	9.98	
S 132 1,2-Dichloroethene, Total	1				0		20.7	
S 131 Xylenes, Total	1				0		20.2	

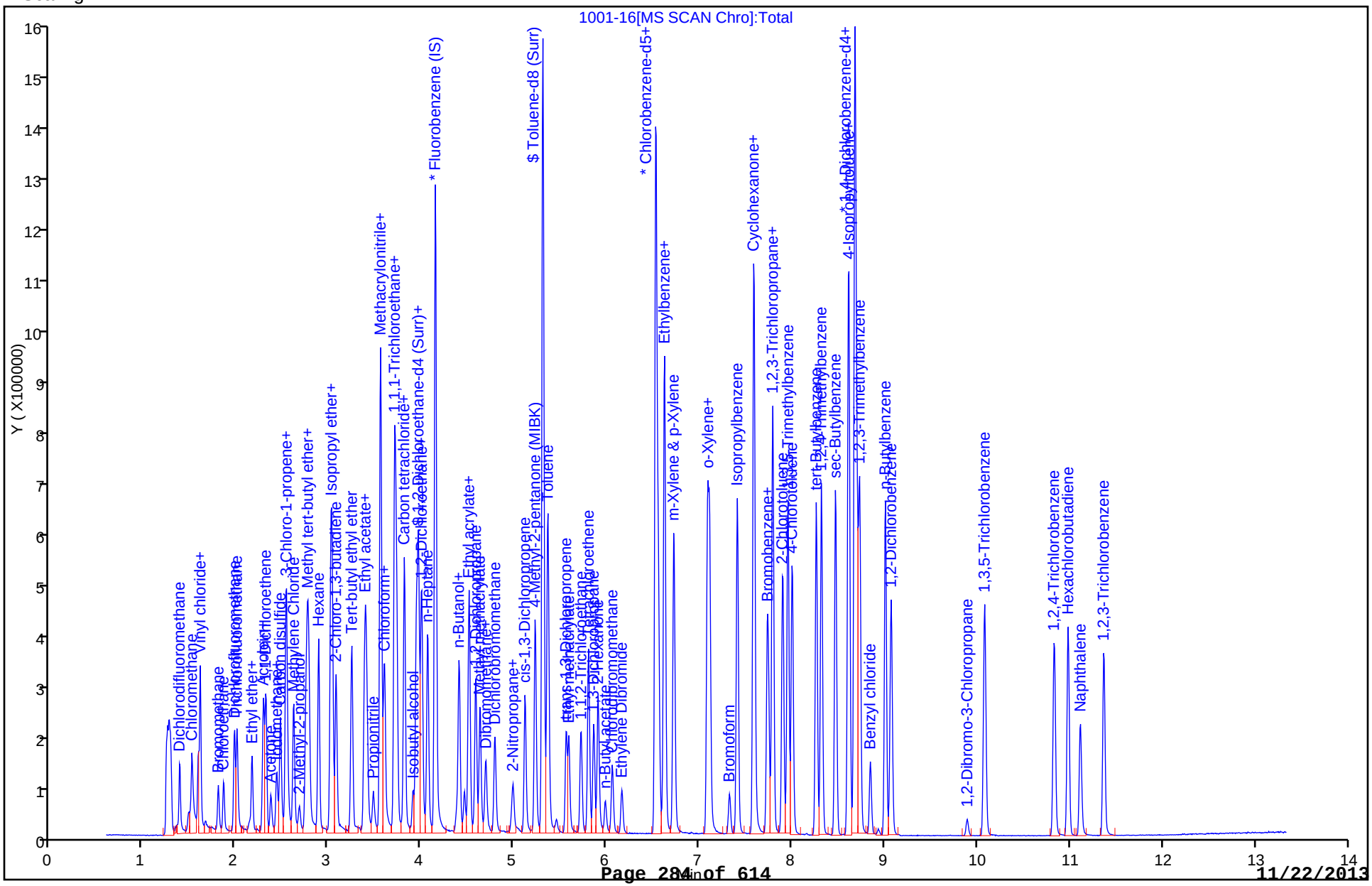
Report Date: 02-Oct-2013 12:10:09 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-16.D

Injection Date:	01-Oct-2013 21:41:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP35
Lims Batch ID:	110993	Lims Sample ID:	16
Operator ID:	MJH HP35	Purge Vol:	10.000 mL
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-17.D
Lims ID: std 20 Client ID:
Inject. Date: 01-Oct-2013 22:12:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: STD 20
Misc. Info.: 490-0025968-017
Operator: MJH HP35 Instrument ID: HP35
Purge Vol: 10.000 mL ALS Bottle#: 17
Lims Batch ID: 110993 Lims Sample ID: 17
Sublist: chrom-8260HP35*sub12
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP35\20131001-25968.b\8260HP35.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 02-Oct-2013 12:10:02 Calib Date: 02-Oct-2013 00:15:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK001

First Level Reviewer: himelickm Date: 02-Oct-2013 12:10:02

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.149	4.152	-0.003	98	999044	25.0	
* 2 Chlorobenzene-d5	117	6.527	6.531	-0.004	85	786509	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.681	8.678	0.003	92	480305	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.711	3.708	0.003	76	236496	25.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.942	3.945	-0.003	91	231143	24.7	
$ 6 Toluene-d8 (Surr)	98	5.311	5.308	0.003	84	1002108	25.1	
$ 7 4-Bromofluorobenzene (Surr)	95	7.586	7.589	-0.003	94	381607	24.1	
9 Dichlorodifluoromethane	85	1.387	1.390	-0.003	87	192012	20.7	
10 Chloromethane	50	1.521	1.524	-0.003	89	259013	22.0	
11 Vinyl chloride	62	1.588	1.585	0.003	82	214251	20.0	
12 Butadiene	54	1.612	1.609	0.003	0	209463	20.6	
13 Bromomethane	96	1.807	1.798	0.009	91	97159	18.8	
14 Chloroethane	64	1.861	1.859	0.002	99	132185	20.2	
15 Dichlorofluoromethane	67	1.977	1.980	-0.003	83	316756	21.3	
16 Trichlorofluoromethane	101	2.007	2.005	0.002	86	262967	19.9	
18 Ethanol	45	2.172	2.169	0.003	73	138330	1017.2	
17 Ethyl ether	59	2.172	2.169	0.003	89	120476	20.7	
19 Acrolein	56	2.281	2.278	0.003	92	41505	51.5	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.293	2.291	0.002	84	170251	20.7	
21 1,1-Dichloroethene	96	2.318	2.321	-0.003	88	158866	20.5	
22 Acetone	58	2.372	2.370	0.002	99	43063	100.6	
23 Iodomethane	142	2.433	2.431	0.003	98	234047	21.7	
25 Isopropyl alcohol	45	2.452	2.449	0.003	94	51615	198.8	
26 Carbon disulfide	76	2.476	2.473	0.003	99	525769	21.1	
28 Acetonitrile	41	2.537	2.534	0.003	65	425166	231.9	
27 3-Chloro-1-propene	76	2.537	2.534	0.003	81	161242	20.0	
29 Methyl acetate	43	2.543	2.540	0.003	98	485888	104.9	
30 Methylene Chloride	84	2.622	2.619	0.003	90	190518	21.5	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
31 2-Methyl-2-propanol	59	2.683	2.680	0.003	97	76679	199.5	
32 Methyl tert-butyl ether	73	2.750	2.753	-0.003	91	392248	21.4	
33 trans-1,2-Dichloroethene	61	2.768	2.765	0.003	95	256661	21.0	
34 Acrylonitrile	53	2.780	2.783	-0.003	97	383598	204.7	
35 Hexane	57	2.890	2.887	0.003	95	271743	20.2	
36 Isopropyl ether	45	3.017	3.021	-0.004	93	636777	22.7	
37 1,1-Dichloroethane	63	3.029	3.033	-0.004	84	343545	20.8	
38 Vinyl acetate	43	3.036	3.033	0.003	96	787282	42.7	
39 2-Chloro-1,3-butadiene	53	3.078	3.075	0.003	91	303117	21.6	
40 Tert-butyl ethyl ether	59	3.248	3.246	0.002	95	522821	21.1	
42 2,2-Dichloropropane	77	3.382	3.386	-0.004	89	275654	21.4	
43 cis-1,2-Dichloroethene	61	3.394	3.398	-0.004	72	324229	21.3	
41 Ethyl acetate	43	3.413	3.410	0.003	92	327304	39.9	
44 2-Butanone (MEK)	72	3.413	3.410	0.003	97	59325	105.1	
45 Propionitrile	54	3.480	3.477	0.003	99	144236	206.4	
46 Methacrylonitrile	41	3.553	3.556	-0.003	94	700227	197.9	
47 Chlorobromomethane	130	3.565	3.562	0.003	73	111838	21.5	
49 Tetrahydrofuran	42	3.595	3.599	-0.004	1	58022	29.5	
48 Chloroform	83	3.601	3.599	0.002	73	333345	21.4	
51 1,1,1-Trichloroethane	97	3.711	3.708	0.003	91	286782	21.8	
52 Cyclohexane	56	3.729	3.732	-0.003	93	346186	20.5	
54 Carbon tetrachloride	117	3.814	3.811	0.003	73	240458	19.9	
53 1,1-Dichloropropene	75	3.814	3.811	0.003	91	252176	21.0	
55 Isobutyl alcohol	43	3.905	3.909	-0.004	92	97151	200.9	
57 Benzene	78	3.966	3.964	0.002	97	805592	20.5	
58 1,2-Dichloroethane	62	3.997	3.994	0.003	74	225312	21.1	
59 Tert-amyl methyl ether	73	4.003	4.000	0.003	97	438557	21.4	
60 n-Heptane	43	4.064	4.067	-0.003	93	285284	20.1	
61 n-Butanol	56	4.380	4.371	0.009	88	56732	492.9	
62 Trichloroethene	130	4.404	4.402	0.002	94	203817	19.9	
63 Ethyl acrylate	55	4.514	4.511	0.003	0	281175	19.4	
64 Methylcyclohexane	83	4.514	4.511	0.003	91	333649	20.5	
65 1,2-Dichloropropane	63	4.587	4.584	0.003	93	204766	21.6	
67 Methyl methacrylate	41	4.629	4.627	0.002	89	246122	40.8	
68 Dibromomethane	93	4.690	4.687	0.003	86	90058	20.2	
69 1,4-Dioxane	88	4.702	4.700	0.002	78	17346	399.4	
70 Dichlorobromomethane	83	4.794	4.791	0.003	90	243457	20.9	
71 2-Nitropropane	43	4.982	4.979	0.003	98	105053	37.3	
72 2-Chloroethyl vinyl ether	63	4.988	4.986	0.002	84	60102	17.8	
73 cis-1,3-Dichloropropene	75	5.116	5.113	0.003	87	290763	21.1	
74 4-Methyl-2-pentanone (MIBK)	58	5.226	5.229	-0.003	98	212595	105.1	
75 Toluene	91	5.365	5.363	0.002	92	856368	21.3	
76 trans-1,3-Dichloropropene	75	5.560	5.557	0.003	93	218535	20.0	
77 Ethyl methacrylate	69	5.591	5.588	0.003	86	174841	20.7	
78 1,1,2-Trichloroethane	97	5.718	5.722	-0.004	87	133356	19.9	
79 Tetrachloroethene	166	5.804	5.801	0.003	92	233556	20.9	
80 1,3-Dichloropropane	76	5.858	5.862	-0.004	89	240388	19.8	
81 2-Hexanone	58	5.907	5.904	0.003	98	194772	104.3	
82 n-Butyl acetate	43	5.980	5.983	-0.003	96	92132	19.3	
83 Chlorodibromomethane	127	6.059	6.062	-0.003	86	117478	20.6	
84 Ethylene Dibromide	107	6.162	6.160	0.002	97	128212	20.4	
86 Chlorobenzene	112	6.558	6.555	0.003	92	541168	21.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
88 1,1,1,2-Tetrachloroethane	131	6.625	6.622	0.003	39	189353	21.1	
87 Ethylbenzene	91	6.625	6.622	0.003	99	935936	20.9	
89 m-Xylene & p-Xylene	91	6.722	6.725	-0.003	99	736428	20.7	
90 o-Xylene	91	7.087	7.084	0.003	97	750953	20.7	
91 Styrene	104	7.111	7.109	0.002	96	621096	21.6	
92 Bromoform	173	7.324	7.322	0.002	95	86145	18.4	
93 Isopropylbenzene	105	7.410	7.407	0.003	96	921287	20.9	
94 Cyclohexanone	55	7.580	7.577	0.003	87	28748	191.6	
95 Bromobenzene	77	7.732	7.729	0.003	92	337268	20.0	
96 1,1,2,2-Tetrachloroethane	83	7.744	7.747	-0.003	72	146857	19.4	
99 N-Propylbenzene	91	7.793	7.790	0.003	98	1102963	20.7	
98 trans-1,4-Dichloro-2-butene	53	7.793	7.790	0.003	31	31420	20.6	
97 1,2,3-Trichloropropane	110	7.787	7.790	-0.003	76	40791	19.6	
100 2-Chlorotoluene	91	7.896	7.900	-0.004	96	646535	21.5	
101 1,3,5-Trimethylbenzene	105	7.957	7.960	-0.003	81	805510	21.8	
102 4-Chlorotoluene	91	8.000	8.003	-0.003	97	705806	21.0	
103 tert-Butylbenzene	119	8.261	8.265	-0.004	91	685301	21.5	
104 1,2,4-Trimethylbenzene	105	8.316	8.319	-0.003	91	841777	22.4	
106 sec-Butylbenzene	105	8.468	8.471	-0.003	94	1021096	21.5	
107 4-Isopropyltoluene	119	8.608	8.611	-0.003	95	914650	22.8	
108 1,3-Dichlorobenzene	146	8.614	8.617	-0.003	98	505770	19.7	
109 1,4-Dichlorobenzene	146	8.705	8.703	0.002	95	512171	22.0	
110 1,2,3-Trimethylbenzene	105	8.730	8.733	-0.003	0	839105	20.5	
111 Benzyl chloride	91	8.845	8.842	0.003	97	246511	20.5	
112 n-Butylbenzene	91	9.009	9.007	0.002	94	805989	21.9	
113 1,2-Dichlorobenzene	146	9.070	9.068	0.002	97	452118	20.1	
114 1,2-Dibromo-3-Chloropropane	157	9.892	9.889	0.003	65	26060	17.9	
115 1,3,5-Trichlorobenzene	180	10.080	10.077	0.003	97	414791	19.7	
116 1,2,4-Trichlorobenzene	180	10.828	10.832	-0.004	93	350938	19.9	
117 Hexachlorobutadiene	225	10.981	10.984	-0.003	92	216594	19.4	
118 Naphthalene	128	11.114	11.112	0.002	97	508367	21.6	
119 1,2,3-Trichlorobenzene	180	11.364	11.367	-0.003	92	301824	19.8	
S 132 1,2-Dichloroethene, Total	1				0		42.3	
S 131 Xylenes, Total	1				0		41.4	

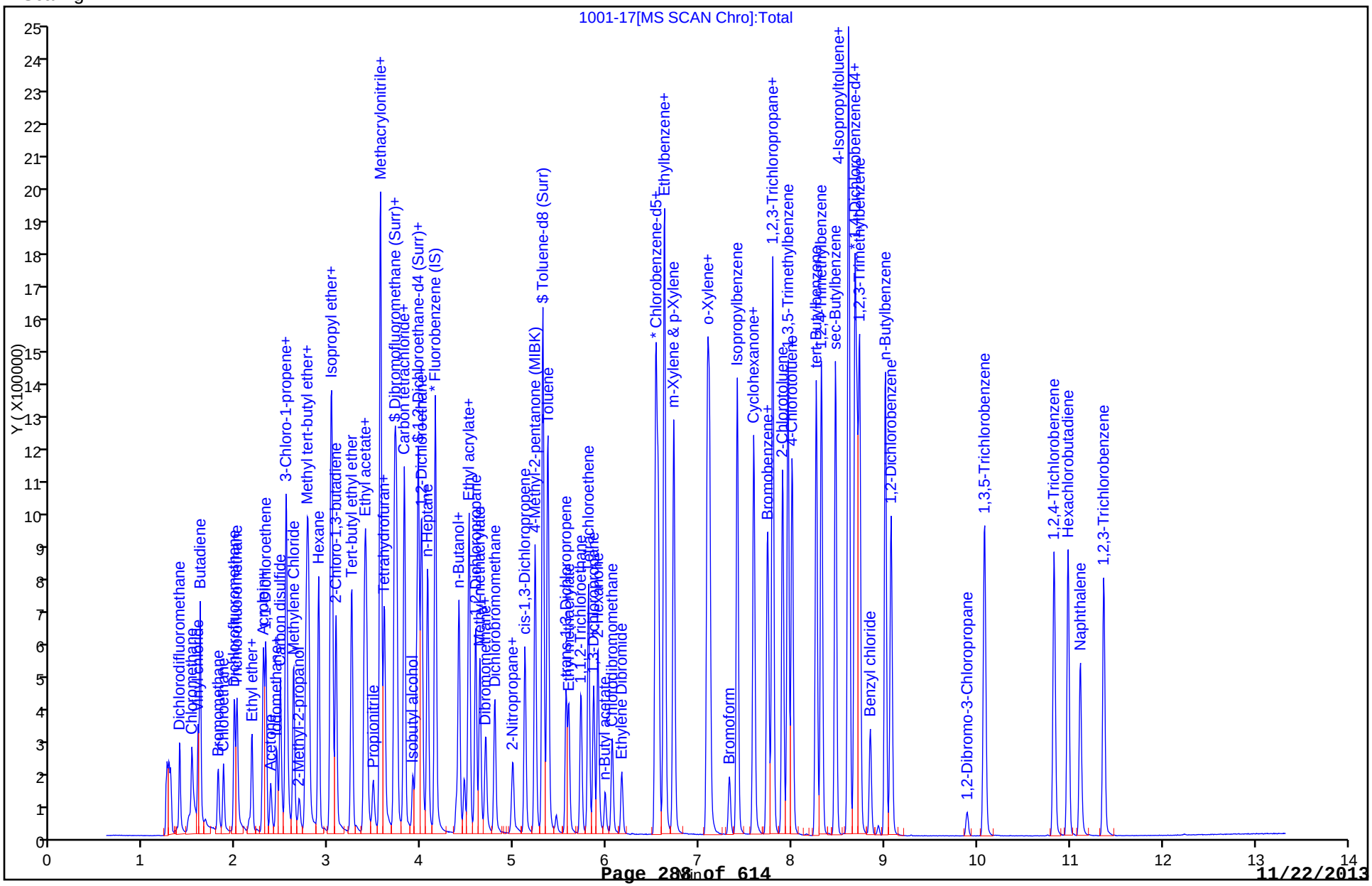
Report Date: 02-Oct-2013 12:10:03 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-17.D

Injection Date:	01-Oct-2013 22:12:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP35
Lims Batch ID:	110993	Lims Sample ID:	17
Operator ID:	MJH HP35	Purge Vol:	10.000 mL
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-18.D
Lims ID: icis Client ID:
Inject. Date: 01-Oct-2013 22:43:30 Dil. Factor: 1.0000
Sample Type: ICIS Calib Level: 7
Sample ID: ICIS
Misc. Info.: 490-0025968-018
Operator: MJH HP35 Instrument ID: HP35
Purge Vol: 10.000 mL ALS Bottle#: 18
Lims Batch ID: 110993 Lims Sample ID: 18
Sublist: chrom-8260HP35*sub12
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP35\20131001-25968.b\8260HP35.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 02-Oct-2013 12:09:57 Calib Date: 02-Oct-2013 00:15:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK001

First Level Reviewer: himelickm Date: 02-Oct-2013 12:09:56

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.152	4.152	0.0	98	994360	25.0	
* 2 Chlorobenzene-d5	117	6.531	6.531	0.0	85	788475	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.678	8.678	0.0	86	482914	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.708	3.708	0.0	48	237024	25.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.945	3.945	0.0	86	231099	24.8	
$ 6 Toluene-d8 (Surr)	98	5.308	5.308	0.0	83	994343	24.9	
$ 7 4-Bromofluorobenzene (Surr)	95	7.589	7.589	0.0	96	393690	24.7	
9 Dichlorodifluoromethane	85	1.390	1.390	0.0	87	472309	51.2	
10 Chloromethane	50	1.524	1.524	0.0	89	611237	53.4	
11 Vinyl chloride	62	1.585	1.585	0.0	80	531359	49.7	
12 Butadiene	54	1.609	1.609	0.0	0	525017	52.0	
13 Bromomethane	96	1.798	1.798	0.0	91	259426	49.7	
14 Chloroethane	64	1.859	1.859	0.0	95	330973	51.2	
15 Dichlorofluoromethane	67	1.980	1.980	0.0	83	771252	52.6	
16 Trichlorofluoromethane	101	2.005	2.005	0.0	87	639185	48.5	
18 Ethanol	45	2.169	2.169	0.0	74	340649	2538.0	
17 Ethyl ether	59	2.169	2.169	0.0	91	300975	52.4	
19 Acrolein	56	2.278	2.278	0.0	94	103435	129.0	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.291	2.291	0.0	84	415250	50.7	
21 1,1-Dichloroethene	96	2.321	2.321	0.0	90	393186	51.3	
22 Acetone	58	2.370	2.370	0.0	99	103925	246.1	
23 Iodomethane	142	2.431	2.431	0.0	98	616770	57.4	
25 Isopropyl alcohol	45	2.449	2.449	0.0	97	118780	462.5	
26 Carbon disulfide	76	2.473	2.473	0.0	99	1335482	54.4	
28 Acetonitrile	41	2.534	2.534	0.0	69	1029285	574.1	
27 3-Chloro-1-propene	76	2.534	2.534	0.0	84	420753	52.4	
29 Methyl acetate	43	2.540	2.540	0.0	97	1174494	255.8	
30 Methylene Chloride	84	2.619	2.619	0.0	90	468057	53.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
31 2-Methyl-2-propanol	59	2.680	2.680	0.0	97	188904	493.9	
32 Methyl tert-butyl ether	73	2.753	2.753	0.0	90	967615	53.3	
33 trans-1,2-Dichloroethene	61	2.765	2.765	0.0	95	635996	52.9	
34 Acrylonitrile	53	2.783	2.783	0.0	97	930413	498.8	
35 Hexane	57	2.887	2.887	0.0	94	669720	50.0	
36 Isopropyl ether	45	3.021	3.021	0.0	89	1526077	55.5	
37 1,1-Dichloroethane	63	3.033	3.033	0.0	82	853869	52.7	
38 Vinyl acetate	43	3.033	3.033	0.0	97	1887500	103.8	
39 2-Chloro-1,3-butadiene	53	3.075	3.075	0.0	88	736209	53.1	
40 Tert-butyl ethyl ether	59	3.246	3.246	0.0	95	1257526	51.0	
42 2,2-Dichloropropane	77	3.386	3.386	0.0	84	681917	53.6	
43 cis-1,2-Dichloroethene	61	3.398	3.398	0.0	72	811652	54.1	
41 Ethyl acetate	43	3.410	3.410	0.0	90	805030	98.5	
44 2-Butanone (MEK)	72	3.410	3.410	0.0	97	141405	251.6	
45 Propionitrile	54	3.477	3.477	0.0	98	354223	509.2	
46 Methacrylonitrile	41	3.556	3.556	0.0	93	1671832	474.8	
47 Chlorobromomethane	130	3.562	3.562	0.0	89	267422	52.0	
49 Tetrahydrofuran	42	3.599	3.599	0.0	48	208683	106.5	
48 Chloroform	83	3.599	3.599	0.0	82	791923	51.7	
51 1,1,1-Trichloroethane	97	3.708	3.708	0.0	91	692106	53.3	
52 Cyclohexane	56	3.732	3.732	0.0	92	864585	51.5	
54 Carbon tetrachloride	117	3.811	3.811	0.0	73	610615	50.8	
53 1,1-Dichloropropene	75	3.811	3.811	0.0	90	625256	52.5	
55 Isobutyl alcohol	43	3.909	3.909	0.0	94	236178	501.0	
57 Benzene	78	3.964	3.964	0.0	97	1960278	50.1	
58 1,2-Dichloroethane	62	3.994	3.994	0.0	73	557402	52.6	
59 Tert-amyl methyl ether	73	4.000	4.000	0.0	98	1096047	54.0	
60 n-Heptane	43	4.067	4.067	0.0	93	717172	50.7	
61 n-Butanol	56	4.371	4.371	0.0	91	137997	1196.8	
62 Trichloroethene	130	4.402	4.402	0.0	94	513984	50.3	
63 Ethyl acrylate	55	4.511	4.511	0.0	0	704238	48.9	
64 Methylcyclohexane	83	4.511	4.511	0.0	91	838813	51.8	
65 1,2-Dichloropropane	63	4.584	4.584	0.0	94	505303	54.1	
67 Methyl methacrylate	41	4.627	4.627	0.0	89	598196	99.7	
68 Dibromomethane	93	4.687	4.687	0.0	83	221234	49.8	
69 1,4-Dioxane	88	4.700	4.700	0.0	89	42269	977.8	
70 Dichlorobromomethane	83	4.791	4.791	0.0	91	616008	53.4	
71 2-Nitropropane	43	4.979	4.979	0.0	97	276985	97.5	
72 2-Chloroethyl vinyl ether	63	4.986	4.986	0.0	84	160985	46.4	
73 cis-1,3-Dichloropropene	75	5.113	5.113	0.0	88	734403	53.4	
74 4-Methyl-2-pentanone (MIBK)	58	5.229	5.229	0.0	97	521933	257.3	
75 Toluene	91	5.363	5.363	0.0	93	2047060	51.6	
76 trans-1,3-Dichloropropene	75	5.557	5.557	0.0	92	560251	51.0	
77 Ethyl methacrylate	69	5.588	5.588	0.0	90	439637	51.8	
78 1,1,2-Trichloroethane	97	5.722	5.722	0.0	87	329375	49.1	
79 Tetrachloroethene	166	5.801	5.801	0.0	92	581805	52.2	
80 1,3-Dichloropropane	76	5.862	5.862	0.0	89	595337	49.0	
81 2-Hexanone	58	5.904	5.904	0.0	97	466015	249.0	
82 n-Butyl acetate	43	5.983	5.983	0.0	98	230689	48.9	
83 Chlorodibromomethane	127	6.062	6.062	0.0	87	302653	52.9	
84 Ethylene Dibromide	107	6.160	6.160	0.0	98	318557	50.6	
86 Chlorobenzene	112	6.555	6.555	0.0	92	1303498	51.6	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
88 1,1,1,2-Tetrachloroethane	131	6.622	6.622	0.0	88	473631	52.8	
87 Ethylbenzene	91	6.622	6.622	0.0	99	2261413	50.3	
89 m-Xylene & p-Xylene	91	6.725	6.725	0.0	99	1799201	50.4	
90 o-Xylene	91	7.084	7.084	0.0	97	1834716	50.5	
91 Styrene	104	7.109	7.109	0.0	95	1543376	53.7	
92 Bromoform	173	7.322	7.322	0.0	96	229759	48.2	
93 Isopropylbenzene	105	7.407	7.407	0.0	96	2263034	51.2	
94 Cyclohexanone	55	7.577	7.577	0.0	93	66562	454.9	
95 Bromobenzene	77	7.729	7.729	0.0	92	872949	52.0	
96 1,1,2,2-Tetrachloroethane	83	7.747	7.747	0.0	88	364133	47.9	
99 N-Propylbenzene	91	7.790	7.790	0.0	97	2746645	51.3	
98 trans-1,4-Dichloro-2-butene	53	7.790	7.790	0.0	30	79455	51.9	
97 1,2,3-Trichloropropane	110	7.790	7.790	0.0	68	106214	50.7	
100 2-Chlorotoluene	91	7.900	7.900	0.0	96	1599060	53.3	
101 1,3,5-Trimethylbenzene	105	7.960	7.960	0.0	91	2001499	53.9	
102 4-Chlorotoluene	91	8.003	8.003	0.0	96	1754321	52.2	
103 tert-Butylbenzene	119	8.265	8.265	0.0	87	1727439	53.9	
104 1,2,4-Trimethylbenzene	105	8.319	8.319	0.0	91	2063736	54.7	
106 sec-Butylbenzene	105	8.471	8.471	0.0	94	2529832	53.1	
107 4-Isopropyltoluene	119	8.611	8.611	0.0	93	2261447	56.1	
108 1,3-Dichlorobenzene	146	8.617	8.617	0.0	97	1241491	48.1	
109 1,4-Dichlorobenzene	146	8.703	8.703	0.0	94	1225408	52.6	
110 1,2,3-Trimethylbenzene	105	8.733	8.733	0.0	0	2067145	50.3	
111 Benzyl chloride	91	8.842	8.842	0.0	98	647844	53.6	
112 n-Butylbenzene	91	9.007	9.007	0.0	94	2005025	54.2	
113 1,2-Dichlorobenzene	146	9.068	9.068	0.0	97	1109330	49.1	
114 1,2-Dibromo-3-Chloropropane	157	9.889	9.889	0.0	77	69144	44.9	
115 1,3,5-Trichlorobenzene	180	10.077	10.077	0.0	97	1050728	49.6	
116 1,2,4-Trichlorobenzene	180	10.832	10.832	0.0	90	902813	50.8	
117 Hexachlorobutadiene	225	10.984	10.984	0.0	90	542190	48.3	
118 Naphthalene	128	11.112	11.112	0.0	97	1307183	55.4	
119 1,2,3-Trichlorobenzene	180	11.367	11.367	0.0	92	766426	50.0	
S 132 1,2-Dichloroethene, Total	1				0		107.0	
S 131 Xylenes, Total	1				0		100.8	

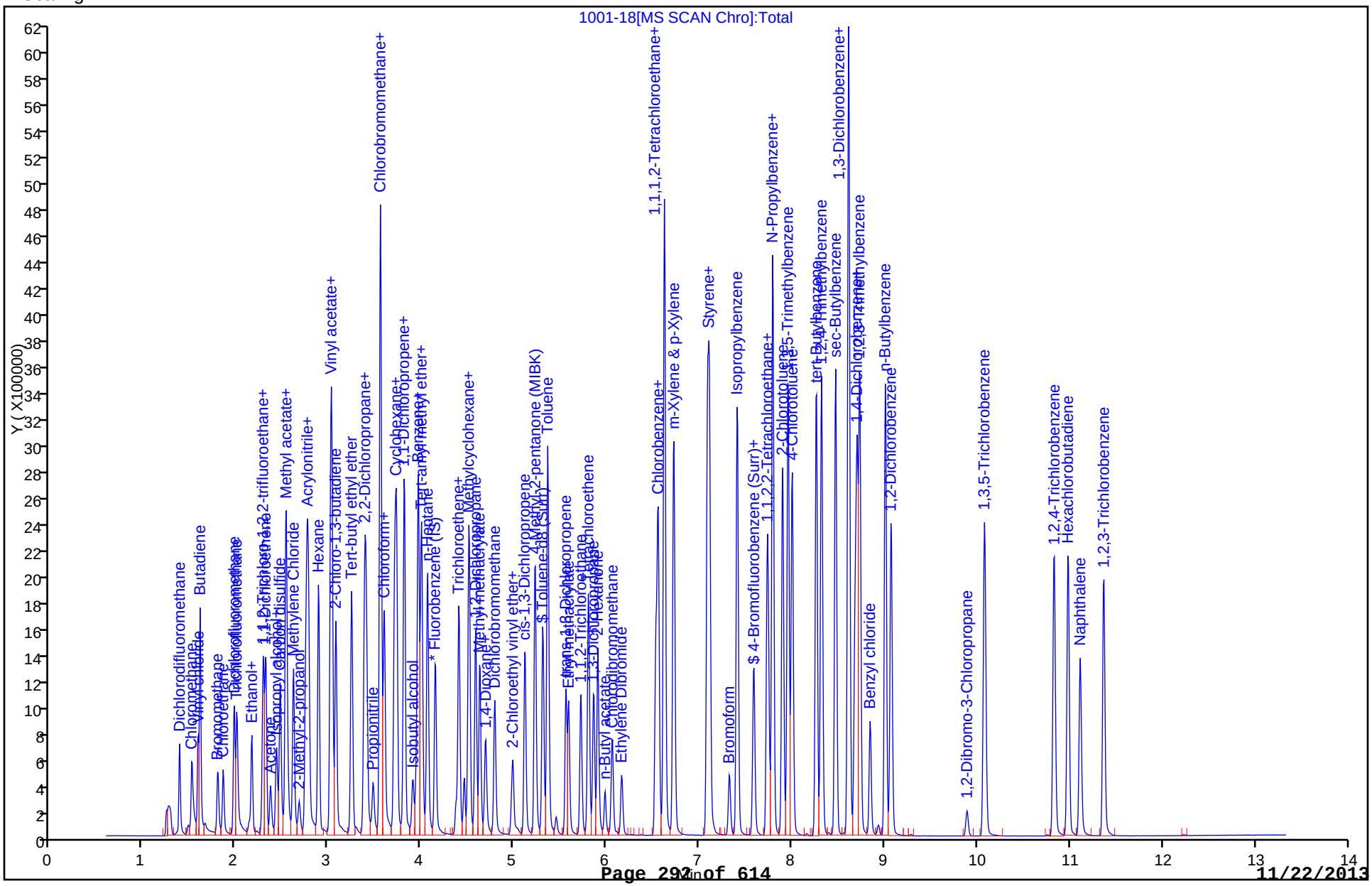
Report Date: 02-Oct-2013 12:09:57 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-18.D

Injection Date:	01-Oct-2013 22:43:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP35
Lims Batch ID:	110993	Lims Sample ID:	18
Operator ID:	MJH HP35	Purge Vol:	10.000 mL
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-19.D
Lims ID: std 100 Client ID:
Inject. Date: 01-Oct-2013 23:14:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 8
Sample ID: STD 100
Misc. Info.: 490-0025968-019
Operator: MJH HP35 Instrument ID: HP35
Purge Vol: 10.000 mL ALS Bottle#: 19
Lims Batch ID: 110993 Lims Sample ID: 19
Sublist: chrom-8260HP35*sub12
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP35\20131001-25968.b\8260HP35.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 02-Oct-2013 12:09:49 Calib Date: 02-Oct-2013 00:15:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK001

First Level Reviewer: himelickm Date: 02-Oct-2013 12:09:49

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.152	4.152	0.0	98	1025258	25.0	
* 2 Chlorobenzene-d5	117	6.531	6.531	0.0	86	806776	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.684	8.678	0.006	85	478236	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.708	3.708	0.0	43	241531	24.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.945	3.945	0.0	84	234717	24.4	
$ 6 Toluene-d8 (Surr)	98	5.308	5.308	0.0	82	1017586	24.9	
$ 7 4-Bromofluorobenzene (Surr)	95	7.589	7.589	0.0	95	400696	25.4	
9 Dichlorodifluoromethane	85	1.390	1.390	0.0	87	948150	99.6	
10 Chloromethane	50	1.518	1.524	-0.006	88	1212052	103.6	
11 Vinyl chloride	62	1.585	1.585	0.0	79	1086502	98.6	
12 Butadiene	54	1.609	1.609	0.0	0	1123140	107.9	
13 Bromomethane	96	1.792	1.798	-0.006	91	557682	103.3	
14 Chloroethane	64	1.852	1.859	-0.007	95	692114	104.1	
15 Dichlorofluoromethane	67	1.974	1.980	-0.006	79	1549411	102.8	
16 Trichlorofluoromethane	101	2.005	2.005	0.0	87	1431552	105.3	
18 Ethanol	45	2.169	2.169	0.0	73	672501	4872.8	
17 Ethyl ether	59	2.169	2.169	0.0	92	601875	101.9	
19 Acrolein	56	2.278	2.278	0.0	98	205391	248.4	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.290	2.291	-0.001	86	807346	95.6	
21 1,1-Dichloroethene	96	2.321	2.321	0.0	89	801881	101.6	
22 Acetone	58	2.370	2.370	0.0	98	212207	489.0	
23 Iodomethane	142	2.430	2.431	0.0	97	1204097	108.7	
25 Isopropyl alcohol	45	2.449	2.449	0.0	97	246656	933.6	
26 Carbon disulfide	76	2.473	2.473	0.0	99	2503945	99.3	
28 Acetonitrile	41	2.534	2.534	0.0	66	1972723	1073.2	
27 3-Chloro-1-propene	76	2.534	2.534	0.0	82	857189	103.5	
29 Methyl acetate	43	2.540	2.540	0.0	97	2265144	479.0	
30 Methylene Chloride	84	2.619	2.619	0.0	90	920989	103.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
31 2-Methyl-2-propanol	59	2.680	2.680	0.0	97	371532	942.1	
32 Methyl tert-butyl ether	73	2.753	2.753	0.0	90	1901166	101.7	
33 trans-1,2-Dichloroethene	61	2.765	2.765	0.0	95	1258688	102.0	
34 Acrylonitrile	53	2.783	2.783	0.0	97	1821320	947.0	
35 Hexane	57	2.887	2.887	0.0	94	1294564	93.7	
36 Isopropyl ether	45	3.021	3.021	-0.001	87	2926807	103.7	
37 1,1-Dichloroethane	63	3.033	3.033	0.0	82	1660824	99.8	
38 Vinyl acetate	43	3.033	3.033	0.0	97	3611671	193.2	
39 2-Chloro-1,3-butadiene	53	3.075	3.075	0.0	88	1442651	101.1	
40 Tert-butyl ethyl ether	59	3.246	3.246	0.0	94	2464116	97.0	
42 2,2-Dichloropropane	77	3.386	3.386	0.0	84	1319455	100.9	
43 cis-1,2-Dichloroethene	61	3.398	3.398	0.0	70	1571909	101.9	
41 Ethyl acetate	43	3.410	3.410	0.0	91	1588481	188.5	
44 2-Butanone (MEK)	72	3.410	3.410	0.0	98	285929	493.4	
45 Propionitrile	54	3.477	3.477	0.0	98	718636	1002.0	
46 Methacrylonitrile	41	3.556	3.556	0.0	92	3168464	872.7	
47 Chlorobromomethane	130	3.568	3.562	0.006	76	526181	99.5	
49 Tetrahydrofuran	42	3.598	3.599	-0.001	66	406770	201.3	
48 Chloroform	83	3.598	3.599	-0.001	83	1523943	96.8	
51 1,1,1-Trichloroethane	97	3.708	3.708	0.0	91	1365303	102.2	
52 Cyclohexane	56	3.732	3.732	0.0	91	1702675	98.3	
54 Carbon tetrachloride	117	3.811	3.811	0.0	74	1182544	95.4	
53 1,1-Dichloropropene	75	3.811	3.811	0.0	90	1232708	100.6	
55 Isobutyl alcohol	43	3.909	3.909	0.0	94	478833	992.0	
57 Benzene	78	3.963	3.964	-0.001	98	3703848	91.7	
58 1,2-Dichloroethane	62	3.994	3.994	0.0	76	1099339	100.9	
59 Tert-amyl methyl ether	73	4.000	4.000	0.0	97	2158976	103.4	
60 n-Heptane	43	4.067	4.067	0.0	92	1406547	96.5	
61 n-Butanol	56	4.371	4.371	0.0	91	275805	2314.8	
62 Trichloroethene	130	4.401	4.402	-0.001	93	1007581	95.6	
63 Ethyl acrylate	55	4.511	4.511	0.0	0	1372808	92.5	
64 Methylcyclohexane	83	4.511	4.511	0.0	92	1603744	96.0	
65 1,2-Dichloropropane	63	4.584	4.584	0.0	94	1005092	104.8	
67 Methyl methacrylate	41	4.627	4.627	0.0	89	1206011	194.9	
68 Dibromomethane	93	4.687	4.687	0.0	84	438488	95.8	
69 1,4-Dioxane	88	4.700	4.700	0.0	92	89134	1999.7	
70 Dichlorobromomethane	83	4.791	4.791	0.0	91	1225486	103.2	
71 2-Nitropropane	43	4.979	4.979	0.0	99	576235	195.9	
72 2-Chloroethyl vinyl ether	63	4.985	4.986	-0.001	84	350787	97.8	
73 cis-1,3-Dichloropropene	75	5.113	5.113	0.0	89	1468421	104.5	
74 4-Methyl-2-pentanone (MIBK)	58	5.229	5.229	0.0	96	1050493	506.1	
75 Toluene	91	5.363	5.363	0.0	91	3875358	95.9	
76 trans-1,3-Dichloropropene	75	5.557	5.557	0.0	93	1134668	101.0	
77 Ethyl methacrylate	69	5.588	5.588	0.0	86	899817	103.7	
78 1,1,2-Trichloroethane	97	5.722	5.722	0.0	87	649923	94.6	
79 Tetrachloroethene	166	5.801	5.801	0.0	93	1145334	100.7	
80 1,3-Dichloropropane	76	5.855	5.862	-0.007	90	1173266	94.4	
81 2-Hexanone	58	5.904	5.904	0.0	96	953625	498.0	
82 n-Butyl acetate	43	5.983	5.983	0.0	98	476982	98.2	
83 Chlorodibromomethane	127	6.056	6.062	-0.006	86	621253	106.1	
84 Ethylene Dibromide	107	6.160	6.160	0.0	99	637875	98.9	
86 Chlorobenzene	112	6.555	6.555	0.0	91	2590503	100.5	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
88 1,1,1,2-Tetrachloroethane	131	6.628	6.622	0.006	65	957588	104.6	
87 Ethylbenzene	91	6.622	6.622	0.0	98	4258370	92.5	
89 m-Xylene & p-Xylene	91	6.725	6.725	0.0	98	3413537	93.4	
90 o-Xylene	91	7.084	7.084	0.0	96	3492697	93.9	
91 Styrene	104	7.109	7.109	0.0	94	2972501	101.2	
92 Bromoform	173	7.322	7.322	0.0	96	499610	101.9	
93 Isopropylbenzene	105	7.407	7.407	0.0	97	4343318	96.0	
94 Cyclohexanone	55	7.577	7.577	0.0	93	138760	926.9	
95 Bromobenzene	77	7.735	7.729	0.006	90	1732353	104.4	
96 1,1,2,2-Tetrachloroethane	83	7.747	7.747	0.0	87	733600	97.4	
99 N-Propylbenzene	91	7.796	7.790	0.006	95	4975122	93.9	
98 trans-1,4-Dichloro-2-butene	53	7.790	7.790	0.0	48	162445	107.1	
97 1,2,3-Trichloropropane	110	7.790	7.790	0.0	79	218268	105.2	
100 2-Chlorotoluene	91	7.899	7.900	-0.001	97	3086850	104.1	
101 1,3,5-Trimethylbenzene	105	7.960	7.960	0.0	72	3711831	100.9	
102 4-Chlorotoluene	91	8.003	8.003	0.0	97	3329646	100.2	
103 tert-Butylbenzene	119	8.264	8.265	-0.001	91	3263119	102.8	
104 1,2,4-Trimethylbenzene	105	8.319	8.319	0.0	91	3786193	101.3	
106 sec-Butylbenzene	105	8.471	8.471	0.0	95	4592532	97.3	
107 4-Isopropyltoluene	119	8.611	8.611	0.0	92	4130126	103.4	
108 1,3-Dichlorobenzene	146	8.617	8.617	0.0	96	2326284	91.0	
109 1,4-Dichlorobenzene	146	8.702	8.703	-0.001	93	2307393	100.3	
110 1,2,3-Trimethylbenzene	105	8.733	8.733	0.0	0	3772214	92.7	
111 Benzyl chloride	91	8.842	8.842	0.0	98	1319326	106.6	
112 n-Butylbenzene	91	9.007	9.007	0.0	93	3686165	100.6	
113 1,2-Dichlorobenzene	146	9.074	9.068	0.006	96	2125661	95.0	
114 1,2-Dibromo-3-Chloropropane	157	9.889	9.889	0.0	81	145045	93.7	
115 1,3,5-Trichlorobenzene	180	10.077	10.077	0.0	96	2079593	99.1	
116 1,2,4-Trichlorobenzene	180	10.832	10.832	0.0	90	1801400	102.4	
117 Hexachlorobutadiene	225	10.984	10.984	0.0	90	1080234	97.2	
118 Naphthalene	128	11.112	11.112	0.0	97	2599169	111.2	
119 1,2,3-Trichlorobenzene	180	11.367	11.367	0.0	92	1526794	100.6	
S 132 1,2-Dichloroethene, Total	1				0		203.9	
S 131 Xylenes, Total	1				0		187.3	

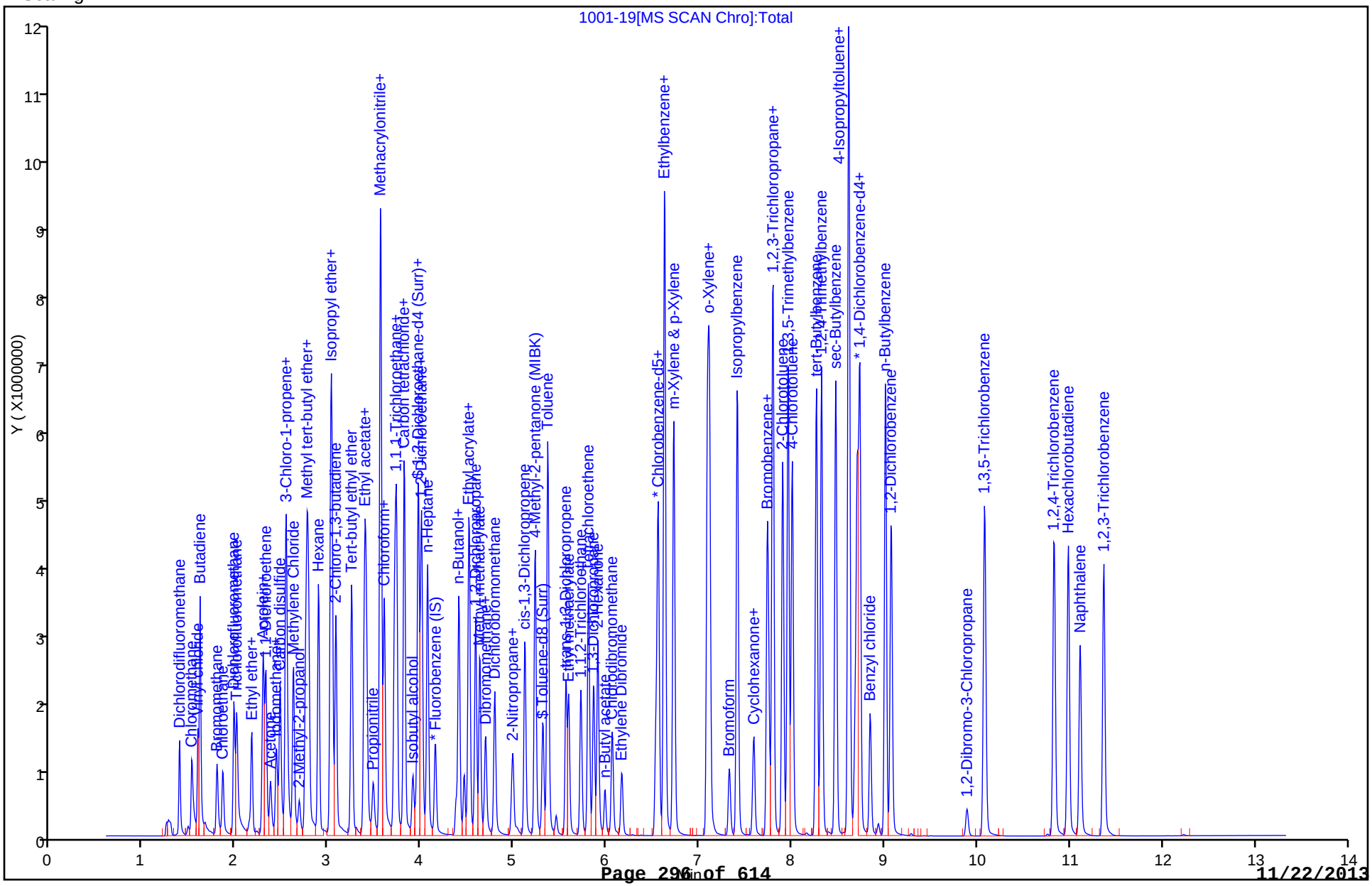
Report Date: 02-Oct-2013 12:09:49 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-19.D

Injection Date:	01-Oct-2013 23:14:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP35
Lims Batch ID:	110993	Lims Sample ID:	19
Operator ID:	MJH HP35	Purge Vol:	10.000 mL
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-20.D
Lims ID: std 200 Client ID:
Inject. Date: 01-Oct-2013 23:45:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 9
Sample ID: STD 200
Misc. Info.: 490-0025968-020
Operator: MJH HP35 Instrument ID: HP35
Purge Vol: 10.000 mL ALS Bottle#: 20
Lims Batch ID: 110993 Lims Sample ID: 20
Sublist: chrom-8260HP35*sub12
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP35\20131001-25968.b\8260HP35.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 02-Oct-2013 12:09:42 Calib Date: 02-Oct-2013 00:15:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK001

First Level Reviewer: himelickm Date: 02-Oct-2013 12:09:42

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.146	4.152	-0.006	98	1042397	25.0	
* 2 Chlorobenzene-d5	117	6.531	6.531	0.0	85	814958	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.684	8.678	0.006	71	481968	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.708	3.708	0.0	38	248145	25.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.945	3.945	0.0	67	239649	24.5	
$ 6 Toluene-d8 (Surr)	98	5.314	5.308	0.006	82	1042311	25.2	
$ 7 4-Bromofluorobenzene (Surr)	95	7.589	7.589	0.0	95	407080	25.6	
9 Dichlorodifluoromethane	85	1.384	1.390	-0.006	87	1986361	205.3	
10 Chloromethane	50	1.518	1.524	-0.006	88	2371495	200.2	
11 Vinyl chloride	62	1.585	1.585	0.0	79	2159892	192.8	
12 Butadiene	54	1.609	1.609	0.0	0	2265139	214.0	
13 Bromomethane	96	1.780	1.798	-0.018	92	767933	139.7	
14 Chloroethane	64	1.840	1.859	-0.019	95	1392708	206.3	
15 Dichlorofluoromethane	67	1.968	1.980	-0.012	79	2957991	193.3	
16 Trichlorofluoromethane	101	1.999	2.005	-0.007	86	2834915	205.1	
18 Ethanol	45	2.163	2.169	-0.006	90	1351110	9643.0	
17 Ethyl ether	59	2.163	2.169	-0.006	93	1214988	202.5	
19 Acrolein	56	2.278	2.278	0.0	96	428014	509.1	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.291	2.291	0.0	85	1607495	187.2	
21 1,1-Dichloroethene	96	2.315	2.321	-0.006	90	1662517	207.5	
22 Acetone	58	2.370	2.370	0.0	99	435455	988.5	
23 Iodomethane	142	2.430	2.431	0.0	98	2298292	204.0	
25 Isopropyl alcohol	45	2.455	2.449	0.006	99	528153	1968.7	
26 Carbon disulfide	76	2.467	2.473	-0.006	99	4833783	188.8	
28 Acetonitrile	41	2.534	2.534	0.0	88	3757073	2016.4	
27 3-Chloro-1-propene	76	2.534	2.534	0.0	79	1803519	214.1	
29 Methyl acetate	43	2.540	2.540	0.0	96	4510383	938.7	
30 Methylene Chloride	84	2.613	2.619	-0.006	85	1843934	203.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
31 2-Methyl-2-propanol	59	2.686	2.680	0.006	98	805803	2009.6	
32 Methyl tert-butyl ether	73	2.747	2.753	-0.006	92	3707778	195.3	
33 trans-1,2-Dichloroethene	61	2.765	2.765	0.0	95	2497379	199.5	
34 Acrylonitrile	53	2.783	2.783	0.0	96	3739368	1912.4	
35 Hexane	57	2.887	2.887	0.0	94	2551904	181.7	
36 Isopropyl ether	45	3.021	3.021	0.0	83	5365599	187.5	
37 1,1-Dichloroethane	63	3.027	3.033	-0.006	81	3449047	204.2	
38 Vinyl acetate	43	3.033	3.033	0.0	98	6278816	330.9	
39 2-Chloro-1,3-butadiene	53	3.075	3.075	0.0	88	2813104	194.2	
40 Tert-butyl ethyl ether	59	3.246	3.246	0.0	91	4805145	186.1	
42 2,2-Dichloropropane	77	3.379	3.386	-0.007	89	2695617	203.1	
43 cis-1,2-Dichloroethene	61	3.392	3.398	-0.006	71	3167414	202.2	
41 Ethyl acetate	43	3.410	3.410	0.0	91	3158755	368.7	
44 2-Butanone (MEK)	72	3.410	3.410	0.0	98	602662	1022.9	
45 Propionitrile	54	3.483	3.477	0.006	98	1473807	2021.1	
46 Methacrylonitrile	41	3.562	3.556	0.006	86	5790798	1568.8	
47 Chlorobromomethane	130	3.568	3.562	0.006	83	1043724	194.2	
49 Tetrahydrofuran	42	3.598	3.599	-0.001	49	846230	411.7	
48 Chloroform	83	3.598	3.599	-0.001	81	3000353	187.9	
51 1,1,1-Trichloroethane	97	3.708	3.708	0.0	90	2650977	195.5	
52 Cyclohexane	56	3.726	3.732	-0.006	92	3314340	188.2	
54 Carbon tetrachloride	117	3.811	3.811	0.0	74	2328162	184.8	
53 1,1-Dichloropropene	75	3.811	3.811	0.0	89	2468200	198.3	
55 Isobutyl alcohol	43	3.915	3.909	0.006	94	994367	2033.6	
57 Benzene	78	3.963	3.964	-0.001	97	6642405	161.8	
58 1,2-Dichloroethane	62	3.994	3.994	0.0	84	2169313	196.0	
59 Tert-amyl methyl ether	73	4.000	4.000	0.0	95	4227411	199.3	
60 n-Heptane	43	4.067	4.067	0.0	91	2722304	183.6	
61 n-Butanol	56	4.377	4.371	0.006	90	589217	4858.0	
62 Trichloroethene	130	4.401	4.402	-0.001	92	2054709	191.8	
63 Ethyl acrylate	55	4.511	4.511	0.0	0	2714623	179.8	
64 Methylcyclohexane	83	4.517	4.511	0.006	92	3191840	188.0	
65 1,2-Dichloropropane	63	4.584	4.584	0.0	93	2016557	207.1	
67 Methyl methacrylate	41	4.633	4.627	0.006	88	2361775	375.4	
68 Dibromomethane	93	4.693	4.687	0.006	85	898298	193.0	
69 1,4-Dioxane	88	4.706	4.700	0.006	91	193190	4263.0	
70 Dichlorobromomethane	83	4.791	4.791	0.0	87	2432382	201.7	
71 2-Nitropropane	43	4.979	4.979	0.0	99	1222156	407.9	
72 2-Chloroethyl vinyl ether	63	4.985	4.986	-0.001	85	750086	206.3	
73 cis-1,3-Dichloropropene	75	5.119	5.113	0.006	89	2910137	205.2	
74 4-Methyl-2-pentanone (MIBK)	58	5.229	5.229	0.0	93	2152990	1026.8	
75 Toluene	91	5.363	5.363	0.0	87	6806890	167.2	
76 trans-1,3-Dichloropropene	75	5.557	5.557	0.0	92	2304863	203.1	
77 Ethyl methacrylate	69	5.588	5.588	0.0	91	1827722	208.5	
78 1,1,2-Trichloroethane	97	5.722	5.722	0.0	87	1315759	189.6	
79 Tetrachloroethene	166	5.807	5.801	0.006	93	2281500	198.7	
80 1,3-Dichloropropane	76	5.862	5.862	0.0	89	2348459	187.1	
81 2-Hexanone	58	5.904	5.904	0.0	95	1933977	999.7	
82 n-Butyl acetate	43	5.983	5.983	0.0	98	1007828	204.2	
83 Chlorodibromomethane	127	6.062	6.062	0.0	86	1264920	213.8	
84 Ethylene Dibromide	107	6.166	6.160	0.006	99	1279092	196.4	
86 Chlorobenzene	112	6.555	6.555	0.0	88	4865361	187.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
88 1,1,1,2-Tetrachloroethane	131	6.628	6.622	0.006	87	1897481	205.4	
87 Ethylbenzene	91	6.622	6.622	0.0	94	7231743	155.6	
89 m-Xylene & p-Xylene	91	6.725	6.725	0.0	94	6184046	167.4	
90 o-Xylene	91	7.090	7.084	0.006	92	6352567	169.1	
91 Styrene	104	7.115	7.109	0.006	92	5413154	182.5	
92 Bromoform	173	7.322	7.322	0.0	95	1045922	210.6	
93 Isopropylbenzene	105	7.413	7.407	0.006	97	7473786	163.5	
94 Cyclohexanone	55	7.577	7.577	0.0	93	299167	1973.4	
95 Bromobenzene	77	7.735	7.729	0.006	91	3357115	201.0	
96 1,1,2,2-Tetrachloroethane	83	7.747	7.747	0.0	83	1458665	192.2	
99 N-Propylbenzene	91	7.796	7.790	0.006	92	8196742	153.5	
98 trans-1,4-Dichloro-2-butene	53	7.796	7.790	0.006	55	337845	221.1	
97 1,2,3-Trichloropropane	110	7.790	7.790	0.0	73	436456	208.8	
100 2-Chlorotoluene	91	7.899	7.900	-0.001	96	5580047	186.9	
101 1,3,5-Trimethylbenzene	105	7.960	7.960	0.0	85	6452010	174.1	
102 4-Chlorotoluene	91	8.003	8.003	0.0	95	5960035	178.1	
103 tert-Butylbenzene	119	8.264	8.265	-0.001	89	5949885	186.1	
104 1,2,4-Trimethylbenzene	105	8.319	8.319	0.0	89	6627391	175.9	
106 sec-Butylbenzene	105	8.471	8.471	0.0	95	7722141	162.4	
107 4-Isopropyltoluene	119	8.617	8.611	0.006	89	7008021	174.1	
108 1,3-Dichlorobenzene	146	8.623	8.617	0.006	95	4242542	164.7	
109 1,4-Dichlorobenzene	146	8.709	8.703	0.006	90	4314965	186.3	
110 1,2,3-Trimethylbenzene	105	8.733	8.733	0.0	0	6476154	157.8	
111 Benzyl chloride	91	8.842	8.842	0.0	98	2614896	209.2	
112 n-Butylbenzene	91	9.013	9.007	0.006	89	6323440	171.3	
113 1,2-Dichlorobenzene	146	9.074	9.068	0.006	94	3966571	176.0	
114 1,2-Dibromo-3-Chloropropane	157	9.889	9.889	0.0	88	313034	199.1	
115 1,3,5-Trichlorobenzene	180	10.083	10.077	0.006	93	4007699	189.5	
116 1,2,4-Trichlorobenzene	180	10.832	10.832	0.0	91	3534980	199.3	
117 Hexachlorobutadiene	225	10.984	10.984	0.0	90	2143687	191.5	
118 Naphthalene	128	11.112	11.112	0.0	98	5038196	213.8	
119 1,2,3-Trichlorobenzene	180	11.367	11.367	0.0	92	2980024	194.9	
S 132 1,2-Dichloroethene, Total	1				0		401.7	
S 131 Xylenes, Total	1				0		336.5	

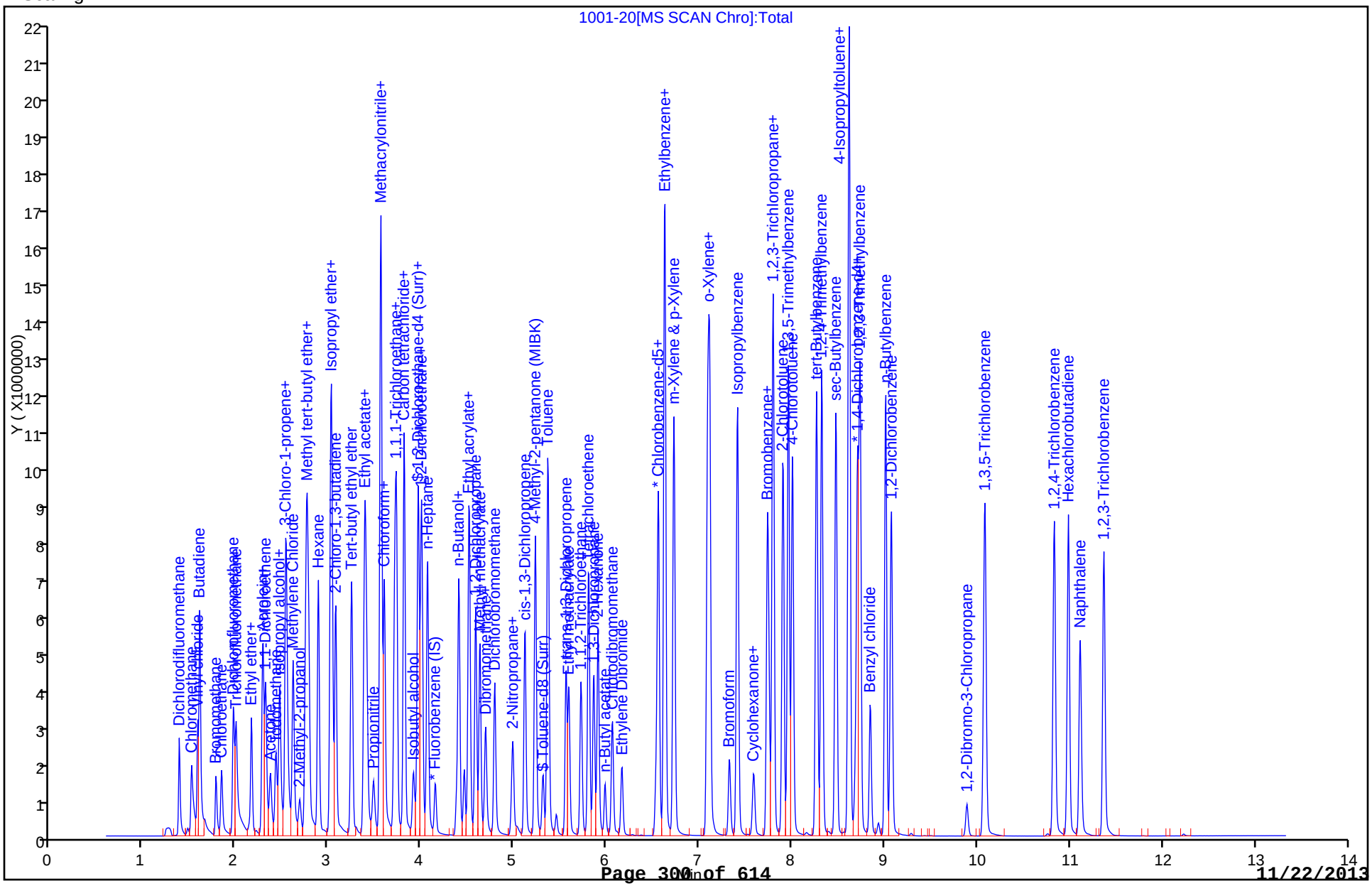
Report Date: 02-Oct-2013 12:09:42 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-20.D

Injection Date:	01-Oct-2013 23:45:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP35
Lims Batch ID:	110993	Lims Sample ID:	20
Operator ID:	MJH HP35	Purge Vol:	10.000 mL
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D
Lims ID: std 400 Client ID:
Inject. Date: 02-Oct-2013 00:15:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 10
Sample ID: STD 400
Misc. Info.: 490-0025968-021
Operator: MJH HP35 Instrument ID: HP35
Purge Vol: 10.000 mL ALS Bottle#: 21
Lims Batch ID: 110993 Lims Sample ID: 21
Sublist: chrom-8260HP35*sub12
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP35\20131001-25968.b\8260HP35.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 02-Oct-2013 12:09:37 Calib Date: 02-Oct-2013 00:15:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK001

First Level Reviewer: himelickm Date: 02-Oct-2013 12:09:37

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.146	4.152	-0.006	97	1032128	25.0	
* 2 Chlorobenzene-d5	117	6.531	6.531	0.0	85	844972	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.690	8.678	0.012	54	450572	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.714	3.708	0.006	28	234956	24.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.945	3.945	0.0	41	235480	24.3	
$ 6 Toluene-d8 (Surr)	98	5.314	5.308	0.006	81	1057484	24.7	
$ 7 4-Bromofluorobenzene (Surr)	95	7.589	7.589	0.0	91	403144	27.1	
9 Dichlorodifluoromethane	85	1.384	1.390	-0.006	85	3634704	379.4	
10 Chloromethane	50	1.512	1.524	-0.012	87	4569545	390.4	
11 Vinyl chloride	62	1.579	1.585	-0.006	77	4160031	375.0	
12 Butadiene	54	1.603	1.609	-0.006	0	4208387	401.5	
13 Bromomethane	96	1.773	1.798	-0.025	92	1081971	198.6	
14 Chloroethane	64	1.828	1.859	-0.031	94	1863946	279.0	
15 Dichlorofluoromethane	67	1.956	1.980	-0.024	78	5761814	380.6	
16 Trichlorofluoromethane	101	1.986	2.005	-0.019	85	5397533	394.4	
18 Ethanol	45	2.163	2.169	-0.006	88	2762612	19929	
17 Ethyl ether	59	2.163	2.169	-0.006	93	2267357	381.8	
19 Acrolein	56	2.272	2.278	-0.006	96	824031	990.0	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.278	2.291	-0.013	82	3002502	353.1	
21 1,1-Dichloroethene	96	2.309	2.321	-0.012	89	3183074	401.4	
22 Acetone	58	2.370	2.370	0.0	98	891274	2045.0	
23 Iodomethane	142	2.418	2.431	-0.012	99	4368754	391.7	
25 Isopropyl alcohol	45	2.473	2.449	0.024	65	1023069	3853.5	
26 Carbon disulfide	76	2.461	2.473	-0.012	98	7714480	304.6	
28 Acetonitrile	41	2.528	2.534	-0.006	88	6988178	3793.9	
27 3-Chloro-1-propene	76	2.528	2.534	-0.006	85	3692512	442.8	
29 Methyl acetate	43	2.540	2.540	0.0	94	7759392	1631.5	
30 Methylene Chloride	84	2.607	2.619	-0.012	80	3462326	387.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
31 2-Methyl-2-propanol	59	2.704	2.680	0.024	95	1623118	4088.2	
32 Methyl tert-butyl ether	73	2.747	2.753	-0.006	93	6418192	341.5	
33 trans-1,2-Dichloroethene	61	2.765	2.765	0.0	92	5027713	406.0	
34 Acrylonitrile	53	2.783	2.783	0.0	94	6470626	3342.1	
35 Hexane	57	2.881	2.887	-0.006	94	4573733	329.0	
36 Isopropyl ether	45	3.021	3.021	0.0	85	8219719	290.4	
37 1,1-Dichloroethane	63	3.027	3.033	-0.006	86	6559043	392.6	
38 Vinyl acetate	43	3.033	3.033	0.0	98	9467180	504.3	
39 2-Chloro-1,3-butadiene	53	3.069	3.075	-0.006	88	4864658	339.4	
40 Tert-butyl ethyl ether	59	3.246	3.246	0.0	85	7944651	310.8	
42 2,2-Dichloropropane	77	3.379	3.386	-0.007	89	4923113	374.8	
43 cis-1,2-Dichloroethene	61	3.398	3.398	0.0	69	6050397	390.5	
41 Ethyl acetate	43	3.416	3.410	0.006	93	5728835	675.4	
44 2-Butanone (MEK)	72	3.416	3.410	0.006	99	1206853	2068.8	
45 Propionitrile	54	3.495	3.477	0.018	98	2799136	3876.7	
46 Methacrylonitrile	41	3.568	3.556	0.012	81	10043148	2747.8	
47 Chlorobromomethane	130	3.562	3.562	0.0	87	1956986	368.0	
49 Tetrahydrofuran	42	3.605	3.599	0.006	73	1621123	796.5	
48 Chloroform	83	3.605	3.599	0.006	81	5427205	343.7	
51 1,1,1-Trichloroethane	97	3.708	3.708	0.0	87	4716370	351.6	
52 Cyclohexane	56	3.726	3.732	-0.006	92	5849347	335.5	
54 Carbon tetrachloride	117	3.811	3.811	0.0	72	4218243	338.2	
53 1,1-Dichloropropene	75	3.811	3.811	0.0	87	4419552	358.7	
55 Isobutyl alcohol	43	3.927	3.909	0.018	93	1929967	3993.2	
57 Benzene	78	3.963	3.964	-0.001	89	10097693	248.5	
58 1,2-Dichloroethane	62	3.994	3.994	0.0	81	3871229	353.4	
59 Tert-amyl methyl ether	73	4.006	4.000	0.006	90	7087444	337.6	
60 n-Heptane	43	4.067	4.067	0.0	87	4809072	327.6	
61 n-Butanol	56	4.389	4.371	0.018	90	1249015	10394	
62 Trichloroethene	130	4.401	4.402	-0.001	90	3807423	359.0	
63 Ethyl acrylate	55	4.511	4.511	0.0	0	4999547	334.4	
64 Methylcyclohexane	83	4.517	4.511	0.006	92	5817096	346.0	
65 1,2-Dichloropropane	63	4.584	4.584	0.0	90	3680595	382.2	
67 Methyl methacrylate	41	4.633	4.627	0.006	84	4282518	687.5	
68 Dibromomethane	93	4.693	4.687	0.006	83	1663895	361.1	
69 1,4-Dioxane	88	4.712	4.700	0.012	91	406247	9053.5	
70 Dichlorobromomethane	83	4.791	4.791	0.0	85	4454768	373.3	
71 2-Nitropropane	43	4.985	4.979	0.006	99	2389154	804.5	
72 2-Chloroethyl vinyl ether	63	4.992	4.986	0.006	84	1523260	403.2	
73 cis-1,3-Dichloropropene	75	5.119	5.113	0.006	86	5274696	358.8	
74 4-Methyl-2-pentanone (MIBK)	58	5.235	5.229	0.006	86	4067194	1870.8	
75 Toluene	91	5.369	5.363	0.006	80	10334363	245.1	
76 trans-1,3-Dichloropropene	75	5.563	5.557	0.006	92	4287991	364.4	
77 Ethyl methacrylate	69	5.594	5.588	0.006	91	3482847	383.3	
78 1,1,2-Trichloroethane	97	5.728	5.722	0.006	88	2493045	346.5	
79 Tetrachloroethene	166	5.807	5.801	0.006	89	4181931	351.5	
80 1,3-Dichloropropane	76	5.862	5.862	0.0	93	4325273	332.4	
81 2-Hexanone	58	5.910	5.904	0.006	90	3682777	1836.1	
82 n-Butyl acetate	43	5.983	5.983	0.0	98	1954479	400.1	
83 Chlorodibromomethane	127	6.062	6.062	0.0	87	2454529	400.1	
84 Ethylene Dibromide	107	6.166	6.160	0.006	100	2435156	360.6	
86 Chlorobenzene	112	6.561	6.555	0.006	81	8187557	303.8	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
88 1,1,1,2-Tetrachloroethane	131	6.634	6.622	0.012	49	3427823	358.0	
87 Ethylbenzene	91	6.628	6.622	0.006	86	10547186	218.8	
89 m-Xylene & p-Xylene	91	6.731	6.725	0.006	85	9505083	248.2	
90 o-Xylene	91	7.096	7.084	0.012	82	10025008	257.4	
91 Styrene	104	7.115	7.109	0.006	88	8514706	277.0	
92 Bromoform	173	7.328	7.322	0.006	94	2020912	392.1	
93 Isopropylbenzene	105	7.413	7.407	0.006	89	10798571	227.8	
94 Cyclohexanone	55	7.583	7.577	0.006	94	621401	4147.3	
95 Bromobenzene	77	7.735	7.729	0.006	93	5910103	378.7	
96 1,1,2,2-Tetrachloroethane	83	7.753	7.747	0.006	89	2702579	381.0	
99 N-Propylbenzene	91	7.802	7.790	0.012	83	11712370	234.6	
98 trans-1,4-Dichloro-2-butene	53	7.802	7.790	0.012	41	704094	492.9	
97 1,2,3-Trichloropropane	110	7.796	7.790	0.006	54	787758	403.2	
100 2-Chlorotoluene	91	7.906	7.900	0.006	89	8791543	315.1	
101 1,3,5-Trimethylbenzene	105	7.966	7.960	0.006	71	9523025	274.8	
102 4-Chlorotoluene	91	8.015	8.003	0.012	89	9449633	302.2	
103 tert-Butylbenzene	119	8.271	8.265	0.006	82	9219431	308.4	
104 1,2,4-Trimethylbenzene	105	8.325	8.319	0.006	82	9550748	271.1	
106 sec-Butylbenzene	105	8.477	8.471	0.006	91	11203011	252.0	
107 4-Isopropyltoluene	119	8.623	8.611	0.012	85	10071561	267.7	
108 1,3-Dichlorobenzene	146	8.629	8.617	0.012	91	6480783	269.1	
109 1,4-Dichlorobenzene	146	8.715	8.703	0.012	85	6913039	319.4	
110 1,2,3-Trimethylbenzene	105	8.739	8.733	0.006	0	9448828	246.3	
111 Benzyl chloride	91	8.848	8.842	0.006	98	4607618	355.4	
112 n-Butylbenzene	91	9.019	9.007	0.012	81	9131847	264.6	
113 1,2-Dichlorobenzene	146	9.080	9.068	0.012	89	6508344	308.8	
114 1,2-Dibromo-3-Chloropropane	157	9.889	9.889	0.0	86	610673	414.1	
115 1,3,5-Trichlorobenzene	180	10.090	10.077	0.013	94	6900054	348.9	
116 1,2,4-Trichlorobenzene	180	10.838	10.832	0.006	92	6258200	377.5	
117 Hexachlorobutadiene	225	10.990	10.984	0.006	91	3881366	370.9	
118 Naphthalene	128	11.118	11.112	0.006	99	8625982	391.6	
119 1,2,3-Trichlorobenzene	180	11.367	11.367	0.0	92	5347043	374.0	
S 132 1,2-Dichloroethene, Total	1				0		796.5	
S 131 Xylenes, Total	1				0		505.6	

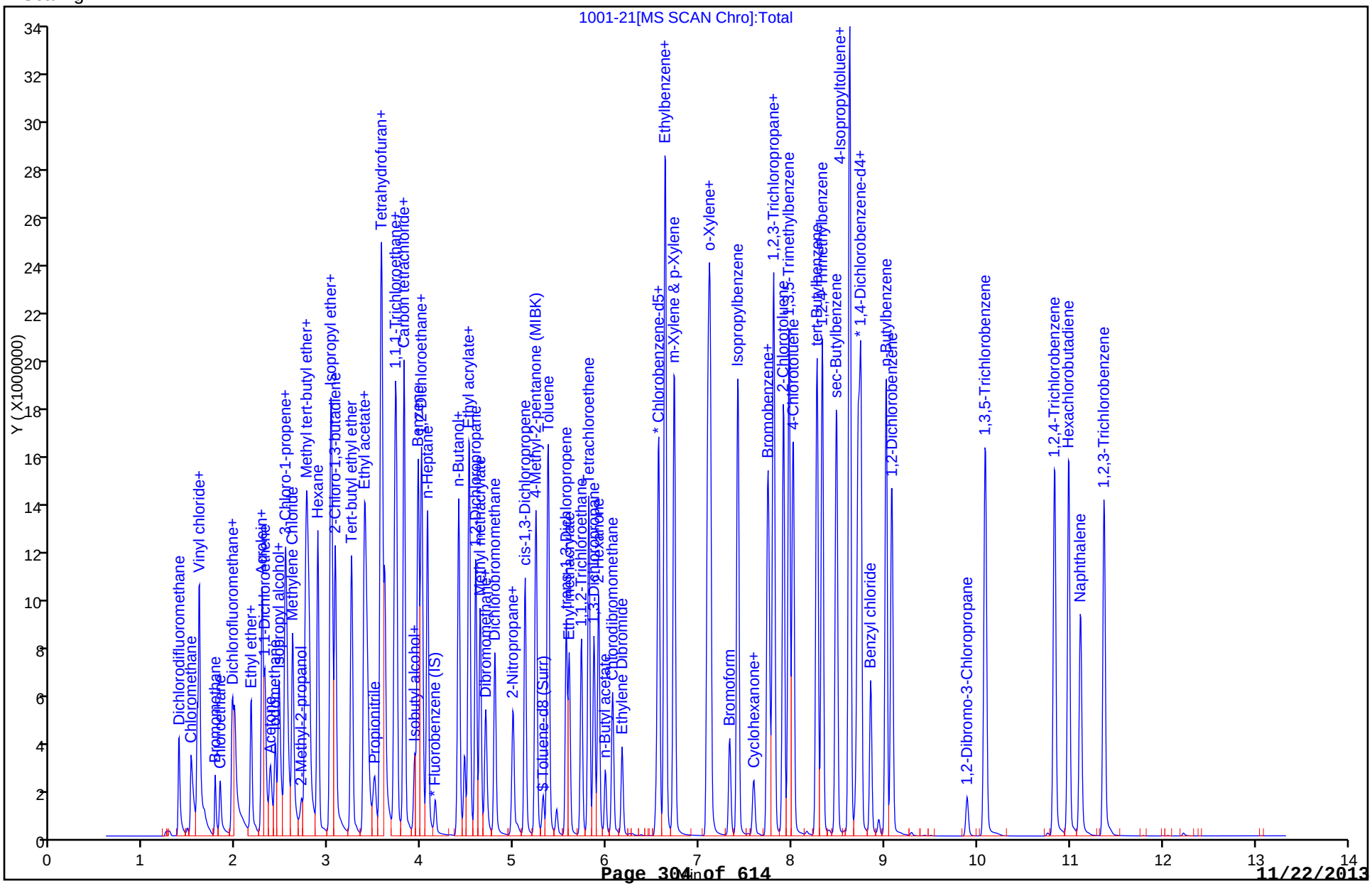
Report Date: 02-Oct-2013 12:09:37 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D

Injection Date:	02-Oct-2013 00:15:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP35
Lims Batch ID:	110993	Lims Sample ID:	21
Operator ID:	MJH HP35	Purge Vol:	10.000 mL
Column Type:		Column Dia:	

Y Scaling:



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39837-2 Analy Batch No.: 121964

SDG No.:

Instrument ID: HP35 GC Column: ZB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/14/2013 14:57 Calibration End Date: 11/14/2013 19:08 Calibration ID: 20571

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 490-121964/3	1114-03.D
Level 2	STD 490-121964/4	1114-04.D
Level 3	STD 490-121964/5	1114-05.D
Level 4	STD 490-121964/6	1114-06.D
Level 5	STD 490-121964/7	1114-07.D
Level 6	STD 490-121964/8	1114-08.D
Level 7	ICIS 490-121964/9	1114-09.D
Level 8	STD 490-121964/10	1114-10.D
Level 9	STD 490-121964/11	1114-11.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Ethanol	0.0076 0.0013	0.0049 0.0012	0.0030 0.0012	0.0018 0.0010	0.0015	Lin1	0.3556	0.0011							0.9970		0.9900
tert-Butyl alcohol (TBA)	0.0102 0.0127	0.0120 0.0125	0.0128 0.0127	0.0111 0.0126	0.0118	Ave		0.0120				7.4		15.0			
Methyl tert-butyl ether	0.4223 0.4491	0.4265 0.4501	0.4309 0.4485	0.4005 0.4292	0.4109	Ave		0.4298				4.0		15.0			
Diisopropyl ether	0.8732 0.7596	0.7500 0.7488	0.7122 0.7291	0.6904 0.6564	0.7112	Ave		0.7368				8.2		15.0			
Ethyl tert-butyl ether	0.5954 0.5712	0.5216 0.5819	0.5208 0.5761	0.5148 0.5469	0.5267	Ave		0.5506				5.6		15.0			
tert-Butyl Formate	0.0445 0.0474	0.0409 0.0501	0.0415 0.0491	0.0391 0.0501	0.0400	Ave		0.0447				10.0		15.0			
Benzene	1.2236 1.0785	1.0363 1.0329	1.0758 0.9808	0.9878 0.8607	1.0222	Ave		1.0332				9.4		15.0			
t-Amyl alcohol	0.0051 0.0077	0.0070 0.0079	0.0064 0.0078	0.0064 0.0081	0.0071	Ave		0.0071				14.0		15.0			
1,2-Dichloroethane	0.2949 0.2990	0.2739 0.2849	0.2988 0.2780	0.2788 0.2687	0.2882	Ave		0.2850				3.9		15.0			
Tert-amyl methyl ether	0.4861 0.5334	0.4523 0.5480	0.4675 0.5493	0.4477 0.5378	0.4824	Ave		0.5005				8.3		15.0			
Toluene	2.0057 1.5343	1.5552 1.5433	1.5779 1.4486	1.4436 1.2234	1.4920	Ave		1.5360				13.0		15.0			
3,3-Dimethyl-1-butanol	0.0017 0.0080	0.0065 0.0095	0.0070 0.0102	0.0062 0.0110	0.0071	Lin1	-0.069	0.0104							0.9920		0.9900
1,2-Dibromoethane (EDB)	0.1780 0.2133	0.1810 0.2216	0.1882 0.2199	0.1885 0.2147	0.1980	Lin2	-0.020	0.2088							0.9960		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39837-2 Analy Batch No.: 121964

SDG No.:

Instrument ID: HP35 GC Column: ZB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/14/2013 14:57 Calibration End Date: 11/14/2013 19:08 Calibration ID: 20571

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Ethylbenzene	1.4275 1.6045	1.2242 1.6676	1.3195 1.5676	1.3033 1.3144	1.4544	Lin1	-0.029	1.4441							0.9900		0.9900
m,p-Xylene	0.9800 1.2999	0.8616 1.2847	0.9980 1.1383	1.0949 +++++	1.2400	Lin1	-0.375	1.2031							0.9960		0.9900
o-Xylene	0.8414 1.2563	0.7694 1.3433	0.8699 1.2691	0.9206 1.1085	1.0851	Lin1	-0.320	1.1896							0.9930		0.9900
Isopropylbenzene	1.0179 1.5642	0.8631 1.6673	1.0119 1.5545	1.0518 +++++	1.3170	Lin1	-0.661	1.5767							0.9950		0.9900
N-Propylbenzene	2.4824 2.9386	2.2052 3.0281	2.3326 2.9490	2.2316 +++++	2.5123	Lin1	-0.746	2.9466							0.9970		0.9900
1,3,5-Trimethylbenzene	1.5481 2.1591	1.3269 2.2561	1.4657 2.2531	1.5175 1.9750	1.8163	Lin1	-0.647	2.0924							0.9940		0.9900
tert-Butylbenzene	1.2397 1.8360	1.1480 1.9805	1.2516 2.0150	1.2204 1.8030	1.4961	Lin1	-0.751	1.8789							0.9950		0.9900
1,2,4-Trimethylbenzene	1.4056 2.2940	1.3078 2.3320	1.5353 2.2668	1.6772 1.9934	2.0445	Lin1	-0.593	2.1289							0.9940		0.9900
sec-Butylbenzene	1.9743 2.7469	1.5780 2.8387	1.8700 2.7708	1.9829 2.3470	2.3429	Lin1	-0.631	2.5449							0.9910		0.9900
p-Isopropyltoluene	1.4025 2.3591	1.3060 2.4272	1.5000 2.4188	1.6121 2.0604	1.9739	Lin1	-0.749	2.2189							0.9920		0.9900
n-Butylbenzene	1.5632 2.0726	1.3503 2.1459	1.4480 2.1431	1.4134 1.8662	1.7230	Lin1	-0.547	1.9834							0.9940		0.9900
Naphthalene	+++++ 0.9300	+++++ 1.1926	+++++ 1.3670	0.6300 1.3512	0.7023	Lin1	-5.306	1.3693							0.9970		0.9900
2-Methylnaphthalene	+++++ 0.4936	+++++ 0.7205	+++++ 0.8557	+++++ 0.9052	0.3471	Lin2	-5.831	0.8802							0.9910		0.9900
Dibromofluoromethane (Surr)	0.2341 0.2354	0.2393 0.2319	0.2393 0.2326	0.2350 0.2190	0.2391	Ave		0.2340				2.7		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2412 0.2394	0.2493 0.2338	0.2455 0.2271	0.2477 0.2322	0.2471	Ave		0.2404				3.3		15.0			
Toluene-d8 (Surr)	1.3814 1.3398	1.4002 1.3758	1.3698 1.3600	1.3642 1.3467	1.3593	Ave		1.3664				1.3		15.0			
4-Bromofluorobenzene (Surr)	0.7377 0.7413	0.7431 0.7589	0.7392 0.8059	0.7242 0.7921	0.7302	Ave		0.7525				3.8		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39837-2 Analy Batch No.: 121964

SDG No.:

Instrument ID: HP35 GC Column: ZB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/14/2013 14:57 Calibration End Date: 11/14/2013 19:08 Calibration ID: 20571

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 490-121964/3	1114-03.D
Level 2	STD 490-121964/4	1114-04.D
Level 3	STD 490-121964/5	1114-05.D
Level 4	STD 490-121964/6	1114-06.D
Level 5	STD 490-121964/7	1114-07.D
Level 6	STD 490-121964/8	1114-08.D
Level 7	ICIS 490-121964/9	1114-09.D
Level 8	STD 490-121964/10	1114-10.D
Level 9	STD 490-121964/11	1114-11.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Ethanol	FB	Lin1	12461 86596	15862 198547	19452 417438	29759 756494	48826	50.0 2000	100 5000	200 10000	500 20000	1000
tert-Butyl alcohol (TBA)	FB	Ave	1671 83178	3911 209413	8288 453757	18120 913545	38257	5.00 200	10.0 500	20.0 1000	50.0 2000	100
Methyl tert-butyl ether	FB	Ave	6952 294991	13895 754254	27924 1606674	65117 3112179	132883	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Diisopropyl ether	FB	Ave	14373 498958	24434 1254738	46148 2611729	112261 4760416	230006	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Ethyl tert-butyl ether	FB	Ave	9801 375208	16993 974964	33746 2063974	83709 3965770	170334	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
tert-Butyl Formate	FB	Ave	7319 311202	13312 839201	26922 1757242	63557 3632475	129389	5.00 200	10.0 500	20.0 1000	50.0 2000	100
Benzene	FB	Ave	20141 708414	33762 1730727	69709 3513714	160614 6241741	330605	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
t-Amyl alcohol	FB	Ave	838 50866	2296 132427	4175 280036	10375 589299	23044	5.00 200	10.0 500	20.0 1000	50.0 2000	100
1,2-Dichloroethane	FB	Ave	4855 196415	8925 477318	19362 996032	45332 1948434	93208	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Tert-amyl methyl ether	FB	Ave	8002 350347	14737 918194	30296 1967864	72790 3899986	156030	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Toluene	CBZ	Ave	22518 732975	34798 1842579	69582 3690447	161096 6452405	337895	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
3,3-Dimethyl-1-butanol	CBZ	Lin1	190 38232	1459 113742	3086 260665	6890 582281	16004	5.00 200	10.0 500	20.0 1000	50.0 2000	100
1,2-Dibromoethane (EDB)	CBZ	Lin2	1998 101887	4050 264545	8298 560264	21031 1132283	44832	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Ethylbenzene	CBZ	Lin1	16026 766528	27392 1991059	58189 3993453	145436 6932345	329394	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39837-2 Analy Batch No.: 121964

SDG No.:

Instrument ID: HP35 GC Column: ZB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/14/2013 14:57 Calibration End Date: 11/14/2013 19:08 Calibration ID: 20571

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
m,p-Xylene	CBZ	Lin1	22004 1241997	38559 3067736	88018 5799859	244374 +++++	561657	1.00 40.0	2.00 100	4.00 200	10.0 +++++	20.0
o-Xylene	CBZ	Lin1	9446 600188	17216 1603770	38363 3233050	102733 5846009	245756	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Isopropylbenzene	CBZ	Lin1	11428 747286	19312 1990675	44625 3959996	117376 +++++	298260	0.500 20.0	1.00 50.0	2.00 100	5.00 +++++	10.0
N-Propylbenzene	DCB	Lin1	15370 890206	28149 2278161	62008 4419000	158276 +++++	372045	0.500 20.0	1.00 50.0	2.00 100	5.00 +++++	10.0
1,3,5-Trimethylbenzene	DCB	Lin1	9585 654081	16937 1697373	38964 3376235	107629 5926263	268968	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
tert-Butylbenzene	DCB	Lin1	7676 556203	14654 1490015	33271 3019327	86555 5410183	221559	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2,4-Trimethylbenzene	DCB	Lin1	8703 694949	16693 1754488	40812 3396709	118956 5981311	302765	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
sec-Butylbenzene	DCB	Lin1	12224 832152	20143 2135721	49710 4151905	140635 7042514	346960	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
p-Isopropyltoluene	DCB	Lin1	8684 714659	16670 1826086	39875 3624415	114340 6182506	292305	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
n-Butylbenzene	DCB	Lin1	9679 627861	17236 1614434	38493 3211324	100241 5599725	255154	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Naphthalene	DCB	Lin1	+++++ 281742	+++++ 897247	+++++ 2048431	44680 4054448	103996	+++++ 20.0	+++++ 50.0	+++++ 100	5.00 200	10.0
2-Methylnaphthalene	DCB	Lin2	+++++ 149538	+++++ 542080	+++++ 1282215	+++++ 2716318	51396	+++++ 20.0	+++++ 50.0	+++++ 100	+++++ 200	10.0
Dibromofluoromethane (Surr)	FB	Ave	192671 193263	194951 194268	193807 208304	191071 198525	193337	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	198534 196523	203035 195878	198848 203386	201353 210518	199824	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0	25.0
Toluene-d8 (Surr)	CBZ	Ave	775452 800061	783296 821282	755074 866178	761168 887779	769638	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0	25.0
4-Bromofluorobenzene (Surr)	DCB	Ave	228368 280691	237123 285466	245621 301909	256807 297087	270333	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-03.D
Lims ID: std .5 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 14-Nov-2013 14:57:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: STD .5
Misc. Info.: 490-0028453-003
Operator ID: MJH HP35 Instrument ID: HP35
Sublist: chrom-8260HP35SHORT*sub1

Method: \\Nvlchrom\ChromData\HP35\20131114-28453.b\8260HP35SHORT.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 15-Nov-2013 11:51:42 Calib Date: 14-Nov-2013 19:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-11.D

Column 1 : Detector MS SCAN
Process Host: XAWRK048

First Level Reviewer: himelickm Date: 14-Nov-2013 15:46:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.146	4.143	0.003	98	823038	25.0	
* 2 Chlorobenzene-d5	117	6.530	6.528	0.002	85	561337	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.678	8.681	-0.003	93	309583	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.702	3.705	-0.003	57	192671	25.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.939	3.936	0.003	91	198534	25.1	
$ 6 Toluene-d8 (Surr)	98	5.308	5.305	0.003	83	775452	25.3	
$ 7 4-Bromofluorobenzene (Surr)	95	7.589	7.586	0.003	96	228368	24.5	
18 Ethanol	45	2.162	2.138	0.024	52	12461	21.3	
31 2-Methyl-2-propanol	59	2.686	2.686	0.0	41	1671	4.22	
32 Methyl tert-butyl ether	73	2.746	2.747	-0.001	60	6952	0.4913	
36 Isopropyl ether	45	3.014	3.014	0.0	88	14373	0.5926	
40 Tert-butyl ethyl ether	59	3.239	3.239	0.0	80	9801	0.5407	
50 tert-Butyl Formate	59	3.610	3.611	-0.001	59	7319	4.97	
57 Benzene	78	3.963	3.957	0.006	81	20141	0.5921	
56 t-Amyl alcohol	59	3.975	3.970	0.005	1	838	3.60	
58 1,2-Dichloroethane	62	3.994	3.994	0.0	28	4855	0.5174	
59 Tert-amyl methyl ether	73	4.000	4.000	0.0	73	8002	0.4856	
75 Toluene	91	5.362	5.357	0.005	80	22518	0.6529	
125 3,3-Dimethyl-1-butanol	57	6.098	6.087	0.011	1	190	7.38	M
84 Ethylene Dibromide	107	6.165	6.160	0.005	41	1998	0.5204	
87 Ethylbenzene	91	6.622	6.622	0.0	60	16026	0.5145	
89 m-Xylene & p-Xylene	91	6.725	6.719	0.006	88	22004	1.13	
90 o-Xylene	91	7.090	7.084	0.006	21	9446	0.6225	
93 Isopropylbenzene	105	7.412	7.407	0.005	40	11428	0.7422	
99 N-Propylbenzene	91	7.796	7.790	0.006	54	15370	0.6743	
101 1,3,5-Trimethylbenzene	105	7.960	7.954	0.006	11	9585	0.6792	
103 tert-Butylbenzene	119	8.264	8.264	0.0	21	7676	0.7299	
104 1,2,4-Trimethylbenzene	105	8.319	8.319	0.0	1	8703	0.6086	
106 sec-Butylbenzene	105	8.471	8.471	0.0	21	12224	0.6359	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
107 4-Isopropyltoluene	119	8.611	8.605	0.006	19	8684	0.6536	
112 n-Butylbenzene	91	9.012	9.007	0.005	37	9679	0.6698	
S 131 Xylenes, Total	1				0		1.75	

QC Flag Legend

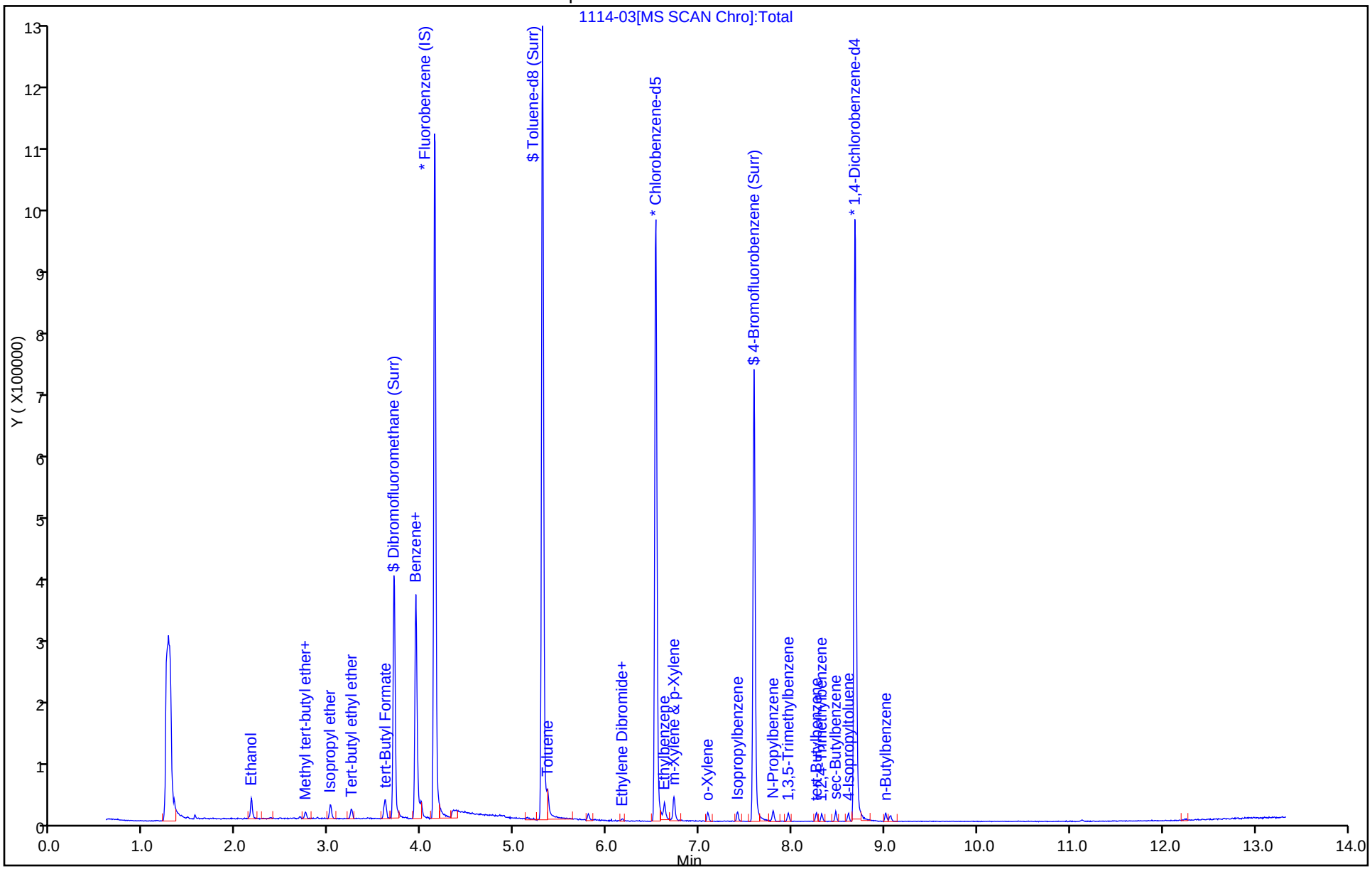
Review Flags
M - Manually Integrated

Report Date: 15-Nov-2013 11:51:42 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-03.D

Injection Date:	14-Nov-2013 14:57:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	std .5	Lab Sample ID:		Worklist Smp#:	3
Client ID:					
Purge Vol:	10.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260HP35SHORT	Limit Group:	MSV 8260B ICAL		



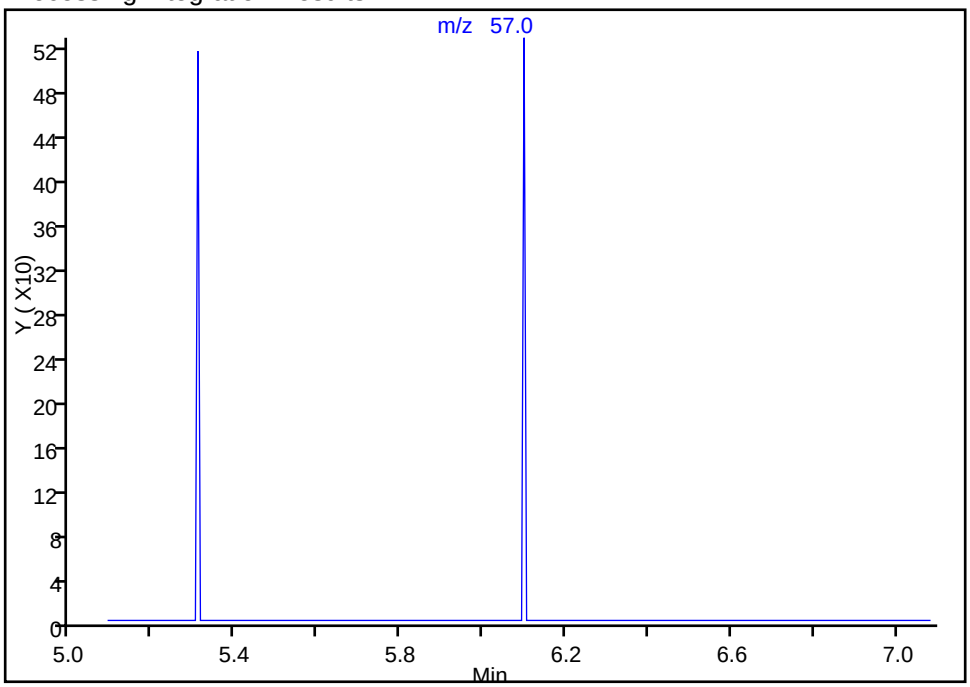
TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-03.D
Injection Date: 14-Nov-2013 14:57:30 Instrument ID: HP35
Lims ID: std .5 Lab Sample ID:
Client ID:
Operator ID: MJH HP35 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Method: 8260HP35SHORT Limit Group: MSV 8260B ICAL
Column: Detector MS SCAN

125 3,3-Dimethyl-1-butanol, CAS: 624-95-3

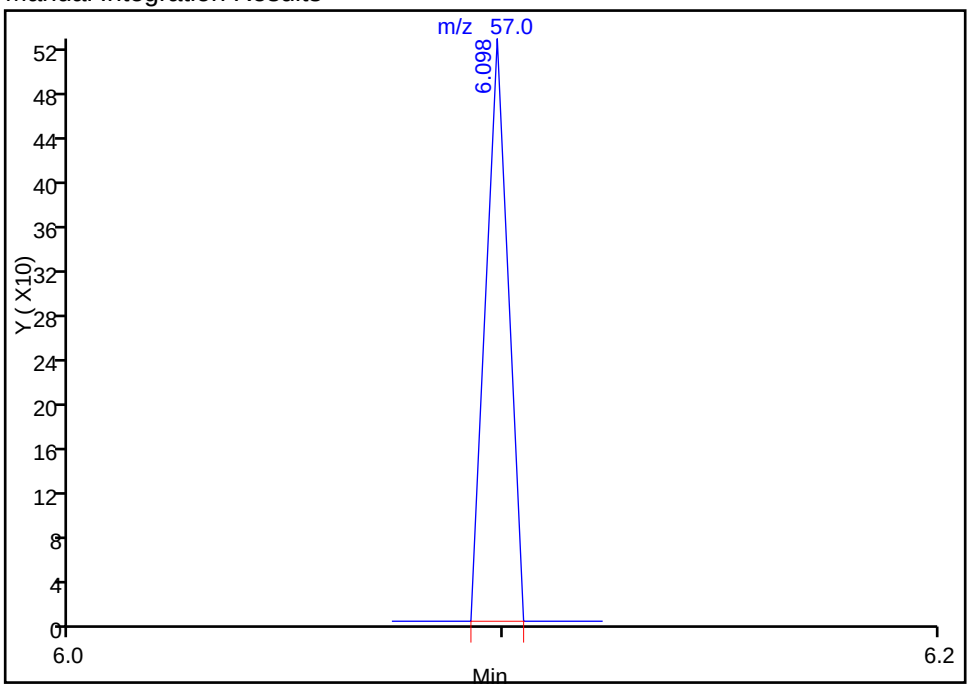
Not Detected
Expected RT: 6.09

Processing Integration Results



Manual Integration Results

RT: 6.10
Response: 190
Amount: 7.380826



Reviewer: himelickm, 14-Nov-2013 18:52:59
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-04.D
Lims ID: std 1 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 14-Nov-2013 15:28:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: STD 1
Misc. Info.: 490-0028453-004
Operator ID: MJH HP35 Instrument ID: HP35
Sublist: chrom-8260HP35SHORT*sub1

Method: \\Nvlchrom\ChromData\HP35\20131114-28453.b\8260HP35SHORT.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 15-Nov-2013 11:51:43 Calib Date: 14-Nov-2013 19:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-11.D

Column 1 : Detector MS SCAN
Process Host: XAWRK048

First Level Reviewer: himelickm Date: 14-Nov-2013 16:00:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.142	4.143	-0.001	98	814514	25.0	
* 2 Chlorobenzene-d5	117	6.527	6.528	-0.001	84	559399	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.680	8.681	-0.001	93	319116	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.704	3.705	-0.001	58	194951	25.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.941	3.936	0.005	91	203035	25.9	
$ 6 Toluene-d8 (Surr)	98	5.304	5.305	-0.001	84	783296	25.6	
$ 7 4-Bromofluorobenzene (Surr)	95	7.591	7.586	0.005	96	237123	24.7	
18 Ethanol	45	2.165	2.138	0.027	82	15862	122.1	
31 2-Methyl-2-propanol	59	2.688	2.686	0.002	54	3911	9.97	
32 Methyl tert-butyl ether	73	2.749	2.747	0.002	80	13895	0.99	
36 Isopropyl ether	45	3.016	3.014	0.002	84	24434	1.02	
40 Tert-butyl ethyl ether	59	3.248	3.239	0.009	87	16993	0.9473	
50 tert-Butyl Formate	59	3.607	3.611	-0.004	71	13312	9.13	
57 Benzene	78	3.959	3.957	0.002	82	33762	1.00	
56 t-Amyl alcohol	59	3.972	3.970	0.002	38	2296	9.96	
58 1,2-Dichloroethane	62	3.996	3.994	0.002	56	8925	0.9611	
59 Tert-amyl methyl ether	73	4.002	4.000	0.002	86	14737	0.9037	
75 Toluene	91	5.365	5.357	0.008	88	34798	1.01	
125 3,3-Dimethyl-1-butanol	57	6.083	6.087	-0.004	7	1459	12.8	
84 Ethylene Dibromide	107	6.168	6.160	0.008	39	4050	0.9610	
87 Ethylbenzene	91	6.624	6.622	0.002	81	27392	0.8680	
89 m-Xylene & p-Xylene	91	6.727	6.719	0.008	91	38559	1.74	
90 o-Xylene	91	7.092	7.084	0.008	69	17216	0.9157	
93 Isopropylbenzene	105	7.409	7.407	0.002	57	19312	0.9668	
99 N-Propylbenzene	91	7.798	7.790	0.008	78	28149	1.00	
101 1,3,5-Trimethylbenzene	105	7.956	7.954	0.002	55	16937	0.9434	
103 tert-Butylbenzene	119	8.260	8.264	-0.004	56	14654	1.01	
104 1,2,4-Trimethylbenzene	105	8.321	8.319	0.002	55	16693	0.8928	
106 sec-Butylbenzene	105	8.473	8.471	0.002	51	20143	0.8681	

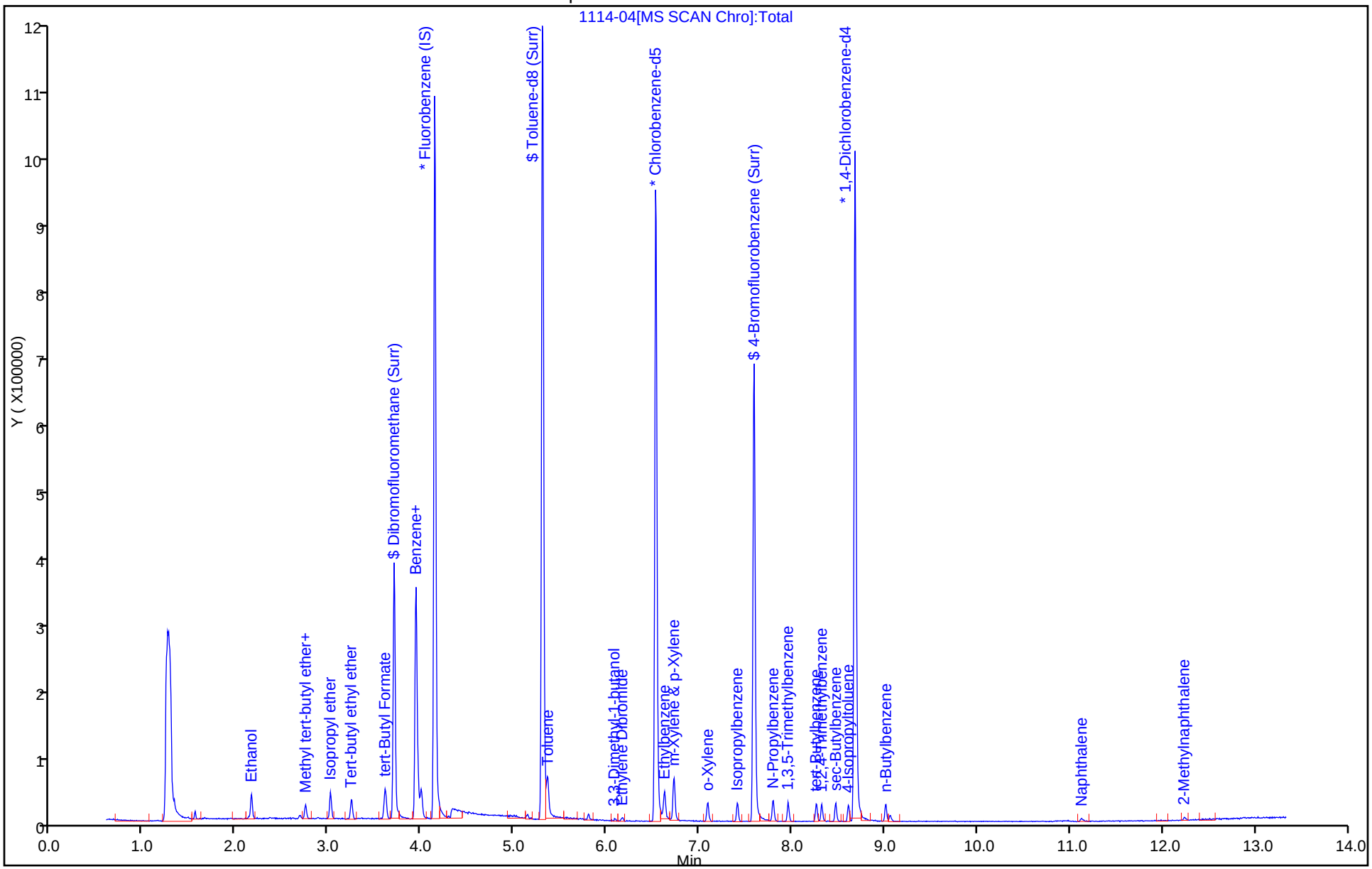
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
107 4-Isopropyltoluene	119	8.607	8.605	0.002	50	16670	0.9262	
112 n-Butylbenzene	91	9.015	9.007	0.008	58	17236	0.9565	
118 Naphthalene	128	11.126	11.111	0.015	1	8634	4.37	
120 2-Methylnaphthalene	142	12.233	12.225	0.008	1	3716	6.96	
S 131 Xylenes, Total	1				0		2.66	

Report Date: 15-Nov-2013 11:51:43 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-04.D

Injection Date:	14-Nov-2013 15:28:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	std 1	Lab Sample ID:		Worklist Smp#:	4
Client ID:					
Purge Vol:	10.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260HP35SHORT	Limit Group:	MSV 8260B ICAL		



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-05.D
Lims ID: std 2 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 14-Nov-2013 15:59:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: STD 2
Misc. Info.: 490-0028453-005
Operator ID: MJH HP35 Instrument ID: HP35
Sublist: chrom-8260HP35SHORT*sub1

Method: \\Nvlchrom\ChromData\HP35\20131114-28453.b\8260HP35SHORT.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 15-Nov-2013 11:51:45 Calib Date: 14-Nov-2013 19:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-11.D

Column 1 : Detector MS SCAN
Process Host: XAWRK048

First Level Reviewer: himelickm Date: 14-Nov-2013 16:50:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.141	4.143	-0.002	98	809978	25.0	
* 2 Chlorobenzene-d5	117	6.531	6.528	0.003	83	551228	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.679	8.681	-0.002	94	332288	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.703	3.705	-0.002	67	193807	25.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.940	3.936	0.004	91	198848	25.5	
$ 6 Toluene-d8 (Surr)	98	5.309	5.305	0.004	93	755074	25.1	
$ 7 4-Bromofluorobenzene (Surr)	95	7.590	7.586	0.004	96	245621	24.6	
18 Ethanol	45	2.164	2.138	0.026	81	19452	227.7	
31 2-Methyl-2-propanol	59	2.687	2.686	0.001	57	8288	21.2	
32 Methyl tert-butyl ether	73	2.748	2.747	0.001	84	27924	2.01	
36 Isopropyl ether	45	3.015	3.014	0.001	90	46148	1.93	
40 Tert-butyl ethyl ether	59	3.246	3.239	0.007	91	33746	1.89	
50 tert-Butyl Formate	59	3.611	3.611	0.0	83	26922	18.6	
57 Benzene	78	3.958	3.957	0.001	95	69709	2.08	
56 t-Amyl alcohol	59	3.983	3.970	0.012	46	4175	18.2	
58 1,2-Dichloroethane	62	3.995	3.994	0.001	64	19362	2.10	
59 Tert-amyl methyl ether	73	4.001	4.000	0.001	85	30296	1.87	
75 Toluene	91	5.363	5.357	0.006	86	69582	2.05	
125 3,3-Dimethyl-1-butanol	57	6.087	6.087	0.0	25	3086	20.0	
84 Ethylene Dibromide	107	6.166	6.160	0.006	54	8298	1.90	
87 Ethylbenzene	91	6.623	6.622	0.001	92	58189	1.85	
89 m-Xylene & p-Xylene	91	6.726	6.719	0.007	99	88018	3.63	
90 o-Xylene	91	7.091	7.084	0.007	81	38363	1.73	
93 Isopropylbenzene	105	7.408	7.407	0.001	74	44625	1.70	
99 N-Propylbenzene	91	7.797	7.790	0.007	90	62008	1.84	
101 1,3,5-Trimethylbenzene	105	7.955	7.954	0.001	79	38964	1.71	
103 tert-Butylbenzene	119	8.265	8.264	0.001	76	33271	1.73	
104 1,2,4-Trimethylbenzene	105	8.320	8.319	0.001	79	40812	1.72	
106 sec-Butylbenzene	105	8.472	8.471	0.001	67	49710	1.72	

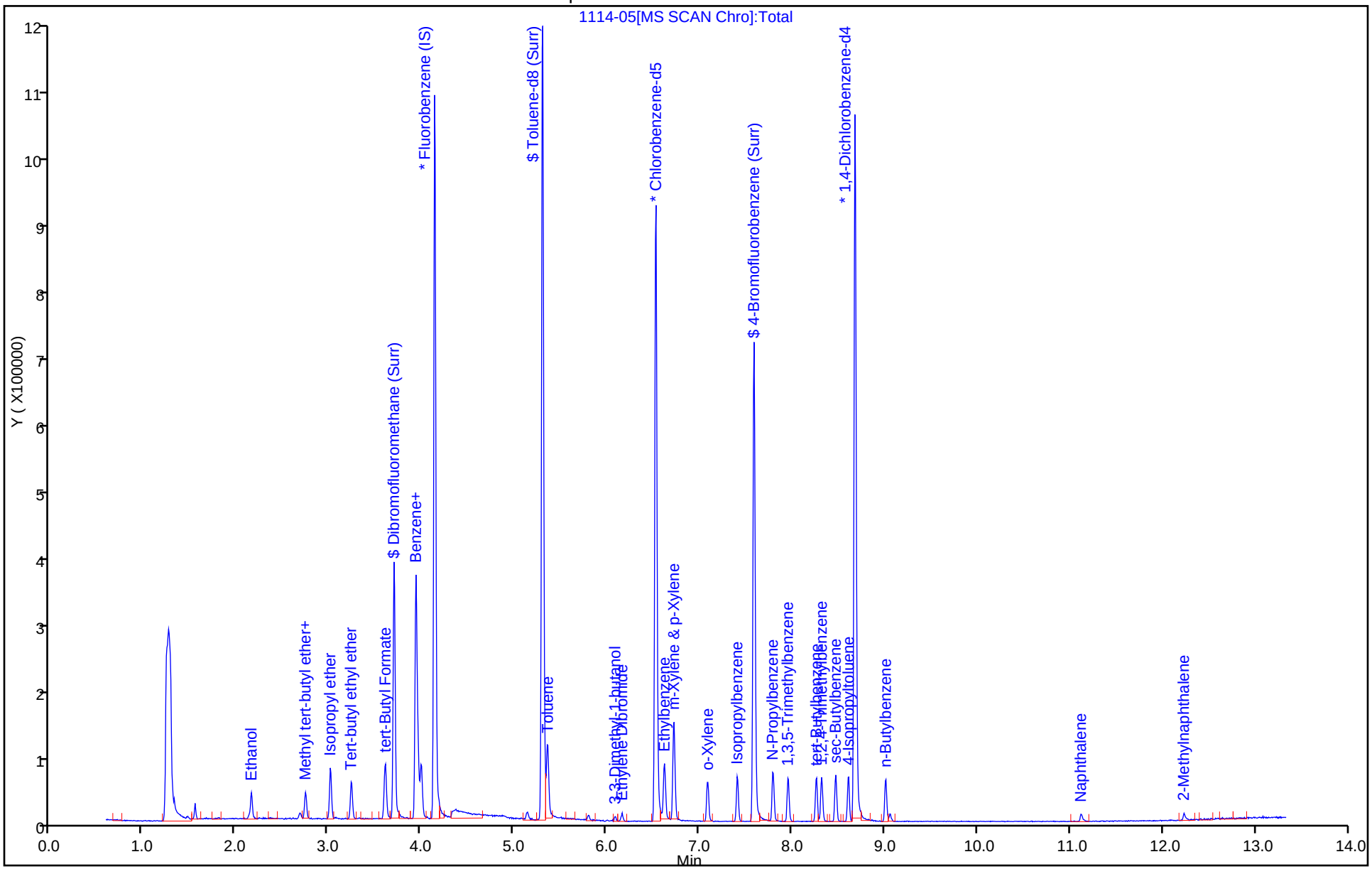
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
107 4-Isopropyltoluene	119	8.612	8.605	0.007	81	39875	1.69	
112 n-Butylbenzene	91	9.007	9.007	0.0	85	38493	1.74	
118 Naphthalene	128	11.124	11.111	0.013	2	17171	4.82	
120 2-Methylnaphthalene	142	12.232	12.225	0.007	6	8554	7.36	
S 131 Xylenes, Total	1				0		5.36	

Report Date: 15-Nov-2013 11:51:45 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-05.D

Injection Date:	14-Nov-2013 15:59:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	std 2	Lab Sample ID:		Worklist Smp#:	5
Client ID:					
Purge Vol:	10.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260HP35SHORT	Limit Group:	MSV 8260B ICAL		



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-06.D
Lims ID: std 5 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 14-Nov-2013 16:30:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: STD 5
Misc. Info.: 490-0028453-006
Operator ID: MJH HP35 Instrument ID: HP35
Sublist: chrom-8260HP35SHORT*sub1

Method: \\Nvlchrom\ChromData\HP35\20131114-28453.b\8260HP35SHORT.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 15-Nov-2013 11:51:46 Calib Date: 14-Nov-2013 19:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-11.D

Column 1 : Detector MS SCAN
Process Host: XAWRK048

First Level Reviewer: himelickm Date: 14-Nov-2013 18:49:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.141	4.143	-0.002	98	812956	25.0	
* 2 Chlorobenzene-d5	117	6.532	6.528	0.004	83	557963	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.680	8.681	-0.001	93	354620	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.703	3.705	-0.002	57	191071	25.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.941	3.936	0.005	91	201353	25.8	
$ 6 Toluene-d8 (Surr)	98	5.309	5.305	0.004	93	761168	25.0	
$ 7 4-Bromofluorobenzene (Surr)	95	7.591	7.586	0.005	96	256807	24.1	
18 Ethanol	45	2.164	2.138	0.026	82	29759	520.4	
31 2-Methyl-2-propanol	59	2.687	2.686	0.001	92	18120	46.3	
32 Methyl tert-butyl ether	73	2.748	2.747	0.001	90	65117	4.66	
36 Isopropyl ether	45	3.016	3.014	0.002	92	112261	4.69	
40 Tert-butyl ethyl ether	59	3.241	3.239	0.002	94	83709	4.68	
50 tert-Butyl Formate	59	3.612	3.611	0.001	85	63557	43.7	
57 Benzene	78	3.959	3.957	0.002	98	160614	4.78	
56 t-Amyl alcohol	59	3.977	3.970	0.007	48	10375	45.1	
58 1,2-Dichloroethane	62	3.989	3.994	-0.005	77	45332	4.89	
59 Tert-amyl methyl ether	73	3.995	4.000	-0.005	91	72790	4.47	
75 Toluene	91	5.358	5.357	0.001	94	161096	4.70	
125 3,3-Dimethyl-1-butanol	57	6.088	6.087	0.001	50	6890	36.2	
84 Ethylene Dibromide	107	6.161	6.160	0.001	82	21031	4.61	
87 Ethylbenzene	91	6.623	6.622	0.001	96	145436	4.53	
89 m-Xylene & p-Xylene	91	6.727	6.719	0.008	99	244374	9.41	
90 o-Xylene	91	7.086	7.084	0.002	94	102733	4.14	
93 Isopropylbenzene	105	7.408	7.407	0.001	94	117376	3.75	
99 N-Propylbenzene	91	7.791	7.790	0.001	95	158276	4.04	
101 1,3,5-Trimethylbenzene	105	7.956	7.954	0.002	93	107629	3.94	
103 tert-Butylbenzene	119	8.260	8.264	-0.004	89	86555	3.65	
104 1,2,4-Trimethylbenzene	105	8.321	8.319	0.002	94	118956	4.22	
106 sec-Butylbenzene	105	8.473	8.471	0.002	90	140635	4.14	

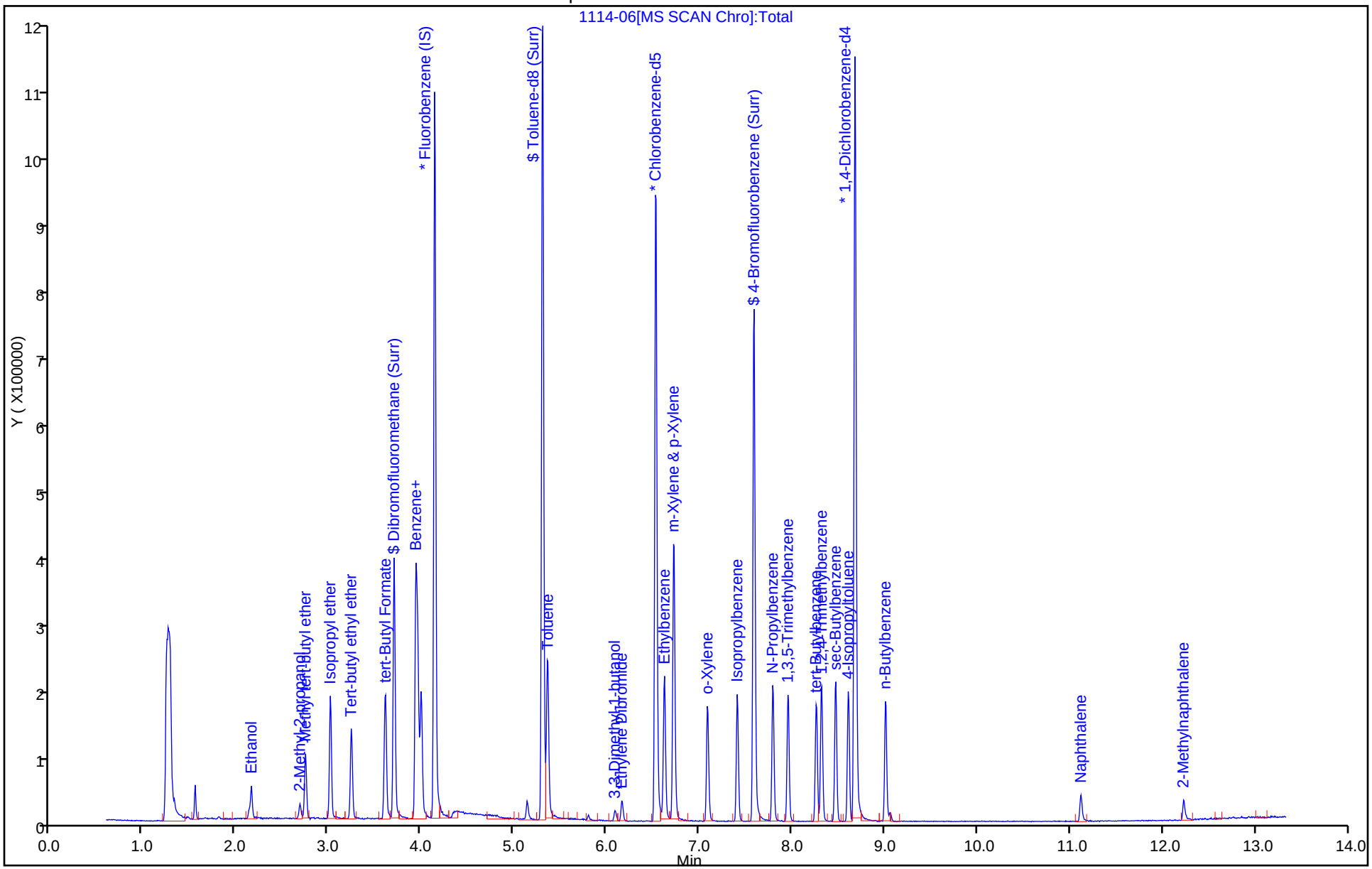
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
107 4-Isopropyltoluene	119	8.607	8.605	0.002	93	114340	3.97	
112 n-Butylbenzene	91	9.008	9.007	0.001	91	100241	3.84	
118 Naphthalene	128	11.119	11.111	0.008	73	44680	6.18	
120 2-Methylnaphthalene	142	12.226	12.225	0.001	28	21808	8.37	
S 131 Xylenes, Total	1				0		13.6	

Report Date: 15-Nov-2013 11:51:47 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-06.D

Injection Date:	14-Nov-2013 16:30:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	std 5	Lab Sample ID:		Worklist Smp#:	6
Client ID:					
Purge Vol:	10.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260HP35SHORT	Limit Group:	MSV 8260B ICAL		



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-07.D
Lims ID: std 10 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 14-Nov-2013 17:00:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: STD 10
Misc. Info.: 490-0028453-007
Operator ID: MJH HP35 Instrument ID: HP35
Sublist: chrom-8260HP35SHORT*sub1

Method: \\Nvlchrom\ChromData\HP35\20131114-28453.b\8260HP35SHORT.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 15-Nov-2013 11:51:47 Calib Date: 14-Nov-2013 19:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-11.D

Column 1 : Detector MS SCAN
Process Host: XAWRK048

First Level Reviewer: himelickm Date: 14-Nov-2013 18:53:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.142	4.143	-0.001	98	808547	25.0	
* 2 Chlorobenzene-d5	117	6.527	6.528	-0.001	84	566187	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.680	8.681	-0.001	93	370219	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.704	3.705	-0.001	55	193337	25.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.941	3.936	0.005	91	199824	25.7	
$ 6 Toluene-d8 (Surr)	98	5.304	5.305	-0.001	84	769638	24.9	
$ 7 4-Bromofluorobenzene (Surr)	95	7.591	7.586	0.005	96	270333	24.3	
18 Ethanol	45	2.159	2.138	0.021	89	48826	1073.4	
31 2-Methyl-2-propanol	59	2.688	2.686	0.002	93	38257	98.3	
32 Methyl tert-butyl ether	73	2.749	2.747	0.002	91	132883	9.56	
36 Isopropyl ether	45	3.017	3.014	0.003	92	230006	9.65	
40 Tert-butyl ethyl ether	59	3.242	3.239	0.003	93	170334	9.57	
50 tert-Butyl Formate	59	3.607	3.611	-0.004	87	129389	89.4	
57 Benzene	78	3.960	3.957	0.003	98	330605	9.89	
56 t-Amyl alcohol	59	3.972	3.970	0.002	47	23044	100.7	
58 1,2-Dichloroethane	62	3.990	3.994	-0.004	72	93208	10.1	
59 Tert-amyl methyl ether	73	4.002	4.000	0.002	93	156030	9.64	
75 Toluene	91	5.359	5.357	0.002	91	337895	9.71	
125 3,3-Dimethyl-1-butanol	57	6.089	6.087	0.002	59	16004	74.3	
84 Ethylene Dibromide	107	6.162	6.160	0.002	92	44832	9.57	
87 Ethylbenzene	91	6.624	6.622	0.002	98	329394	10.1	
89 m-Xylene & p-Xylene	91	6.722	6.719	0.003	99	561657	20.9	
90 o-Xylene	91	7.087	7.084	0.002	96	245756	9.39	
93 Isopropylbenzene	105	7.409	7.407	0.002	95	298260	8.77	
99 N-Propylbenzene	91	7.792	7.790	0.002	97	372045	8.78	
101 1,3,5-Trimethylbenzene	105	7.956	7.954	0.002	94	268968	8.99	
103 tert-Butylbenzene	119	8.261	8.264	-0.003	90	221559	8.36	
104 1,2,4-Trimethylbenzene	105	8.315	8.319	-0.004	96	302765	9.88	
106 sec-Butylbenzene	105	8.474	8.471	0.003	93	346960	9.45	

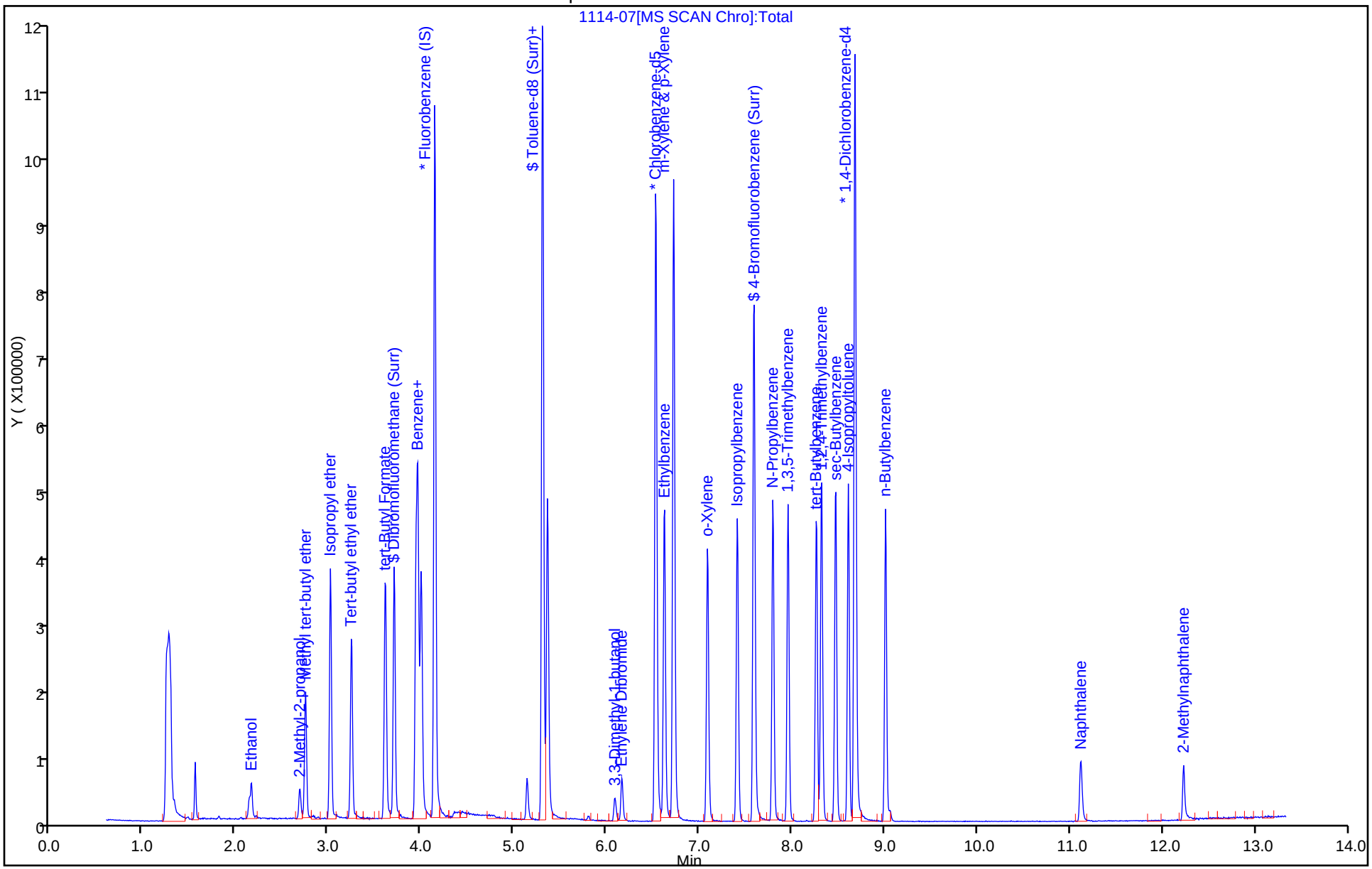
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
107 4-Isopropyltoluene	119	8.607	8.605	0.002	94	292305	9.23	
112 n-Butylbenzene	91	9.009	9.007	0.002	94	255154	8.96	
118 Naphthalene	128	11.120	11.111	0.009	88	103996	9.00	
120 2-Methylnaphthalene	142	12.227	12.225	0.002	72	51396	10.6	
S 131 Xylenes, Total	1				0		30.3	

Report Date: 15-Nov-2013 11:51:48 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-07.D

Injection Date:	14-Nov-2013 17:00:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	std 10	Lab Sample ID:		Worklist Smp#:	7
Client ID:					
Purge Vol:	10.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260HP35SHORT	Limit Group:	MSV 8260B ICAL		



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-08.D
Lims ID: std 20 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 14-Nov-2013 17:31:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: STD 20
Misc. Info.: 490-0028453-008
Operator ID: MJH HP35 Instrument ID: HP35
Sublist: chrom-8260HP35SHORT*sub1

Method: \\Nvlchrom\ChromData\HP35\20131114-28453.b\8260HP35SHORT.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 15-Nov-2013 11:51:49 Calib Date: 14-Nov-2013 19:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-11.D

Column 1 : Detector MS SCAN
Process Host: XAWRK048

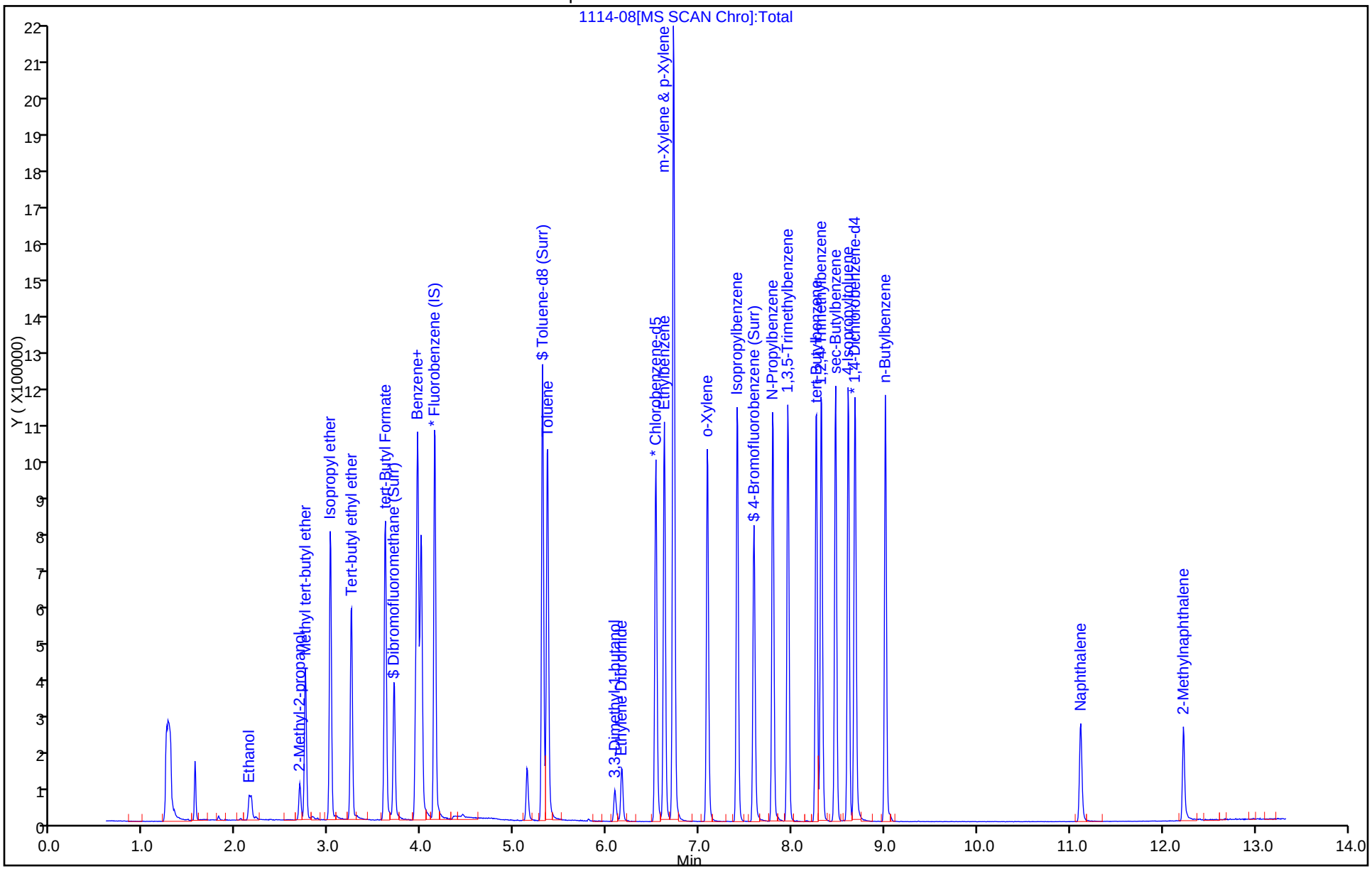
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.146	4.143	0.003	98	821043	25.0	
* 2 Chlorobenzene-d5	117	6.531	6.528	0.003	85	597170	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.684	8.681	0.003	93	378672	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.702	3.705	-0.003	67	193263	25.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.939	3.936	0.003	90	196523	24.9	
$ 6 Toluene-d8 (Surr)	98	5.308	5.305	0.003	83	800061	24.5	
$ 7 4-Bromofluorobenzene (Surr)	95	7.589	7.586	0.003	96	280691	24.6	
18 Ethanol	45	2.144	2.138	0.006	97	86596	2121.8	
31 2-Methyl-2-propanol	59	2.686	2.686	0.0	95	83178	210.4	
32 Methyl tert-butyl ether	73	2.747	2.747	0.0	91	294991	20.9	
36 Isopropyl ether	45	3.014	3.014	0.0	92	498958	20.6	
40 Tert-butyl ethyl ether	59	3.245	3.239	0.006	96	375208	20.7	
50 tert-Butyl Formate	59	3.610	3.611	-0.001	89	311202	211.8	
57 Benzene	78	3.957	3.957	0.0	97	708414	20.9	
56 t-Amyl alcohol	59	3.969	3.970	-0.001	48	50866	218.9	
58 1,2-Dichloroethane	62	3.994	3.994	0.0	73	196415	21.0	
59 Tert-amyl methyl ether	73	4.000	4.000	0.0	93	350347	21.3	
75 Toluene	91	5.363	5.357	0.006	92	732975	20.0	
125 3,3-Dimethyl-1-butanol	57	6.086	6.087	-0.001	82	38232	160.0	
84 Ethylene Dibromide	107	6.159	6.160	-0.001	98	101887	20.5	
87 Ethylbenzene	91	6.622	6.622	0.0	98	766528	22.2	
89 m-Xylene & p-Xylene	91	6.719	6.719	0.0	99	1241997	43.5	
90 o-Xylene	91	7.084	7.084	0.0	96	600188	21.4	
93 Isopropylbenzene	105	7.407	7.407	0.0	96	747286	20.3	
99 N-Propylbenzene	91	7.790	7.790	0.0	97	890206	20.2	
101 1,3,5-Trimethylbenzene	105	7.954	7.954	0.0	95	654081	20.9	
103 tert-Butylbenzene	119	8.264	8.264	0.0	89	556203	19.9	
104 1,2,4-Trimethylbenzene	105	8.319	8.319	0.0	95	694949	21.8	
106 sec-Butylbenzene	105	8.471	8.471	0.0	94	832152	21.8	
107 4-Isopropyltoluene	119	8.605	8.605	0.0	94	714659	21.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
112 n-Butylbenzene	91	9.007	9.007	-0.001	94	627861	21.2	
118 Naphthalene	128	11.117	11.111	0.006	96	281742	17.5	
120 2-Methylnaphthalene	142	12.225	12.225	0.0	87	149538	17.8	
S 131 Xylenes, Total	1				0		64.9	

Report Date: 15-Nov-2013 11:51:49 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-08.D				
Injection Date:	14-Nov-2013 17:31:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	std 20	Lab Sample ID:		Worklist Smp#:	8
Client ID:					
Purge Vol:	10.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260HP35SHORT	Limit Group:	MSV 8260B ICAL		



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-09.D
Lims ID: icis Lab Sample ID:
Client ID:
Sample Type: ICIS Calib Level: 7
Inject. Date: 14-Nov-2013 18:02:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: ICIS
Misc. Info.: 490-0028453-009
Operator ID: MJH HP35 Instrument ID: HP35
Sublist: chrom-8260HP35SHORT*sub1

Method: \\Nvlchrom\ChromData\HP35\20131114-28453.b\8260HP35SHORT.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 18-Nov-2013 15:25:16 Calib Date: 14-Nov-2013 19:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-11.D

Column 1 : Detector MS SCAN
Process Host: XAWRK004

First Level Reviewer: himelickm Date: 14-Nov-2013 18:48:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.146	4.146	0.0	98	837793	25.0	
* 2 Chlorobenzene-d5	117	6.531	6.531	0.0	83	596966	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.678	8.678	0.0	93	376173	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.702	3.702	0.0	55	194268	24.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.939	3.939	0.0	91	195878	24.3	
$ 6 Toluene-d8 (Surr)	98	5.308	5.308	0.0	84	821282	25.2	
$ 7 4-Bromofluorobenzene (Surr)	95	7.589	7.589	0.0	96	285466	25.2	
18 Ethanol	45	2.138	2.138	0.0	100	198547	5180.1	
31 2-Methyl-2-propanol	59	2.686	2.686	0.0	95	209413	519.1	
32 Methyl tert-butyl ether	73	2.747	2.747	0.0	91	754254	52.4	
36 Isopropyl ether	45	3.014	3.014	0.0	93	1254738	50.8	
40 Tert-butyl ethyl ether	59	3.239	3.239	0.0	94	974964	52.8	
50 tert-Butyl Formate	59	3.611	3.611	0.0	90	839201	559.8	
57 Benzene	78	3.957	3.957	0.0	98	1730727	50.0	
56 t-Amyl alcohol	59	3.970	3.970	0.0	64	132427	558.5	
58 1,2-Dichloroethane	62	3.994	3.994	0.0	78	477318	50.0	
59 Tert-amyl methyl ether	73	4.000	4.000	0.0	95	918194	54.7	
75 Toluene	91	5.357	5.357	0.0	93	1842579	50.2	
125 3,3-Dimethyl-1-butanol	57	6.087	6.087	0.0	88	113742	463.2	
84 Ethylene Dibromide	107	6.160	6.160	0.0	98	264545	53.1	
87 Ethylbenzene	91	6.622	6.622	0.0	98	1991059	57.8	
89 m-Xylene & p-Xylene	91	6.719	6.719	0.0	98	3067736	107.1	
90 o-Xylene	91	7.084	7.084	0.0	96	1603770	56.7	
93 Isopropylbenzene	105	7.407	7.407	0.0	96	1990675	53.3	
99 N-Propylbenzene	91	7.790	7.790	0.0	97	2278161	51.6	
101 1,3,5-Trimethylbenzene	105	7.954	7.954	0.0	94	1697373	54.2	
103 tert-Butylbenzene	119	8.264	8.264	0.0	85	1490015	53.1	
104 1,2,4-Trimethylbenzene	105	8.319	8.319	0.0	97	1754488	55.0	
106 sec-Butylbenzene	105	8.471	8.471	0.0	94	2135721	56.0	

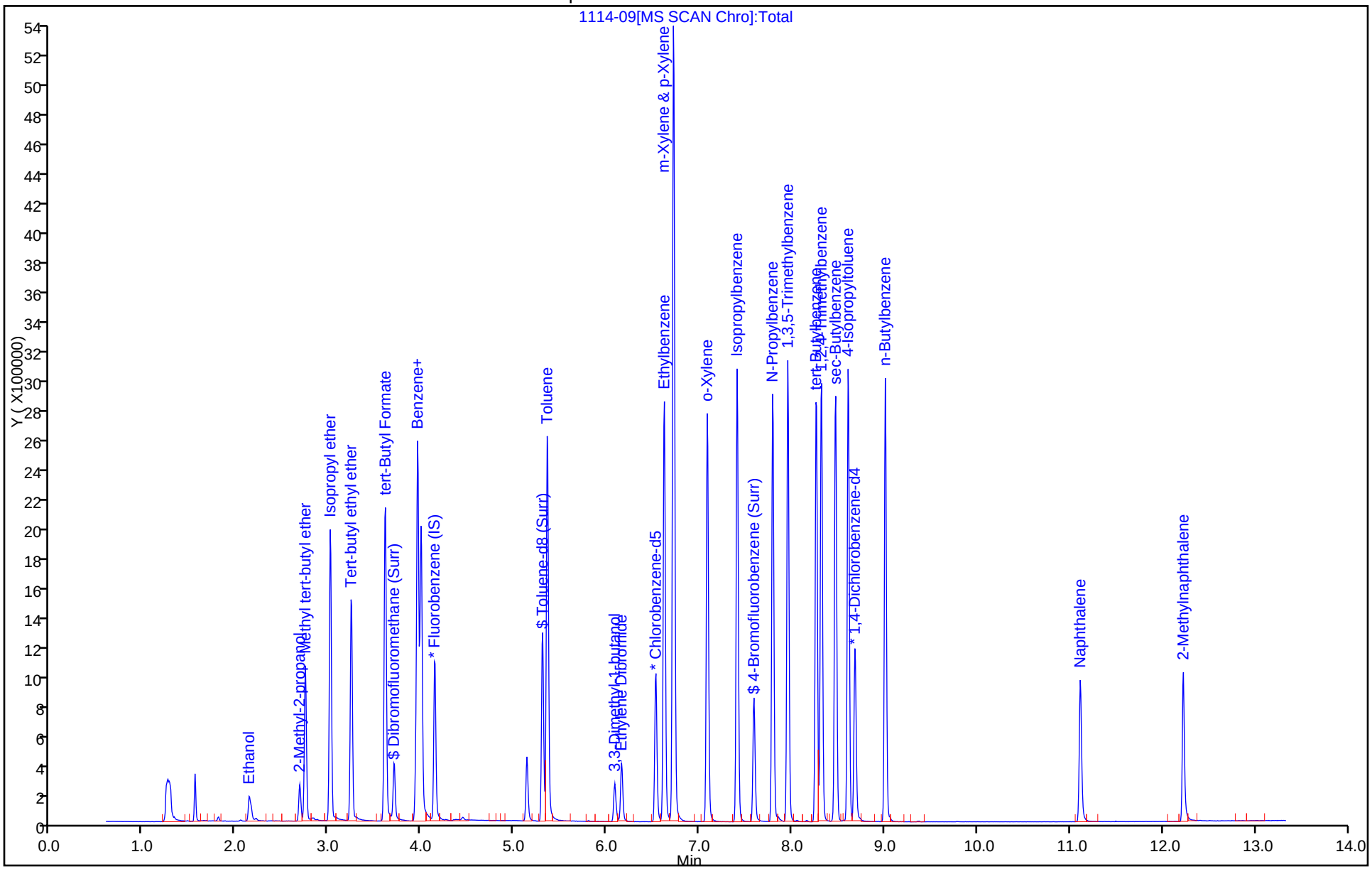
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
107 4-Isopropyltoluene	119	8.605	8.605	0.0	94	1826086	55.0	
112 n-Butylbenzene	91	9.007	9.007	0.0	94	1614434	54.4	
118 Naphthalene	128	11.111	11.111	0.0	97	897247	47.4	
120 2-Methylnaphthalene	142	12.225	12.225	0.0	92	542080	47.6	
S 131 Xylenes, Total	1				0		163.8	

Report Date: 18-Nov-2013 15:25:16 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-09.D

Injection Date:	14-Nov-2013 18:02:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	icis	Lab Sample ID:		Worklist Smp#:	9
Client ID:					
Purge Vol:	10.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260HP35SHORT	Limit Group:	MSV 8260B ICAL		



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-10.D
Lims ID: std 100 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 14-Nov-2013 18:38:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: STD 100
Misc. Info.: 490-0028453-010
Operator ID: MJH HP35 Instrument ID: HP35
Sublist: chrom-8260HP35SHORT*sub1

Method: \\Nvlchrom\ChromData\HP35\20131114-28453.b\8260HP35SHORT.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 15-Nov-2013 11:51:52 Calib Date: 14-Nov-2013 19:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-11.D

Column 1 : Detector MS SCAN
Process Host: XAWRK048

First Level Reviewer: himelickm Date: 14-Nov-2013 19:21:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.143	4.146	-0.003	98	895592	25.0	
* 2 Chlorobenzene-d5	117	6.527	6.531	-0.004	84	636877	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.681	8.678	0.003	93	374614	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.705	3.702	0.003	57	208304	24.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.942	3.939	0.003	86	203386	23.6	
$ 6 Toluene-d8 (Surr)	98	5.305	5.308	-0.003	83	866178	24.9	
$ 7 4-Bromofluorobenzene (Surr)	95	7.586	7.589	-0.003	95	301909	26.8	
18 Ethanol	45	2.141	2.138	0.003	100	417438	10508	
31 2-Methyl-2-propanol	59	2.683	2.686	-0.003	96	453757	1052.2	
32 Methyl tert-butyl ether	73	2.743	2.747	-0.004	91	1606674	104.4	
36 Isopropyl ether	45	3.017	3.014	0.003	92	2611729	99.0	
40 Tert-butyl ethyl ether	59	3.242	3.239	0.003	93	2063974	104.6	
50 tert-Butyl Formate	59	3.607	3.611	-0.004	91	1757242	1096.6	
57 Benzene	78	3.960	3.957	0.003	99	3513714	94.9	
56 t-Amyl alcohol	59	3.966	3.970	-0.004	85	280036	1104.8	
58 1,2-Dichloroethane	62	3.991	3.994	-0.004	79	996032	97.5	
59 Tert-amyl methyl ether	73	3.997	4.000	-0.003	95	1967864	109.8	
75 Toluene	91	5.359	5.357	0.002	91	3690447	94.3	
125 3,3-Dimethyl-1-butanol	57	6.083	6.087	-0.004	90	260665	987.5	
84 Ethylene Dibromide	107	6.162	6.160	0.002	99	560264	105.4	
87 Ethylbenzene	91	6.619	6.622	-0.003	98	3993453	108.6	
89 m-Xylene & p-Xylene	91	6.722	6.719	0.003	94	5799859	189.5	
90 o-Xylene	91	7.087	7.084	0.003	95	3233050	107.0	
93 Isopropylbenzene	105	7.409	7.407	0.002	96	3959996	99.0	
99 N-Propylbenzene	91	7.793	7.790	0.003	96	4419000	100.3	
101 1,3,5-Trimethylbenzene	105	7.957	7.954	0.003	95	3376235	108.0	
103 tert-Butylbenzene	119	8.261	8.264	-0.003	91	3019327	107.6	
104 1,2,4-Trimethylbenzene	105	8.316	8.319	-0.003	96	3396709	106.8	
106 sec-Butylbenzene	105	8.468	8.471	-0.003	95	4151905	109.1	

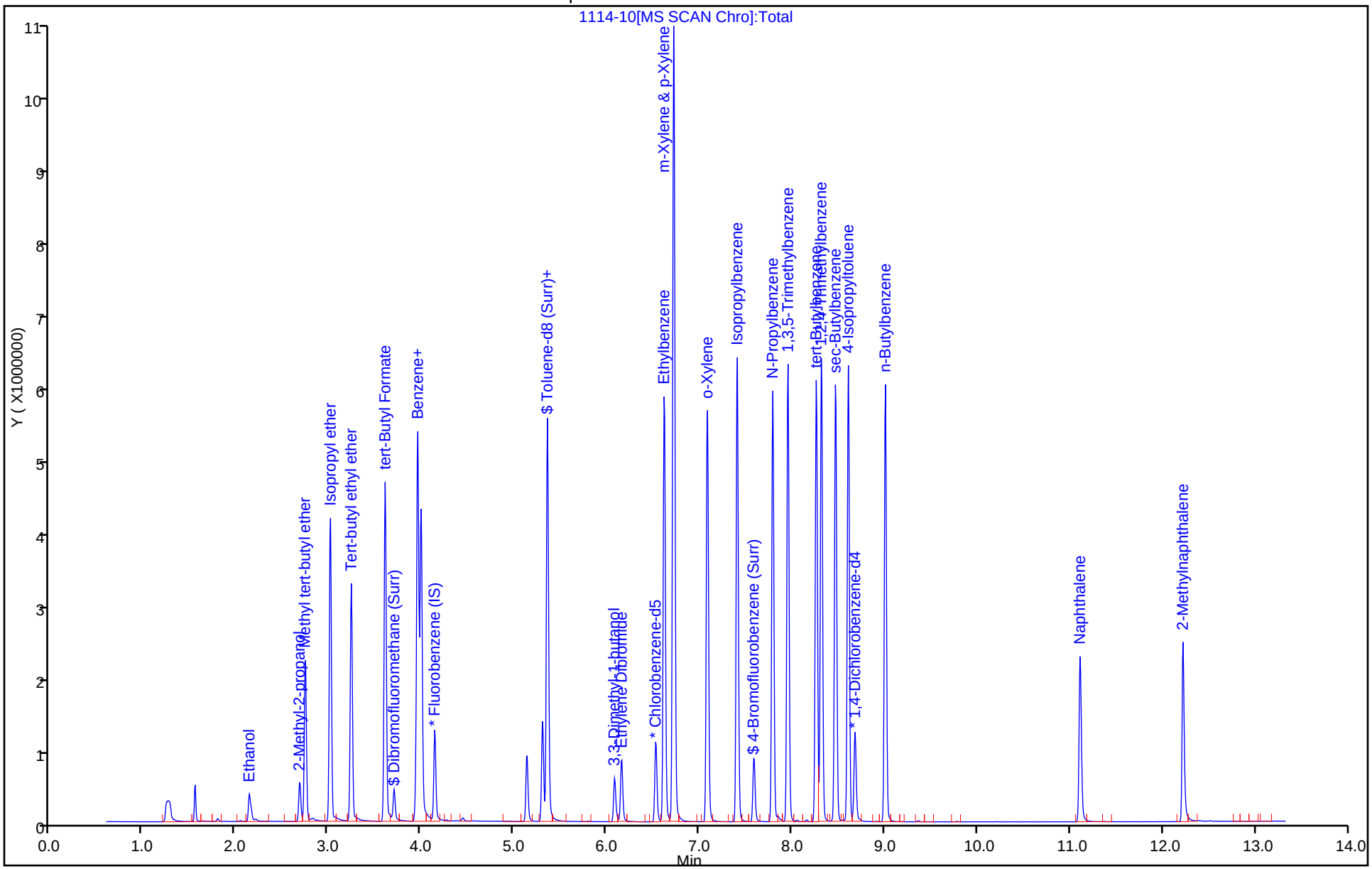
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
107 4-Isopropyltoluene	119	8.608	8.605	0.003	92	3624415	109.3	
112 n-Butylbenzene	91	9.009	9.007	0.002	93	3211324	108.3	
118 Naphthalene	128	11.108	11.111	-0.003	97	2048431	103.7	
120 2-Methylnaphthalene	142	12.221	12.225	-0.004	91	1282215	103.8	
S 131 Xylenes, Total	1				0		296.5	

Report Date: 15-Nov-2013 11:51:52 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-10.D

Injection Date:	14-Nov-2013 18:38:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	std 100	Lab Sample ID:		Worklist Smp#:	10
Client ID:					
Purge Vol:	10.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260HP35SHORT	Limit Group:	MSV 8260B ICAL		



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-11.D
Lims ID: std 200 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 14-Nov-2013 19:08:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: STD 200
Misc. Info.: 490-0028453-011
Operator ID: MJH HP35 Instrument ID: HP35
Sublist: chrom-8260HP35SHORT*sub1

Method: \\Nvlchrom\ChromData\HP35\20131114-28453.b\8260HP35SHORT.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 15-Nov-2013 11:51:53 Calib Date: 14-Nov-2013 19:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-11.D

Column 1 : Detector MS SCAN
Process Host: XAWRK048

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.140	4.146	-0.006	98	906484	25.0	
* 2 Chlorobenzene-d5	117	6.531	6.531	0.0	84	659249	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.684	8.678	0.006	92	375079	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.702	3.702	0.0	58	198525	23.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.939	3.939	0.0	69	210518	24.2	
$ 6 Toluene-d8 (Surr)	98	5.308	5.308	0.0	83	887779	24.6	
$ 7 4-Bromofluorobenzene (Surr)	95	7.589	7.589	0.0	96	297087	26.3	
18 Ethanol	45	2.144	2.138	0.006	100	756494	19075	
31 2-Methyl-2-propanol	59	2.686	2.686	0.0	97	913545	2092.9	
32 Methyl tert-butyl ether	73	2.747	2.747	0.0	92	3112179	199.7	
36 Isopropyl ether	45	3.014	3.014	0.0	89	4760416	178.2	
40 Tert-butyl ethyl ether	59	3.239	3.239	0.0	91	3965770	198.6	
50 tert-Butyl Formate	59	3.610	3.611	-0.001	92	3632475	2239.7	
57 Benzene	78	3.957	3.957	0.0	98	6241741	166.6	
56 t-Amyl alcohol	59	3.969	3.970	-0.001	47	589299	2297.0	
58 1,2-Dichloroethane	62	3.988	3.994	-0.006	83	1948434	188.5	
59 Tert-amyl methyl ether	73	4.000	4.000	0.0	94	3899986	214.9	
75 Toluene	91	5.363	5.357	0.006	88	6452405	159.3	
125 3,3-Dimethyl-1-butanol	57	6.086	6.087	-0.001	91	582281	2123.5	
84 Ethylene Dibromide	107	6.159	6.160	-0.001	99	1132283	205.7	
87 Ethylbenzene	91	6.622	6.622	0.0	95	6932345	182.1	
89 m-Xylene & p-Xylene	91	6.725	6.719	0.006	86	9112857	287.5	
90 o-Xylene	91	7.084	7.084	0.0	94	5846009	186.6	
93 Isopropylbenzene	105	7.413	7.407	0.006	97	6862907	165.5	
99 N-Propylbenzene	91	7.796	7.790	0.006	93	7450391	168.8	
101 1,3,5-Trimethylbenzene	105	7.960	7.954	0.006	96	5926263	189.1	
103 tert-Butylbenzene	119	8.264	8.264	0.0	90	5410183	192.3	
104 1,2,4-Trimethylbenzene	105	8.319	8.319	0.0	96	5981311	187.5	
106 sec-Butylbenzene	105	8.471	8.471	0.0	95	7042514	184.7	
107 4-Isopropyltoluene	119	8.611	8.605	0.006	90	6182506	186.1	

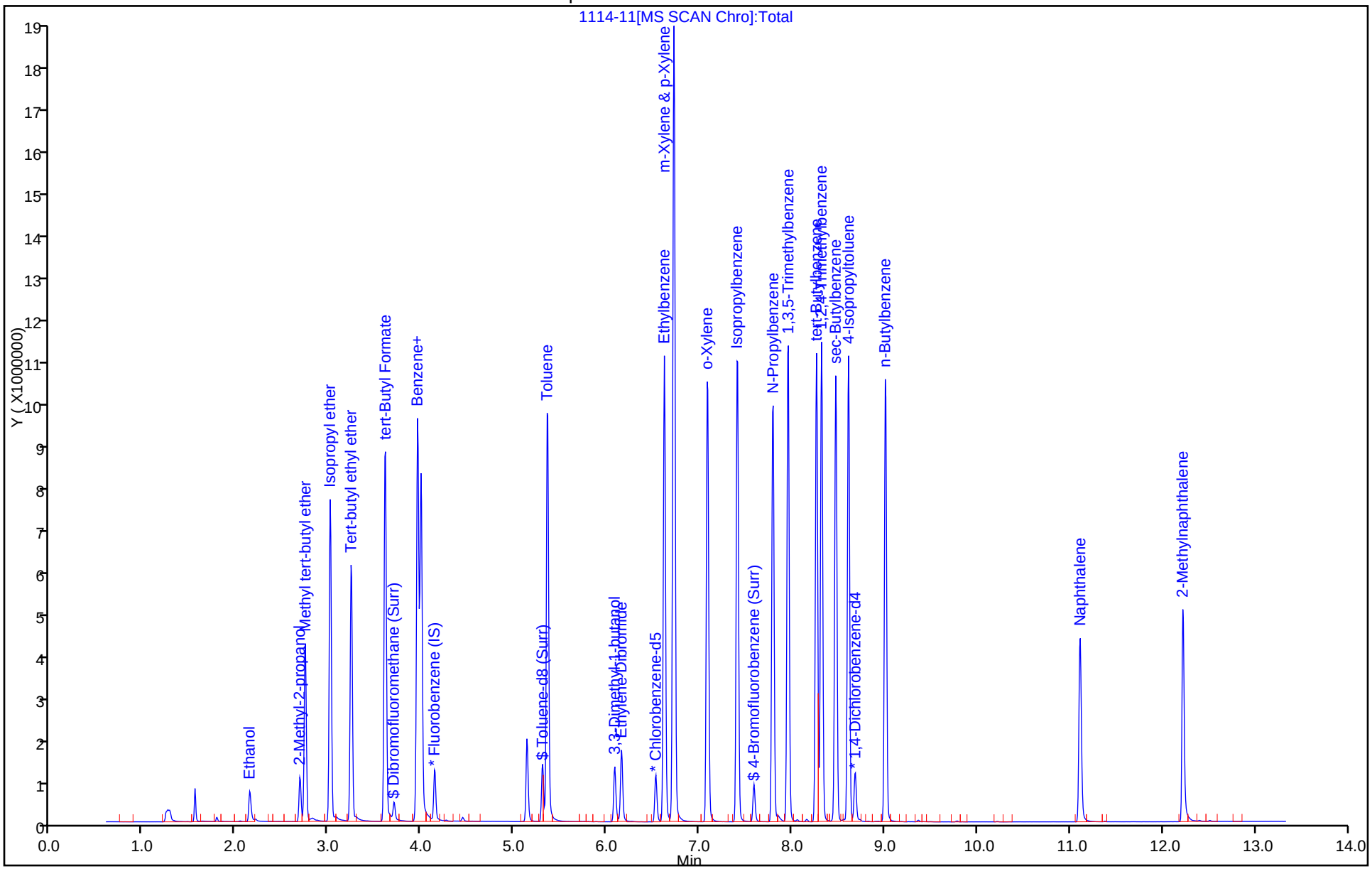
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
112 n-Butylbenzene	91	9.007	9.007	-0.001	90	5599725	188.5	
118 Naphthalene	128	11.111	11.111	0.0	98	4054448	201.2	
120 2-Methylnaphthalene	142	12.219	12.225	-0.006	91	2716318	212.3	
S 131 Xylenes, Total	1				0		474.2	

Report Date: 15-Nov-2013 11:51:54 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-11.D

Injection Date:	14-Nov-2013 19:08:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	std 200	Lab Sample ID:		Worklist Smp#:	11
Client ID:					
Purge Vol:	10.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260HP35SHORT	Limit Group:	MSV 8260B ICAL		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Lab Sample ID: ICV 490-110993/25 Calibration Date: 10/02/2013 02:18

Instrument ID: HP35 Calib Start Date: 10/01/2013 19:38

GC Column: ZB-624 ID: 0.18(mm) Calib End Date: 10/02/2013 00:15

Lab File ID: 1001-25.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2321	0.2883		62.1	50.0	24.2	30.0
Chloromethane	Lin1		0.3336	0.1000	58.1	50.0	16.1	30.0
Vinyl chloride	Ave	0.2687	0.3187		59.3	50.0	18.6	30.0
Butadiene	Ave	0.2539	0.2983		58.8	50.0	17.5	30.0
Bromomethane	Lin1		0.1820		69.2	50.0	38.5*	30.0
Chloroethane	Lin2		0.1975		60.8	50.0	21.6	30.0
Dichlorofluoromethane	Lin2		0.4749		64.5	50.0	28.9	30.0
Trichlorofluoromethane	Ave	0.3315	0.4229		63.8	50.0	27.6	30.0
Diethyl ether	Lin2		0.1714		59.4	50.0	18.8	30.0
Ethanol	Lin2		0.0038		2780	2500	11.2	30.0
Acrolein	Ave	0.0202	0.0195		121	125	-3.2	30.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2060	0.2300		55.8	50.0	11.7	30.0
1,1-Dichloroethene	Lin2		0.2235		58.0	50.0	16.0	30.0
Acetone	Lin2		0.0121		286	250	14.3	30.0
Iodomethane	Ave	0.2702	0.4424		81.9	50.0	63.8*	30.0
Isopropyl alcohol	Lin2		0.0067		522	500	4.3	30.0
Carbon disulfide	Lin2		0.7718		62.6	50.0	25.2	30.0
3-Chloro-1-propene	Ave	0.2020	0.1990		49.3	50.0	-1.5	30.0
Acetonitrile	Lin1		0.0561		623	500	24.6	30.0
Methyl acetate	Lin2		0.1231		267	250	6.6	30.0
Methylene Chloride	Lin1		0.2725		62.5	50.0	25.0	30.0
tert-Butyl alcohol (TBA)	Ave	0.0096	0.0101		525	500	4.9	30.0
Methyl tert-butyl ether	Lin2		0.5441		59.6	50.0	19.2	30.0
trans-1,2-Dichloroethene	Lin2		0.3855		63.9	50.0	27.8	30.0
Acrylonitrile	Ave	0.0469	0.0510		543	500	8.7	30.0
Hexane	Ave	0.3367	0.3736		55.5	50.0	11.0	30.0
Diisopropyl ether	Lin1		0.8953		64.8	50.0	29.7	30.0
1,1-Dichloroethane	Lin1		0.5086	0.1000	62.5	50.0	24.9	30.0
Vinyl acetate	Lin1		0.5173		113	100	13.2	30.0
Chloroprene	Lin2		0.4301		61.7	50.0	23.4	30.0
Ethyl tert-butyl ether	Lin2		0.7322		59.1	50.0	18.2	30.0
2,2-Dichloropropane	Lin2		0.3579		56.0	50.0	11.9	30.0
cis-1,2-Dichloroethene	Lin1		0.4742		62.9	50.0	25.7	30.0
2-Butanone (MEK)	Ave	0.0141	0.0166		294	250	17.4	30.0
Ethyl acetate	Ave	0.2055	0.2436		119	100	18.6	30.0
Propionitrile	Ave	0.0175	0.0199		568	500	13.6	30.0
Methacrylonitrile	Ave	0.0885	0.0936		529	500	5.7	30.0
Bromochloromethane	Lin2		0.1495		57.9	50.0	15.7	30.0
Chloroform	Lin2		0.4666		60.6	50.0	21.2	30.0
Tetrahydrofuran	Lin1		0.0457		92.8	100	-7.3	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Lab Sample ID: ICV 490-110993/25 Calibration Date: 10/02/2013 02:18

Instrument ID: HP35 Calib Start Date: 10/01/2013 19:38

GC Column: ZB-624 ID: 0.18(mm) Calib End Date: 10/02/2013 00:15

Lab File ID: 1001-25.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Lin2		0.4054		62.1	50.0	24.3	30.0
Cyclohexane	Ave	0.4223	0.4836		57.3	50.0	14.5	30.0
1,1-Dichloropropene	Lin2		0.3871		64.7	50.0	29.4	30.0
Carbon tetrachloride	Ave	0.3021	0.3540		58.6	50.0	17.2	30.0
Isobutanol	Lin2		0.0133		562	500	12.3	30.0
Benzene	Ave	0.9844	1.148		58.3	50.0	16.6	30.0
1,2-Dichloroethane	Lin2		0.3173		59.6	50.0	19.2	30.0
Tert-amyl methyl ether	Lin2		0.6319		62.0	50.0	23.9	30.0
Heptane	Ave	0.3556	0.3800		53.4	50.0	6.9	30.0
n-Butanol	Lin1		0.0030		1301	1250	4.0	30.0
Trichloroethene	Ave	0.2569	0.3161		61.5	50.0	23.0	30.0
Ethyl acrylate	Ave	0.3621	0.3967		54.8	50.0	9.6	
Methylcyclohexane	Ave	0.4072	0.4564		56.0	50.0	12.1	30.0
1,2-Dichloropropane	Lin1		0.2943		62.7	50.0	25.4	30.0
Methyl methacrylate	Ave	0.1509	0.1620		107	100	7.4	30.0
Dibromomethane	Ave	0.1116	0.1240		55.5	50.0	11.1	30.0
1,4-Dioxane	Ave	0.0011	0.0012		1104	1000	10.4	30.0
Bromodichloromethane	Lin2		0.3530		60.9	50.0	21.8	30.0
2-Nitropropane	Lin1		0.0769		108	100	7.5	30.0
2-Chloroethyl vinyl ether	Lin1		0.1166		52.8	50.0	5.6	30.0
cis-1,3-Dichloropropene	Lin2		0.5377		61.7	50.0	23.3	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0643	0.0736		286	250	14.5	30.0
Toluene	Lin2		1.535		61.1	50.0	22.2	30.0
trans-1,3-Dichloropropene	Ave	0.3482	0.4324		62.1	50.0	24.2	30.0
Ethyl methacrylate	Ave	0.2689	0.3167		58.9	50.0	17.8	30.0
1,1,2-Trichloroethane	Ave	0.2129	0.2324		54.6	50.0	9.2	30.0
Tetrachloroethene	Lin2		0.4299		60.9	50.0	21.8	30.0
1,3-Dichloropropane	Ave	0.3850	0.4207		54.6	50.0	9.3	30.0
2-Hexanone	Ave	0.0593	0.0666		280	250	12.2	30.0
n-Butyl acetate	Lin1		0.1760		74.3	50.0	48.5*	30.0
Chlorodibromomethane	Ave	0.1815	0.2199		60.6	50.0	21.2	30.0
1,2-Dibromoethane (EDB)	Ave	0.1998	0.2233		55.9	50.0	11.8	30.0
Chlorobenzene	Lin2		0.9794	0.3000	61.2	50.0	22.3	30.0
Ethylbenzene	Ave	1.426	1.665		58.4	50.0	16.7	30.0
1,1,1,2-Tetrachloroethane	Lin2		0.3515		61.9	50.0	23.7	30.0
m,p-Xylene	Ave	1.133	1.313		58.0	50.0	15.9	30.0
o-Xylene	Ave	1.152	1.346		58.4	50.0	16.8	30.0
Styrene	Lin2		1.110		60.9	50.0	21.8	30.0
Bromoform	Lin1		0.1701	0.1000	56.2	50.0	12.4	30.0
Isopropylbenzene	Ave	1.403	1.704		60.7	50.0	21.5	30.0
Cyclohexanone	Lin1		0.0037		500	500	0.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Lab Sample ID: ICV 490-110993/25 Calibration Date: 10/02/2013 02:18

Instrument ID: HP35 Calib Start Date: 10/01/2013 19:38

GC Column: ZB-624 ID: 0.18(mm) Calib End Date: 10/02/2013 00:15

Lab File ID: 1001-25.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Bromobenzene	Lin2		1.059		60.9	50.0	21.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.3936	0.4211	0.3000	53.5	50.0	7.0	30.0
1,2,3-Trichloropropane	Ave	0.1084	0.1306		60.2	50.0	20.4	30.0
N-Propylbenzene	Ave	2.771	3.315		59.8	50.0	19.7	30.0
trans-1,4-Dichloro-2-butene	Ave	0.0793	0.1015		64.1	50.0	28.1	30.0
2-Chlorotoluene	Lin2		1.970		63.4	50.0	26.9	30.0
1,3,5-Trimethylbenzene	Ave	1.923	2.419		62.9	50.0	25.8	30.0
4-Chlorotoluene	Lin2		2.145		61.7	50.0	23.3	30.0
tert-Butylbenzene	Ave	1.659	2.112		63.7	50.0	27.3	30.0
1,2,4-Trimethylbenzene	Ave	1.954	2.446		62.6	50.0	25.1	30.0
sec-Butylbenzene	Ave	2.466	3.035		61.5	50.0	23.1	30.0
p-Isopropyltoluene	Ave	2.088	2.671		64.0	50.0	28.0	30.0
1,3-Dichlorobenzene	Ave	1.336	1.488		55.7	50.0	11.4	30.0
1,4-Dichlorobenzene	Lin2		1.512		62.7	50.0	25.5	30.0
1,2,3-Trimethylbenzene	Ave	2.128	2.492		58.6	50.0	17.1	30.0
Benzyl chloride	Lin2		0.4102		53.5	50.0	7.1	30.0
n-Butylbenzene	Ave	1.915	2.378		62.1	50.0	24.2	30.0
1,2-Dichlorobenzene	Ave	1.169	1.352		57.8	50.0	15.6	30.0
1,2-Dibromo-3-Chloropropane	Lin1		0.0842		52.6	50.0	5.2	30.0
1,3,5-Trichlorobenzene	Ave	1.097	1.295		59.0	50.0	18.0	30.0
1,2,4-Trichlorobenzene	Ave	0.9198	1.103		60.0	50.0	20.0	30.0
Hexachlorobutadiene	Ave	0.5807	0.6753		58.2	50.0	16.3	30.0
Naphthalene	Ave	1.222	1.565		64.0	50.0	28.1	30.0
1,2,3-Trichlorobenzene	Ave	0.7933	0.9213		58.1	50.0	16.1	30.0
Dibromofluoromethane (Surr)	Ave	0.2361	0.2387		25.3	25.0	1.1	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2346	0.2395		25.5	25.0	2.1	30.0
Toluene-d8 (Surr)	Ave	1.269	1.270		25.0	25.0	0.0	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8240	0.8208		24.9	25.0	-0.4	30.0

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-25.D
Lims ID: icv Client ID:
Inject. Date: 02-Oct-2013 02:18:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: ICV
Misc. Info.: 490-0025968-025
Operator: MJH HP35 Instrument ID: HP35
Purge Vol: 10.000 mL ALS Bottle#: 25
Lims Batch ID: 110993 Lims Sample ID: 25
Sublist:
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP35\20131001-25968.b\8260HP35.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 02-Oct-2013 12:09:21 Calib Date: 02-Oct-2013 00:15:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: RT Order ID
Column Type: Column Dia:
Process Host: XAWRK001

First Level Reviewer: himelickm Date: 02-Oct-2013 11:12:53

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.148	4.152	-0.004	98	911226	25.0	
* 2 Chlorobenzene-d5	117	6.527	6.531	-0.004	85	719862	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.680	8.678	0.002	82	431489	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.710	3.708	0.002	45	217548	25.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.941	3.945	-0.004	88	218261	25.5	
$ 6 Toluene-d8 (Surr)	98	5.310	5.308	0.002	83	913896	25.0	
$ 7 4-Bromofluorobenzene (Surr)	95	7.585	7.589	-0.004	95	354144	24.9	
9 Dichlorodifluoromethane	85	1.386	1.390	-0.004	87	525456	62.1	
10 Chloromethane	50	1.520	1.524	-0.004	89	607911	58.1	
11 Vinyl chloride	62	1.587	1.585	0.002	79	580845	59.3	
12 Butadiene	54	1.605	1.609	-0.004	0	543585	58.7	
13 Bromomethane	96	1.800	1.798	0.002	90	331698	69.2	
14 Chloroethane	64	1.855	1.859	-0.004	95	359875	60.8	
15 Dichlorofluoromethane	67	1.976	1.980	-0.004	83	865406	64.5	
16 Trichlorofluoromethane	101	2.007	2.005	0.002	87	770769	63.8	
18 Ethanol	45	2.165	2.169	-0.004	72	341725	2779.7	
17 Ethyl ether	59	2.165	2.169	-0.004	93	312407	59.4	
19 Acrolein	56	2.281	2.278	0.003	94	88908	121.0	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.293	2.291	0.002	83	419124	55.8	
21 1,1-Dichloroethene	96	2.317	2.321	-0.004	90	407228	58.0	
22 Acetone	58	2.372	2.370	0.002	98	110483	285.8	
23 Iodomethane	142	2.433	2.431	0.003	98	806293	81.9	
25 Isopropyl alcohol	45	2.445	2.449	-0.004	97	122708	521.6	
26 Carbon disulfide	76	2.475	2.473	0.002	99	1406496	62.6	
28 Acetonitrile	41	2.530	2.534	-0.004	71	1022845	623.2	
27 3-Chloro-1-propene	76	2.530	2.534	-0.004	86	362651	49.3	
29 Methyl acetate	43	2.542	2.540	0.002	98	1121817	266.6	
30 Methylene Chloride	84	2.615	2.619	-0.004	90	496653	62.5	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
31 2-Methyl-2-propanol	59	2.682	2.680	0.002	97	183855	524.5	
32 Methyl tert-butyl ether	73	2.749	2.753	-0.004	91	991635	59.6	
33 trans-1,2-Dichloroethene	61	2.767	2.765	0.002	96	702457	63.9	
34 Acrylonitrile	53	2.779	2.783	-0.004	96	928899	543.4	
35 Hexane	57	2.889	2.887	0.002	95	680945	55.5	
36 Isopropyl ether	45	3.017	3.021	-0.004	91	1631594	64.8	
37 1,1-Dichloroethane	63	3.029	3.033	-0.004	84	926816	62.5	
38 Vinyl acetate	43	3.035	3.033	0.002	97	1885382	113.2	
39 2-Chloro-1,3-butadiene	53	3.071	3.075	-0.004	92	783906	61.7	
40 Tert-butyl ethyl ether	59	3.242	3.246	-0.004	95	1334385	59.1	
42 2,2-Dichloropropane	77	3.382	3.386	-0.004	88	652282	56.0	
43 cis-1,2-Dichloroethene	61	3.394	3.398	-0.004	71	864223	62.9	
41 Ethyl acetate	43	3.412	3.410	0.002	94	887994	118.6	
44 2-Butanone (MEK)	72	3.406	3.410	-0.004	97	151183	293.5	
45 Propionitrile	54	3.479	3.477	0.002	99	362059	568.0	
46 Methacrylonitrile	41	3.552	3.556	-0.004	94	1705395	528.5	
47 Chlorobromomethane	130	3.564	3.562	0.002	81	272524	57.9	
49 Tetrahydrofuran	42	3.601	3.599	0.002	70	166525	92.7	
48 Chloroform	83	3.595	3.599	-0.004	81	850313	60.6	
51 1,1,1-Trichloroethane	97	3.710	3.708	0.002	91	738813	62.1	
52 Cyclohexane	56	3.728	3.732	-0.004	92	881365	57.3	
54 Carbon tetrachloride	117	3.814	3.811	0.003	75	645214	58.6	
53 1,1-Dichloropropene	75	3.814	3.811	0.003	91	705415	64.7	
55 Isobutyl alcohol	43	3.905	3.909	-0.004	93	242281	561.7	
57 Benzene	78	3.966	3.964	0.002	97	2091341	58.3	
58 1,2-Dichloroethane	62	3.996	3.994	0.002	90	578174	59.6	
59 Tert-amyl methyl ether	73	4.002	4.000	0.002	97	1151620	61.9	
60 n-Heptane	43	4.063	4.067	-0.004	93	692563	53.4	
61 n-Butanol	56	4.373	4.371	0.002	91	137478	1300.6	
62 Trichloroethene	130	4.404	4.402	0.002	94	576068	61.5	
63 Ethyl acrylate	55	4.513	4.511	0.002	0	723029	54.8	
64 Methylcyclohexane	83	4.513	4.511	0.002	92	831704	56.0	
65 1,2-Dichloropropane	63	4.586	4.584	0.002	93	536283	62.7	
67 Methyl methacrylate	41	4.629	4.627	0.002	89	590534	107.4	
68 Dibromomethane	93	4.690	4.687	0.003	84	225962	55.5	
69 1,4-Dioxane	88	4.702	4.700	0.002	88	43738	1104.1	
70 Dichlorobromomethane	83	4.793	4.791	0.002	91	643400	60.9	
71 2-Nitropropane	43	4.982	4.979	0.003	98	280133	107.5	
72 2-Chloroethyl vinyl ether	63	4.988	4.986	0.002	84	167819	52.8	
73 cis-1,3-Dichloropropene	75	5.115	5.113	0.002	89	774142	61.7	
74 4-Methyl-2-pentanone (MIBK)	58	5.225	5.229	-0.004	97	530067	286.2	
75 Toluene	91	5.365	5.363	0.002	93	2209844	61.1	
76 trans-1,3-Dichloropropene	75	5.560	5.557	0.003	92	622498	62.1	
77 Ethyl methacrylate	69	5.590	5.588	0.002	89	456014	58.9	
78 1,1,2-Trichloroethane	97	5.718	5.722	-0.004	87	334579	54.6	
79 Tetrachloroethene	166	5.803	5.801	0.002	93	618989	60.9	
80 1,3-Dichloropropane	76	5.858	5.862	-0.004	92	605689	54.6	
81 2-Hexanone	58	5.900	5.904	-0.004	97	479151	280.4	
82 n-Butyl acetate	43	5.979	5.983	-0.004	98	320826	74.3	
83 Chlorodibromomethane	127	6.058	6.062	-0.004	87	316576	60.6	
84 Ethylene Dibromide	107	6.162	6.160	0.002	98	321517	55.9	
86 Chlorobenzene	112	6.557	6.555	0.002	93	1410121	61.2	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
88 1,1,1,2-Tetrachloroethane	131	6.624	6.622	0.002	87	506012	61.9	
87 Ethylbenzene	91	6.618	6.622	-0.004	99	2396561	58.4	
89 m-Xylene & p-Xylene	91	6.722	6.725	-0.003	99	1890692	58.0	
90 o-Xylene	91	7.087	7.084	0.002	96	1937504	58.4	
91 Styrene	104	7.111	7.109	0.002	96	1597899	60.9	
92 Bromoform	173	7.324	7.322	0.002	97	244861	56.2	
93 Isopropylbenzene	105	7.409	7.407	0.002	96	2452850	60.7	
94 Cyclohexanone	55	7.579	7.577	0.002	92	66952	500.0	
95 Bromobenzene	77	7.731	7.729	0.002	91	913555	60.9	
96 1,1,2,2-Tetrachloroethane	83	7.744	7.747	-0.003	73	363412	53.5	
99 N-Propylbenzene	91	7.792	7.790	0.002	97	2861157	59.8	
98 trans-1,4-Dichloro-2-butene	53	7.792	7.790	0.002	31	87624	64.1	
97 1,2,3-Trichloropropane	110	7.786	7.790	-0.004	74	112664	60.2	
100 2-Chlorotoluene	91	7.896	7.900	-0.004	96	1699828	63.4	
101 1,3,5-Trimethylbenzene	105	7.956	7.960	-0.004	79	2087240	62.9	
102 4-Chlorotoluene	91	7.999	8.003	-0.004	96	1850889	61.7	
103 tert-Butylbenzene	119	8.261	8.265	-0.004	87	1822598	63.7	
104 1,2,4-Trimethylbenzene	105	8.315	8.319	-0.004	91	2110476	62.6	
106 sec-Butylbenzene	105	8.474	8.471	0.003	95	2619403	61.5	
107 4-Isopropyltoluene	119	8.607	8.611	-0.004	92	2305408	64.0	
108 1,3-Dichlorobenzene	146	8.613	8.617	-0.004	97	1284414	55.7	
109 1,4-Dichlorobenzene	146	8.705	8.703	0.002	95	1304677	62.7	
110 1,2,3-Trimethylbenzene	105	8.729	8.733	-0.004	0	2150572	58.5	
111 Benzyl chloride	91	8.845	8.842	0.003	99	590514	53.5	
112 n-Butylbenzene	91	9.009	9.007	0.002	94	2052575	62.1	
113 1,2-Dichlorobenzene	146	9.070	9.068	0.002	97	1166374	57.8	
114 1,2-Dibromo-3-Chloropropane	157	9.891	9.889	0.002	80	72647	52.6	
115 1,3,5-Trichlorobenzene	180	10.080	10.077	0.003	97	1117497	59.0	
116 1,2,4-Trichlorobenzene	180	10.828	10.832	-0.004	90	952173	60.0	
117 Hexachlorobutadiene	225	10.980	10.984	-0.004	91	582805	58.1	
118 Naphthalene	128	11.108	11.112	-0.004	97	1350778	64.0	
119 1,2,3-Trichlorobenzene	180	11.363	11.367	-0.004	92	795069	58.1	
S 132 1,2-Dichloroethene, Total	1				0		126.8	
S 131 Xylenes, Total	1				0		116.3	

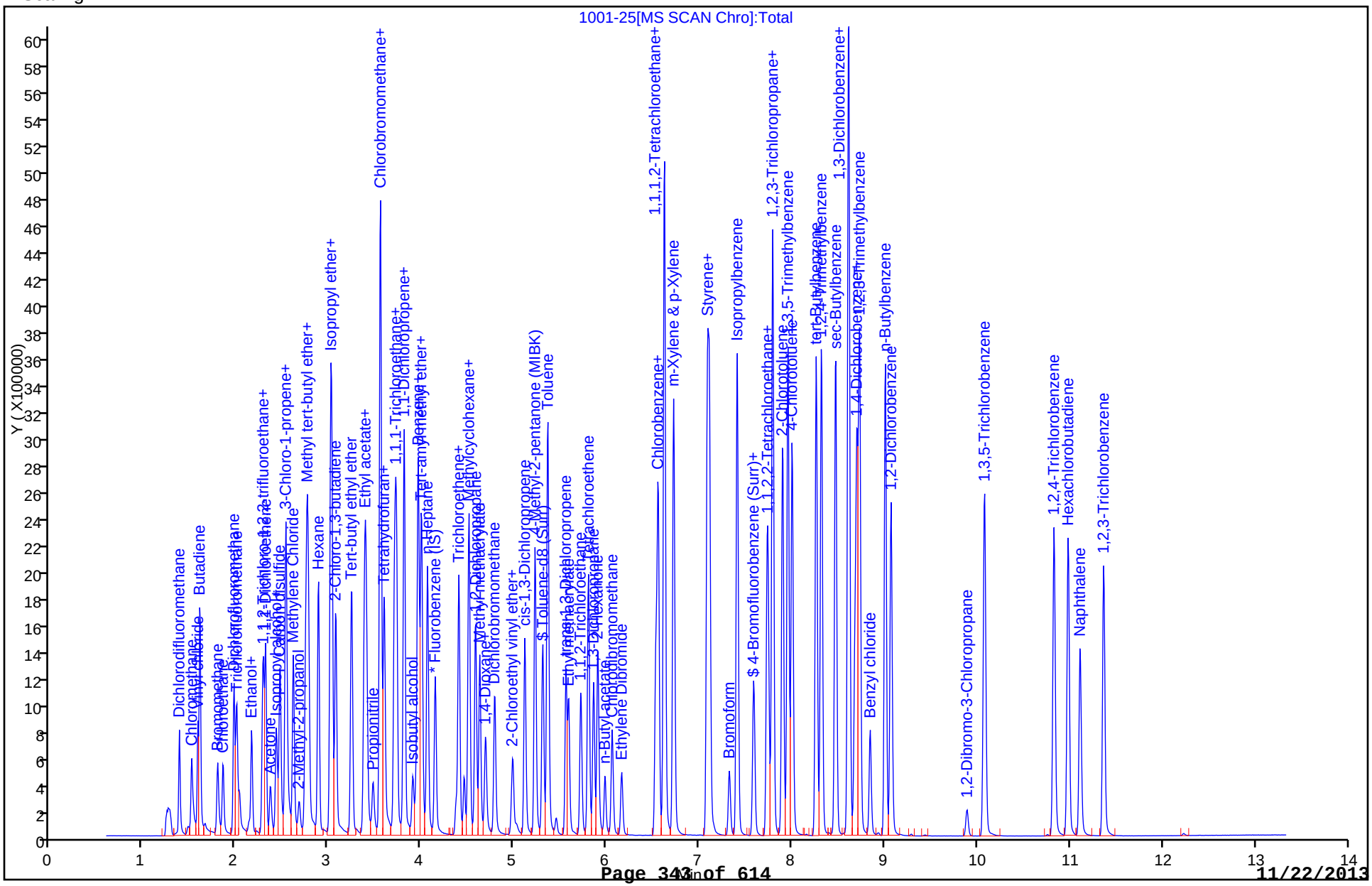
Report Date: 02-Oct-2013 12:09:21 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-25.D

Injection Date:	02-Oct-2013 02:18:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP35
Lims Batch ID:	110993	Lims Sample ID:	25
Operator ID:	MJH HP35	Purge Vol:	10.000 mL
Column Type:		Column Dia:	

Y Scaling:



11/22/2013

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Lab Sample ID: ICV 490-121964/14 Calibration Date: 11/15/2013 10:42

Instrument ID: HP35 Calib Start Date: 11/14/2013 14:57

GC Column: ZB-624 ID: 0.18(mm) Calib End Date: 11/14/2013 19:08

Lab File ID: 1114-14a.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Lin1		0.0011		4595	5000	-8.1	30.0
tert-Butyl alcohol (TBA)	Ave	0.0120	0.0097		402	500	-19.6	30.0
Methyl tert-butyl ether	Ave	0.4298	0.4013		46.7	50.0	-6.6	30.0
Diisopropyl ether	Ave	0.7368	0.7228		49.1	50.0	-1.9	30.0
Ethyl tert-butyl ether	Ave	0.5506	0.5316		48.3	50.0	-3.4	30.0
tert-Butyl Formate	Ave	0.0447	0.1110		1241	500	148.1*	30.0
Benzene	Ave	1.033	1.056		51.1	50.0	2.2	30.0
t-Amyl alcohol	Ave	0.0071	0.0073		518	500	3.6	30.0
1,2-Dichloroethane	Ave	0.2850	0.2758		48.4	50.0	-3.2	30.0
Tert-amyl methyl ether	Ave	0.5005	0.5174		51.7	50.0	3.4	30.0
Toluene	Ave	1.536	1.585		51.6	50.0	3.2	30.0
3,3-Dimethyl-1-butanol	Lin1		0.0092		447	500	-10.7	30.0
1,2-Dibromoethane (EDB)	Lin2		0.2124		50.9	50.0	1.9	30.0
Ethylbenzene	Lin1		1.688		58.5	50.0	16.9	30.0
m,p-Xylene	Lin1		1.279		107	100	6.6	30.0
o-Xylene	Lin1		1.344		56.8	50.0	13.5	30.0
Isopropylbenzene	Lin1		1.652		52.8	50.0	5.6	30.0
N-Propylbenzene	Lin1		3.161		53.9	50.0	7.8	30.0
1,3,5-Trimethylbenzene	Lin1		2.342		56.3	50.0	12.5	30.0
tert-Butylbenzene	Lin1		2.064		55.3	50.0	10.7	30.0
1,2,4-Trimethylbenzene	Lin1		2.474		58.4	50.0	16.8	30.0
sec-Butylbenzene	Lin1		2.874		56.7	50.0	13.4	30.0
p-Isopropyltoluene	Lin1		2.574		58.4	50.0	16.7	30.0
n-Butylbenzene	Lin1		2.175		55.1	50.0	10.2	30.0
Naphthalene	Lin1		1.133		45.2	50.0	-9.5	30.0
2-Methylnaphthalene	Lin2		0.6295		42.4	50.0	-15.2	30.0
Dibromofluoromethane (Surr)	Ave	0.2340	0.2325		24.8	25.0	-0.6	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2404	0.2309		24.0	25.0	-3.9	30.0
Toluene-d8 (Surr)	Ave	1.366	1.391		25.5	25.0	1.8	30.0
4-Bromofluorobenzene (Surr)	Ave	0.7525	0.7802		25.9	25.0	3.7	30.0

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-14a.D
Lims ID: icv Lab Sample ID: ICV 490-121966/14-A
Client ID:
Sample Type: ICV
Inject. Date: 15-Nov-2013 10:42:30 ALS Bottle#: 15 Worklist Smp#: 14
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 490-0028453-014
Operator ID: MJH HP35 Instrument ID: HP35
Sublist:

Method: \\Nvlchrom\ChromData\HP35\20131114-28453.b\8260HP35SHORT.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 15-Nov-2013 12:23:09 Calib Date: 14-Nov-2013 19:08:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-11.D

Column 1 : Detector MS SCAN
Process Host: XAWRK048

First Level Reviewer: himelickm Date: 15-Nov-2013 10:58:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.146	4.144	0.002	98	892653	25.0	
* 2 Chlorobenzene-d5	117	6.531	6.528	0.003	83	618195	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.678	8.682	-0.004	93	371589	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.702	3.700	0.002	59	207522	24.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.939	3.937	0.002	91	206152	24.0	
$ 6 Toluene-d8 (Surr)	98	5.308	5.306	0.002	93	859943	25.5	
$ 7 4-Bromofluorobenzene (Surr)	95	7.583	7.587	-0.004	96	289894	25.9	
18 Ethanol	45	2.139	2.138	0.001	100	189084	4594.9	
31 2-Methyl-2-propanol	59	2.680	2.686	-0.006	96	172735	401.9	
32 Methyl tert-butyl ether	73	2.747	2.747	0.0	92	716427	46.7	
36 Isopropyl ether	45	3.015	3.014	0.001	93	1290478	49.1	
40 Tert-butyl ethyl ether	59	3.240	3.239	0.001	96	949096	48.3	
50 tert-Butyl Formate	59	3.605	3.611	-0.006	92	1981502	1240.7	
57 Benzene	78	3.958	3.957	0.001	98	1885858	51.1	
56 t-Amyl alcohol	59	3.964	3.970	-0.006	73	130828	517.9	
58 1,2-Dichloroethane	62	3.988	3.994	-0.006	78	492432	48.4	
59 Tert-amyl methyl ether	73	3.994	4.000	-0.006	95	923712	51.7	
75 Toluene	91	5.357	5.357	0.0	93	1959865	51.6	
125 3,3-Dimethyl-1-butanol	57	6.081	6.087	-0.006	89	113458	446.5	
84 Ethylene Dibromide	107	6.160	6.160	0.0	98	262574	50.9	
87 Ethylbenzene	91	6.616	6.622	-0.006	98	2087025	58.5	
89 m-Xylene & p-Xylene	91	6.720	6.719	0.001	98	3163055	106.6	
90 o-Xylene	91	7.085	7.084	0.001	96	1661882	56.8	
93 Isopropylbenzene	105	7.407	7.407	0.0	96	2042598	52.8	
99 N-Propylbenzene	91	7.790	7.790	0.0	96	2349125	53.9	
101 1,3,5-Trimethylbenzene	105	7.955	7.954	0.001	95	1740304	56.3	
103 tert-Butylbenzene	119	8.259	8.264	-0.005	91	1534013	55.3	
104 1,2,4-Trimethylbenzene	105	8.313	8.319	-0.006	97	1838757	58.4	
106 sec-Butylbenzene	105	8.466	8.471	-0.005	94	2135700	56.7	

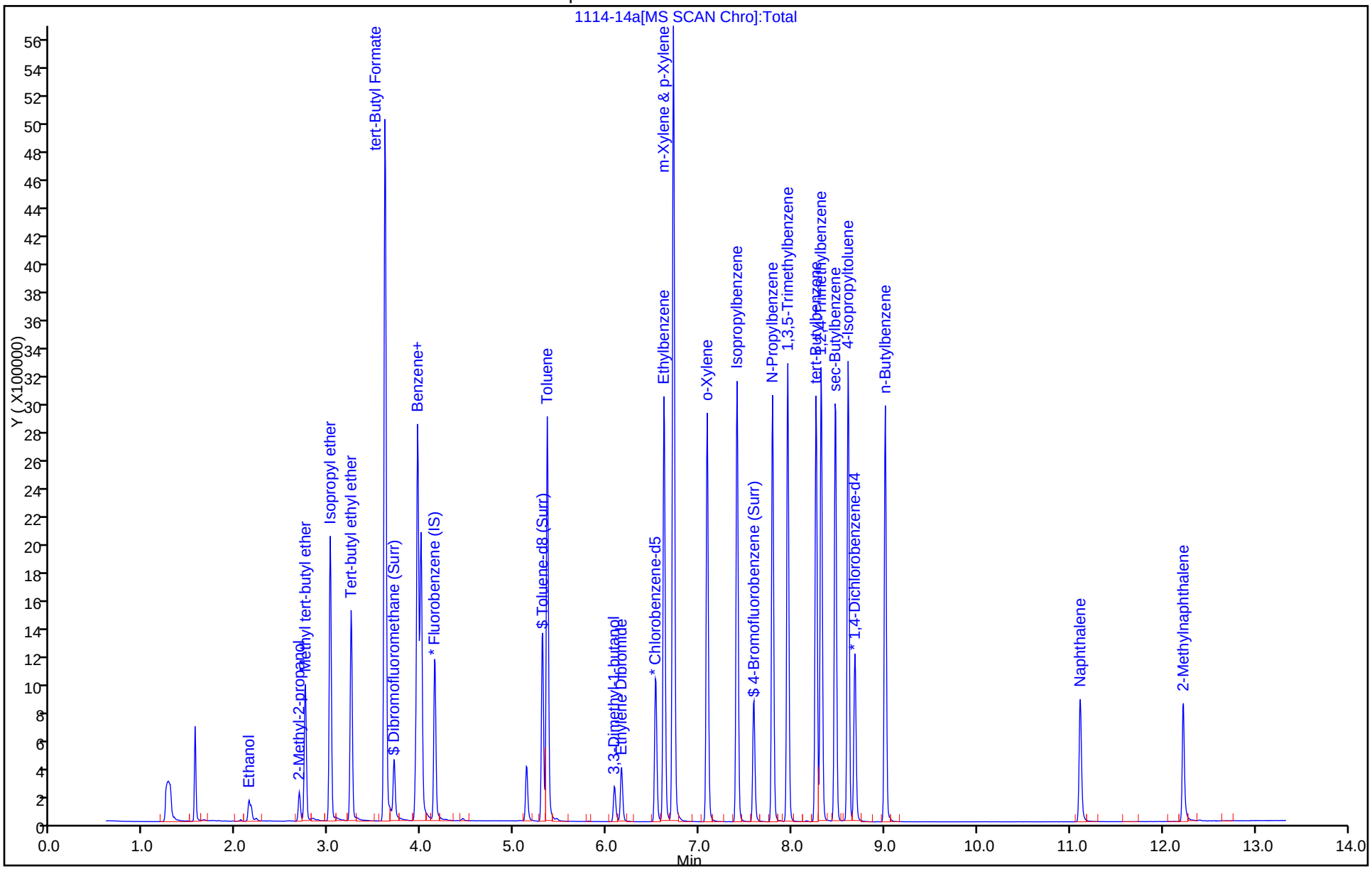
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
107 4-Isopropyltoluene	119	8.605	8.605	0.0	96	1913188	58.3	
112 n-Butylbenzene	91	9.007	9.007	0.0	94	1616436	55.1	
118 Naphthalene	128	11.112	11.111	0.001	97	841689	45.2	
120 2-Methylnaphthalene	142	12.225	12.225	0.0	91	467800	42.4	
S 131 Xylenes, Total	1				0		163.4	

Report Date: 15-Nov-2013 12:23:09 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-14a.D

Injection Date:	15-Nov-2013 10:42:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	icv	Lab Sample ID:	ICV 490-121966/14-A	Worklist Smp#:	14
Client ID:					
Purge Vol:	10.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8260HP35SHORT	Limit Group:	MSV 8260B ICAL		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Lab Sample ID: CCVIS 490-122748/2 Calibration Date: 11/18/2013 11:07

Instrument ID: HP35 Calib Start Date: 10/01/2013 19:38

GC Column: ZB-624 ID: 0.18(mm) Calib End Date: 10/02/2013 00:15

Lab File ID: 1118-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2321	0.2610		56.2	50.0	12.5	20.0
Chloromethane	Lin1		0.1838	0.1000	31.6	50.0	-36.8*	20.0
Vinyl chloride	Ave	0.2687	0.2850		53.0	50.0	6.1	20.0
Butadiene	Ave	0.2539	0.2568		50.6	50.0	1.2	20.0
Bromomethane	Lin1		0.1114		42.5	50.0	-15.0	20.0
Chloroethane	Lin2		0.1734		53.3	50.0	6.7	20.0
Dichlorofluoromethane	Lin2		0.4188		56.8	50.0	13.6	20.0
Trichlorofluoromethane	Ave	0.3315	0.3774		56.9	50.0	13.8	20.0
Diethyl ether	Lin2		0.1508		52.2	50.0	4.4	20.0
Acrolein	Ave	0.0202	0.0152		94.1	125	-24.7	40.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.2060	0.2282		55.4	50.0	10.8	20.0
1,1-Dichloroethene	Lin2		0.2184		56.7	50.0	13.3	20.0
Acetone	Lin2		0.0105		246	250	-1.4	20.0
Iodomethane	Ave	0.2702	0.1678		31.1	50.0	-37.9*	20.0
Isopropyl alcohol	Lin2		0.0056		431	500	-13.9	20.0
Carbon disulfide	Lin2		0.7195		58.3	50.0	16.7	20.0
3-Chloro-1-propene	Ave	0.2020	0.1740		43.1	50.0	-13.8	20.0
Acetonitrile	Lin1		0.0495		549	500	9.7	20.0
Methyl acetate	Lin2		0.0970		210	250	-16.0	20.0
Methylene Chloride	Lin1		0.2415		55.3	50.0	10.6	20.0
trans-1,2-Dichloroethene	Lin2		0.3385		56.1	50.0	12.1	20.0
Acrylonitrile	Ave	0.0469	0.0459		490	500	-2.1	20.0
Hexane	Ave	0.3367	0.3591		53.3	50.0	6.7	20.0
1,1-Dichloroethane	Lin1		0.4697	0.1000	57.7	50.0	15.3	20.0
Vinyl acetate	Lin1		0.4715		103	100	3.1	40.0
Chloroprene	Lin2		0.3555		51.0	50.0	1.9	20.0
2,2-Dichloropropane	Lin2		0.3693		57.8	50.0	15.5	20.0
cis-1,2-Dichloroethene	Lin1		0.4417		58.5	50.0	17.1	20.0
2-Butanone (MEK)	Ave	0.0141	0.0138		244	250	-2.5	20.0
Ethyl acetate	Ave	0.2055	0.2361		115	100	14.9	20.0
Propionitrile	Ave	0.0175	0.0175		499	500	-0.1	20.0
Methacrylonitrile	Ave	0.0885	0.0786		444	500	-11.2	20.0
Bromochloromethane	Lin2		0.1337		51.7	50.0	3.4	20.0
Chloroform	Lin2		0.4001		51.9	50.0	3.8	20.0
Tetrahydrofuran	Lin1		0.0368		74.8	100	-25.2*	20.0
1,1,1-Trichloroethane	Lin2		0.3509		53.7	50.0	7.5	20.0
Cyclohexane	Ave	0.4223	0.4397		52.1	50.0	4.1	20.0
1,1-Dichloropropene	Lin2		0.3205		53.6	50.0	7.1	20.0
Carbon tetrachloride	Ave	0.3021	0.3106		51.4	50.0	2.8	20.0
Isobutanol	Lin2		0.0111		466	500	-6.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Lab Sample ID: CCVIS 490-122748/2 Calibration Date: 11/18/2013 11:07

Instrument ID: HP35 Calib Start Date: 10/01/2013 19:38

GC Column: ZB-624 ID: 0.18(mm) Calib End Date: 10/02/2013 00:15

Lab File ID: 1118-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Heptane	Ave	0.3556	0.3408		47.9	50.0	-4.2	20.0
n-Butanol	Lin1		0.0025		1057	1250	-15.4	20.0
Trichloroethene	Ave	0.2569	0.2679		52.1	50.0	4.3	20.0
Ethyl acrylate	Ave	0.3621	0.3504		48.4	50.0	-3.2	20.0
Methylcyclohexane	Ave	0.4072	0.4095		50.3	50.0	0.6	20.0
1,2-Dichloropropane	Lin1		0.2642		56.3	50.0	12.5	20.0
Methyl methacrylate	Ave	0.1509	0.1323		87.7	100	-12.3	20.0
Dibromomethane	Ave	0.1116	0.1099		49.2	50.0	-1.6	20.0
1,4-Dioxane	Ave	0.0011	0.0010		931	1000	-6.9	20.0
Bromodichloromethane	Lin2		0.3218		55.5	50.0	11.0	20.0
2-Nitropropane	Lin1		0.0587		82.3	100	-17.7	20.0
2-Chloroethyl vinyl ether	Lin1		0.1094		49.6	50.0	-0.7	20.0
cis-1,3-Dichloropropene	Lin2		0.4882		56.0	50.0	12.0	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0643	0.0629		245	250	-2.2	20.0
trans-1,3-Dichloropropene	Ave	0.3482	0.3688		53.0	50.0	5.9	20.0
Ethyl methacrylate	Ave	0.2689	0.2614		48.6	50.0	-2.8	20.0
1,1,2-Trichloroethane	Ave	0.2129	0.2281		53.6	50.0	7.1	20.0
Tetrachloroethene	Lin2		0.4234		60.0	50.0	19.9	20.0
1,3-Dichloropropane	Ave	0.3850	0.4005		52.0	50.0	4.0	20.0
2-Hexanone	Ave	0.0593	0.0560		236	250	-5.7	20.0
n-Butyl acetate	Lin1		0.1610		67.9	50.0	35.8*	20.0
Chlorodibromomethane	Ave	0.1815	0.2205		60.8	50.0	21.5*	20.0
Chlorobenzene	Lin2		0.9676	0.3000	60.4	50.0	20.8*	20.0
1,1,1,2-Tetrachloroethane	Lin2		0.3459		60.9	50.0	21.8*	20.0
Styrene	Lin2		1.056		58.0	50.0	15.9	20.0
Bromoform	Lin1		0.1672	0.1000	55.3	50.0	10.5	20.0
Cyclohexanone	Lin1		0.0031		417	500	-16.7	20.0
Bromobenzene	Lin2		0.9170		52.7	50.0	5.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.3936	0.3829	0.3000	48.6	50.0	-2.7	20.0
1,2,3-Trichloropropane	Ave	0.1084	0.1119		51.6	50.0	3.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.0793	0.0991		62.5	50.0	25.0*	20.0
2-Chlorotoluene	Lin2		1.721		55.4	50.0	10.8	20.0
4-Chlorotoluene	Lin2		1.882		54.1	50.0	8.2	20.0
1,3-Dichlorobenzene	Ave	1.336	1.343		50.3	50.0	0.5	20.0
1,4-Dichlorobenzene	Lin2		1.340		55.6	50.0	11.2	20.0
1,2,3-Trimethylbenzene	Ave	2.128	2.197		51.6	50.0	3.2	20.0
Benzyl chloride	Lin2		0.4816		62.8	50.0	25.7*	20.0
1,2-Dichlorobenzene	Ave	1.169	1.189		50.9	50.0	1.7	20.0
1,2-Dibromo-3-Chloropropane	Lin1		0.0691		43.5	50.0	-13.1	20.0
1,3,5-Trichlorobenzene	Ave	1.097	1.081		49.2	50.0	-1.5	20.0
1,2,4-Trichlorobenzene	Ave	0.9198	0.8767		47.7	50.0	-4.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Lab Sample ID: CCVIS 490-122748/2 Calibration Date: 11/18/2013 11:07

Instrument ID: HP35 Calib Start Date: 10/01/2013 19:38

GC Column: ZB-624 ID: 0.18(mm) Calib End Date: 10/02/2013 00:15

Lab File ID: 1118-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Hexachlorobutadiene	Ave	0.5807	0.5401		46.5	50.0	-7.0	20.0
1,2,3-Trichlorobenzene	Ave	0.7933	0.7551		47.6	50.0	-4.8	20.0

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-02.D
Lims ID: ccvis Lab Sample ID:
Client ID:
Sample Type: CCVIS
Inject. Date: 18-Nov-2013 11:07:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 490-0028621-002
Operator ID: MJH HP35 Instrument ID: HP35
Sublist: chrom-8260HP35*sub12

Method: \\Nvlchrom\ChromData\HP35\20131118-28621.b\8260HP35.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 19-Nov-2013 18:22:13 Calib Date: 02-Oct-2013 00:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D

Column 1 : Detector MS SCAN
Process Host: XAWRK006

First Level Reviewer: himelickm Date: 19-Nov-2013 18:22:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.138	4.138	0.0	98	853430	25.0	
* 2 Chlorobenzene-d5	117	6.529	6.529	0.0	83	607886	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.676	8.676	0.0	86	389699	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.700	3.700	0.0	70	198989	24.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.937	3.937	0.0	91	196512	24.5	
$ 6 Toluene-d8 (Surr)	98	5.306	5.306	0.0	82	829742	26.9	
$ 7 4-Bromofluorobenzene (Surr)	95	7.587	7.587	0.0	96	301790	23.5	
9 Dichlorodifluoromethane	85	1.382	1.382	0.0	88	445523	56.2	
10 Chloromethane	50	1.510	1.510	0.0	89	313696	31.6	
11 Vinyl chloride	62	1.577	1.577	0.0	82	486456	53.0	
12 Butadiene	54	1.595	1.595	0.0	0	438330	50.6	
13 Bromomethane	96	1.790	1.790	0.0	90	190139	42.5	
14 Chloroethane	64	1.844	1.844	0.0	95	295930	53.3	
15 Dichlorofluoromethane	67	1.966	1.966	0.0	79	714775	56.8	
16 Trichlorofluoromethane	101	1.996	1.996	0.0	87	644168	56.9	
18 Ethanol	45	2.161	2.161	0.0	75	277608	2409.2	
17 Ethyl ether	59	2.161	2.161	0.0	93	257390	52.2	
19 Acrolein	56	2.270	2.270	0.0	95	64752	94.1	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.282	2.282	0.0	88	389502	55.4	
21 1,1-Dichloroethene	96	2.307	2.307	0.0	87	372749	56.7	
22 Acetone	58	2.368	2.368	0.0	100	89299	246.4	
23 Iodomethane	142	2.422	2.422	0.0	98	286446	31.1	
25 Isopropyl alcohol	45	2.447	2.447	0.0	97	94940	430.5	
26 Carbon disulfide	76	2.459	2.459	0.0	100	1228021	58.3	
28 Acetonitrile	41	2.526	2.526	0.0	76	844533	548.5	
27 3-Chloro-1-propene	76	2.526	2.526	0.0	89	297029	43.1	
29 Methyl acetate	43	2.538	2.538	0.0	98	828011	210.0	
30 Methylene Chloride	84	2.605	2.605	0.0	91	412145	55.3	
31 2-Methyl-2-propanol	59	2.684	2.684	0.0	97	134568	409.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
32 Methyl tert-butyl ether	73	2.745	2.745	0.0	90	749321	48.0	
33 trans-1,2-Dichloroethene	61	2.757	2.757	0.0	95	577692	56.1	
34 Acrylonitrile	53	2.775	2.775	0.0	97	783859	489.6	
35 Hexane	57	2.879	2.879	0.0	93	613003	53.3	
36 Isopropyl ether	45	3.012	3.012	0.0	90	1233894	52.2	
37 1,1-Dichloroethane	63	3.025	3.025	0.0	84	801767	57.7	
38 Vinyl acetate	43	3.031	3.031	0.0	97	1609586	103.1	
39 2-Chloro-1,3-butadiene	53	3.061	3.061	0.0	87	606715	50.9	
40 Tert-butyl ethyl ether	59	3.237	3.237	0.0	94	955155	45.1	
42 2,2-Dichloropropane	77	3.371	3.371	0.0	90	630320	57.8	
43 cis-1,2-Dichloroethene	61	3.390	3.390	0.0	70	753941	58.5	
44 2-Butanone (MEK)	72	3.408	3.408	0.0	96	117631	243.9	
41 Ethyl acetate	43	3.408	3.408	0.0	95	805929	114.9	
45 Propionitrile	54	3.475	3.475	0.0	99	298101	499.3	
46 Methacrylonitrile	41	3.548	3.548	0.0	93	1341197	443.8	
47 Chlorobromomethane	130	3.554	3.554	0.0	74	228152	51.7	
48 Chloroform	83	3.590	3.590	0.0	80	682830	51.9	
49 Tetrahydrofuran	42	3.596	3.596	0.0	73	125740	74.8	
51 1,1,1-Trichloroethane	97	3.700	3.700	0.0	93	598898	53.7	
52 Cyclohexane	56	3.718	3.718	0.0	92	750474	52.1	
53 1,1-Dichloropropene	75	3.803	3.803	0.0	93	547061	53.5	
54 Carbon tetrachloride	117	3.803	3.803	0.0	77	530214	51.4	
55 Isobutyl alcohol	43	3.907	3.907	0.0	93	188645	465.7	
57 Benzene	78	3.955	3.955	0.0	96	1715445	51.0	
58 1,2-Dichloroethane	62	3.986	3.986	0.0	82	466102	51.3	
59 Tert-amyl methyl ether	73	3.998	3.998	0.0	96	836009	48.0	
60 n-Heptane	43	4.053	4.053	0.0	92	581664	47.9	
61 n-Butanol	56	4.375	4.375	0.0	91	104576	1057.4	
62 Trichloroethene	130	4.393	4.393	0.0	94	457190	52.1	
63 Ethyl acrylate	55	4.503	4.503	0.0	0	598091	48.4	
64 Methylcyclohexane	83	4.503	4.503	0.0	90	699030	50.3	
65 1,2-Dichloropropane	63	4.576	4.576	0.0	94	450902	56.3	
67 Methyl methacrylate	41	4.624	4.624	0.0	90	451472	87.7	
68 Dibromomethane	93	4.685	4.685	0.0	84	187541	49.2	
69 1,4-Dioxane	88	4.697	4.697	0.0	91	34525	930.5	
70 Dichlorobromomethane	83	4.783	4.783	0.0	94	549252	55.5	
71 2-Nitropropane	43	4.977	4.977	0.0	99	200287	82.3	
72 2-Chloroethyl vinyl ether	63	4.983	4.983	0.0	89	133058	49.6	
73 cis-1,3-Dichloropropene	75	5.111	5.111	0.0	91	593576	56.0	
74 4-Methyl-2-pentanone (MIBK)	58	5.221	5.221	0.0	97	382589	244.6	
75 Toluene	91	5.354	5.354	0.0	93	1762259	57.7	
76 trans-1,3-Dichloropropene	75	5.555	5.555	0.0	89	448408	53.0	
77 Ethyl methacrylate	69	5.586	5.586	0.0	88	317822	48.6	
78 1,1,2-Trichloroethane	97	5.720	5.720	0.0	87	277297	53.6	
79 Tetrachloroethene	166	5.799	5.799	0.0	92	514735	60.0	
80 1,3-Dichloropropane	76	5.853	5.853	0.0	87	486957	52.0	
81 2-Hexanone	58	5.902	5.902	0.0	96	340156	235.7	
82 n-Butyl acetate	43	5.975	5.975	0.0	98	274732	67.9	
83 Chlorodibromomethane	127	6.054	6.054	0.0	88	268118	60.8	
84 Ethylene Dibromide	107	6.158	6.158	0.0	98	253414	52.2	
86 Chlorobenzene	112	6.553	6.553	0.0	94	1176434	60.4	
87 Ethylbenzene	91	6.620	6.620	0.0	99	1943967	56.1	

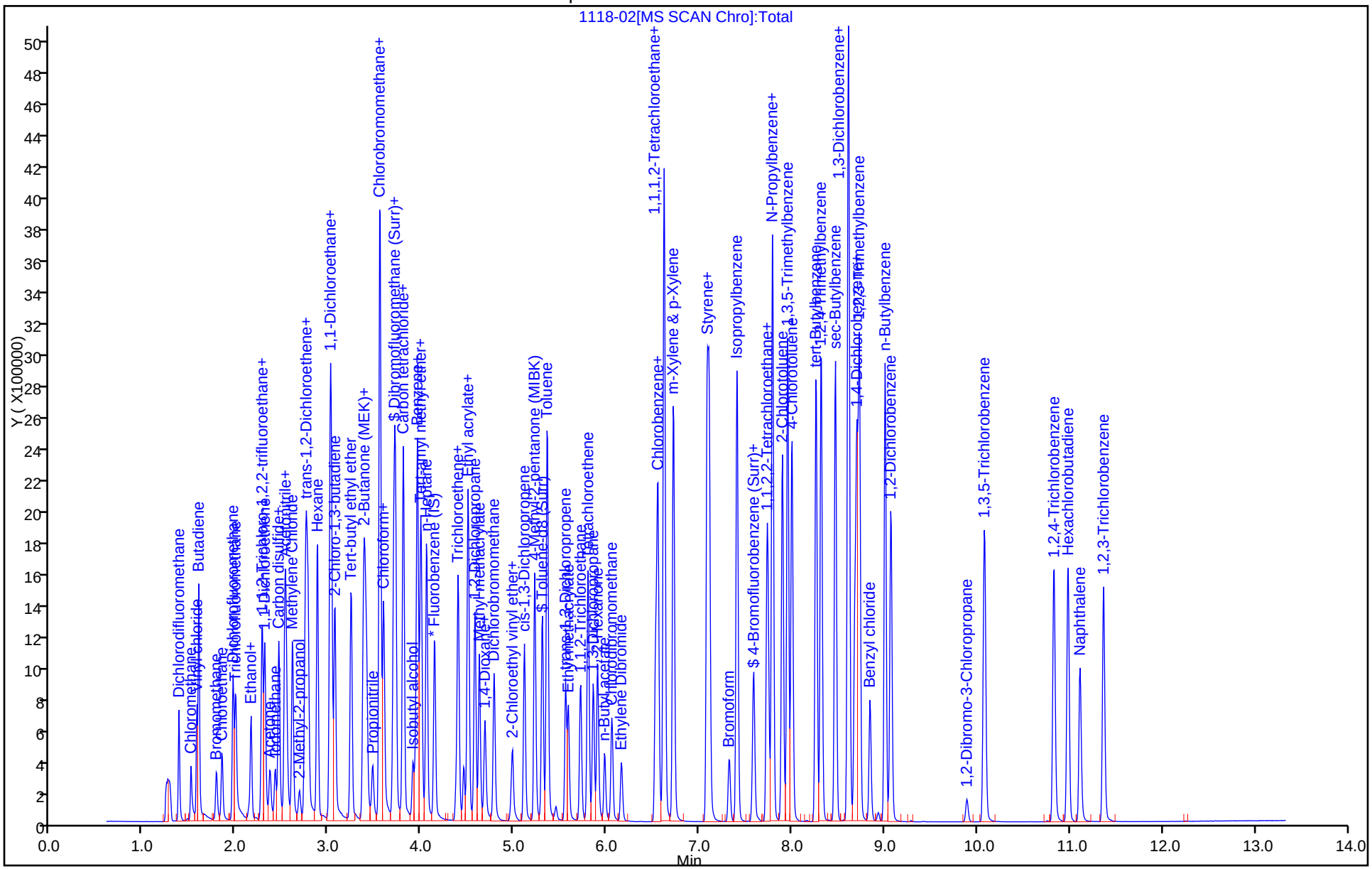
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
88 1,1,1,2-Tetrachloroethane	131	6.620	6.620	0.0	87	420533	60.9	
89 m-Xylene & p-Xylene	91	6.717	6.717	0.0	99	1542218	56.0	
90 o-Xylene	91	7.082	7.082	0.0	96	1535813	54.8	
91 Styrene	104	7.107	7.107	0.0	95	1284312	58.0	
92 Bromoform	173	7.319	7.319	0.0	98	203237	55.2	
93 Isopropylbenzene	105	7.405	7.405	0.0	96	1933992	56.7	
94 Cyclohexanone	55	7.575	7.575	0.0	89	52395	416.7	
95 Bromobenzene	77	7.727	7.727	0.0	92	714675	52.7	
96 1,1,2,2-Tetrachloroethane	83	7.745	7.745	0.0	85	298397	48.6	
97 1,2,3-Trichloropropane	110	7.782	7.782	0.0	80	87220	51.6	
98 trans-1,4-Dichloro-2-butene	53	7.788	7.788	0.0	31	77211	62.5	
99 N-Propylbenzene	91	7.788	7.788	0.0	97	2301690	53.3	
100 2-Chlorotoluene	91	7.897	7.897	0.0	97	1341562	55.4	
101 1,3,5-Trimethylbenzene	105	7.952	7.952	0.0	75	1674573	55.9	
102 4-Chlorotoluene	91	8.001	8.001	0.0	96	1467080	54.1	
103 tert-Butylbenzene	119	8.262	8.262	0.0	89	1446366	55.9	
104 1,2,4-Trimethylbenzene	105	8.317	8.317	0.0	90	1723004	56.6	
106 sec-Butylbenzene	105	8.469	8.469	0.0	94	2070023	53.8	
107 4-Isopropyltoluene	119	8.603	8.603	0.0	94	1889038	58.1	
108 1,3-Dichlorobenzene	146	8.615	8.615	0.0	98	1046559	50.3	
109 1,4-Dichlorobenzene	146	8.700	8.700	0.0	94	1044446	55.6	
110 1,2,3-Trimethylbenzene	105	8.725	8.725	0.0	0	1712458	51.6	
111 Benzyl chloride	91	8.840	8.840	0.0	98	585498	62.8	
112 n-Butylbenzene	91	9.005	9.005	0.0	94	1620998	54.3	
113 1,2-Dichlorobenzene	146	9.065	9.065	0.0	97	927081	50.9	
114 1,2-Dibromo-3-Chloropropane	157	9.887	9.887	0.0	75	53889	43.5	
115 1,3,5-Trichlorobenzene	180	10.075	10.075	0.0	94	842161	49.2	
116 1,2,4-Trichlorobenzene	180	10.830	10.830	0.0	90	683307	47.7	
117 Hexachlorobutadiene	225	10.982	10.982	0.0	90	420983	46.5	
118 Naphthalene	128	11.109	11.109	0.0	97	947787	49.7	
119 1,2,3-Trichlorobenzene	180	11.365	11.365	0.0	95	588492	47.6	
S 132 1,2-Dichloroethene, Total	1				0		114.6	
S 131 Xylenes, Total	1				0		110.8	

Report Date: 19-Nov-2013 18:22:14 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-02.D

Injection Date:	18-Nov-2013 11:07:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	ccvis	Lab Sample ID:		Worklist Smp#:	2
Client ID:					
Purge Vol:	10.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260HP35	Limit Group:	MSV 8260B ICAL		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Lab Sample ID: CCVIS 490-122748/2 Calibration Date: 11/18/2013 11:07

Instrument ID: HP35 Calib Start Date: 11/14/2013 14:57

GC Column: ZB-624 ID: 0.18(mm) Calib End Date: 11/14/2013 19:08

Lab File ID: 1118-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Lin1		0.0033		2409	2500	-3.6	40.0
tert-Butyl alcohol (TBA)	Ave	0.0120	0.0079		410	500	-34.5	40.0
Methyl tert-butyl ether	Ave	0.4298	0.4390		48.0	50.0	2.1	20.0
Diisopropyl ether	Ave	0.7368	0.7229		52.2	50.0	-1.9	20.0
Ethyl tert-butyl ether	Ave	0.5506	0.5596		45.1	50.0	1.6	20.0
Benzene	Ave	1.033	1.005		51.1	50.0	-2.7	20.0
1,2-Dichloroethane	Ave	0.2850	0.2731		51.3	50.0	-4.2	20.0
Tert-amyl methyl ether	Ave	0.5005	0.4898		48.0	50.0	-2.1	20.0
Toluene	Ave	1.536	1.450		57.7	50.0	-5.6	20.0
1,2-Dibromoethane (EDB)	Lin2		0.2084		52.2	50.0	4.3	20.0
Ethylbenzene	Lin1		1.599		56.1	50.0	12.1	20.0
m,p-Xylene	Lin1		1.269		56.0	50.0	12.0	20.0
o-Xylene	Lin1		1.263		54.8	50.0	9.6	20.0
Isopropylbenzene	Lin1		1.591		56.7	50.0	13.4	20.0
N-Propylbenzene	Lin1		2.953		53.3	50.0	6.6	20.0
1,3,5-Trimethylbenzene	Lin1		2.149		55.9	50.0	11.7	20.0
tert-Butylbenzene	Lin1		1.856		55.9	50.0	11.9	20.0
1,2,4-Trimethylbenzene	Lin1		2.211		56.6	50.0	13.1	20.0
sec-Butylbenzene	Lin1		2.656		53.8	50.0	7.7	20.0
p-Isopropyltoluene	Lin1		2.424		58.1	50.0	16.1	20.0
n-Butylbenzene	Lin1		2.080		54.3	50.0	8.6	20.0
Naphthalene	Lin1		1.216		49.8	50.0	-0.5	20.0
Dibromofluoromethane (Surr)	Ave	0.2340	0.2332		24.7	25.0	-0.3	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2404	0.2303		24.5	25.0	-4.2	30.0
Toluene-d8 (Surr)	Ave	1.366	1.365		26.9	25.0	-0.1	30.0
4-Bromofluorobenzene (Surr)	Ave	0.7525	0.7744		23.5	25.0	2.9	30.0

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-02.D
Lims ID: ccvis Lab Sample ID:
Client ID:
Sample Type: CCVIS
Inject. Date: 18-Nov-2013 11:07:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 490-0028621-002
Operator ID: MJH HP35 Instrument ID: HP35
Sublist: chrom-8260HP35*sub12

Method: \\Nvlchrom\ChromData\HP35\20131118-28621.b\8260HP35.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 19-Nov-2013 18:22:13 Calib Date: 02-Oct-2013 00:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D

Column 1 : Detector MS SCAN
Process Host: XAWRK006

First Level Reviewer: himelickm Date: 19-Nov-2013 18:22:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.138	4.138	0.0	98	853430	25.0	
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36 Isopropyl ether	45	3.012	3.012	0.0	90	1233894	52.2	
37 1,1-Dichloroethane	63	3.025	3.025	0.0	84	801767	57.7	
38 Vinyl acetate	43	3.031	3.031	0.0	97	1609586	103.1	
39 2-Chloro-1,3-butadiene	53	3.061	3.061	0.0	87	606715	50.9	
40 Tert-butyl ethyl ether	59	3.237	3.237	0.0	94	955155	45.1	
42 2,2-Dichloropropane	77	3.371	3.371	0.0	90	630320	57.8	
43 cis-1,2-Dichloroethene	61	3.390	3.390	0.0	70	753941	58.5	
44 2-Butanone (MEK)	72	3.408	3.408	0.0	96	117631	243.9	
41 Ethyl acetate	43	3.408	3.408	0.0	95	805929	114.9	
45 Propionitrile	54	3.475	3.475	0.0	99	298101	499.3	
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53 1,1-Dichloropropene	75	3.803	3.803	0.0	93	547061	53.5	
54 Carbon tetrachloride	117	3.803	3.803	0.0	77	530214	51.4	
55 Isobutyl alcohol	43	3.907	3.907	0.0	93	188645	465.7	
57 Benzene	78	3.955	3.955	0.0	96	1715445	51.0	
58 1,2-Dichloroethane	62	3.986	3.986	0.0	82	466102	51.3	
59 Tert-amyl methyl ether	73	3.998	3.998	0.0	96	836009	48.0	
60 n-Heptane	43	4.053	4.053	0.0	92	581664	47.9	
61 n-Butanol	56	4.375	4.375	0.0	91	104576	1057.4	
62 Trichloroethene	130	4.393	4.393	0.0	94	457190	52.1	
63 Ethyl acrylate	55	4.503	4.503	0.0	0	598091	48.4	
64 Methylcyclohexane	83	4.503	4.503	0.0	90	699030	50.3	
65 1,2-Dichloropropane	63	4.576	4.576	0.0	94	450902	56.3	
67 Methyl methacrylate	41	4.624	4.624	0.0	90	451472	87.7	
68 Dibromomethane	93	4.685	4.685	0.0	84	187541	49.2	
69 1,4-Dioxane	88	4.697	4.697	0.0	91	34525	930.5	
70 Dichlorobromomethane	83	4.783	4.783	0.0	94	549252	55.5	
71 2-Nitropropane	43	4.977	4.977	0.0	99	200287	82.3	
72 2-Chloroethyl vinyl ether	63	4.983	4.983	0.0	89	133058	49.6	
73 cis-1,3-Dichloropropene	75	5.111	5.111	0.0	91	593576	56.0	
74 4-Methyl-2-pentanone (MIBK)	58	5.221	5.221	0.0	97	382589	244.6	
75 Toluene	91	5.354	5.354	0.0	93	1762259	57.7	
76 trans-1,3-Dichloropropene	75	5.555	5.555	0.0	89	448408	53.0	
77 Ethyl methacrylate	69	5.586	5.586	0.0	88	317822	48.6	
78 1,1,2-Trichloroethane	97	5.720	5.720	0.0	87	277297	53.6	
79 Tetrachloroethene	166	5.799	5.799	0.0	92	514735	60.0	
80 1,3-Dichloropropane	76	5.853	5.853	0.0	87	486957	52.0	
81 2-Hexanone	58	5.902	5.902	0.0	96	340156	235.7	
82 n-Butyl acetate	43	5.975	5.975	0.0	98	274732	67.9	
83 Chlorodibromomethane	127	6.054	6.054	0.0	88	268118	60.8	
84 Ethylene Dibromide	107	6.158	6.158	0.0	98	253414	52.2	
86 Chlorobenzene	112	6.553	6.553	0.0	94	1176434	60.4	
87 Ethylbenzene	91	6.620	6.620	0.0	99	1943967	56.1	

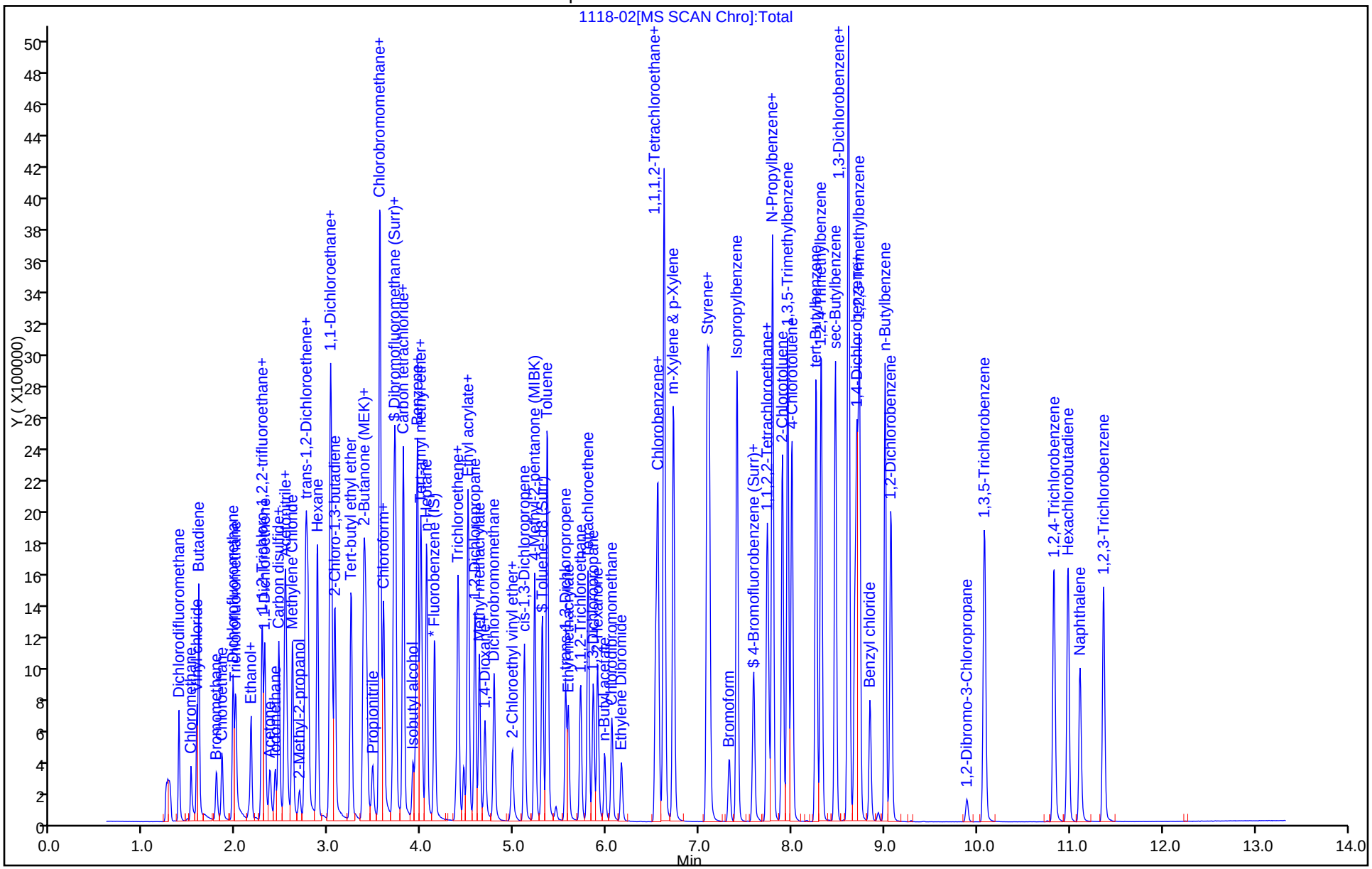
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
88 1,1,1,2-Tetrachloroethane	131	6.620	6.620	0.0	87	420533	60.9	
89 m-Xylene & p-Xylene	91	6.717	6.717	0.0	99	1542218	56.0	
90 o-Xylene	91	7.082	7.082	0.0	96	1535813	54.8	
91 Styrene	104	7.107	7.107	0.0	95	1284312	58.0	
92 Bromoform	173	7.319	7.319	0.0	98	203237	55.2	
93 Isopropylbenzene	105	7.405	7.405	0.0	96	1933992	56.7	
94 Cyclohexanone	55	7.575	7.575	0.0	89	52395	416.7	
95 Bromobenzene	77	7.727	7.727	0.0	92	714675	52.7	
96 1,1,2,2-Tetrachloroethane	83	7.745	7.745	0.0	85	298397	48.6	
97 1,2,3-Trichloropropane	110	7.782	7.782	0.0	80	87220	51.6	
98 trans-1,4-Dichloro-2-butene	53	7.788	7.788	0.0	31	77211	62.5	
99 N-Propylbenzene	91	7.788	7.788	0.0	97	2301690	53.3	
100 2-Chlorotoluene	91	7.897	7.897	0.0	97	1341562	55.4	
101 1,3,5-Trimethylbenzene	105	7.952	7.952	0.0	75	1674573	55.9	
102 4-Chlorotoluene	91	8.001	8.001	0.0	96	1467080	54.1	
103 tert-Butylbenzene	119	8.262	8.262	0.0	89	1446366	55.9	
104 1,2,4-Trimethylbenzene	105	8.317	8.317	0.0	90	1723004	56.6	
106 sec-Butylbenzene	105	8.469	8.469	0.0	94	2070023	53.8	
107 4-Isopropyltoluene	119	8.603	8.603	0.0	94	1889038	58.1	
108 1,3-Dichlorobenzene	146	8.615	8.615	0.0	98	1046559	50.3	
109 1,4-Dichlorobenzene	146	8.700	8.700	0.0	94	1044446	55.6	
110 1,2,3-Trimethylbenzene	105	8.725	8.725	0.0	0	1712458	51.6	
111 Benzyl chloride	91	8.840	8.840	0.0	98	585498	62.8	
112 n-Butylbenzene	91	9.005	9.005	0.0	94	1620998	54.3	
113 1,2-Dichlorobenzene	146	9.065	9.065	0.0	97	927081	50.9	
114 1,2-Dibromo-3-Chloropropane	157	9.887	9.887	0.0	75	53889	43.5	
115 1,3,5-Trichlorobenzene	180	10.075	10.075	0.0	94	842161	49.2	
116 1,2,4-Trichlorobenzene	180	10.830	10.830	0.0	90	683307	47.7	
117 Hexachlorobutadiene	225	10.982	10.982	0.0	90	420983	46.5	
118 Naphthalene	128	11.109	11.109	0.0	97	947787	49.7	
119 1,2,3-Trichlorobenzene	180	11.365	11.365	0.0	95	588492	47.6	
S 132 1,2-Dichloroethene, Total	1				0		114.6	
S 131 Xylenes, Total	1				0		110.8	

Report Date: 19-Nov-2013 18:22:14 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-02.D

Injection Date:	18-Nov-2013 11:07:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	ccvis	Lab Sample ID:		Worklist Smp#:	2
Client ID:					
Purge Vol:	10.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260HP35	Limit Group:	MSV 8260B ICAL		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Lab Sample ID: CCVIS 490-123017/2 Calibration Date: 11/19/2013 11:47

Instrument ID: HP35 Calib Start Date: 10/01/2013 19:38

GC Column: ZB-624 ID: 0.18(mm) Calib End Date: 10/02/2013 00:15

Lab File ID: 1119-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2321	0.2658		57.3	50.0	14.5	20.0
Chloromethane	Lin1		0.2255	0.1000	39.0	50.0	-22.1*	20.0
Vinyl chloride	Ave	0.2687	0.2903		54.0	50.0	8.0	20.0
Butadiene	Ave	0.2539	0.2673		52.6	50.0	5.3	20.0
Bromomethane	Lin1		0.1059		40.4	50.0	-19.2	20.0
Chloroethane	Lin2		0.1797		55.3	50.0	10.6	20.0
Dichlorofluoromethane	Lin2		0.4068		55.2	50.0	10.3	20.0
Trichlorofluoromethane	Ave	0.3315	0.3737		56.4	50.0	12.7	20.0
Diethyl ether	Lin2		0.1448		50.1	50.0	0.3	20.0
Acrolein	Ave	0.0202	0.0150		92.9	125	-25.7	40.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.2060	0.2187		53.1	50.0	6.2	20.0
1,1-Dichloroethene	Lin2		0.2141		55.6	50.0	11.1	20.0
Acetone	Lin2		0.0101		238	250	-4.9	20.0
Iodomethane	Ave	0.2702	0.1741		32.2	50.0	-35.5*	20.0
Isopropyl alcohol	Lin2		0.0055		422	500	-15.6	20.0
Carbon disulfide	Lin2		0.6813		55.2	50.0	10.4	20.0
3-Chloro-1-propene	Ave	0.2020	0.1948		48.2	50.0	-3.6	20.0
Acetonitrile	Lin1		0.0489		542	500	8.4	20.0
Methyl acetate	Lin2		0.0908		197	250	-21.4*	20.0
Methylene Chloride	Lin1		0.2341		53.6	50.0	7.2	20.0
trans-1,2-Dichloroethene	Lin2		0.3250		53.8	50.0	7.6	20.0
Acrylonitrile	Ave	0.0469	0.0441		470	500	-6.1	20.0
Hexane	Ave	0.3367	0.3551		52.7	50.0	5.5	20.0
1,1-Dichloroethane	Lin1		0.4510	0.1000	55.4	50.0	10.7	20.0
Vinyl acetate	Lin1		0.4589		100	100	0.3	40.0
Chloroprene	Lin2		0.3572		51.2	50.0	2.4	20.0
2,2-Dichloropropane	Lin2		0.3596		56.2	50.0	12.5	20.0
cis-1,2-Dichloroethene	Lin1		0.4308		57.1	50.0	14.1	20.0
2-Butanone (MEK)	Ave	0.0141	0.0137		243	250	-2.9	20.0
Ethyl acetate	Ave	0.2055	0.2304		112	100	12.1	20.0
Propionitrile	Ave	0.0175	0.0166		474	500	-5.2	20.0
Methacrylonitrile	Ave	0.0885	0.0740		418	500	-16.5	20.0
Bromochloromethane	Lin2		0.1263		48.8	50.0	-2.3	20.0
Chloroform	Lin2		0.3895		50.5	50.0	1.0	20.0
Tetrahydrofuran	Lin1		0.0356		72.3	100	-27.7*	20.0
1,1,1-Trichloroethane	Lin2		0.3373		51.6	50.0	3.3	20.0
Cyclohexane	Ave	0.4223	0.4444		52.6	50.0	5.2	20.0
1,1-Dichloropropene	Lin2		0.3237		54.1	50.0	8.2	20.0
Carbon tetrachloride	Ave	0.3021	0.2992		49.5	50.0	-1.0	20.0
Isobutanol	Lin2		0.0113		476	500	-4.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Lab Sample ID: CCVIS 490-123017/2 Calibration Date: 11/19/2013 11:47

Instrument ID: HP35 Calib Start Date: 10/01/2013 19:38

GC Column: ZB-624 ID: 0.18(mm) Calib End Date: 10/02/2013 00:15

Lab File ID: 1119-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Heptane	Ave	0.3556	0.3532		49.7	50.0	-0.7	20.0
n-Butanol	Lin1		0.0027		1152	1250	-7.8	20.0
Trichloroethene	Ave	0.2569	0.2570		50.0	50.0	0.0	20.0
Ethyl acrylate	Ave	0.3621	0.3501		48.3	50.0	-3.3	20.0
Methylcyclohexane	Ave	0.4072	0.4107		50.4	50.0	0.9	20.0
1,2-Dichloropropane	Lin1		0.2557		54.4	50.0	8.9	20.0
Methyl methacrylate	Ave	0.1509	0.1296		85.9	100	-14.1	20.0
Dibromomethane	Ave	0.1116	0.1031		46.2	50.0	-7.6	20.0
1,4-Dioxane	Ave	0.0011	0.0011		999	1000	-0.1	20.0
Bromodichloromethane	Lin2		0.2958		51.0	50.0	2.0	20.0
2-Nitropropane	Lin1		0.0663		92.8	100	-7.2	20.0
2-Chloroethyl vinyl ether	Lin1		0.1247		56.5	50.0	12.9	20.0
cis-1,3-Dichloropropene	Lin2		0.5072		58.2	50.0	16.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0643	0.0659		256	250	2.4	20.0
trans-1,3-Dichloropropene	Ave	0.3482	0.3783		54.3	50.0	8.6	20.0
Ethyl methacrylate	Ave	0.2689	0.2757		51.3	50.0	2.6	20.0
1,1,2-Trichloroethane	Ave	0.2129	0.2188		51.4	50.0	2.8	20.0
Tetrachloroethene	Lin2		0.4139		58.6	50.0	17.3	20.0
1,3-Dichloropropane	Ave	0.3850	0.3963		51.5	50.0	2.9	20.0
2-Hexanone	Ave	0.0593	0.0558		235	250	-5.9	20.0
n-Butyl acetate	Lin1		0.1781		75.1	50.0	50.3*	20.0
Chlorodibromomethane	Ave	0.1815	0.2075		57.2	50.0	14.3	20.0
Chlorobenzene	Lin2		0.9312	0.3000	58.1	50.0	16.3	20.0
1,1,1,2-Tetrachloroethane	Lin2		0.3276		57.7	50.0	15.3	20.0
Styrene	Lin2		1.003		55.0	50.0	10.0	20.0
Bromoform	Lin1		0.1595	0.1000	52.7	50.0	5.5	20.0
Cyclohexanone	Lin1		0.0032		430	500	-14.1	20.0
Bromobenzene	Lin2		0.9607		55.3	50.0	10.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.3936	0.3935	0.3000	50.0	50.0	-0.0	20.0
1,2,3-Trichloropropane	Ave	0.1084	0.1139		52.5	50.0	5.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.0793	0.1064		67.1	50.0	34.2*	20.0
2-Chlorotoluene	Lin2		1.852		59.7	50.0	19.3	20.0
4-Chlorotoluene	Lin2		1.969		56.6	50.0	13.1	20.0
1,3-Dichlorobenzene	Ave	1.336	1.376		51.5	50.0	3.0	20.0
1,4-Dichlorobenzene	Lin2		1.359		56.4	50.0	12.7	20.0
1,2,3-Trimethylbenzene	Ave	2.128	2.250		52.9	50.0	5.7	20.0
Benzyl chloride	Lin2		0.4478		58.4	50.0	16.9	20.0
1,2-Dichlorobenzene	Ave	1.169	1.213		51.9	50.0	3.7	20.0
1,2-Dibromo-3-Chloropropane	Lin1		0.0713		44.8	50.0	-10.5	20.0
1,3,5-Trichlorobenzene	Ave	1.097	1.137		51.8	50.0	3.6	20.0
1,2,4-Trichlorobenzene	Ave	0.9198	0.9445		51.3	50.0	2.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Lab Sample ID: CCVIS 490-123017/2 Calibration Date: 11/19/2013 11:47

Instrument ID: HP35 Calib Start Date: 10/01/2013 19:38

GC Column: ZB-624 ID: 0.18(mm) Calib End Date: 10/02/2013 00:15

Lab File ID: 1119-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Hexachlorobutadiene	Ave	0.5807	0.5734		49.4	50.0	-1.2	20.0
1,2,3-Trichlorobenzene	Ave	0.7933	0.7856		49.5	50.0	-1.0	20.0

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131119-28678.b\1119-02.D
Lims ID: ccvis Lab Sample ID:
Client ID:
Sample Type: CCVIS
Inject. Date: 19-Nov-2013 11:47:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 490-0028678-002
Operator ID: MJH HP35 Instrument ID: HP35
Sublist: chrom-8260HP35*sub12

Method: \\Nvlchrom\ChromData\HP35\20131119-28678.b\8260HP35.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 20-Nov-2013 10:00:18 Calib Date: 02-Oct-2013 00:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D

Column 1 : Detector MS SCAN
Process Host: XAWRK040

First Level Reviewer: haleyj Date: 20-Nov-2013 10:00:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.146	4.146	0.0	99	1056297	25.0	
* 2 Chlorobenzene-d5	117	6.530	6.530	0.0	85	757717	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.678	8.678	0.0	87	427382	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.702	3.702	0.0	72	238572	23.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.939	3.939	0.0	86	229778	23.2	
$ 6 Toluene-d8 (Surr)	98	5.308	5.308	0.0	91	1019072	26.5	
$ 7 4-Bromofluorobenzene (Surr)	95	7.589	7.589	0.0	95	362753	25.8	
9 Dichlorodifluoromethane	85	1.384	1.384	0.0	88	561421	57.3	
10 Chloromethane	50	1.512	1.512	0.0	89	476328	39.0	
11 Vinyl chloride	62	1.579	1.579	0.0	79	613173	54.0	
12 Butadiene	54	1.597	1.597	0.0	0	564612	52.6	
13 Bromomethane	96	1.785	1.785	0.0	90	223612	40.4	
14 Chloroethane	64	1.846	1.846	0.0	95	379651	55.3	
15 Dichlorofluoromethane	67	1.968	1.968	0.0	83	859412	55.2	
16 Trichlorofluoromethane	101	1.998	1.998	0.0	87	789536	56.4	
17 Ethyl ether	59	2.163	2.163	0.0	90	305992	50.1	
18 Ethanol	45	2.205	2.205	0.0	1	15676	96.1	
19 Acrolein	56	2.272	2.272	0.0	97	79124	92.9	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.284	2.284	0.0	84	461956	53.1	
21 1,1-Dichloroethene	96	2.309	2.309	0.0	88	452348	55.6	
22 Acetone	58	2.363	2.363	0.0	100	106621	237.7	
23 Iodomethane	142	2.424	2.424	0.0	97	367863	32.2	
25 Isopropyl alcohol	45	2.448	2.448	0.0	96	115216	422.1	
26 Carbon disulfide	76	2.461	2.461	0.0	99	1439302	55.2	
28 Acetonitrile	41	2.528	2.528	0.0	77	1032813	541.9	
27 3-Chloro-1-propene	76	2.528	2.528	0.0	88	411527	48.2	
29 Methyl acetate	43	2.540	2.540	0.0	98	959562	196.6	
30 Methylene Chloride	84	2.613	2.613	0.0	91	494443	53.6	
31 2-Methyl-2-propanol	59	2.680	2.680	0.0	98	182494	449.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
32 Methyl tert-butyl ether	73	2.747	2.747	0.0	90	923679	47.8	
33 trans-1,2-Dichloroethene	61	2.759	2.759	0.0	94	686505	53.8	
34 Acrylonitrile	53	2.777	2.777	0.0	97	930776	469.7	
35 Hexane	57	2.880	2.880	0.0	93	750245	52.7	
36 Isopropyl ether	45	3.014	3.014	0.0	90	1520671	52.0	
37 1,1-Dichloroethane	63	3.026	3.026	0.0	84	952733	55.3	
38 Vinyl acetate	43	3.032	3.032	0.0	97	1938937	100.3	
39 2-Chloro-1,3-butadiene	53	3.069	3.069	0.0	87	754680	51.2	
40 Tert-butyl ethyl ether	59	3.239	3.239	0.0	94	1236439	47.2	
42 2,2-Dichloropropane	77	3.373	3.373	0.0	90	759639	56.2	
43 cis-1,2-Dichloroethene	61	3.391	3.391	0.0	71	909991	57.1	
44 2-Butanone (MEK)	72	3.410	3.410	0.0	96	145002	242.9	
41 Ethyl acetate	43	3.410	3.410	0.0	95	973343	112.1	
45 Propionitrile	54	3.477	3.477	0.0	98	350354	474.1	
46 Methacrylonitrile	41	3.550	3.550	0.0	93	1562315	417.7	
47 Chlorobromomethane	130	3.562	3.562	0.0	67	266766	48.8	
48 Chloroform	83	3.592	3.592	0.0	82	822785	50.5	
49 Tetrahydrofuran	42	3.598	3.598	0.0	74	150528	72.3	
51 1,1,1-Trichloroethane	97	3.702	3.702	0.0	90	712467	51.6	
52 Cyclohexane	56	3.720	3.720	0.0	92	938815	52.6	
54 Carbon tetrachloride	117	3.805	3.805	0.0	73	631972	49.5	
53 1,1-Dichloropropene	75	3.805	3.805	0.0	93	683820	54.1	
55 Isobutyl alcohol	43	3.909	3.909	0.0	95	238504	475.9	
57 Benzene	78	3.957	3.957	0.0	96	2037686	49.0	
58 1,2-Dichloroethane	62	3.994	3.994	0.0	79	547231	48.6	
59 Tert-amyl methyl ether	73	4.000	4.000	0.0	97	989640	45.9	
60 n-Heptane	43	4.061	4.061	0.0	93	746080	49.7	
61 n-Butanol	56	4.377	4.377	0.0	88	141065	1151.9	
62 Trichloroethene	130	4.395	4.395	0.0	94	542990	50.0	
64 Methylcyclohexane	83	4.505	4.505	0.0	89	867697	50.4	
63 Ethyl acrylate	55	4.505	4.505	0.0	0	739579	48.3	
65 1,2-Dichloropropane	63	4.578	4.578	0.0	95	540147	54.4	
67 Methyl methacrylate	41	4.626	4.626	0.0	89	547769	85.9	
68 Dibromomethane	93	4.687	4.687	0.0	88	217784	46.2	
69 1,4-Dioxane	88	4.699	4.699	0.0	91	45875	999.0	
70 Dichlorobromomethane	83	4.785	4.785	0.0	93	624906	51.0	
71 2-Nitropropane	43	4.979	4.979	0.0	96	280028	92.8	
72 2-Chloroethyl vinyl ether	63	4.985	4.985	0.0	88	188983	56.5	
73 cis-1,3-Dichloropropene	75	5.113	5.113	0.0	90	768564	58.2	
74 4-Methyl-2-pentanone (MIBK)	58	5.223	5.223	0.0	96	499317	256.1	
75 Toluene	91	5.356	5.356	0.0	93	2158508	56.7	
76 trans-1,3-Dichloropropene	75	5.557	5.557	0.0	89	573270	54.3	
77 Ethyl methacrylate	69	5.588	5.588	0.0	88	417843	51.3	
78 1,1,2-Trichloroethane	97	5.715	5.715	0.0	86	331516	51.4	
79 Tetrachloroethene	166	5.800	5.800	0.0	92	627297	58.6	
80 1,3-Dichloropropane	76	5.855	5.855	0.0	89	600531	51.5	
81 2-Hexanone	58	5.904	5.904	0.0	96	423079	235.2	
82 n-Butyl acetate	43	5.977	5.977	0.0	98	376270	75.1	
83 Chlorodibromomethane	127	6.056	6.056	0.0	87	314470	57.2	
84 Ethylene Dibromide	107	6.159	6.159	0.0	99	310260	51.2	
86 Chlorobenzene	112	6.555	6.555	0.0	94	1411126	58.1	
87 Ethylbenzene	91	6.616	6.616	0.0	99	2308776	53.4	

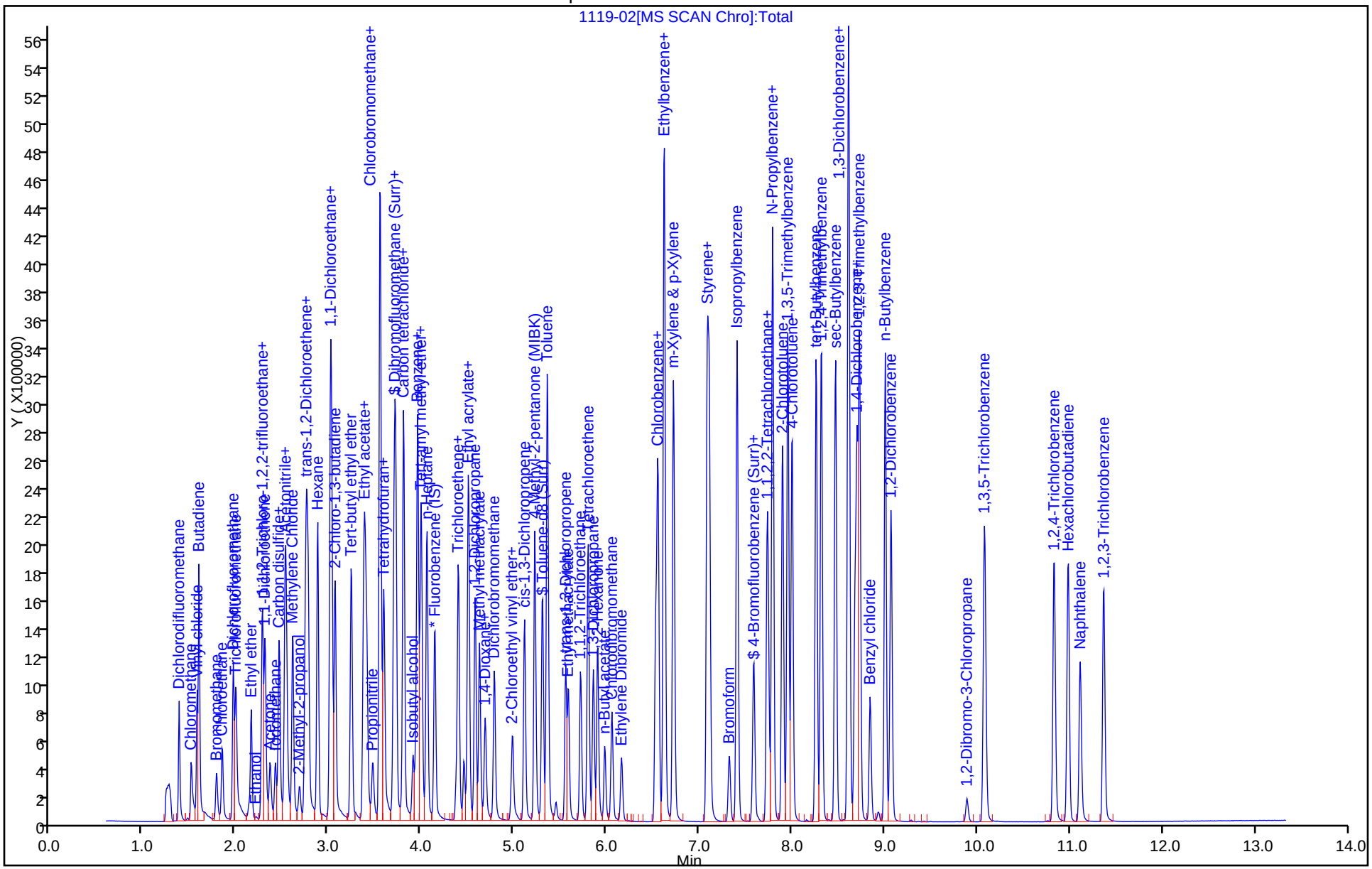
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
88 1,1,1,2-Tetrachloroethane	131	6.622	6.622	0.0	88	496491	57.7	
89 m-Xylene & p-Xylene	91	6.719	6.719	0.0	99	1808062	52.7	
90 o-Xylene	91	7.084	7.084	0.0	96	1814405	51.9	
91 Styrene	104	7.108	7.108	0.0	95	1519300	55.0	
92 Bromoform	173	7.321	7.321	0.0	97	241713	52.7	
93 Isopropylbenzene	105	7.406	7.406	0.0	96	2270966	53.4	
94 Cyclohexanone	55	7.571	7.571	0.0	90	66810	429.5	
95 Bromobenzene	77	7.729	7.729	0.0	91	821134	55.3	
96 1,1,2,2-Tetrachloroethane	83	7.747	7.747	0.0	88	336379	50.0	
97 1,2,3-Trichloropropane	110	7.790	7.790	0.0	59	97343	52.5	
99 N-Propylbenzene	91	7.790	7.790	0.0	97	2651021	56.0	
98 trans-1,4-Dichloro-2-butene	53	7.790	7.790	0.0	31	90916	67.1	
100 2-Chlorotoluene	91	7.899	7.899	0.0	97	1583417	59.6	
101 1,3,5-Trimethylbenzene	105	7.954	7.954	0.0	82	1928018	58.7	
102 4-Chlorotoluene	91	8.003	8.003	0.0	96	1682650	56.6	
103 tert-Butylbenzene	119	8.258	8.258	0.0	91	1672637	59.0	
104 1,2,4-Trimethylbenzene	105	8.319	8.319	0.0	97	1973060	59.1	
106 sec-Butylbenzene	105	8.471	8.471	0.0	94	2369575	56.2	
107 4-Isopropyltoluene	119	8.605	8.605	0.0	96	2151806	60.3	
108 1,3-Dichlorobenzene	146	8.617	8.617	0.0	98	1175744	51.5	
109 1,4-Dichlorobenzene	146	8.702	8.702	0.0	94	1161633	56.4	
110 1,2,3-Trimethylbenzene	105	8.727	8.727	0.0	0	1922842	52.8	
111 Benzyl chloride	91	8.842	8.842	0.0	98	678612	58.4	
112 n-Butylbenzene	91	9.006	9.006	0.0	94	1835336	56.1	
113 1,2-Dichlorobenzene	146	9.067	9.067	0.0	97	1036673	51.9	
114 1,2-Dibromo-3-Chloropropane	157	9.889	9.889	0.0	78	60909	44.7	
115 1,3,5-Trichlorobenzene	180	10.077	10.077	0.0	97	972013	51.8	
116 1,2,4-Trichlorobenzene	180	10.831	10.831	0.0	92	807312	51.3	
117 Hexachlorobutadiene	225	10.984	10.984	0.0	91	490153	49.4	
118 Naphthalene	128	11.111	11.111	0.0	97	1112365	53.2	
119 1,2,3-Trichlorobenzene	180	11.367	11.367	0.0	92	671497	49.5	
S 132 1,2-Dichloroethene, Total	1				0		110.9	
S 131 Xylenes, Total	1				0		104.6	

Report Date: 20-Nov-2013 10:00:19 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131119-28678.b\1119-02.D

Injection Date:	19-Nov-2013 11:47:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	ccvis	Lab Sample ID:		Worklist Smp#:	2
Client ID:					
Purge Vol:	10.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260HP35	Limit Group:	MSV 8260B ICAL		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Lab Sample ID: CCVIS 490-123017/2 Calibration Date: 11/19/2013 11:47

Instrument ID: HP35 Calib Start Date: 11/14/2013 14:57

GC Column: ZB-624 ID: 0.18(mm) Calib End Date: 11/14/2013 19:08

Lab File ID: 1119-02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Lin1		0.0002		96.1	2500	-96.2*	40.0
tert-Butyl alcohol (TBA)	Ave	0.0120	0.0086		449	500	-28.2	40.0
Methyl tert-butyl ether	Ave	0.4298	0.4372		47.8	50.0	1.7	20.0
Diisopropyl ether	Ave	0.7368	0.7198		52.0	50.0	-2.3	20.0
Ethyl tert-butyl ether	Ave	0.5506	0.5853		47.2	50.0	6.3	20.0
Benzene	Ave	1.033	0.9645		49.0	50.0	-6.6	20.0
1,2-Dichloroethane	Ave	0.2850	0.2590		48.6	50.0	-9.1	20.0
Tert-amyl methyl ether	Ave	0.5005	0.4685		45.9	50.0	-6.4	20.0
Toluene	Ave	1.536	1.424		56.7	50.0	-7.3	20.0
1,2-Dibromoethane (EDB)	Lin2		0.2047		51.2	50.0	2.5	20.0
Ethylbenzene	Lin1		1.524		53.4	50.0	6.8	20.0
m,p-Xylene	Lin1		1.193		52.7	50.0	5.3	20.0
o-Xylene	Lin1		1.197		51.9	50.0	3.9	20.0
Isopropylbenzene	Lin1		1.499		53.4	50.0	6.8	20.0
N-Propylbenzene	Lin1		3.101		56.0	50.0	11.9	20.0
1,3,5-Trimethylbenzene	Lin1		2.256		58.7	50.0	17.3	20.0
tert-Butylbenzene	Lin1		1.957		59.0	50.0	18.0	20.0
1,2,4-Trimethylbenzene	Lin1		2.308		59.1	50.0	18.1	20.0
sec-Butylbenzene	Lin1		2.772		56.2	50.0	12.4	20.0
p-Isopropyltoluene	Lin1		2.517		60.3	50.0	20.6*	20.0
n-Butylbenzene	Lin1		2.147		56.1	50.0	12.1	20.0
Naphthalene	Lin1		1.301		53.2	50.0	6.5	20.0
Dibromofluoromethane (Surr)	Ave	0.2340	0.2259		23.9	25.0	-3.5	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2404	0.2175		23.2	25.0	-9.5	30.0
Toluene-d8 (Surr)	Ave	1.366	1.345		26.5	25.0	-1.6	30.0
4-Bromofluorobenzene (Surr)	Ave	0.7525	0.8488		25.8	25.0	12.8	30.0

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131119-28678.b\1119-02.D
Lims ID: ccvis Lab Sample ID:
Client ID:
Sample Type: CCVIS
Inject. Date: 19-Nov-2013 11:47:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 490-0028678-002
Operator ID: MJH HP35 Instrument ID: HP35
Sublist: chrom-8260HP35*sub12

Method: \\Nvlchrom\ChromData\HP35\20131119-28678.b\8260HP35.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 20-Nov-2013 10:00:18 Calib Date: 02-Oct-2013 00:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D

Column 1 : Detector MS SCAN
Process Host: XAWRK040

First Level Reviewer: haleyj Date: 20-Nov-2013 10:00:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.146	4.146	0.0	99	1056297	25.0	
* 2 Chlorobenzene-d5	117	6.530	6.530	0.0	85	757717	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.678	8.678	0.0	87	427382	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.702	3.702	0.0	72	238572	23.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.939	3.939	0.0	86	229778	23.2	
$ 6 Toluene-d8 (Surr)	98	5.308	5.308	0.0	91	1019072	26.5	
$ 7 4-Bromofluorobenzene (Surr)	95	7.589	7.589	0.0	95	362753	25.8	
9 Dichlorodifluoromethane	85	1.384	1.384	0.0	88	561421	57.3	
10 Chloromethane	50	1.512	1.512	0.0	89	476328	39.0	
11 Vinyl chloride	62	1.579	1.579	0.0	79	613173	54.0	
12 Butadiene	54	1.597	1.597	0.0	0	564612	52.6	
13 Bromomethane	96	1.785	1.785	0.0	90	223612	40.4	
14 Chloroethane	64	1.846	1.846	0.0	95	379651	55.3	
15 Dichlorofluoromethane	67	1.968	1.968	0.0	83	859412	55.2	
16 Trichlorofluoromethane	101	1.998	1.998	0.0	87	789536	56.4	
17 Ethyl ether	59	2.163	2.163	0.0	90	305992	50.1	
18 Ethanol	45	2.205	2.205	0.0	1	15676	96.1	
19 Acrolein	56	2.272	2.272	0.0	97	79124	92.9	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.284	2.284	0.0	84	461956	53.1	
21 1,1-Dichloroethene	96	2.309	2.309	0.0	88	452348	55.6	
22 Acetone	58	2.363	2.363	0.0	100	106621	237.7	
23 Iodomethane	142	2.424	2.424	0.0	97	367863	32.2	
25 Isopropyl alcohol	45	2.448	2.448	0.0	96	115216	422.1	
26 Carbon disulfide	76	2.461	2.461	0.0	99	1439302	55.2	
28 Acetonitrile	41	2.528	2.528	0.0	77	1032813	541.9	
27 3-Chloro-1-propene	76	2.528	2.528	0.0	88	411527	48.2	
29 Methyl acetate	43	2.540	2.540	0.0	98	959562	196.6	
30 Methylene Chloride	84	2.613	2.613	0.0	91	494443	53.6	
31 2-Methyl-2-propanol	59	2.680	2.680	0.0	98	182494	449.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
32 Methyl tert-butyl ether	73	2.747	2.747	0.0	90	923679	47.8	
33 trans-1,2-Dichloroethene	61	2.759	2.759	0.0	94	686505	53.8	
34 Acrylonitrile	53	2.777	2.777	0.0	97	930776	469.7	
35 Hexane	57	2.880	2.880	0.0	93	750245	52.7	
36 Isopropyl ether	45	3.014	3.014	0.0	90	1520671	52.0	
37 1,1-Dichloroethane	63	3.026	3.026	0.0	84	952733	55.3	
38 Vinyl acetate	43	3.032	3.032	0.0	97	1938937	100.3	
39 2-Chloro-1,3-butadiene	53	3.069	3.069	0.0	87	754680	51.2	
40 Tert-butyl ethyl ether	59	3.239	3.239	0.0	94	1236439	47.2	
42 2,2-Dichloropropane	77	3.373	3.373	0.0	90	759639	56.2	
43 cis-1,2-Dichloroethene	61	3.391	3.391	0.0	71	909991	57.1	
44 2-Butanone (MEK)	72	3.410	3.410	0.0	96	145002	242.9	
41 Ethyl acetate	43	3.410	3.410	0.0	95	973343	112.1	
45 Propionitrile	54	3.477	3.477	0.0	98	350354	474.1	
46 Methacrylonitrile	41	3.550	3.550	0.0	93	1562315	417.7	
47 Chlorobromomethane	130	3.562	3.562	0.0	67	266766	48.8	
48 Chloroform	83	3.592	3.592	0.0	82	822785	50.5	
49 Tetrahydrofuran	42	3.598	3.598	0.0	74	150528	72.3	
51 1,1,1-Trichloroethane	97	3.702	3.702	0.0	90	712467	51.6	
52 Cyclohexane	56	3.720	3.720	0.0	92	938815	52.6	
54 Carbon tetrachloride	117	3.805	3.805	0.0	73	631972	49.5	
53 1,1-Dichloropropene	75	3.805	3.805	0.0	93	683820	54.1	
55 Isobutyl alcohol	43	3.909	3.909	0.0	95	238504	475.9	
57 Benzene	78	3.957	3.957	0.0	96	2037686	49.0	
58 1,2-Dichloroethane	62	3.994	3.994	0.0	79	547231	48.6	
59 Tert-amyl methyl ether	73	4.000	4.000	0.0	97	989640	45.9	
60 n-Heptane	43	4.061	4.061	0.0	93	746080	49.7	
61 n-Butanol	56	4.377	4.377	0.0	88	141065	1151.9	
62 Trichloroethene	130	4.395	4.395	0.0	94	542990	50.0	
64 Methylcyclohexane	83	4.505	4.505	0.0	89	867697	50.4	
63 Ethyl acrylate	55	4.505	4.505	0.0	0	739579	48.3	
65 1,2-Dichloropropane	63	4.578	4.578	0.0	95	540147	54.4	
67 Methyl methacrylate	41	4.626	4.626	0.0	89	547769	85.9	
68 Dibromomethane	93	4.687	4.687	0.0	88	217784	46.2	
69 1,4-Dioxane	88	4.699	4.699	0.0	91	45875	999.0	
70 Dichlorobromomethane	83	4.785	4.785	0.0	93	624906	51.0	
71 2-Nitropropane	43	4.979	4.979	0.0	96	280028	92.8	
72 2-Chloroethyl vinyl ether	63	4.985	4.985	0.0	88	188983	56.5	
73 cis-1,3-Dichloropropene	75	5.113	5.113	0.0	90	768564	58.2	
74 4-Methyl-2-pentanone (MIBK)	58	5.223	5.223	0.0	96	499317	256.1	
75 Toluene	91	5.356	5.356	0.0	93	2158508	56.7	
76 trans-1,3-Dichloropropene	75	5.557	5.557	0.0	89	573270	54.3	
77 Ethyl methacrylate	69	5.588	5.588	0.0	88	417843	51.3	
78 1,1,2-Trichloroethane	97	5.715	5.715	0.0	86	331516	51.4	
79 Tetrachloroethene	166	5.800	5.800	0.0	92	627297	58.6	
80 1,3-Dichloropropane	76	5.855	5.855	0.0	89	600531	51.5	
81 2-Hexanone	58	5.904	5.904	0.0	96	423079	235.2	
82 n-Butyl acetate	43	5.977	5.977	0.0	98	376270	75.1	
83 Chlorodibromomethane	127	6.056	6.056	0.0	87	314470	57.2	
84 Ethylene Dibromide	107	6.159	6.159	0.0	99	310260	51.2	
86 Chlorobenzene	112	6.555	6.555	0.0	94	1411126	58.1	
87 Ethylbenzene	91	6.616	6.616	0.0	99	2308776	53.4	

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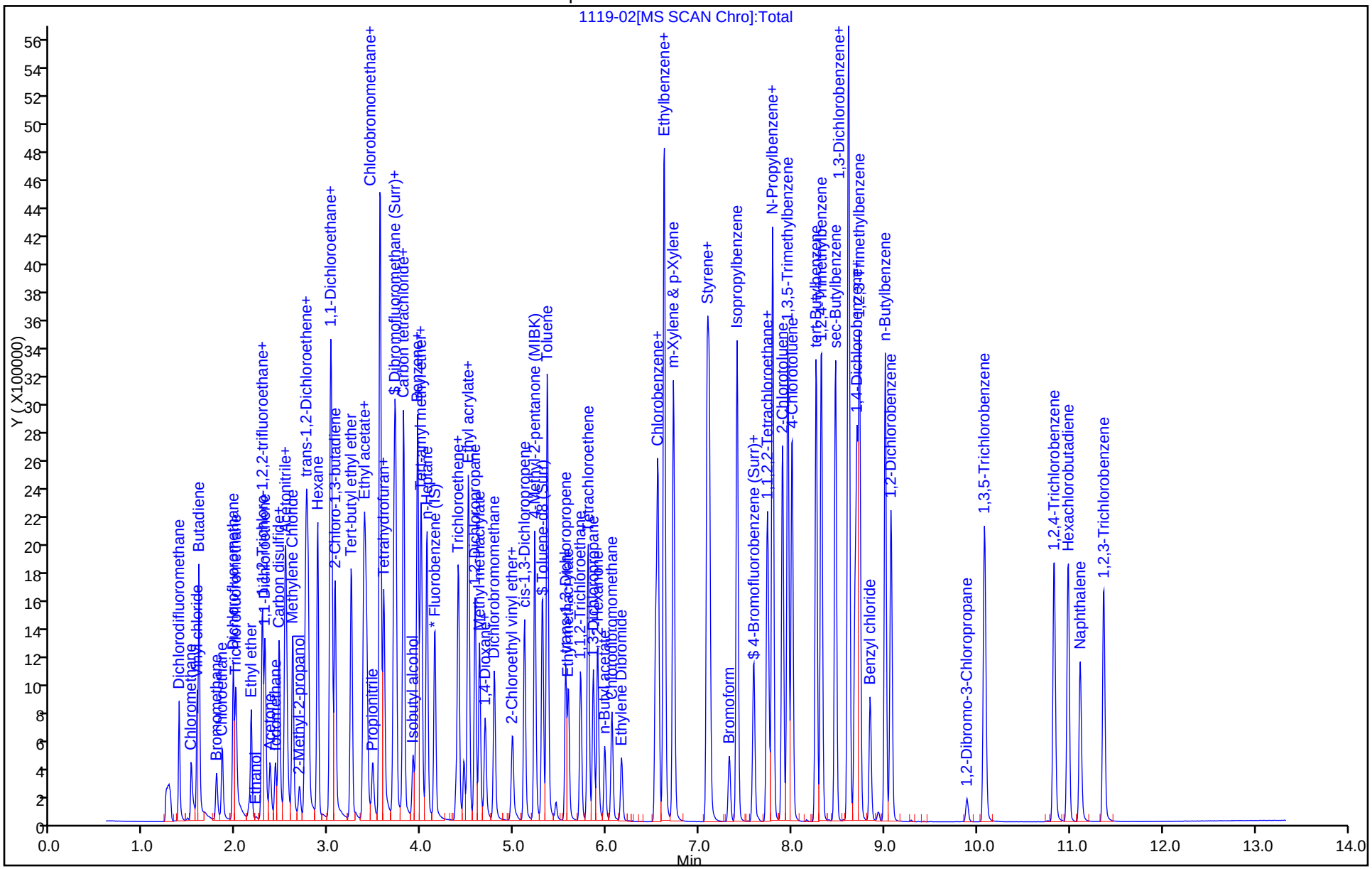
88 1,1,1,2-Tetrachloroethane	131	6.622	6.622	0.0	88	496491	57.7	
89 m-Xylene & p-Xylene	91	6.719	6.719	0.0	99	1808062	52.7	
90 o-Xylene	91	7.084	7.084	0.0	96	1814405	51.9	
91 Styrene	104	7.108	7.108	0.0	95	1519300	55.0	
92 Bromoform	173	7.321	7.321	0.0	97	241713	52.7	
93 Isopropylbenzene	105	7.406	7.406	0.0	96	2270966	53.4	
94 Cyclohexanone	55	7.571	7.571	0.0	90	66810	429.5	
95 Bromobenzene	77	7.729	7.729	0.0	91	821134	55.3	
96 1,1,2,2-Tetrachloroethane	83	7.747	7.747	0.0	88	336379	50.0	
97 1,2,3-Trichloropropane	110	7.790	7.790	0.0	59	97343	52.5	
99 N-Propylbenzene	91	7.790	7.790	0.0	97	2651021	56.0	
98 trans-1,4-Dichloro-2-butene	53	7.790	7.790	0.0	31	90916	67.1	
100 2-Chlorotoluene	91	7.899	7.899	0.0	97	1583417	59.6	
101 1,3,5-Trimethylbenzene	105	7.954	7.954	0.0	82	1928018	58.7	
102 4-Chlorotoluene	91	8.003	8.003	0.0	96	1682650	56.6	
103 tert-Butylbenzene	119	8.258	8.258	0.0	91	1672637	59.0	
104 1,2,4-Trimethylbenzene	105	8.319	8.319	0.0	97	1973060	59.1	
106 sec-Butylbenzene	105	8.471	8.471	0.0	94	2369575	56.2	
107 4-Isopropyltoluene	119	8.605	8.605	0.0	96	2151806	60.3	
108 1,3-Dichlorobenzene	146	8.617	8.617	0.0	98	1175744	51.5	
109 1,4-Dichlorobenzene	146	8.702	8.702	0.0	94	1161633	56.4	
110 1,2,3-Trimethylbenzene	105	8.727	8.727	0.0	0	1922842	52.8	
111 Benzyl chloride	91	8.842	8.842	0.0	98	678612	58.4	
112 n-Butylbenzene	91	9.006	9.006	0.0	94	1835336	56.1	
113 1,2-Dichlorobenzene	146	9.067	9.067	0.0	97	1036673	51.9	
114 1,2-Dibromo-3-Chloropropane	157	9.889	9.889	0.0	78	60909	44.7	
115 1,3,5-Trichlorobenzene	180	10.077	10.077	0.0	97	972013	51.8	
116 1,2,4-Trichlorobenzene	180	10.831	10.831	0.0	92	807312	51.3	
117 Hexachlorobutadiene	225	10.984	10.984	0.0	91	490153	49.4	
118 Naphthalene	128	11.111	11.111	0.0	97	1112365	53.2	
119 1,2,3-Trichlorobenzene	180	11.367	11.367	0.0	92	671497	49.5	
S 132 1,2-Dichloroethene, Total	1				0		110.9	
S 131 Xylenes, Total	1				0		104.6	

Report Date: 20-Nov-2013 10:00:19 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131119-28678.b\1119-02.D

Injection Date:	19-Nov-2013 11:47:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	ccvis	Lab Sample ID:		Worklist Smp#:	2
Client ID:					
Purge Vol:	10.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260HP35	Limit Group:	MSV 8260B ICAL		



TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-10.D		
Lims ID:	bfb	Client ID:	
Inject. Date:	01-Oct-2013 15:51:30	Dil. Factor:	1.0000
Sample Type:	BFB		
Sample ID:	BFB		
Misc. Info.:	490-0025968-010		
Operator:	MJH HP35	Instrument ID:	HP35
Purge Vol:	10.000 mL	ALS Bottle#:	5
Lims Batch ID:	110993	Lims Sample ID:	10
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP35\20131001-25968.b\8260HP35.m		
Method Label:	8260B Volatile Organics 8260/SA/NV05-90		
Last Update:	02-Oct-2013 12:10:49	Calib Date:	02-Oct-2013 00:15:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK001		
First Level Reviewer: himelickm		Date:	02-Oct-2013 12:10:49

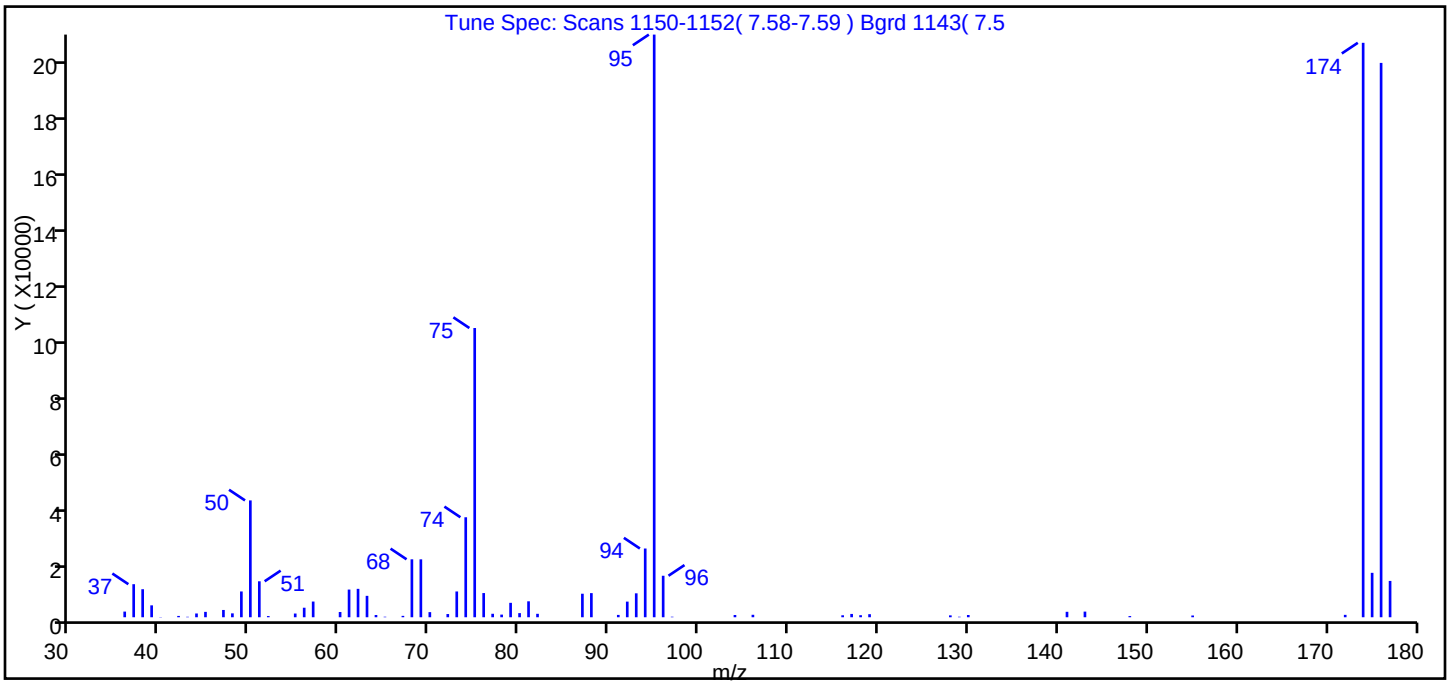
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.152	4.152	0.0	98	1022744	25.0	
* 2 Chlorobenzene-d5	117	6.530	6.530	0.0	85	835855	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.678	8.678	0.0	94	466901	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.714	3.714	0.0	72	243038	25.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.945	3.945	0.0	91	244738	25.5	
$ 6 Toluene-d8 (Surr)	98	5.308	5.308	0.0	84	1020209	24.1	
$ 8 BFB	95	7.589	7.589	0.0	0	390833	0	
$ 7 4-Bromofluorobenzene (Surr)	95	7.589	7.589	0.0	95	390833	25.4	

MS Tune Report

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-10.D		
Injection Date:	01-Oct-2013 15:51:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP35
Lims Batch ID:	110993	Lims Sample ID:	10
Operator ID:	MJH HP35	Purge Vol:	10.000 mL
Column Type:		Column Dia:	
Tune Method:	BFB Method 8260		

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.05
75	30.00 - 60.00% of mass 95	49.64
96	5.00 - 9.00% of mass 95	7.12
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	98.59
175	5.00 - 9.00% of mass 174	7.62 (7.73)
176	95.00 - 101.00% of mass 174	95.14 (96.50)
177	5.00 - 9.00% of mass 176	6.23 (6.55)

Data File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-10.D\8260HP35.rslt\spectra.d
Injection Date: 01-Oct-2013 15:51:30
Spectrum: Tune Spec: Scans 1150-1152(7.58-7.59) Bgrd 1143(7.5
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 66

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1984	57.00	5503	78.00	929	117.00	1161
37.00	11582	60.00	1836	79.00	5052	118.00	720
38.00	9820	61.00	9701	80.00	1446	119.00	1076
39.00	4171	62.00	9950	81.00	5586	128.00	659
40.00	89	63.00	7498	82.00	1209	129.00	185
42.00	464	64.00	784	87.00	8243	130.00	786
43.00	167	65.00	188	88.00	8454	141.00	1910
44.00	1322	67.00	489	91.00	822	143.00	1978
45.00	1888	68.00	20296	92.00	5478	148.00	411
47.00	2553	69.00	20288	93.00	8382	155.00	615
48.00	1366	70.00	1795	94.00	24080	172.00	844
49.00	9036	72.00	1126	95.00	204096	174.00	201216
50.00	40928	73.00	9034	96.00	14538	175.00	15562
51.00	12597	74.00	35024	97.00	189	176.00	194176
52.00	418	75.00	101312	104.00	788	177.00	12724
55.00	1303	76.00	8474	106.00	867		
56.00	3339	77.00	1221	116.00	693		

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-01.D
Lims ID: bfb Lab Sample ID:
Client ID:
Sample Type: BFB
Inject. Date: 14-Nov-2013 13:43:30 ALS Bottle#: 1 Worklist Smp#: 1
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 490-0028453-001
Operator ID: MJH HP35 Instrument ID: HP35

Method: \\Nvlchrom\ChromData\HP35\20131114-28453.b\8260HP35SHORT.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 15-Nov-2013 11:51:55 Calib Date: 14-Nov-2013 19:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-11.D

Column 1 : Detector MS SCAN
Process Host: XAWRK048

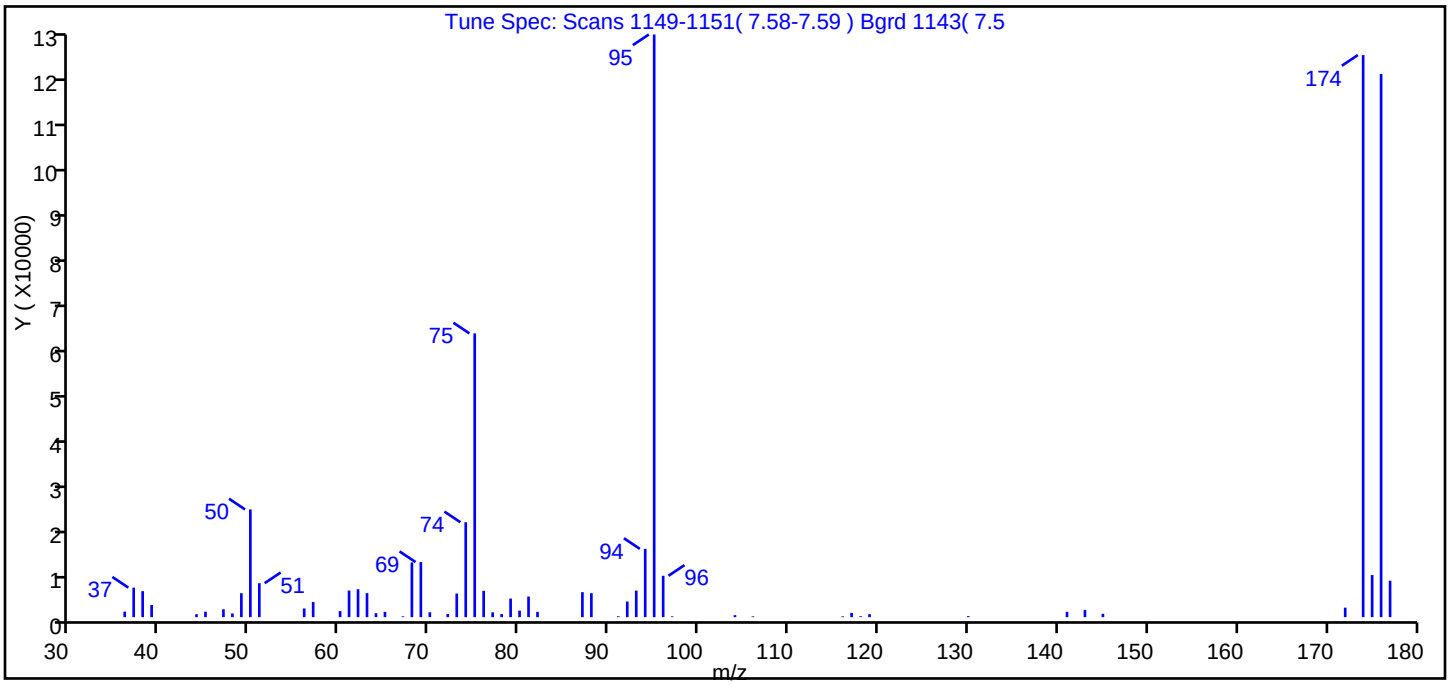
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.144	4.144	0.0	98	924415	25.0	
* 2 Chlorobenzene-d5	117	6.528	6.528	0.0	84	610163	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.682	8.682	0.0	93	314808	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.700	3.700	0.0	58	220138	25.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.937	3.937	0.0	90	226339	25.5	
$ 6 Toluene-d8 (Surr)	98	5.306	5.306	0.0	93	866306	26.0	
$ 7 4-Bromofluorobenzene (Surr)	95	7.587	7.587	0.0	96	250883	26.5	
$ 8 BFB	95	7.587	7.587	0.0	0	250883	0	

MS Tune Report

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-01.D
Injection Date: 14-Nov-2013 13:43:30 Instrument ID: HP35
Lims ID: bfb Lab Sample ID:
Client ID:
Operator ID: MJH HP35 ALS Bottle#: 1 Worklist Smp#: 1
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Method: 8260HP35SHORT Limit Group: MSV 8260B ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.50
75	30.00 - 60.00% of mass 95	48.70
96	5.00 - 9.00% of mass 95	7.10
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	96.50
175	5.00 - 9.00% of mass 174	7.20 (7.50)
176	95.00 - 101.00% of mass 174	93.20 (96.60)
177	5.00 - 9.00% of mass 176	6.20 (6.70)

Data File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-01.D\8260HP35SHORT.rslt\spectra.d
Injection Date: 14-Nov-2013 13:43:30
Spectrum: Tune Spec: Scans 1149-1151(7.58-7.59) Bgrd 1143(7.5
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 58

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1213	62.00	6150	79.00	4088	116.00	171
37.00	6492	63.00	5283	80.00	1434	117.00	927
38.00	5722	64.00	870	81.00	4539	118.00	183
39.00	2690	65.00	1154	82.00	1156	119.00	658
44.00	644	67.00	170	87.00	5497	130.00	218
45.00	1201	68.00	12038	88.00	5270	141.00	1162
47.00	1729	69.00	12120	91.00	188	143.00	1590
48.00	818	70.00	1069	92.00	3436	145.00	740
49.00	5270	72.00	700	93.00	5850	172.00	2085
50.00	23704	73.00	5193	94.00	15019	174.00	123672
51.00	7473	74.00	20880	95.00	128208	175.00	9265
56.00	1911	75.00	62440	96.00	9100	176.00	119528
57.00	3328	76.00	5789	97.00	169	177.00	8011
60.00	1326	77.00	1062	104.00	434		
61.00	5859	78.00	687	106.00	170		

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-15.D
Lims ID: bfb Lab Sample ID:
Client ID:
Sample Type: BFB
Inject. Date: 15-Nov-2013 09:57:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: bfb
Misc. Info.: 490-0028453-015
Operator ID: MJH HP35 Instrument ID: HP35

Method: \\Nvlchrom\ChromData\HP35\20131114-28453.b\8260HP35SHORT.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 15-Nov-2013 11:51:40 Calib Date: 14-Nov-2013 19:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-11.D

Column 1 : Detector MS SCAN
Process Host: XAWRK048

First Level Reviewer: himelickm Date: 15-Nov-2013 10:58:00

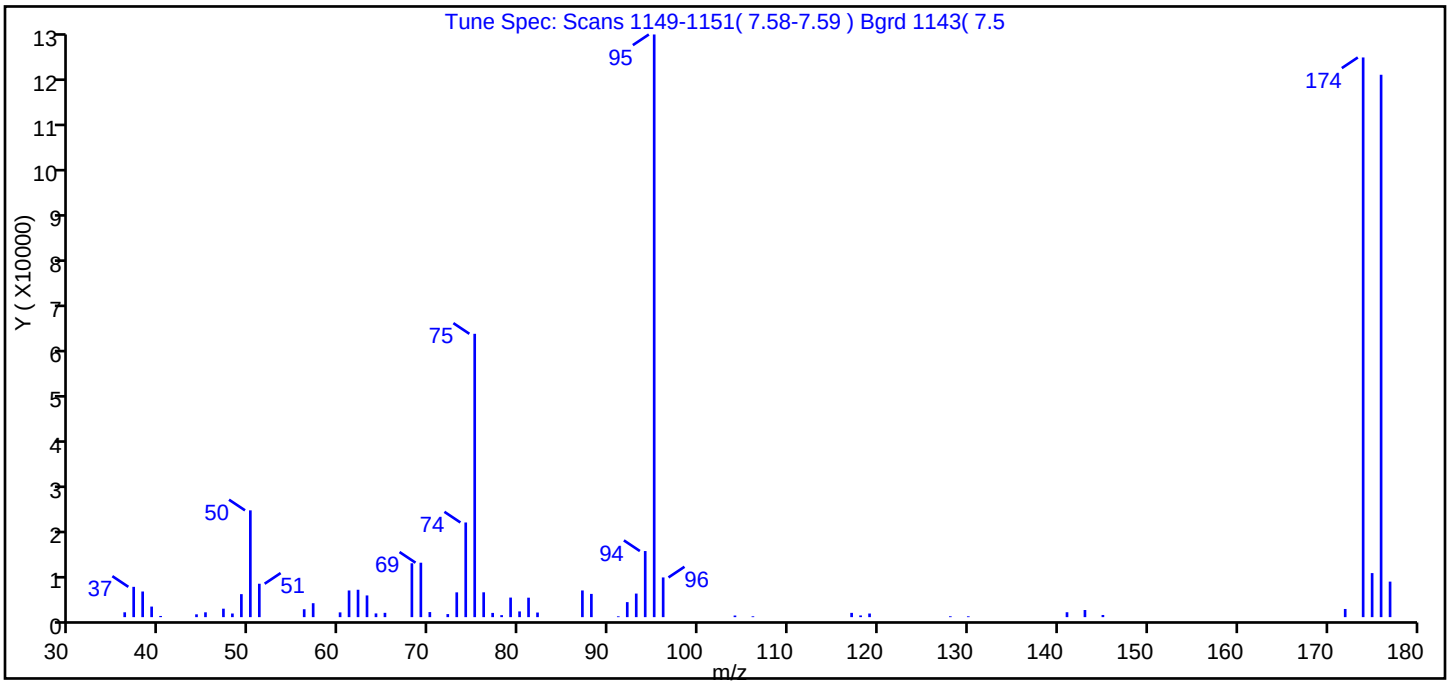
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.143	4.143	0.0	98	844895	25.0	
* 2 Chlorobenzene-d5	117	6.528	6.528	0.0	83	599535	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.681	8.681	0.0	93	304462	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.705	3.705	0.0	58	190158	24.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.936	3.936	0.0	90	212276	26.1	
$ 6 Toluene-d8 (Surr)	98	5.305	5.305	0.0	84	829865	25.3	
$ 7 4-Bromofluorobenzene (Surr)	95	7.586	7.586	0.0	95	246558	26.9	
$ 8 BFB	95	7.586	7.586	0.0	0	246558	0	

MS Tune Report

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-15.D
Injection Date: 15-Nov-2013 09:57:30 Instrument ID: HP35
Lims ID: bfb Lab Sample ID:
Client ID:
Operator ID: MJH HP35 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Method: 8260HP35SHORT Limit Group: MSV 8260B ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.30
75	30.00 - 60.00% of mass 95	48.60
96	5.00 - 9.00% of mass 95	6.80
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	96.10
175	5.00 - 9.00% of mass 174	7.60 (7.90)
176	95.00 - 101.00% of mass 174	93.10 (96.90)
177	5.00 - 9.00% of mass 176	6.10 (6.60)

Data File: \\Nvlchrom\ChromData\HP35\20131114-28453.b\1114-15.D\8260HP35SHORT.rslt\spectra.d
Injection Date: 15-Nov-2013 09:57:30
Spectrum: Tune Spec: Scans 1149-1151(7.58-7.59) Bgrd 1143(7.5
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 57

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1066	61.00	5859	79.00	4299	118.00	375
37.00	6656	62.00	6016	80.00	1259	119.00	796
38.00	5632	63.00	4767	81.00	4275	128.00	189
39.00	2321	64.00	818	82.00	1014	130.00	182
40.00	260	65.00	948	87.00	5861	141.00	1080
44.00	620	68.00	11834	88.00	5106	143.00	1566
45.00	1062	69.00	11957	91.00	179	145.00	474
47.00	1858	70.00	1114	92.00	3299	172.00	1795
48.00	800	72.00	672	93.00	5177	174.00	122928
49.00	5052	73.00	5447	94.00	14517	175.00	9675
50.00	23456	74.00	20792	95.00	127976	176.00	119128
51.00	7338	75.00	62232	96.00	8721	177.00	7804
56.00	1736	76.00	5454	104.00	352		
57.00	3061	77.00	931	106.00	183		
60.00	1045	78.00	436	117.00	939		

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-01.D
Lims ID: bfb Lab Sample ID:
Client ID:
Sample Type: BFB
Inject. Date: 18-Nov-2013 10:32:30 ALS Bottle#: 1 Worklist Smp#: 1
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 490-0028621-001
Operator ID: MJH HP35 Instrument ID: HP35

Method: \\Nvlchrom\ChromData\HP35\20131118-28621.b\8260HP35.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 19-Nov-2013 17:57:40 Calib Date: 02-Oct-2013 00:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D

Column 1 : Detector MS SCAN
Process Host: XAWRK006

First Level Reviewer: himelickm Date: 19-Nov-2013 17:57:40

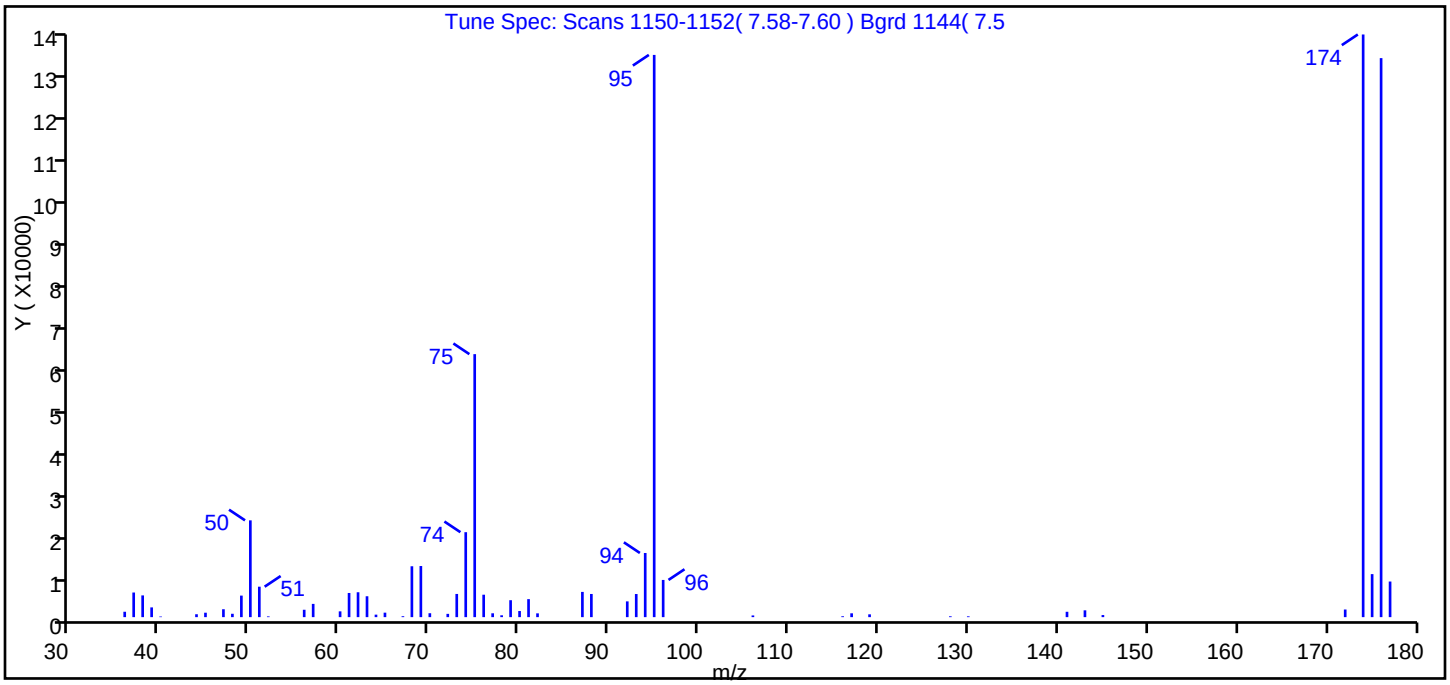
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.140	4.140	0.0	98	901966	25.0	
* 2 Chlorobenzene-d5	117	6.524	6.524	0.0	85	594930	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.678	8.678	0.0	93	305149	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.702	3.702	0.0	74	219322	25.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.939	3.939	0.0	91	223254	26.4	
$ 6 Toluene-d8 (Surr)	98	5.302	5.302	0.0	84	857993	28.4	
$ 7 4-Bromofluorobenzene (Surr)	95	7.589	7.589	0.0	96	244249	24.3	
$ 8 BFB	95	7.589	7.589	0.0	0	244249	0	

MS Tune Report

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-01.D
Injection Date: 18-Nov-2013 10:32:30 Instrument ID: HP35
Lims ID: bfb Lab Sample ID:
Client ID:
Operator ID: MJH HP35 ALS Bottle#: 1 Worklist Smp#: 1
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Method: 8260HP35 Limit Group: MSV 8260B ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.20
75	30.00 - 60.00% of mass 95	46.80
96	5.00 - 9.00% of mass 95	6.60
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	103.60
175	5.00 - 9.00% of mass 174	7.70 (7.40)
176	95.00 - 101.00% of mass 174	99.40 (95.90)
177	5.00 - 9.00% of mass 176	6.30 (6.40)

Data File: \\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-01.D\8260HP35.rslt\spectra.d
Injection Date: 18-Nov-2013 10:32:30
Spectrum: Tune Spec: Scans 1150-1152(7.58-7.60) Bgrd 1144(7.5
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 57

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1223	60.00	1315	77.00	875	117.00	872
37.00	5591	61.00	5486	78.00	421	119.00	639
38.00	4936	62.00	5652	79.00	3846	128.00	189
39.00	2213	63.00	4743	80.00	1390	130.00	180
40.00	138	64.00	567	81.00	4088	141.00	1217
44.00	661	65.00	1017	82.00	862	143.00	1548
45.00	1006	67.00	208	87.00	5730	145.00	475
47.00	1796	68.00	11552	88.00	5261	172.00	1735
48.00	765	69.00	11606	92.00	3580	174.00	132288
49.00	4890	70.00	889	93.00	5250	175.00	9769
50.00	21976	72.00	746	94.00	14566	176.00	126920
51.00	6913	73.00	5266	95.00	127648	177.00	8086
52.00	168	74.00	19288	96.00	8447		
56.00	1676	75.00	59712	106.00	386		
57.00	3010	76.00	5095	116.00	199		

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131119-28678.b\1119-01.D
Lims ID: bfb Lab Sample ID:
Client ID:
Sample Type: BFB
Inject. Date: 19-Nov-2013 11:11:30 ALS Bottle#: 1 Worklist Smp#: 1
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 490-0028678-001
Operator ID: MJH HP35 Instrument ID: HP35

Method: \\Nvlchrom\ChromData\HP35\20131119-28678.b\8260HP35.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 20-Nov-2013 09:57:37 Calib Date: 02-Oct-2013 00:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D

Column 1 : Detector MS SCAN
Process Host: XAWRK040

First Level Reviewer: haleyj Date: 20-Nov-2013 09:57:37

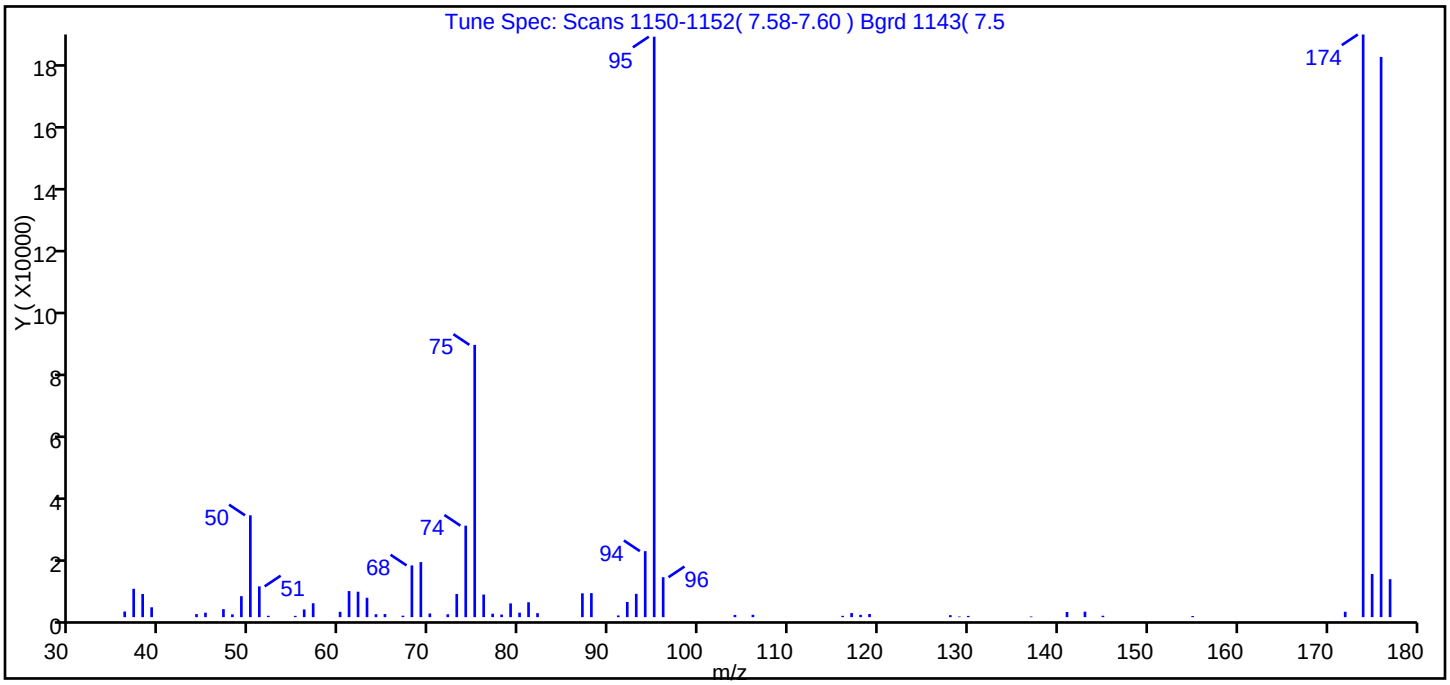
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.147	4.147	0.0	98	1144278	25.0	
* 2 Chlorobenzene-d5	117	6.525	6.525	0.0	85	810710	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.679	8.679	0.0	94	421806	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.703	3.703	0.0	75	251774	23.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.940	3.940	0.0	91	263446	24.5	
$ 6 Toluene-d8 (Surr)	98	5.309	5.309	0.0	93	1099197	26.7	
$ 7 4-Bromofluorobenzene (Surr)	95	7.590	7.590	0.0	96	355230	25.6	
$ 8 BFB	95	7.590	7.590	0.0	0	355230	0	

MS Tune Report

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131119-28678.b\1119-01.D
Injection Date: 19-Nov-2013 11:11:30 Instrument ID: HP35
Lims ID: bfb Lab Sample ID:
Client ID:
Operator ID: MJH HP35 ALS Bottle#: 1 Worklist Smp#: 1
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Method: 8260HP35 Limit Group: MSV 8260B ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.50
75	30.00 - 60.00% of mass 95	46.90
96	5.00 - 9.00% of mass 95	6.90
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	100.40
175	5.00 - 9.00% of mass 174	7.40 (7.40)
176	95.00 - 101.00% of mass 174	96.50 (96.10)
177	5.00 - 9.00% of mass 176	6.50 (6.80)

Data File: \\Nvlchrom\ChromData\HP35\20131119-28678.b\1119-01.D\8260HP35.rslt\spectra.d
Injection Date: 19-Nov-2013 11:11:30
Spectrum: Tune Spec: Scans 1150-1152(7.58-7.60) Bgrd 1143(7.5
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 63

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1796	61.00	8313	79.00	4380	118.00	734
37.00	9039	62.00	8107	80.00	1425	119.00	999
38.00	7378	63.00	6175	81.00	4742	128.00	630
39.00	3137	64.00	932	82.00	1266	129.00	199
44.00	977	65.00	982	87.00	7598	130.00	399
45.00	1421	67.00	470	88.00	7648	137.00	210
47.00	2551	68.00	16488	91.00	533	141.00	1636
48.00	886	69.00	17544	92.00	4826	143.00	1748
49.00	6690	70.00	1159	93.00	7423	145.00	454
50.00	32456	72.00	906	94.00	21032	155.00	356
51.00	9808	73.00	7374	95.00	185024	172.00	1716
52.00	440	74.00	29160	96.00	12732	174.00	185728
55.00	417	75.00	86792	104.00	703	175.00	13748
56.00	2450	76.00	7204	106.00	756	176.00	178560
57.00	4424	77.00	1094	116.00	422	177.00	12095
60.00	1704	78.00	825	117.00	1305		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-122748/7

Matrix: Water | Lab File ID: 1118-07.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 11/18/2013 13:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122748 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND		1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	ND		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-122748/7

Matrix: Water | Lab File ID: 1118-07.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 11/18/2013 13:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122748 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND		5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND		1.00	0.200
75-69-4	Trichlorofluoromethane	ND		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		1.00	0.330
75-01-4	Vinyl chloride	ND		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-130
2037-26-5	Toluene-d8 (Surr)	120		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-07.D
Lims ID: mb Lab Sample ID: MB 490-122749/7-A
Client ID:
Sample Type: MB
Inject. Date: 18-Nov-2013 13:41:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 490-0028621-007
Operator ID: MJH HP35 Instrument ID: HP35

Method: \\Nvlchrom\ChromData\HP35\20131118-28621.b\8260HP35.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 19-Nov-2013 18:23:53 Calib Date: 02-Oct-2013 00:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D

Column 1 : Detector MS SCAN
Process Host: XAWRK006

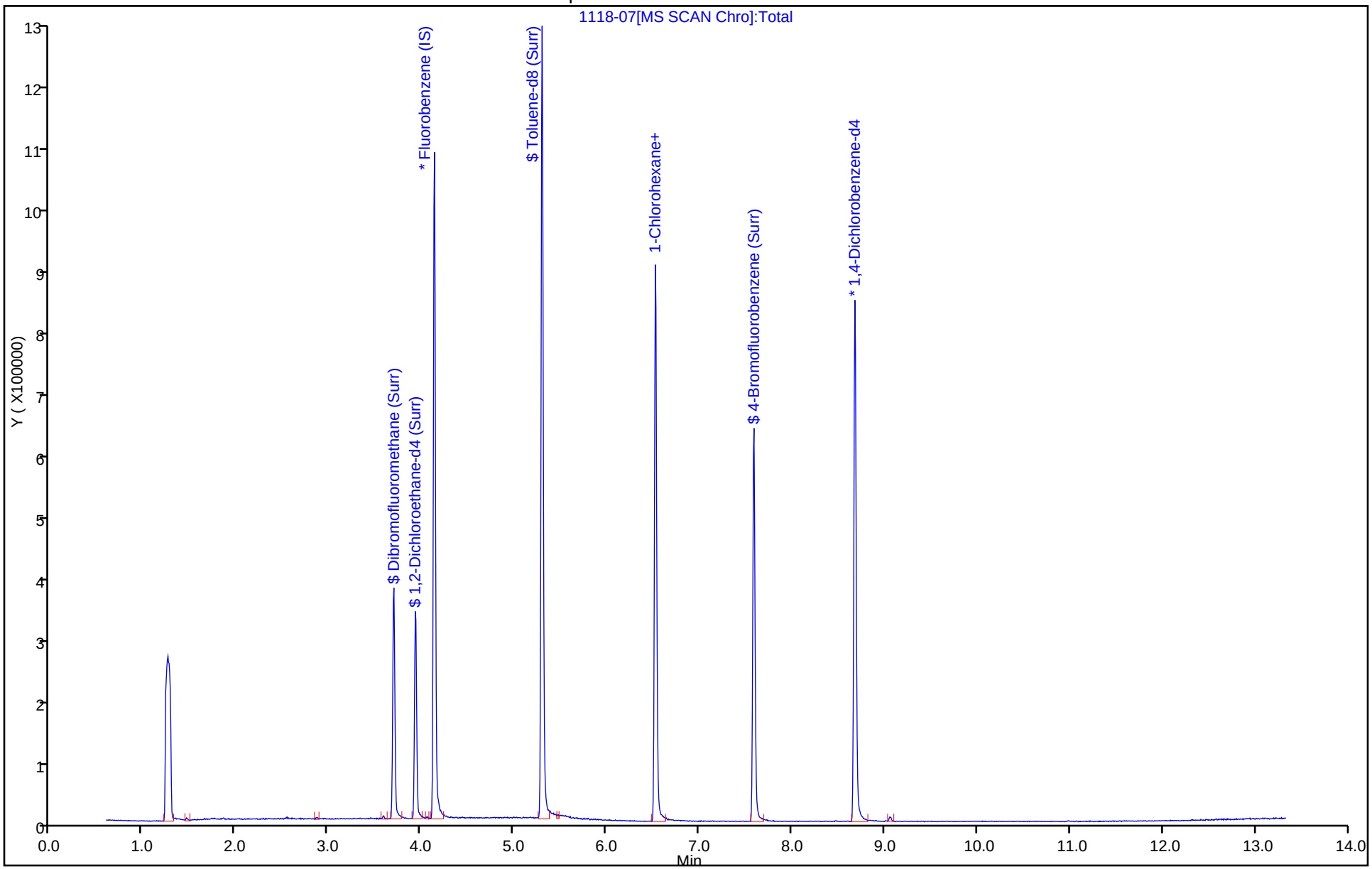
First Level Reviewer: himelickm Date: 19-Nov-2013 18:23:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.140	4.138	0.002	98	828805	25.0	
* 2 Chlorobenzene-d5	117	6.525	6.529	-0.004	83	537848	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.678	8.676	0.002	93	282295	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.702	3.700	0.002	67	193191	24.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.933	3.937	-0.004	90	201699	25.9	
$ 6 Toluene-d8 (Surr)	98	5.302	5.306	-0.004	84	816029	29.9	
$ 7 4-Bromofluorobenzene (Surr)	95	7.589	7.587	0.002	96	215948	23.2	
85 1-Chlorohexane	91	6.531	6.525	0.006	1	890	0	

Report Date: 19-Nov-2013 18:23:54 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-07.D				
Injection Date:	18-Nov-2013 13:41:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	mb	Lab Sample ID:	MB 490-122749/7-A	Worklist Smp#:	7
Client ID:					
Purge Vol:	10.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260HP35	Limit Group:	MSV 8260B ICAL		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-123017/7

Matrix: Water | Lab File ID: 1119-07.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 11/19/2013 14:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 123017 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND		1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	ND		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-123017/7

Matrix: Water | Lab File ID: 1119-07.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 11/19/2013 14:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 123017 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND		5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND		1.00	0.200
75-69-4	Trichlorofluoromethane	ND		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	ND		1.00	0.330
75-01-4	Vinyl chloride	ND		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	114		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131119-28678.b\1119-07.D
Lims ID: mb Lab Sample ID: MB 490-123018/7-A
Client ID:
Sample Type: MB
Inject. Date: 19-Nov-2013 14:42:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 490-0028678-007
Operator ID: MJH HP35 Instrument ID: HP35

Method: \\Nvlchrom\ChromData\HP35\20131119-28678.b\8260HP35.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 20-Nov-2013 10:04:29 Calib Date: 02-Oct-2013 00:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D

Column 1 : Detector MS SCAN
Process Host: XAWRK040

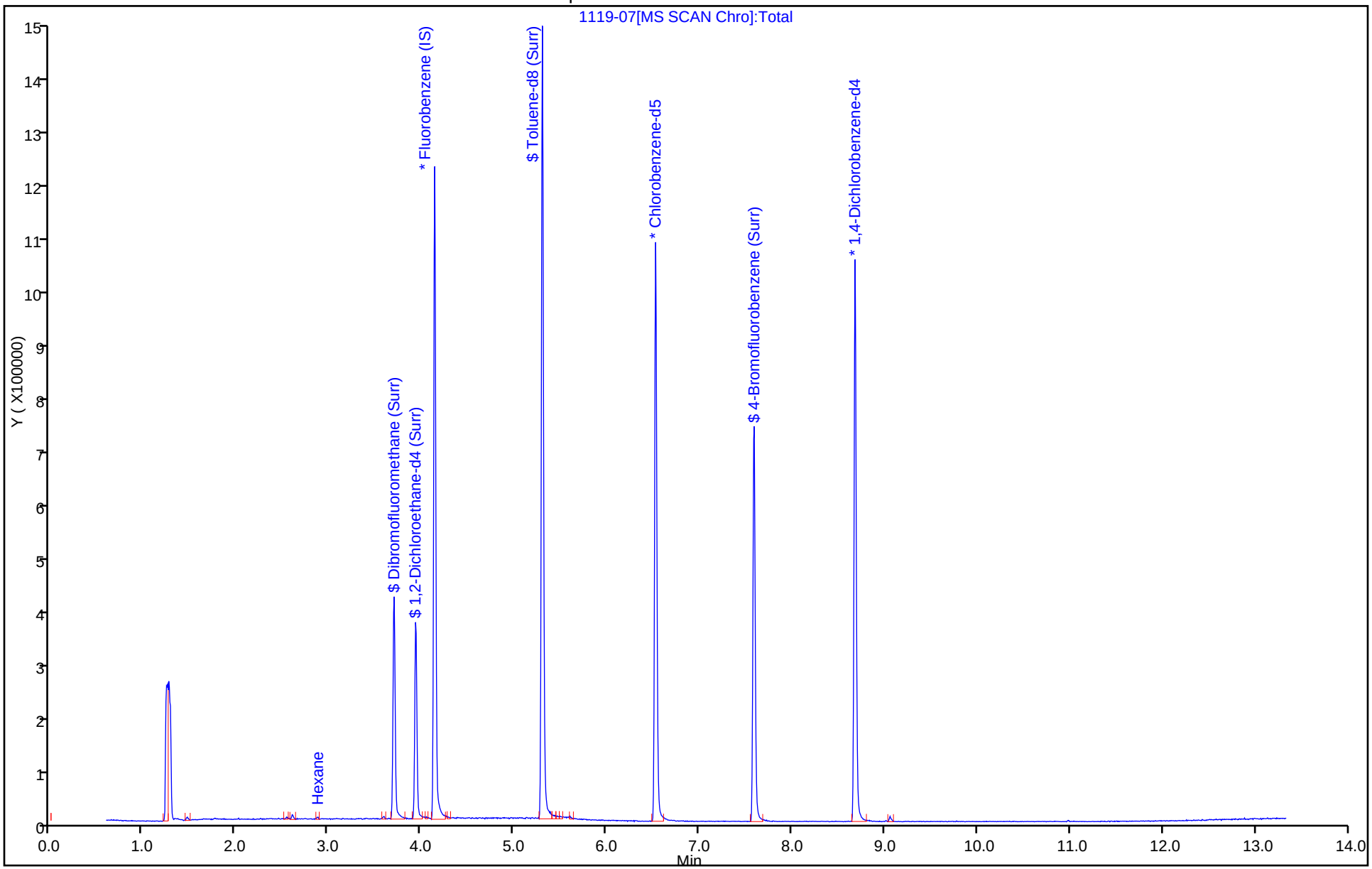
First Level Reviewer: haleyj Date: 20-Nov-2013 10:04:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.143	4.146	-0.003	98	904720	25.0	
* 2 Chlorobenzene-d5	117	6.527	6.530	-0.003	85	619813	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.681	8.678	0.003	93	314560	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.705	3.702	0.003	66	207374	24.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.936	3.939	-0.003	90	212936	25.1	
$ 6 Toluene-d8 (Surr)	98	5.305	5.308	-0.003	93	896737	28.5	
$ 7 4-Bromofluorobenzene (Surr)	95	7.586	7.589	-0.003	96	248541	24.0	
35 Hexane	57	2.871	2.880	-0.009	35	814	0.0668	

Report Date: 20-Nov-2013 10:07:00 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP35\20131119-28678.b\1119-07.D				
Injection Date:	19-Nov-2013 14:42:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	mb	Lab Sample ID:	MB 490-123018/7-A	Worklist Smp#:	7
Client ID:					
Purge Vol:	10.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260HP35	Limit Group:	MSV 8260B ICAL		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-122748/3

Matrix: Water | Lab File ID: 1118-03.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 11/18/2013 11:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122748 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	245.8		5.00	2.66
71-43-2	Benzene	50.75		1.00	0.200
74-97-5	Bromochloromethane	49.63		1.00	0.150
75-27-4	Bromodichloromethane	51.36		1.00	0.170
75-25-2	Bromoform	55.30		1.00	0.290
74-83-9	Bromomethane	42.09		1.00	0.350
78-93-3	2-Butanone (MEK)	232.4		50.0	2.64
75-15-0	Carbon disulfide	57.71		1.00	0.220
56-23-5	Carbon tetrachloride	50.89		1.00	0.180
108-90-7	Chlorobenzene	59.85		1.00	0.180
124-48-1	Chlorodibromomethane	59.84		1.00	0.250
75-00-3	Chloroethane	53.34		1.00	0.360
67-66-3	Chloroform	50.95		1.00	0.230
74-87-3	Chloromethane	32.02		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	57.57		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	57.94		1.00	0.170
110-82-7	Cyclohexane	52.27		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	44.87		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	51.95		1.00	0.210
95-50-1	1,2-Dichlorobenzene	51.73		1.00	0.190
541-73-1	1,3-Dichlorobenzene	51.08		1.00	0.180
106-46-7	1,4-Dichlorobenzene	56.44		1.00	0.170
75-71-8	Dichlorodifluoromethane	53.88		1.00	0.170
75-34-3	1,1-Dichloroethane	57.10		1.00	0.240
107-06-2	1,2-Dichloroethane	49.65		1.00	0.200
75-35-4	1,1-Dichloroethene	55.47		1.00	0.250
78-87-5	1,2-Dichloropropane	55.05		1.00	0.250
100-41-4	Ethylbenzene	56.03		1.00	0.190
591-78-6	2-Hexanone	247.0		5.00	1.28
98-82-8	Isopropylbenzene	56.59		1.00	0.330
79-20-9	Methyl acetate	210.5		10.0	0.720
108-87-2	Methylcyclohexane	49.17		5.00	0.200
75-09-2	Methylene Chloride	54.45		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	257.9		5.00	0.810
1634-04-4	Methyl tert-butyl ether	49.13		1.00	0.170
103-65-1	N-Propylbenzene	54.46		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-122748/3

Matrix: Water | Lab File ID: 1118-03.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 11/18/2013 11:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122748 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	57.78		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	49.13		1.00	0.190
127-18-4	Tetrachloroethene	59.65		1.00	0.140
109-99-9	Tetrahydrofuran	62.41		5.00	2.84
108-88-3	Toluene	58.01		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	55.26		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	53.93		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	50.52		1.00	0.200
71-55-6	1,1,1-Trichloroethane	52.11		1.00	0.190
79-00-5	1,1,2-Trichloroethane	53.10		1.00	0.190
79-01-6	Trichloroethene	50.95		1.00	0.200
75-69-4	Trichlorofluoromethane	55.01		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	53.94		1.00	0.330
75-01-4	Vinyl chloride	52.16		1.00	0.180
1330-20-7	Xylenes, Total	111.2		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		70-130
1868-53-7	Dibromofluoromethane (Surr)	96		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-130
2037-26-5	Toluene-d8 (Surr)	108		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-03.D
Lims ID: lcs Lab Sample ID: LCS 490-122749/3-A
Client ID:
Sample Type: LCS
Inject. Date: 18-Nov-2013 11:38:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 490-0028621-003
Operator ID: MJH HP35 Instrument ID: HP35

Method: \\Nvlchrom\ChromData\HP35\20131118-28621.b\8260HP35.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 19-Nov-2013 18:22:13 Calib Date: 02-Oct-2013 00:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D

Column 1 : Detector MS SCAN
Process Host: XAWRK006

First Level Reviewer: himelickm Date: 19-Nov-2013 18:22:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.139	4.138	0.001	98	897824	25.0	
* 2 Chlorobenzene-d5	117	6.524	6.529	-0.005	84	630349	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.678	8.676	0.002	73	391365	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.701	3.700	0.001	84	204398	24.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.933	3.937	-0.004	91	203872	24.2	
$ 6 Toluene-d8 (Surr)	98	5.301	5.306	-0.005	82	861735	26.9	
$ 7 4-Bromofluorobenzene (Surr)	95	7.583	7.587	-0.004	95	311027	24.1	
9 Dichlorodifluoromethane	85	1.378	1.382	-0.004	88	449067	53.9	
10 Chloromethane	50	1.511	1.510	0.001	89	334405	32.0	
11 Vinyl chloride	62	1.572	1.577	-0.005	82	503277	52.2	
12 Butadiene	54	1.597	1.595	0.002	0	450638	49.4	
13 Bromomethane	96	1.785	1.790	-0.005	90	197983	42.1	
14 Chloroethane	64	1.846	1.844	0.002	96	311376	53.3	
15 Dichlorofluoromethane	67	1.962	1.966	-0.004	83	739860	55.9	
16 Trichlorofluoromethane	101	1.992	1.996	-0.004	87	654891	55.0	
18 Ethanol	45	2.156	2.161	-0.005	78	313582	2587.9	
17 Ethyl ether	59	2.156	2.161	-0.005	94	272341	52.5	
19 Acrolein	56	2.272	2.270	0.002	97	66583	92.0	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.278	2.282	-0.004	85	398994	53.9	
21 1,1-Dichloroethene	96	2.308	2.307	0.001	88	383889	55.5	
22 Acetone	58	2.363	2.368	-0.005	100	93688	245.8	
23 Iodomethane	142	2.418	2.422	-0.004	97	344651	35.5	
25 Isopropyl alcohol	45	2.448	2.447	0.001	96	108405	467.5	
26 Carbon disulfide	76	2.454	2.459	-0.005	100	1278085	57.7	
28 Acetonitrile	41	2.521	2.526	-0.005	75	876250	540.9	
27 3-Chloro-1-propene	76	2.521	2.526	-0.005	89	324185	44.7	
29 Methyl acetate	43	2.533	2.538	-0.005	98	873380	210.5	
30 Methylene Chloride	84	2.606	2.605	0.001	92	426904	54.5	
31 2-Methyl-2-propanol	59	2.685	2.684	0.001	98	157851	457.1	
32 Methyl tert-butyl ether	73	2.740	2.745	-0.005	89	806330	49.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
33 trans-1,2-Dichloroethene	61	2.752	2.757	-0.005	94	599158	55.3	
34 Acrylonitrile	53	2.771	2.775	-0.004	97	807752	479.6	
35 Hexane	57	2.874	2.879	-0.004	93	637931	52.7	
36 Isopropyl ether	45	3.014	3.012	0.002	87	1308095	52.7	
37 1,1-Dichloroethane	63	3.020	3.025	-0.005	85	835259	57.1	
38 Vinyl acetate	43	3.026	3.031	-0.005	96	1665988	101.4	
39 2-Chloro-1,3-butadiene	53	3.063	3.061	0.002	86	642456	51.3	
40 Tert-butyl ethyl ether	59	3.239	3.237	0.002	94	1055051	47.4	
42 2,2-Dichloropropane	77	3.373	3.371	0.002	87	645017	56.2	
43 cis-1,2-Dichloroethene	61	3.385	3.390	-0.005	71	780204	57.6	
44 2-Butanone (MEK)	72	3.403	3.408	-0.005	91	117958	232.4	
41 Ethyl acetate	43	3.409	3.408	0.001	94	831492	112.7	
45 Propionitrile	54	3.470	3.475	-0.005	99	311534	496.0	
46 Methacrylonitrile	41	3.549	3.548	0.001	93	1390865	437.5	
47 Chlorobromomethane	130	3.555	3.554	0.001	71	230449	49.6	
48 Chloroform	83	3.586	3.590	-0.004	80	705384	51.0	
49 Tetrahydrofuran	42	3.592	3.596	-0.004	76	110356	62.4	
51 1,1,1-Trichloroethane	97	3.695	3.700	-0.005	93	611051	52.1	
52 Cyclohexane	56	3.714	3.718	-0.004	93	792660	52.3	
53 1,1-Dichloropropene	75	3.799	3.803	-0.004	93	564124	52.5	
54 Carbon tetrachloride	117	3.799	3.803	-0.004	78	552223	50.9	
55 Isobutyl alcohol	43	3.908	3.907	0.001	94	213936	502.6	
57 Benzene	78	3.951	3.955	-0.004	97	1794203	50.8	
58 1,2-Dichloroethane	62	3.987	3.986	0.001	91	474747	49.6	
59 Tert-amyl methyl ether	73	3.993	3.998	-0.005	96	872959	47.6	
60 n-Heptane	43	4.054	4.053	0.001	93	621205	48.6	
61 n-Butanol	56	4.377	4.375	0.002	89	127030	1220.0	
62 Trichloroethene	130	4.395	4.393	0.002	92	470045	50.9	
63 Ethyl acrylate	55	4.504	4.503	0.001	0	632643	48.7	
64 Methylcyclohexane	83	4.504	4.503	0.001	90	719069	49.2	
65 1,2-Dichloropropane	63	4.577	4.576	0.001	94	464184	55.0	
67 Methyl methacrylate	41	4.626	4.624	0.002	89	449313	82.9	
68 Dibromomethane	93	4.681	4.685	-0.004	83	189240	47.2	
69 1,4-Dioxane	88	4.693	4.697	-0.004	94	38494	986.2	
70 Dichlorobromomethane	83	4.784	4.783	0.001	93	535018	51.4	
71 2-Nitropropane	43	4.973	4.977	-0.004	98	228472	89.1	
72 2-Chloroethyl vinyl ether	63	4.979	4.983	-0.004	84	149970	53.9	
73 cis-1,3-Dichloropropene	75	5.107	5.111	-0.004	90	637047	57.9	
74 4-Methyl-2-pentanone (MIBK)	58	5.222	5.221	0.001	96	418328	257.9	
75 Toluene	91	5.356	5.354	0.002	93	1837912	58.0	
76 trans-1,3-Dichloropropene	75	5.557	5.555	0.002	89	473397	53.9	
77 Ethyl methacrylate	69	5.587	5.586	0.001	83	346839	51.2	
78 1,1,2-Trichloroethane	97	5.715	5.720	-0.005	87	285050	53.1	
79 Tetrachloroethene	166	5.794	5.799	-0.005	92	530914	59.7	
80 1,3-Dichloropropane	76	5.855	5.853	0.002	89	512253	52.8	
81 2-Hexanone	58	5.898	5.902	-0.004	95	369651	247.0	
82 n-Butyl acetate	43	5.977	5.975	0.002	98	313347	73.6	
83 Chlorodibromomethane	127	6.056	6.054	0.002	87	273833	59.8	
84 Ethylene Dibromide	107	6.159	6.158	0.001	98	261705	51.9	
86 Chlorobenzene	112	6.548	6.553	-0.005	93	1208546	59.9	
87 Ethylbenzene	91	6.615	6.620	-0.005	99	2014575	56.0	
88 1,1,1,2-Tetrachloroethane	131	6.621	6.620	0.001	88	432226	60.4	

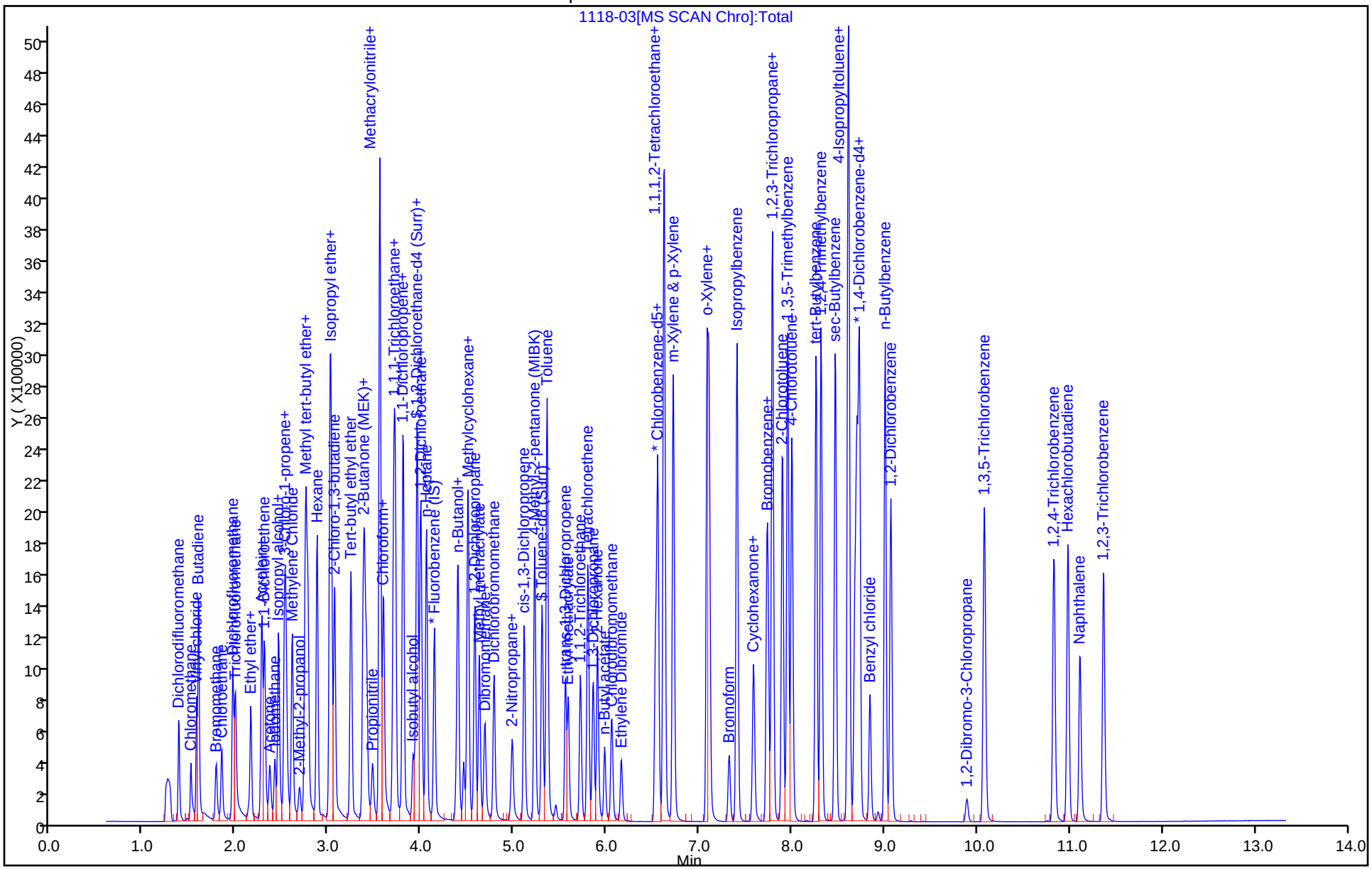
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
89 m-Xylene & p-Xylene	91	6.719	6.717	0.002	99	1601519	56.1	
90 o-Xylene	91	7.084	7.082	0.002	95	1600432	55.1	
91 Styrene	104	7.102	7.107	-0.005	95	1327730	57.8	
92 Bromoform	173	7.321	7.319	0.002	97	210974	55.3	
93 Isopropylbenzene	105	7.406	7.405	0.001	96	2001469	56.6	
94 Cyclohexanone	55	7.570	7.575	-0.005	90	59551	450.7	
95 Bromobenzene	77	7.729	7.727	0.002	90	741197	54.5	
96 1,1,2,2-Tetrachloroethane	83	7.741	7.745	-0.004	85	302719	49.1	
97 1,2,3-Trichloropropane	110	7.783	7.782	0.001	44	88180	52.0	
98 trans-1,4-Dichloro-2-butene	53	7.789	7.788	0.001	30	80510	64.9	
99 N-Propylbenzene	91	7.789	7.788	0.001	97	2362213	54.5	
100 2-Chlorotoluene	91	7.893	7.897	-0.004	97	1394601	57.4	
101 1,3,5-Trimethylbenzene	105	7.954	7.952	0.002	94	1732193	57.5	
102 4-Chlorotoluene	91	7.996	8.001	-0.005	96	1495009	54.9	
103 tert-Butylbenzene	119	8.258	8.262	-0.004	86	1513213	58.3	
104 1,2,4-Trimethylbenzene	105	8.313	8.317	-0.004	90	1795144	58.7	
106 sec-Butylbenzene	105	8.465	8.469	-0.004	94	2134028	55.3	
107 4-Isopropyltoluene	119	8.605	8.603	0.002	94	1941219	59.4	
108 1,3-Dichlorobenzene	146	8.617	8.615	0.002	97	1068448	51.1	
109 1,4-Dichlorobenzene	146	8.702	8.700	0.002	95	1065112	56.4	
110 1,2,3-Trimethylbenzene	105	8.726	8.725	0.001	0	1741921	52.3	
111 Benzyl chloride	91	8.842	8.840	0.002	98	599625	62.1	
112 n-Butylbenzene	91	9.006	9.005	0.001	94	1674790	55.9	
113 1,2-Dichlorobenzene	146	9.067	9.065	0.002	97	946899	51.7	
114 1,2-Dibromo-3-Chloropropane	157	9.888	9.887	0.001	77	55933	44.9	
115 1,3,5-Trichlorobenzene	180	10.077	10.075	0.002	94	871763	50.8	
116 1,2,4-Trichlorobenzene	180	10.825	10.830	-0.005	92	727436	50.5	
117 Hexachlorobutadiene	225	10.977	10.982	-0.005	92	442694	48.7	
118 Naphthalene	128	11.111	11.109	0.002	97	1018154	53.2	
119 1,2,3-Trichlorobenzene	180	11.367	11.365	0.002	94	616747	49.7	
S 132 1,2-Dichloroethene, Total	1				0		112.8	
S 131 Xylenes, Total	1				0		111.1	

Report Date: 19-Nov-2013 18:22:38 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-03.D

Injection Date:	18-Nov-2013 11:38:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	lcs	Lab Sample ID:	LCS 490-122749/3-A	Worklist Smp#:	3
Client ID:					
Purge Vol:	10.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260HP35	Limit Group:	MSV 8260B ICAL		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-123017/3

Matrix: Water | Lab File ID: 1119-03.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 11/19/2013 12:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 123017 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	217.5		5.00	2.66
71-43-2	Benzene	49.33		1.00	0.200
74-97-5	Bromochloromethane	49.43		1.00	0.150
75-27-4	Bromodichloromethane	50.58		1.00	0.170
75-25-2	Bromoform	53.12		1.00	0.290
74-83-9	Bromomethane	44.96		1.00	0.350
78-93-3	2-Butanone (MEK)	227.3		50.0	2.64
75-15-0	Carbon disulfide	54.03		1.00	0.220
56-23-5	Carbon tetrachloride	51.68		1.00	0.180
108-90-7	Chlorobenzene	56.36		1.00	0.180
124-48-1	Chlorodibromomethane	55.16		1.00	0.250
75-00-3	Chloroethane	53.20		1.00	0.360
67-66-3	Chloroform	50.10		1.00	0.230
74-87-3	Chloromethane	34.01		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	55.78		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	56.83		1.00	0.170
110-82-7	Cyclohexane	52.34		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	44.95		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	50.64		1.00	0.210
95-50-1	1,2-Dichlorobenzene	51.90		1.00	0.190
541-73-1	1,3-Dichlorobenzene	51.12		1.00	0.180
106-46-7	1,4-Dichlorobenzene	56.27		1.00	0.170
75-71-8	Dichlorodifluoromethane	54.94		1.00	0.170
75-34-3	1,1-Dichloroethane	54.20		1.00	0.240
107-06-2	1,2-Dichloroethane	48.91		1.00	0.200
75-35-4	1,1-Dichloroethene	54.19		1.00	0.250
78-87-5	1,2-Dichloropropane	54.00		1.00	0.250
100-41-4	Ethylbenzene	52.79		1.00	0.190
591-78-6	2-Hexanone	250.5		5.00	1.28
98-82-8	Isopropylbenzene	53.16		1.00	0.330
79-20-9	Methyl acetate	185.9		10.0	0.720
108-87-2	Methylcyclohexane	49.83		5.00	0.200
75-09-2	Methylene Chloride	51.71		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	256.1		5.00	0.810
1634-04-4	Methyl tert-butyl ether	47.68		1.00	0.170
103-65-1	N-Propylbenzene	55.59		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-123017/3

Matrix: Water | Lab File ID: 1119-03.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 11/19/2013 12:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 123017 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	55.57		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	50.25		1.00	0.190
127-18-4	Tetrachloroethene	54.23		1.00	0.140
109-99-9	Tetrahydrofuran	63.18		5.00	2.84
108-88-3	Toluene	54.81		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	52.65		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	53.38		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	51.62		1.00	0.200
71-55-6	1,1,1-Trichloroethane	51.33		1.00	0.190
79-00-5	1,1,2-Trichloroethane	49.91		1.00	0.190
79-01-6	Trichloroethene	49.60		1.00	0.200
75-69-4	Trichlorofluoromethane	55.30		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	51.48		1.00	0.330
75-01-4	Vinyl chloride	52.63		1.00	0.180
1330-20-7	Xylenes, Total	106.3		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		70-130
1868-53-7	Dibromofluoromethane (Surr)	96		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
2037-26-5	Toluene-d8 (Surr)	105		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131119-28678.b\1119-03.D
Lims ID: lcs Lab Sample ID: LCS 490-123018/3-A
Client ID:
Sample Type: LCS
Inject. Date: 19-Nov-2013 12:17:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 490-0028678-003
Operator ID: MJH HP35 Instrument ID: HP35

Method: \\Nvlchrom\ChromData\HP35\20131119-28678.b\8260HP35.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 20-Nov-2013 10:01:20 Calib Date: 02-Oct-2013 00:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D

Column 1 : Detector MS SCAN
Process Host: XAWRK040

First Level Reviewer: haleyj Date: 20-Nov-2013 10:01:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.141	4.146	-0.005	98	1026228	25.0	
* 2 Chlorobenzene-d5	117	6.525	6.530	-0.005	85	753617	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.679	8.678	0.001	73	422424	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.703	3.702	0.001	73	233479	24.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.940	3.939	0.001	87	226922	23.6	
$ 6 Toluene-d8 (Surr)	98	5.303	5.308	-0.005	82	1006664	26.3	
$ 7 4-Bromofluorobenzene (Surr)	95	7.584	7.589	-0.005	95	360187	25.9	
9 Dichlorodifluoromethane	85	1.385	1.384	0.001	88	523332	54.9	
10 Chloromethane	50	1.513	1.512	0.001	89	405326	34.0	
11 Vinyl chloride	62	1.573	1.579	-0.006	82	580449	52.6	
12 Butadiene	54	1.598	1.597	0.001	0	518116	49.7	
13 Bromomethane	96	1.786	1.785	0.001	90	241843	45.0	
14 Chloroethane	64	1.847	1.846	0.001	95	354935	53.2	
15 Dichlorofluoromethane	67	1.969	1.968	0.001	83	872430	57.7	
16 Trichlorofluoromethane	101	1.993	1.998	-0.005	87	752575	55.3	
17 Ethyl ether	59	2.157	2.163	-0.006	94	288202	48.6	
19 Acrolein	56	2.273	2.272	0.001	96	68217	82.4	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.279	2.284	-0.005	85	435210	51.5	
21 1,1-Dichloroethene	96	2.310	2.309	0.001	89	428707	54.2	
22 Acetone	58	2.364	2.363	0.001	100	94872	217.5	
23 Iodomethane	142	2.419	2.424	-0.005	97	382437	34.5	
25 Isopropyl alcohol	45	2.443	2.448	-0.005	96	102897	387.8	
26 Carbon disulfide	76	2.462	2.461	0.001	99	1368354	54.0	
28 Acetonitrile	41	2.522	2.528	-0.006	75	903064	487.0	
27 3-Chloro-1-propene	76	2.522	2.528	-0.006	88	400904	48.4	
29 Methyl acetate	43	2.535	2.540	-0.005	97	881728	185.9	
30 Methylene Chloride	84	2.608	2.613	-0.005	90	463634	51.7	
31 2-Methyl-2-propanol	59	2.681	2.680	0.001	97	161315	408.6	
32 Methyl tert-butyl ether	73	2.741	2.747	-0.006	89	894648	47.7	
33 trans-1,2-Dichloroethene	61	2.760	2.759	0.001	96	652858	52.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
34 Acrylonitrile	53	2.772	2.777	-0.005	97	838075	435.4	
35 Hexane	57	2.875	2.880	-0.005	92	707895	51.2	
36 Isopropyl ether	45	3.015	3.014	0.001	88	1437914	50.6	
37 1,1-Dichloroethane	63	3.021	3.026	-0.005	84	906584	54.2	
38 Vinyl acetate	43	3.027	3.032	-0.005	97	1804079	96.1	
39 2-Chloro-1,3-butadiene	53	3.064	3.069	-0.005	88	706467	49.3	
40 Tert-butyl ethyl ether	59	3.240	3.239	0.001	94	1154872	45.4	
42 2,2-Dichloropropane	77	3.374	3.373	0.001	88	716028	54.5	
43 cis-1,2-Dichloroethene	61	3.386	3.391	-0.005	72	864296	55.8	
44 2-Butanone (MEK)	72	3.405	3.410	-0.005	91	131847	227.3	
41 Ethyl acetate	43	3.411	3.410	0.001	96	930752	110.4	
45 Propionitrile	54	3.471	3.477	-0.006	98	330918	460.9	
46 Methacrylonitrile	41	3.551	3.550	0.001	93	1489323	409.8	
47 Chlorobromomethane	130	3.557	3.562	-0.005	80	262359	49.4	
48 Chloroform	83	3.593	3.592	0.001	82	792918	50.1	
49 Tetrahydrofuran	42	3.593	3.598	-0.005	89	127703	63.2	
51 1,1,1-Trichloroethane	97	3.703	3.702	0.001	91	688040	51.3	
52 Cyclohexane	56	3.721	3.720	0.001	92	907251	52.3	
54 Carbon tetrachloride	117	3.806	3.805	0.001	74	641010	51.7	
53 1,1-Dichloropropene	75	3.806	3.805	0.001	93	650278	52.9	
55 Isobutyl alcohol	43	3.909	3.909	0.001	94	229517	471.3	
57 Benzene	78	3.958	3.957	0.001	96	1993178	49.3	
58 1,2-Dichloroethane	62	3.989	3.994	-0.005	90	534634	48.9	
59 Tert-amyl methyl ether	73	3.995	4.000	-0.005	97	1020937	48.7	
60 n-Heptane	43	4.055	4.061	-0.006	93	709000	48.6	
61 n-Butanol	56	4.378	4.377	0.001	89	137239	1153.5	
62 Trichloroethene	130	4.396	4.395	0.001	94	523056	49.6	
64 Methylcyclohexane	83	4.506	4.505	0.001	90	832809	49.8	
63 Ethyl acrylate	55	4.506	4.505	0.001	0	701104	47.2	
65 1,2-Dichloropropane	63	4.579	4.578	0.001	94	520529	54.0	
67 Methyl methacrylate	41	4.627	4.626	0.001	89	523011	84.4	
68 Dibromomethane	93	4.682	4.687	-0.005	84	216779	47.3	
69 1,4-Dioxane	88	4.700	4.699	0.001	88	46786	1048.7	
70 Dichlorobromomethane	83	4.785	4.785	0.0	91	602253	50.6	
71 2-Nitropropane	43	4.980	4.979	0.001	98	267147	91.2	
72 2-Chloroethyl vinyl ether	63	4.986	4.985	0.001	91	182975	55.0	
73 cis-1,3-Dichloropropene	75	5.114	5.113	0.001	90	747035	56.8	
74 4-Methyl-2-pentanone (MIBK)	58	5.223	5.223	0.0	96	496485	256.1	
75 Toluene	91	5.357	5.356	0.001	93	2077210	54.8	
76 trans-1,3-Dichloropropene	75	5.558	5.557	0.001	90	560268	53.4	
77 Ethyl methacrylate	69	5.582	5.588	-0.006	87	407568	50.3	
78 1,1,2-Trichloroethane	97	5.716	5.715	0.001	87	320315	49.9	
79 Tetrachloroethene	166	5.795	5.800	-0.005	93	577278	54.2	
80 1,3-Dichloropropane	76	5.856	5.855	0.001	90	588236	50.7	
81 2-Hexanone	58	5.899	5.904	-0.005	96	448058	250.5	
82 n-Butyl acetate	43	5.978	5.977	0.001	99	394229	81.0	
83 Chlorodibromomethane	127	6.057	6.056	0.001	88	301762	55.2	
84 Ethylene Dibromide	107	6.160	6.159	0.001	99	304976	50.6	
86 Chlorobenzene	112	6.550	6.555	-0.005	93	1361182	56.4	
87 Ethylbenzene	91	6.617	6.616	0.001	99	2269488	52.8	
88 1,1,1,2-Tetrachloroethane	131	6.623	6.622	0.001	85	470815	55.0	
89 m-Xylene & p-Xylene	91	6.720	6.719	0.001	99	1798551	52.7	

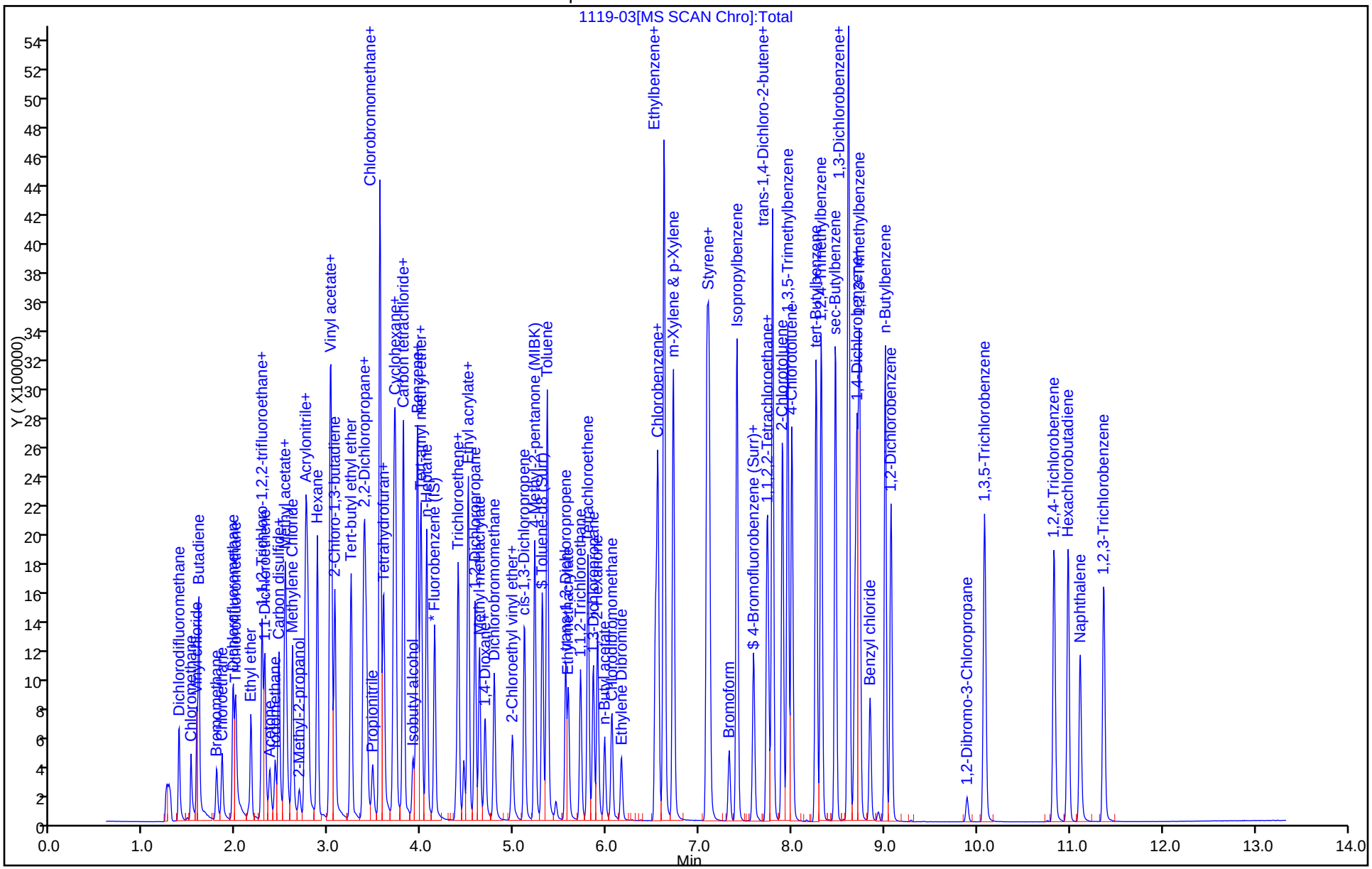
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
90 o-Xylene	91	7.085	7.084	0.001	95	1862100	53.6	
91 Styrene	104	7.103	7.108	-0.005	95	1526943	55.6	
92 Bromoform	173	7.322	7.321	0.001	98	242153	53.1	
93 Isopropylbenzene	105	7.407	7.406	0.001	96	2247724	53.2	
94 Cyclohexanone	55	7.572	7.571	0.001	90	67199	444.9	
95 Bromobenzene	77	7.730	7.729	0.001	90	821640	55.9	
96 1,1,2,2-Tetrachloroethane	83	7.748	7.747	0.001	88	334186	50.3	
97 1,2,3-Trichloropropane	110	7.785	7.790	-0.005	44	99069	54.1	
99 N-Propylbenzene	91	7.791	7.790	0.001	97	2602359	55.6	
98 trans-1,4-Dichloro-2-butene	53	7.791	7.790	0.001	30	89227	66.6	
100 2-Chlorotoluene	91	7.894	7.899	-0.005	97	1548710	59.0	
101 1,3,5-Trimethylbenzene	105	7.955	7.954	0.001	80	1886488	58.1	
102 4-Chlorotoluene	91	7.998	8.003	-0.005	96	1666136	56.7	
103 tert-Butylbenzene	119	8.259	8.258	0.001	91	1640082	58.5	
104 1,2,4-Trimethylbenzene	105	8.314	8.319	-0.005	97	1920478	58.2	
106 sec-Butylbenzene	105	8.466	8.471	-0.005	94	2322440	55.7	
107 4-Isopropyltoluene	119	8.606	8.605	0.001	94	2118760	60.1	
108 1,3-Dichlorobenzene	146	8.618	8.617	0.001	97	1154138	51.1	
109 1,4-Dichlorobenzene	146	8.703	8.702	0.001	94	1146150	56.3	
110 1,2,3-Trimethylbenzene	105	8.728	8.727	0.001	0	1904816	53.0	
111 Benzyl chloride	91	8.843	8.842	0.001	98	661345	57.3	
112 n-Butylbenzene	91	9.007	9.006	0.001	94	1822989	56.3	
113 1,2-Dichlorobenzene	146	9.068	9.067	0.001	97	1025398	51.9	
114 1,2-Dibromo-3-Chloropropane	157	9.890	9.889	0.001	77	60486	45.0	
115 1,3,5-Trichlorobenzene	180	10.078	10.077	0.001	97	958199	51.7	
116 1,2,4-Trichlorobenzene	180	10.832	10.831	0.001	93	802261	51.6	
117 Hexachlorobutadiene	225	10.985	10.984	0.001	90	481117	49.0	
118 Naphthalene	128	11.112	11.111	0.001	97	1118228	54.1	
119 1,2,3-Trichlorobenzene	180	11.368	11.367	0.001	94	664942	49.6	
S 132 1,2-Dichloroethene, Total	1				0		108.4	
S 131 Xylenes, Total	1				0		106.3	

Report Date: 20-Nov-2013 10:01:20 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131119-28678.b\1119-03.D

Injection Date:	19-Nov-2013 12:17:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	lcs	Lab Sample ID:	LCS 490-123018/3-A	Worklist Smp#:	3
Client ID:					
Purge Vol:	10.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260HP35	Limit Group:	MSV 8260B ICAL		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 490-122748/4

Matrix: Water | Lab File ID: 1118-04.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 11/18/2013 12:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122748 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	259.5		5.00	2.66
71-43-2	Benzene	50.92		1.00	0.200
74-97-5	Bromochloromethane	51.28		1.00	0.150
75-27-4	Bromodichloromethane	53.55		1.00	0.170
75-25-2	Bromoform	58.01		1.00	0.290
74-83-9	Bromomethane	42.52		1.00	0.350
78-93-3	2-Butanone (MEK)	254.7		50.0	2.64
75-15-0	Carbon disulfide	57.72		1.00	0.220
56-23-5	Carbon tetrachloride	51.15		1.00	0.180
108-90-7	Chlorobenzene	60.85		1.00	0.180
124-48-1	Chlorodibromomethane	61.21		1.00	0.250
75-00-3	Chloroethane	55.74		1.00	0.360
67-66-3	Chloroform	52.00		1.00	0.230
74-87-3	Chloromethane	35.52		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	59.35		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	59.74		1.00	0.170
110-82-7	Cyclohexane	51.96		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	46.98		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	53.92		1.00	0.210
95-50-1	1,2-Dichlorobenzene	52.96		1.00	0.190
541-73-1	1,3-Dichlorobenzene	51.88		1.00	0.180
106-46-7	1,4-Dichlorobenzene	57.20		1.00	0.170
75-71-8	Dichlorodifluoromethane	53.98		1.00	0.170
75-34-3	1,1-Dichloroethane	58.54		1.00	0.240
107-06-2	1,2-Dichloroethane	51.67		1.00	0.200
75-35-4	1,1-Dichloroethene	56.82		1.00	0.250
78-87-5	1,2-Dichloropropane	56.63		1.00	0.250
100-41-4	Ethylbenzene	56.72		1.00	0.190
591-78-6	2-Hexanone	258.9		5.00	1.28
98-82-8	Isopropylbenzene	57.66		1.00	0.330
79-20-9	Methyl acetate	214.4		10.0	0.720
108-87-2	Methylcyclohexane	50.66		5.00	0.200
75-09-2	Methylene Chloride	56.31		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	272.7		5.00	0.810
1634-04-4	Methyl tert-butyl ether	51.52		1.00	0.170
103-65-1	N-Propylbenzene	55.04		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 490-122748/4

Matrix: Water | Lab File ID: 1118-04.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 11/18/2013 12:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122748 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	58.58		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	50.60		1.00	0.190
127-18-4	Tetrachloroethene	59.35		1.00	0.140
109-99-9	Tetrahydrofuran	75.58		5.00	2.84
108-88-3	Toluene	57.94		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	60.44		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	56.67		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	51.95		1.00	0.200
71-55-6	1,1,1-Trichloroethane	53.78		1.00	0.190
79-00-5	1,1,2-Trichloroethane	54.96		1.00	0.190
79-01-6	Trichloroethene	50.93		1.00	0.200
75-69-4	Trichlorofluoromethane	56.76		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	55.32		1.00	0.330
75-01-4	Vinyl chloride	52.46		1.00	0.180
1330-20-7	Xylenes, Total	112.5		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		70-130
1868-53-7	Dibromofluoromethane (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	107		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-04.D
Lims ID: lcsd Lab Sample ID: LCSD 490-122749/4-A
Client ID:
Sample Type: LCSD
Inject. Date: 18-Nov-2013 12:08:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 490-0028621-004
Operator ID: MJH HP35 Instrument ID: HP35

Method: \\Nvlchrom\ChromData\HP35\20131118-28621.b\8260HP35.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 19-Nov-2013 18:22:13 Calib Date: 02-Oct-2013 00:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D

Column 1 : Detector MS SCAN
Process Host: XAWRK006

First Level Reviewer: himelickm Date: 19-Nov-2013 18:23:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.143	4.138	0.005	99	868439	25.0	
* 2 Chlorobenzene-d5	117	6.528	6.529	-0.001	83	614555	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.676	8.676	0.0	81	382330	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.699	3.700	-0.001	77	201409	24.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.937	3.937	0.0	91	194880	23.9	
$ 6 Toluene-d8 (Surr)	98	5.305	5.306	-0.001	82	836246	26.8	
$ 7 4-Bromofluorobenzene (Surr)	95	7.587	7.587	0.0	96	302017	24.0	
9 Dichlorodifluoromethane	85	1.381	1.382	-0.001	87	435155	54.0	
10 Chloromethane	50	1.515	1.510	0.005	89	357834	35.5	
11 Vinyl chloride	62	1.576	1.577	-0.001	82	489641	52.5	
12 Butadiene	54	1.594	1.595	-0.001	0	450886	51.1	
13 Bromomethane	96	1.789	1.790	-0.001	90	193490	42.5	
14 Chloroethane	64	1.844	1.844	0.0	95	314626	55.7	
15 Dichlorofluoromethane	67	1.965	1.966	-0.001	79	724196	56.6	
16 Trichlorofluoromethane	101	1.990	1.996	-0.006	87	653619	56.8	
18 Ethanol	45	2.160	2.161	-0.001	74	305123	2603.4	
17 Ethyl ether	59	2.160	2.161	-0.001	94	276117	55.1	
19 Acrolein	56	2.270	2.270	0.0	94	68564	97.9	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.276	2.282	-0.006	86	395818	55.3	
21 1,1-Dichloroethene	96	2.306	2.307	-0.001	87	380330	56.8	
22 Acetone	58	2.367	2.368	-0.001	100	95643	259.5	
23 Iodomethane	142	2.422	2.422	0.0	98	342899	36.5	
25 Isopropyl alcohol	45	2.452	2.447	0.005	94	104050	463.8	
26 Carbon disulfide	76	2.458	2.459	-0.001	100	1236512	57.7	
28 Acetonitrile	41	2.525	2.526	-0.001	76	851344	543.3	
27 3-Chloro-1-propene	76	2.525	2.526	-0.001	90	323663	46.1	
29 Methyl acetate	43	2.537	2.538	-0.001	98	860061	214.4	
30 Methylene Chloride	84	2.604	2.605	-0.001	91	426894	56.3	
31 2-Methyl-2-propanol	59	2.683	2.684	-0.001	97	160939	481.8	
32 Methyl tert-butyl ether	73	2.744	2.745	-0.001	90	817716	51.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
33 trans-1,2-Dichloroethene	61	2.756	2.757	-0.001	95	633506	60.4	
34 Acrylonitrile	53	2.775	2.775	0.0	97	820424	503.6	
35 Hexane	57	2.878	2.879	0.0	93	627709	53.7	
36 Isopropyl ether	45	3.012	3.012	0.0	91	1308020	54.5	
37 1,1-Dichloroethane	63	3.024	3.025	-0.001	84	828114	58.5	
38 Vinyl acetate	43	3.030	3.031	-0.001	97	1652402	104.0	
39 2-Chloro-1,3-butadiene	53	3.067	3.061	0.006	87	629760	52.0	
40 Tert-butyl ethyl ether	59	3.237	3.237	0.0	94	1075147	49.9	
42 2,2-Dichloropropane	77	3.371	3.371	0.0	90	640908	57.7	
43 cis-1,2-Dichloroethene	61	3.389	3.390	-0.001	71	777826	59.3	
44 2-Butanone (MEK)	72	3.407	3.408	-0.001	91	125012	254.7	
41 Ethyl acetate	43	3.407	3.408	-0.001	95	869254	121.8	
45 Propionitrile	54	3.474	3.475	-0.001	98	302736	498.3	
46 Methacrylonitrile	41	3.547	3.548	-0.001	93	1396502	454.1	
47 Chlorobromomethane	130	3.553	3.554	-0.001	73	230272	51.3	
48 Chloroform	83	3.590	3.590	0.0	81	696156	52.0	
49 Tetrahydrofuran	42	3.596	3.596	0.0	91	129303	75.6	
51 1,1,1-Trichloroethane	97	3.699	3.700	-0.001	93	609931	53.8	
52 Cyclohexane	56	3.718	3.718	0.0	92	762169	52.0	
53 1,1-Dichloropropene	75	3.803	3.803	0.0	92	562261	54.1	
54 Carbon tetrachloride	117	3.803	3.803	0.0	77	536871	51.2	
55 Isobutyl alcohol	43	3.906	3.907	-0.001	93	208792	507.2	
57 Benzene	78	3.955	3.955	0.0	96	1741168	50.9	
58 1,2-Dichloroethane	62	3.991	3.986	0.005	79	477854	51.7	
59 Tert-amyl methyl ether	73	3.997	3.998	-0.001	96	869246	49.0	
60 n-Heptane	43	4.052	4.053	-0.001	93	610350	49.4	
61 n-Butanol	56	4.375	4.375	0.0	90	123618	1227.4	
62 Trichloroethene	130	4.393	4.393	0.0	93	454464	50.9	
63 Ethyl acrylate	55	4.502	4.503	-0.001	0	610614	48.5	
64 Methylcyclohexane	83	4.502	4.503	-0.001	90	716488	50.7	
65 1,2-Dichloropropane	63	4.575	4.576	-0.001	94	461797	56.6	
67 Methyl methacrylate	41	4.624	4.624	0.0	89	474025	90.4	
68 Dibromomethane	93	4.685	4.685	0.0	84	190647	49.2	
69 1,4-Dioxane	88	4.697	4.697	0.0	93	38613	1022.7	
70 Dichlorobromomethane	83	4.782	4.783	-0.001	90	539435	53.5	
71 2-Nitropropane	43	4.977	4.977	0.0	97	238803	96.3	
72 2-Chloroethyl vinyl ether	63	4.983	4.983	0.0	86	160237	59.0	
73 cis-1,3-Dichloropropene	75	5.111	5.111	0.0	89	640324	59.7	
74 4-Methyl-2-pentanone (MIBK)	58	5.220	5.221	-0.001	97	431170	272.7	
75 Toluene	91	5.354	5.354	0.0	93	1789822	57.9	
76 trans-1,3-Dichloropropene	75	5.555	5.555	0.0	94	485063	56.7	
77 Ethyl methacrylate	69	5.585	5.586	-0.001	89	355840	53.8	
78 1,1,2-Trichloroethane	97	5.713	5.720	-0.007	87	287625	55.0	
79 Tetrachloroethene	166	5.798	5.799	-0.001	92	514970	59.3	
80 1,3-Dichloropropane	76	5.853	5.853	0.0	86	513811	54.3	
81 2-Hexanone	58	5.902	5.902	0.0	96	377620	258.9	
82 n-Butyl acetate	43	5.975	5.975	-0.001	98	324653	78.9	
83 Chlorodibromomethane	127	6.054	6.054	0.0	85	273087	61.2	
84 Ethylene Dibromide	107	6.157	6.158	-0.001	99	264835	53.9	
86 Chlorobenzene	112	6.552	6.553	-0.001	94	1197774	60.8	
87 Ethylbenzene	91	6.619	6.620	-0.001	99	1988604	56.7	
88 1,1,1,2-Tetrachloroethane	131	6.619	6.620	-0.001	88	425853	61.0	

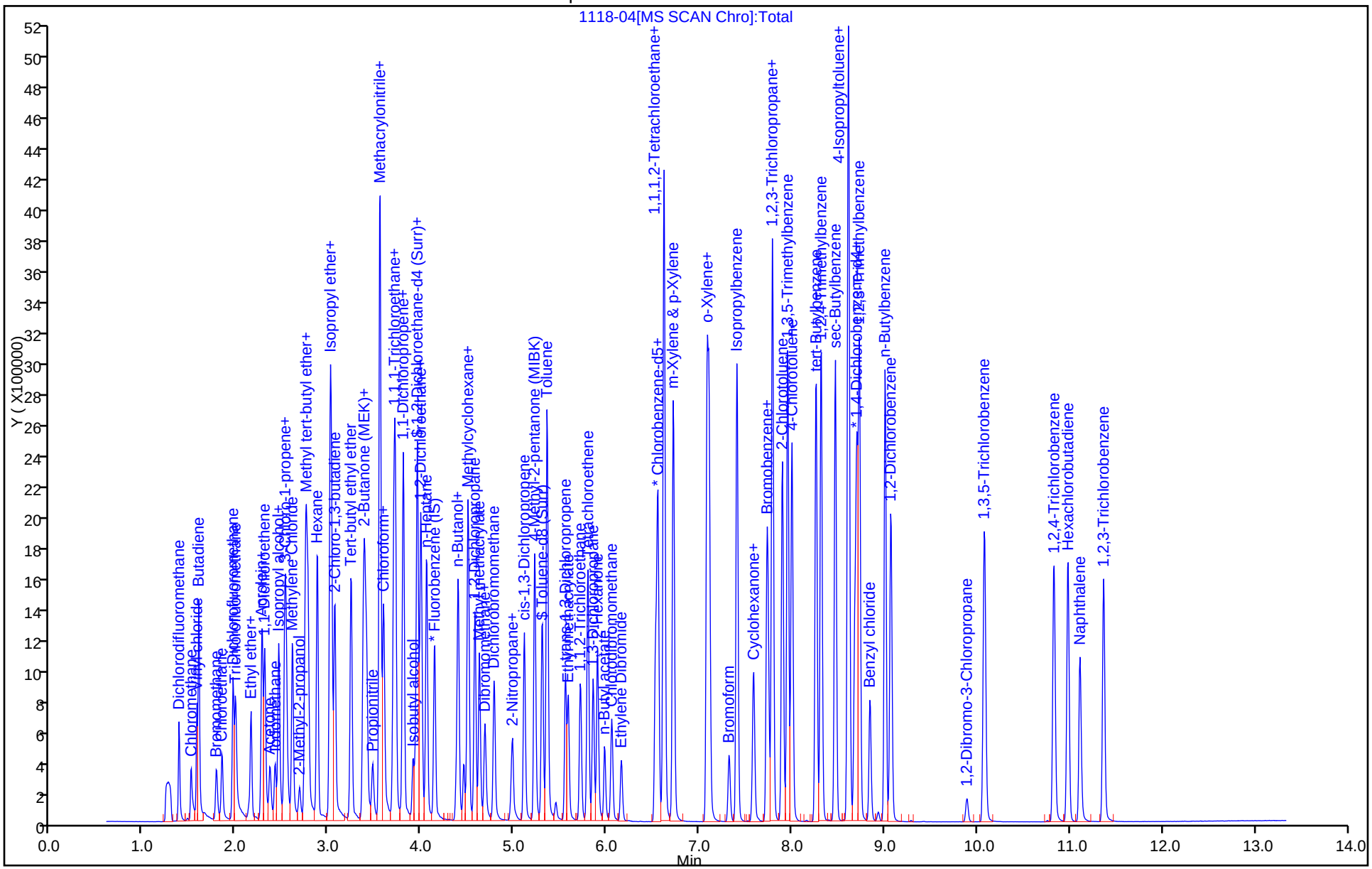
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
89 m-Xylene & p-Xylene	91	6.717	6.717	0.0	99	1584497	56.9	
90 o-Xylene	91	7.082	7.082	0.0	96	1574696	55.6	
91 Styrene	104	7.106	7.107	-0.001	95	1312433	58.6	
92 Bromoform	173	7.319	7.319	0.0	98	215825	58.0	
93 Isopropylbenzene	105	7.404	7.405	-0.001	96	1988132	57.7	
94 Cyclohexanone	55	7.574	7.575	-0.001	90	57386	449.0	
95 Bromobenzene	77	7.727	7.727	0.0	91	732175	55.1	
96 1,1,2,2-Tetrachloroethane	83	7.745	7.745	0.0	93	304558	50.6	
97 1,2,3-Trichloropropane	110	7.787	7.782	0.005	63	88305	53.3	
98 trans-1,4-Dichloro-2-butene	53	7.787	7.788	-0.001	31	81238	67.0	
99 N-Propylbenzene	91	7.787	7.788	-0.001	97	2331894	55.0	
100 2-Chlorotoluene	91	7.897	7.897	0.0	97	1362159	57.3	
101 1,3,5-Trimethylbenzene	105	7.952	7.952	0.0	72	1711808	58.2	
102 4-Chlorotoluene	91	8.000	8.001	-0.001	96	1499594	56.4	
103 tert-Butylbenzene	119	8.262	8.262	0.0	90	1482671	58.5	
104 1,2,4-Trimethylbenzene	105	8.317	8.317	0.0	97	1769559	59.2	
106 sec-Butylbenzene	105	8.469	8.469	0.0	94	2102451	55.7	
107 4-Isopropyltoluene	119	8.609	8.603	0.006	94	1915692	60.0	
108 1,3-Dichlorobenzene	146	8.615	8.615	0.0	97	1060089	51.9	
109 1,4-Dichlorobenzene	146	8.700	8.700	0.0	94	1054436	57.2	
110 1,2,3-Trimethylbenzene	105	8.730	8.725	0.005	0	1727423	53.1	
111 Benzyl chloride	91	8.840	8.840	0.0	98	607607	64.5	
112 n-Butylbenzene	91	9.004	9.005	-0.001	94	1652130	56.4	
113 1,2-Dichlorobenzene	146	9.071	9.065	0.006	98	947096	53.0	
114 1,2-Dibromo-3-Chloropropane	157	9.892	9.887	0.005	77	57298	47.0	
115 1,3,5-Trichlorobenzene	180	10.075	10.075	0.0	94	866043	51.6	
116 1,2,4-Trichlorobenzene	180	10.829	10.830	-0.001	93	730780	52.0	
117 Hexachlorobutadiene	225	10.981	10.982	-0.001	90	438720	49.4	
118 Naphthalene	128	11.109	11.109	0.0	97	1032663	55.2	
119 1,2,3-Trichlorobenzene	180	11.364	11.365	-0.001	94	625669	51.6	
S 132 1,2-Dichloroethene, Total	1				0		119.8	
S 131 Xylenes, Total	1				0		112.5	

Report Date: 19-Nov-2013 18:23:17 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-04.D

Injection Date:	18-Nov-2013 12:08:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	lcsd	Lab Sample ID:	LCSD 490-122749/4-A	Worklist Smp#:	4
Client ID:					
Purge Vol:	10.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260HP35	Limit Group:	MSV 8260B ICAL		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 490-123017/4

Matrix: Water | Lab File ID: 1119-04.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 11/19/2013 12:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 123017 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	235.8		5.00	2.66
71-43-2	Benzene	48.11		1.00	0.200
74-97-5	Bromochloromethane	48.26		1.00	0.150
75-27-4	Bromodichloromethane	50.47		1.00	0.170
75-25-2	Bromoform	52.90		1.00	0.290
74-83-9	Bromomethane	46.24		1.00	0.350
78-93-3	2-Butanone (MEK)	236.6		50.0	2.64
75-15-0	Carbon disulfide	53.92		1.00	0.220
56-23-5	Carbon tetrachloride	48.04		1.00	0.180
108-90-7	Chlorobenzene	56.40		1.00	0.180
124-48-1	Chlorodibromomethane	56.69		1.00	0.250
75-00-3	Chloroethane	51.26		1.00	0.360
67-66-3	Chloroform	49.46		1.00	0.230
74-87-3	Chloromethane	33.42		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	55.35		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	56.42		1.00	0.170
110-82-7	Cyclohexane	50.16		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	44.63		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	50.27		1.00	0.210
95-50-1	1,2-Dichlorobenzene	50.22		1.00	0.190
541-73-1	1,3-Dichlorobenzene	49.45		1.00	0.180
106-46-7	1,4-Dichlorobenzene	55.12		1.00	0.170
75-71-8	Dichlorodifluoromethane	52.31		1.00	0.170
75-34-3	1,1-Dichloroethane	55.02		1.00	0.240
107-06-2	1,2-Dichloroethane	47.52		1.00	0.200
75-35-4	1,1-Dichloroethene	53.43		1.00	0.250
78-87-5	1,2-Dichloropropane	53.04		1.00	0.250
100-41-4	Ethylbenzene	52.08		1.00	0.190
591-78-6	2-Hexanone	243.5		5.00	1.28
98-82-8	Isopropylbenzene	52.23		1.00	0.330
79-20-9	Methyl acetate	197.3		10.0	0.720
108-87-2	Methylcyclohexane	48.93		5.00	0.200
75-09-2	Methylene Chloride	51.47		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	256.3		5.00	0.810
1634-04-4	Methyl tert-butyl ether	48.20		1.00	0.170
103-65-1	N-Propylbenzene	53.46		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 490-123017/4

Matrix: Water | Lab File ID: 1119-04.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 11/19/2013 12:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 123017 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	53.68		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	48.58		1.00	0.190
127-18-4	Tetrachloroethene	56.34		1.00	0.140
109-99-9	Tetrahydrofuran	71.53		5.00	2.84
108-88-3	Toluene	53.95		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	52.48		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	52.76		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	50.27		1.00	0.200
71-55-6	1,1,1-Trichloroethane	49.64		1.00	0.190
79-00-5	1,1,2-Trichloroethane	51.28		1.00	0.190
79-01-6	Trichloroethene	48.83		1.00	0.200
75-69-4	Trichlorofluoromethane	53.33		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	50.62		1.00	0.330
75-01-4	Vinyl chloride	50.98		1.00	0.180
1330-20-7	Xylenes, Total	103.6		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
1868-53-7	Dibromofluoromethane (Surr)	94		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		70-130
2037-26-5	Toluene-d8 (Surr)	106		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131119-28678.b\1119-04.D
Lims ID: lcsd Lab Sample ID: LCSD 490-123018/4-A
Client ID:
Sample Type: LCSD
Inject. Date: 19-Nov-2013 12:48:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 490-0028678-004
Operator ID: MJH HP35 Instrument ID: HP35

Method: \\Nvlchrom\ChromData\HP35\20131119-28678.b\8260HP35.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 20-Nov-2013 10:02:01 Calib Date: 02-Oct-2013 00:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D

Column 1 : Detector MS SCAN
Process Host: XAWRK040

First Level Reviewer: haleyj Date: 20-Nov-2013 10:02:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.146	4.146	0.0	99	1013145	25.0	
* 2 Chlorobenzene-d5	117	6.530	6.530	0.0	83	736670	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.678	8.678	0.0	66	425813	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.702	3.702	0.0	72	225593	23.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.939	3.939	0.0	91	221290	23.3	
$ 6 Toluene-d8 (Surr)	98	5.308	5.308	0.0	91	986022	26.4	
$ 7 4-Bromofluorobenzene (Surr)	95	7.589	7.589	0.0	96	353830	25.2	
9 Dichlorodifluoromethane	85	1.384	1.384	0.0	89	491933	52.3	
10 Chloromethane	50	1.512	1.512	0.0	88	393386	33.4	
11 Vinyl chloride	62	1.578	1.579	-0.001	94	555115	51.0	
12 Butadiene	54	1.597	1.597	0.0	0	491135	47.7	
13 Bromomethane	96	1.791	1.785	0.006	90	245641	46.2	
14 Chloroethane	64	1.846	1.846	0.0	95	337704	51.3	
15 Dichlorofluoromethane	67	1.968	1.968	0.0	83	800530	53.6	
16 Trichlorofluoromethane	101	1.992	1.998	-0.006	88	716407	53.3	
17 Ethyl ether	59	2.162	2.163	-0.001	91	295226	50.4	
19 Acrolein	56	2.272	2.272	0.0	91	75447	92.3	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.278	2.284	-0.006	86	422554	50.6	
21 1,1-Dichloroethene	96	2.308	2.309	-0.001	88	417318	53.4	
22 Acetone	58	2.363	2.363	0.0	100	101475	235.8	
23 Iodomethane	142	2.424	2.424	0.0	97	394144	36.0	
25 Isopropyl alcohol	45	2.448	2.448	0.0	98	106516	406.7	
26 Carbon disulfide	76	2.461	2.461	0.0	99	1348083	53.9	
28 Acetonitrile	41	2.527	2.528	-0.001	77	932625	509.8	
27 3-Chloro-1-propene	76	2.527	2.528	-0.001	89	378808	46.3	
29 Methyl acetate	43	2.540	2.540	0.0	98	923643	197.3	
30 Methylene Chloride	84	2.607	2.613	-0.006	91	455631	51.5	
31 2-Methyl-2-propanol	59	2.686	2.680	0.006	97	161650	414.8	
32 Methyl tert-butyl ether	73	2.746	2.747	-0.001	89	892707	48.2	
33 trans-1,2-Dichloroethene	61	2.759	2.759	0.0	94	642408	52.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
34 Acrylonitrile	53	2.777	2.777	0.0	97	896013	471.5	
35 Hexane	57	2.880	2.880	0.0	92	681719	50.0	
36 Isopropyl ether	45	3.014	3.014	0.0	91	1459224	52.0	
37 1,1-Dichloroethane	63	3.026	3.026	0.0	82	908417	55.0	
38 Vinyl acetate	43	3.032	3.032	0.0	97	1802867	97.2	
39 2-Chloro-1,3-butadiene	53	3.063	3.069	-0.006	87	696418	49.2	
40 Tert-butyl ethyl ether	59	3.239	3.239	0.0	94	1139331	45.4	
42 2,2-Dichloropropane	77	3.373	3.373	0.0	90	692075	53.4	
43 cis-1,2-Dichloroethene	61	3.391	3.391	0.0	71	846739	55.4	
44 2-Butanone (MEK)	72	3.410	3.410	0.0	96	135501	236.6	
41 Ethyl acetate	43	3.410	3.410	0.0	95	925060	111.1	
45 Propionitrile	54	3.476	3.477	-0.001	99	334739	472.3	
46 Methacrylonitrile	41	3.549	3.550	-0.001	92	1491097	415.6	
47 Chlorobromomethane	130	3.556	3.562	-0.006	75	252926	48.3	
48 Chloroform	83	3.592	3.592	0.0	81	772831	49.5	
49 Tetrahydrofuran	42	3.598	3.598	0.0	73	142757	71.5	
51 1,1,1-Trichloroethane	97	3.702	3.702	0.0	93	657064	49.6	
52 Cyclohexane	56	3.720	3.720	0.0	92	858433	50.2	
53 1,1-Dichloropropene	75	3.805	3.805	0.0	93	618530	51.0	
54 Carbon tetrachloride	117	3.805	3.805	0.0	74	588252	48.0	
55 Isobutyl alcohol	43	3.908	3.909	0.0	93	216902	450.9	
57 Benzene	78	3.957	3.957	0.0	96	1919282	48.1	
58 1,2-Dichloroethane	62	3.994	3.994	0.0	79	512898	47.5	
59 Tert-amyl methyl ether	73	4.000	4.000	0.0	97	998353	48.3	
60 n-Heptane	43	4.054	4.061	-0.007	93	663606	46.1	
61 n-Butanol	56	4.377	4.377	0.0	89	127971	1089.8	
62 Trichloroethene	130	4.395	4.395	0.0	94	508399	48.8	
63 Ethyl acrylate	55	4.505	4.505	0.0	0	689546	47.0	
64 Methylcyclohexane	83	4.505	4.505	0.0	91	807467	48.9	
65 1,2-Dichloropropane	63	4.578	4.578	0.0	94	504896	53.0	
67 Methyl methacrylate	41	4.626	4.626	0.0	88	505324	82.6	
68 Dibromomethane	93	4.687	4.687	0.0	83	204202	45.1	
69 1,4-Dioxane	88	4.699	4.699	0.0	91	41090	932.9	
70 Dichlorobromomethane	83	4.784	4.785	-0.001	93	593288	50.5	
71 2-Nitropropane	43	4.979	4.979	0.0	98	262976	90.9	
72 2-Chloroethyl vinyl ether	63	4.985	4.985	0.0	87	178216	54.8	
73 cis-1,3-Dichloropropene	75	5.113	5.113	0.0	90	724983	56.4	
74 4-Methyl-2-pentanone (MIBK)	58	5.222	5.223	-0.001	97	485768	256.3	
75 Toluene	91	5.356	5.356	0.0	93	1998918	53.9	
76 trans-1,3-Dichloropropene	75	5.557	5.557	0.0	90	541282	52.8	
77 Ethyl methacrylate	69	5.587	5.588	-0.001	89	405702	51.2	
78 1,1,2-Trichloroethane	97	5.715	5.715	0.0	86	321710	51.3	
79 Tetrachloroethene	166	5.800	5.800	0.0	92	586097	56.3	
80 1,3-Dichloropropane	76	5.855	5.855	0.0	89	575310	50.7	
81 2-Hexanone	58	5.904	5.904	0.0	96	425731	243.5	
82 n-Butyl acetate	43	5.977	5.977	0.0	98	371774	77.4	
83 Chlorodibromomethane	127	6.056	6.056	0.0	88	303184	56.7	
84 Ethylene Dibromide	107	6.159	6.159	0.0	98	295991	50.3	
86 Chlorobenzene	112	6.555	6.555	0.0	94	1331312	56.4	
87 Ethylbenzene	91	6.616	6.616	0.0	98	2188669	52.1	
88 1,1,1,2-Tetrachloroethane	131	6.622	6.622	0.0	88	473293	56.5	
89 m-Xylene & p-Xylene	91	6.719	6.719	0.0	99	1744367	52.3	

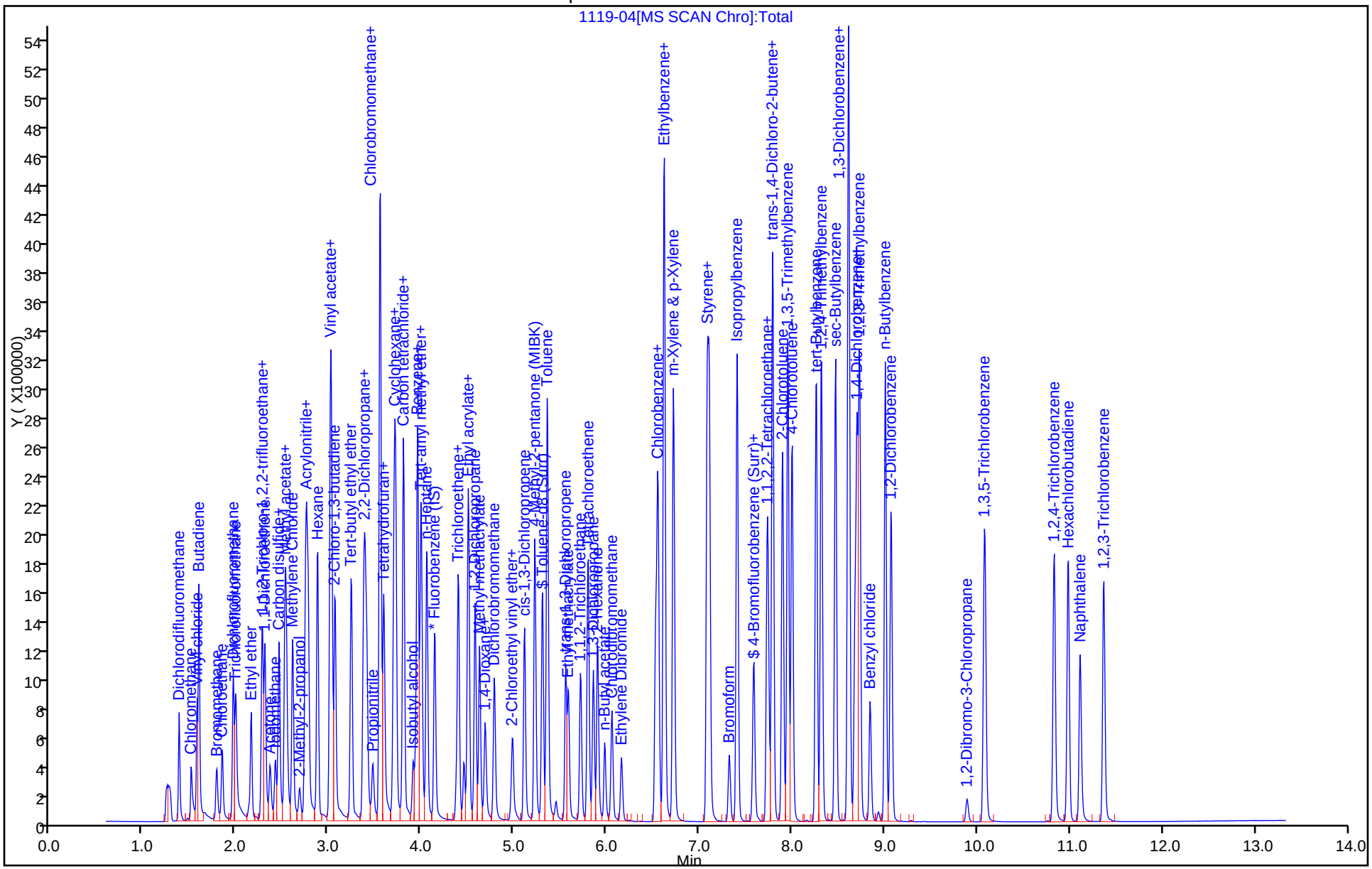
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
90 o-Xylene	91	7.084	7.084	0.0	96	1743650	51.3	
91 Styrene	104	7.108	7.108	0.0	95	1442016	53.7	
92 Bromoform	173	7.321	7.321	0.0	98	235735	52.9	
93 Isopropylbenzene	105	7.406	7.406	0.0	96	2158901	52.2	
94 Cyclohexanone	55	7.577	7.571	0.006	91	59066	395.3	
95 Bromobenzene	77	7.729	7.729	0.0	90	816490	55.1	
96 1,1,2,2-Tetrachloroethane	83	7.747	7.747	0.0	87	325631	48.6	
98 trans-1,4-Dichloro-2-butene	53	7.790	7.790	0.0	33	86417	64.0	
99 N-Propylbenzene	91	7.790	7.790	0.0	97	2522663	53.5	
97 1,2,3-Trichloropropane	110	7.784	7.790	-0.006	83	95743	51.8	
100 2-Chlorotoluene	91	7.899	7.899	0.0	97	1506367	56.9	
101 1,3,5-Trimethylbenzene	105	7.954	7.954	0.0	74	1845910	56.4	
102 4-Chlorotoluene	91	8.003	8.003	0.0	96	1594148	53.8	
103 tert-Butylbenzene	119	8.264	8.258	0.006	90	1594251	56.4	
104 1,2,4-Trimethylbenzene	105	8.319	8.319	0.0	97	1882559	56.6	
106 sec-Butylbenzene	105	8.471	8.471	0.0	94	2251307	53.6	
107 4-Isopropyltoluene	119	8.605	8.605	0.0	96	2054717	57.8	
108 1,3-Dichlorobenzene	146	8.617	8.617	0.0	97	1125362	49.5	
109 1,4-Dichlorobenzene	146	8.702	8.702	0.0	95	1131851	55.1	
110 1,2,3-Trimethylbenzene	105	8.726	8.727	-0.001	0	1865705	51.5	
111 Benzyl chloride	91	8.842	8.842	0.0	98	637109	56.4	
112 n-Butylbenzene	91	9.006	9.006	0.0	94	1747295	53.6	
113 1,2-Dichlorobenzene	146	9.067	9.067	0.0	97	1000220	50.2	
114 1,2-Dibromo-3-Chloropropane	157	9.888	9.889	-0.001	76	60520	44.6	
115 1,3,5-Trichlorobenzene	180	10.077	10.077	0.0	94	928634	49.7	
116 1,2,4-Trichlorobenzene	180	10.831	10.831	0.0	93	787605	50.3	
117 Hexachlorobutadiene	225	10.983	10.984	-0.001	90	466766	47.2	
118 Naphthalene	128	11.111	11.111	0.0	97	1113313	53.5	
119 1,2,3-Trichlorobenzene	180	11.367	11.367	0.0	94	669701	49.6	
S 132 1,2-Dichloroethene, Total	1				0		107.8	
S 131 Xylenes, Total	1				0		103.6	

Report Date: 20-Nov-2013 10:02:01 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131119-28678.b\1119-04.D

Injection Date:	19-Nov-2013 12:48:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	lcsd	Lab Sample ID:	LCSD 490-123018/4-A	Worklist Smp#:	4
Client ID:					
Purge Vol:	10.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260HP35	Limit Group:	MSV 8260B ICAL		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: MW-03B-GW-001 MS | Lab Sample ID: 490-39837-2 MS

Matrix: Water | Lab File ID: 1118-15.D

Analysis Method: 8260B | Date Collected: 11/07/2013 13:19

Sample wt/vol: 10(mL) | Date Analyzed: 11/18/2013 17:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122748 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	230.8		5.00	2.66
71-43-2	Benzene	53.71		1.00	0.200
74-97-5	Bromochloromethane	52.47		1.00	0.150
75-27-4	Bromodichloromethane	53.78		1.00	0.170
75-25-2	Bromoform	58.88		1.00	0.290
74-83-9	Bromomethane	41.83		1.00	0.350
78-93-3	2-Butanone (MEK)	233.6		50.0	2.64
75-15-0	Carbon disulfide	58.65		1.00	0.220
56-23-5	Carbon tetrachloride	58.68		1.00	0.180
108-90-7	Chlorobenzene	64.01		1.00	0.180
124-48-1	Chlorodibromomethane	63.40		1.00	0.250
75-00-3	Chloroethane	55.09		1.00	0.360
67-66-3	Chloroform	53.69		1.00	0.230
74-87-3	Chloromethane	35.98		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	92.23		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	56.34		1.00	0.170
110-82-7	Cyclohexane	54.52		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	43.55		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	54.27		1.00	0.210
95-50-1	1,2-Dichlorobenzene	53.77		1.00	0.190
541-73-1	1,3-Dichlorobenzene	53.54		1.00	0.180
106-46-7	1,4-Dichlorobenzene	58.86		1.00	0.170
75-71-8	Dichlorodifluoromethane	56.97		1.00	0.170
75-34-3	1,1-Dichloroethane	61.43		1.00	0.240
107-06-2	1,2-Dichloroethane	54.09		1.00	0.200
75-35-4	1,1-Dichloroethene	61.88		1.00	0.250
78-87-5	1,2-Dichloropropane	57.63		1.00	0.250
100-41-4	Ethylbenzene	59.81		1.00	0.190
591-78-6	2-Hexanone	236.8		5.00	1.28
98-82-8	Isopropylbenzene	61.36		1.00	0.330
79-20-9	Methyl acetate	212.1		10.0	0.720
108-87-2	Methylcyclohexane	52.67		5.00	0.200
75-09-2	Methylene Chloride	54.27		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	242.7		5.00	0.810
1634-04-4	Methyl tert-butyl ether	48.02		1.00	0.170
103-65-1	N-Propylbenzene	57.00		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: MW-03B-GW-001 MS | Lab Sample ID: 490-39837-2 MS

Matrix: Water | Lab File ID: 1118-15.D

Analysis Method: 8260B | Date Collected: 11/07/2013 13:19

Sample wt/vol: 10(mL) | Date Analyzed: 11/18/2013 17:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122748 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	62.15		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	50.50		1.00	0.190
127-18-4	Tetrachloroethene	64.35		1.00	0.140
109-99-9	Tetrahydrofuran	93.31		5.00	2.84
108-88-3	Toluene	60.87		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	60.22		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	54.64		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	50.01		1.00	0.200
71-55-6	1,1,1-Trichloroethane	57.08		1.00	0.190
79-00-5	1,1,2-Trichloroethane	55.78		1.00	0.190
79-01-6	Trichloroethene	54.75		1.00	0.200
75-69-4	Trichlorofluoromethane	61.41		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	59.46		1.00	0.330
75-01-4	Vinyl chloride	630.4		1.00	0.180
1330-20-7	Xylenes, Total	117.3		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		70-130
1868-53-7	Dibromofluoromethane (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	110		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-15.D
Lims ID: 490-39837-A-2 MS Lab Sample ID: 490-39837-2
Client ID: MW-03B-GW-001
Sample Type: MS
Inject. Date: 18-Nov-2013 17:47:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: 490-39837-A-2 MS
Misc. Info.: 490-0028621-015
Operator ID: MJH HP35 Instrument ID: HP35

Method: \\Nvlchrom\ChromData\HP35\20131118-28621.b\8260HP35.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 19-Nov-2013 18:31:11 Calib Date: 02-Oct-2013 00:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D

Column 1 : Detector MS SCAN
Process Host: XAWRK006

First Level Reviewer: himelickm Date: 19-Nov-2013 18:31:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.139	4.138	0.001	98	817374	25.0	
* 2 Chlorobenzene-d5	117	6.530	6.529	0.001	82	576749	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.678	8.676	0.002	89	375193	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.701	3.700	0.001	72	189887	24.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.939	3.937	0.002	91	191818	25.0	
$ 6 Toluene-d8 (Surr)	98	5.307	5.306	0.001	82	806899	27.6	
$ 7 4-Bromofluorobenzene (Surr)	95	7.583	7.587	-0.004	96	291335	23.6	
9 Dichlorodifluoromethane	85	1.384	1.382	0.002	88	432294	57.0	
10 Chloromethane	50	1.511	1.510	0.001	89	341127	36.0	
11 Vinyl chloride	62	1.572	1.577	-0.005	75	5537689	630.4	E
12 Butadiene	54	1.596	1.595	0.001	0	426105	51.3	
13 Bromomethane	96	1.785	1.790	-0.005	90	179096	41.8	
14 Chloroethane	64	1.846	1.844	0.002	95	292700	55.1	
15 Dichlorofluoromethane	67	1.968	1.966	0.002	83	733354	60.9	
16 Trichlorofluoromethane	101	1.992	1.996	-0.004	86	665553	61.4	
18 Ethanol	45	2.162	2.162	0.001	77	273283	2476.7	
17 Ethyl ether	59	2.162	2.161	0.001	93	241830	51.2	
19 Acrolein	56	2.272	2.270	0.002	99	60650	92.0	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.278	2.282	-0.004	85	400420	59.5	
21 1,1-Dichloroethene	96	2.308	2.307	0.001	87	389758	61.9	
22 Acetone	58	2.369	2.368	0.001	100	80151	230.8	
23 Iodomethane	142	2.418	2.422	-0.004	98	334424	37.9	
25 Isopropyl alcohol	45	2.454	2.447	0.007	96	84003	397.6	
24 Ethyl bromide	108	2.436	2.456	-0.020	1	3593	0	
26 Carbon disulfide	76	2.460	2.459	0.001	99	1182329	58.6	
28 Acetonitrile	41	2.521	2.526	-0.005	77	834381	566.1	
27 3-Chloro-1-propene	76	2.521	2.526	-0.005	88	310834	47.1	
29 Methyl acetate	43	2.539	2.538	0.001	98	800876	212.1	
30 Methylene Chloride	84	2.606	2.605	0.001	91	387360	54.3	
31 2-Methyl-2-propanol	59	2.685	2.684	0.001	96	126648	402.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
32 Methyl tert-butyl ether	73	2.746	2.745	0.001	91	717630	48.0	
33 trans-1,2-Dichloroethene	61	2.758	2.757	0.001	95	594077	60.2	
34 Acrylonitrile	53	2.777	2.775	0.002	97	783878	511.3	
35 Hexane	57	2.874	2.879	-0.004	93	580848	52.8	
36 Isopropyl ether	45	3.014	3.012	0.002	89	1193769	52.8	
37 1,1-Dichloroethane	63	3.026	3.025	0.001	84	817573	61.4	
38 Vinyl acetate	43	3.032	3.031	0.001	97	1557322	104.2	
39 2-Chloro-1,3-butadiene	53	3.063	3.061	0.002	86	618720	54.3	
40 Tert-butyl ethyl ether	59	3.239	3.237	0.002	96	921895	45.5	
42 2,2-Dichloropropane	77	3.373	3.371	0.002	86	627527	60.1	
43 cis-1,2-Dichloroethene	61	3.391	3.390	0.001	69	1135217	92.2	
44 2-Butanone (MEK)	72	3.409	3.408	0.001	91	107932	233.6	
41 Ethyl acetate	43	3.409	3.408	0.001	94	766287	114.1	
45 Propionitrile	54	3.476	3.475	0.001	99	277193	484.8	
46 Methacrylonitrile	41	3.549	3.548	0.001	93	1278588	441.7	
47 Chlorobromomethane	130	3.555	3.554	0.001	73	221775	52.5	
48 Chloroform	83	3.592	3.590	0.002	81	676354	53.7	
49 Tetrahydrofuran	42	3.592	3.596	-0.004	75	150286	93.3	
51 1,1,1-Trichloroethane	97	3.701	3.700	0.001	91	609069	57.1	
52 Cyclohexane	56	3.720	3.718	0.002	92	752696	54.5	
53 1,1-Dichloropropene	75	3.805	3.803	0.002	92	550003	56.2	
54 Carbon tetrachloride	117	3.805	3.803	0.002	80	579701	58.7	
55 Isobutyl alcohol	43	3.908	3.907	0.001	94	177940	458.6	
57 Benzene	78	3.957	3.955	0.002	96	1728608	53.7	
58 1,2-Dichloroethane	62	3.987	3.986	0.001	91	470689	54.1	
59 Tert-amyl methyl ether	73	3.999	3.998	0.001	95	766757	45.9	
56 t-Amyl alcohol	59	3.999	4.015	-0.016	51	19609	0	
60 n-Heptane	43	4.054	4.053	0.001	92	554644	47.7	
61 n-Butanol	56	4.377	4.375	0.002	91	97571	1030.2	
62 Trichloroethene	130	4.395	4.393	0.002	92	459828	54.7	
63 Ethyl acrylate	55	4.504	4.503	0.001	0	595987	50.3	
64 Methylcyclohexane	83	4.504	4.503	0.001	91	701211	52.7	
65 1,2-Dichloropropane	63	4.577	4.576	0.001	96	442264	57.6	
67 Methyl methacrylate	41	4.626	4.624	0.002	88	374214	75.9	
68 Dibromomethane	93	4.687	4.685	0.002	83	179917	49.3	
69 1,4-Dioxane	88	4.699	4.697	0.002	86	29964	843.2	
70 Dichlorobromomethane	83	4.784	4.783	0.001	91	509946	53.8	
71 2-Nitropropane	43	4.973	4.977	-0.004	99	106104	45.9	
73 cis-1,3-Dichloropropene	75	5.113	5.111	0.002	93	566820	56.3	
74 4-Methyl-2-pentanone (MIBK)	58	5.222	5.221	0.001	96	360089	242.7	
75 Toluene	91	5.356	5.354	0.002	93	1763803	60.9	
76 trans-1,3-Dichloropropene	75	5.557	5.555	0.002	90	438922	54.6	
77 Ethyl methacrylate	69	5.587	5.586	0.001	86	312098	50.3	
78 1,1,2-Trichloroethane	97	5.715	5.720	-0.005	86	273969	55.8	
79 Tetrachloroethene	166	5.800	5.799	0.001	92	523934	64.4	
80 1,3-Dichloropropane	76	5.855	5.853	0.002	89	481764	54.2	
81 2-Hexanone	58	5.904	5.902	0.002	95	324163	236.8	
82 n-Butyl acetate	43	5.977	5.975	0.002	98	274913	70.9	
83 Chlorodibromomethane	127	6.056	6.054	0.002	87	265478	63.4	
84 Ethylene Dibromide	107	6.159	6.158	0.001	98	250175	54.3	
85 1-Chlorohexane	91	6.530	6.525	0.005	1	666	0	
86 Chlorobenzene	112	6.554	6.553	0.001	95	1182176	64.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
87 Ethylbenzene	91	6.615	6.620	-0.005	98	1967823	59.8	
88 1,1,1,2-Tetrachloroethane	131	6.621	6.620	0.001	88	425652	65.0	
89 m-Xylene & p-Xylene	91	6.719	6.717	0.002	99	1544925	59.1	
90 o-Xylene	91	7.084	7.082	0.002	96	1547504	58.2	
91 Styrene	104	7.108	7.107	0.001	95	1306452	62.1	
92 Bromoform	173	7.321	7.319	0.002	98	205640	58.9	
93 Isopropylbenzene	105	7.406	7.405	0.001	96	1985473	61.4	
94 Cyclohexanone	55	7.576	7.575	0.001	90	40099	331.5	
95 Bromobenzene	77	7.729	7.727	0.002	91	716322	54.9	
96 1,1,2,2-Tetrachloroethane	83	7.747	7.745	0.002	88	298261	50.5	
97 1,2,3-Trichloropropane	110	7.789	7.782	0.007	60	87044	53.5	
98 trans-1,4-Dichloro-2-butene	53	7.789	7.788	0.001	31	77482	65.1	
99 N-Propylbenzene	91	7.789	7.788	0.001	97	2369884	57.0	
100 2-Chlorotoluene	91	7.899	7.897	0.002	97	1383121	59.3	
101 1,3,5-Trimethylbenzene	105	7.954	7.952	0.002	82	1723020	59.7	
102 4-Chlorotoluene	91	8.002	8.001	0.001	96	1488976	57.0	
103 tert-Butylbenzene	119	8.258	8.262	-0.004	86	1497317	60.2	
105 Pentachloroethane	167	8.319	8.317	0.002	1	4028	1.00	
104 1,2,4-Trimethylbenzene	105	8.313	8.317	-0.004	97	1777473	60.6	
106 sec-Butylbenzene	105	8.471	8.469	0.002	94	2160796	58.4	
107 4-Isopropyltoluene	119	8.605	8.603	0.002	94	1937174	61.8	
108 1,3-Dichlorobenzene	146	8.617	8.615	0.002	97	1073573	53.5	
109 1,4-Dichlorobenzene	146	8.702	8.700	0.002	95	1064637	58.9	
110 1,2,3-Trimethylbenzene	105	8.726	8.725	0.001	0	1743816	54.6	
111 Benzyl chloride	91	8.842	8.840	0.002	98	580350	65.7	
112 n-Butylbenzene	91	9.006	9.005	0.001	93	1667301	58.0	
113 1,2-Dichlorobenzene	146	9.067	9.065	0.002	97	943546	53.8	
114 1,2-Dibromo-3-Chloropropane	157	9.888	9.887	0.001	76	51999	43.6	
115 1,3,5-Trichlorobenzene	180	10.077	10.075	0.002	97	848092	51.5	
116 1,2,4-Trichlorobenzene	180	10.831	10.830	0.001	92	690333	50.0	
117 Hexachlorobutadiene	225	10.983	10.982	0.001	89	452428	51.9	
118 Naphthalene	128	11.111	11.109	0.002	97	942685	51.4	
119 1,2,3-Trichlorobenzene	180	11.366	11.365	0.001	93	592119	49.7	
S 132 1,2-Dichloroethene, Total	1				0		152.4	
S 131 Xylenes, Total	1				0		117.3	

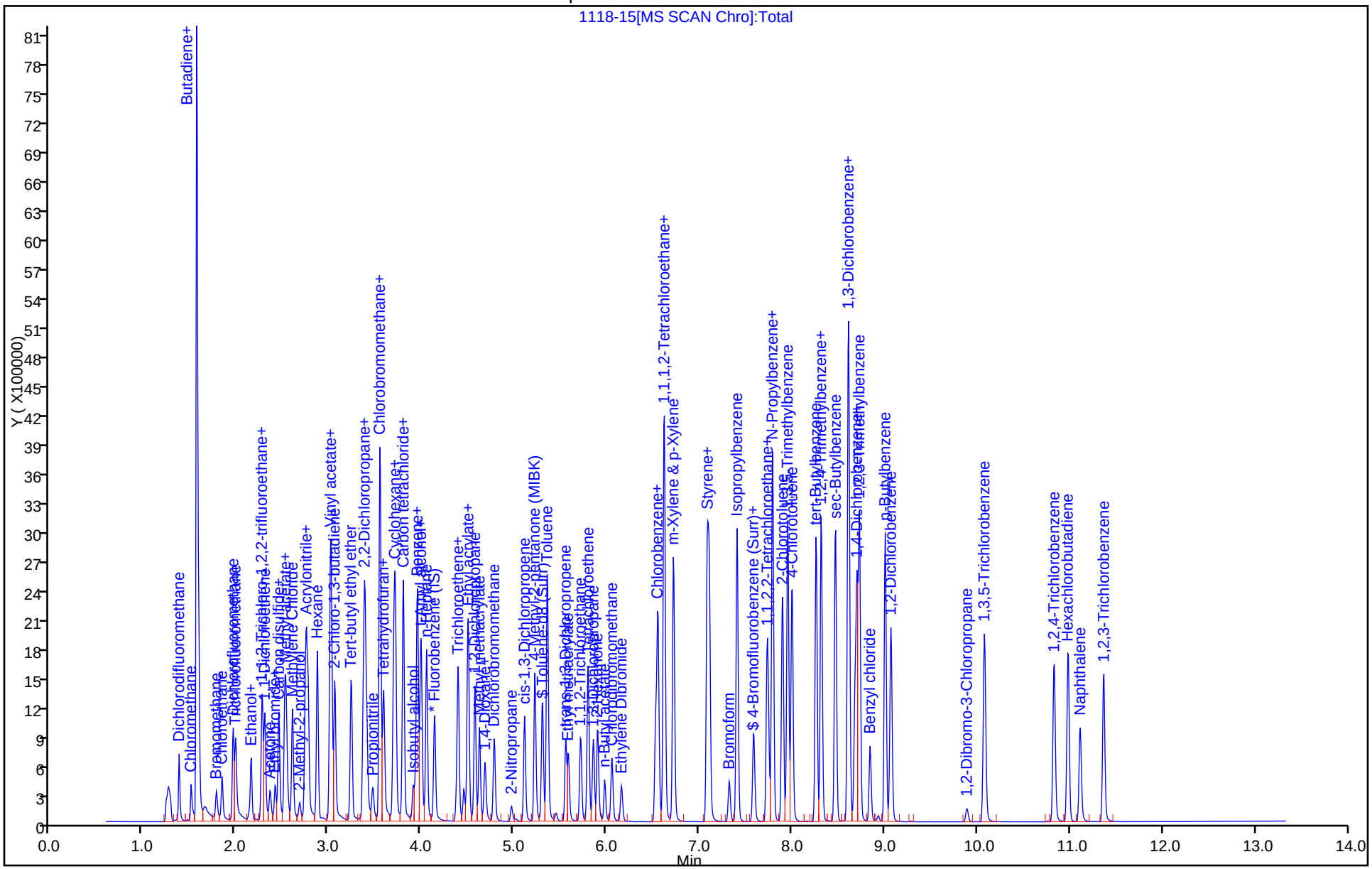
QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

Report Date: 19-Nov-2013 18:31:11 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-15.D				
Injection Date:	18-Nov-2013 17:47:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	490-39837-A-2 MS	Lab Sample ID:	490-39837-2	Worklist Smp#:	15
Client ID:	MW-03B-GW-001				
Purge Vol:	10.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8260HP35	Limit Group:	MSV 8260B ICAL		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: | Lab Sample ID: 490-40571-A-1-A MS

Matrix: Water (TCLP) | Lab File ID: 1119-22.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 11/19/2013 23:00

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 123017 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	2269		50.0	26.6
71-43-2	Benzene	493.1		10.0	2.00
74-97-5	Bromochloromethane	529.3		10.0	1.50
75-27-4	Bromodichloromethane	499.9		10.0	1.70
75-25-2	Bromoform	561.0		10.0	2.90
74-83-9	Bromomethane	446.8		10.0	3.50
78-93-3	2-Butanone (MEK)	2195		500	26.4
75-15-0	Carbon disulfide	576.1		10.0	2.20
56-23-5	Carbon tetrachloride	553.3		10.0	1.80
108-90-7	Chlorobenzene	602.1		10.0	1.80
124-48-1	Chlorodibromomethane	591.2		10.0	2.50
75-00-3	Chloroethane	588.8		10.0	3.60
67-66-3	Chloroform	551.8		10.0	2.30
74-87-3	Chloromethane	396.5		10.0	3.60
156-59-2	cis-1,2-Dichloroethene	548.1		10.0	2.10
10061-01-5	cis-1,3-Dichloropropene	560.6		10.0	1.70
110-82-7	Cyclohexane	530.5		50.0	2.20
96-12-8	1,2-Dibromo-3-Chloropropane	395.7		100	9.40
106-93-4	1,2-Dibromoethane (EDB)	505.7		10.0	2.10
95-50-1	1,2-Dichlorobenzene	502.7		10.0	1.90
541-73-1	1,3-Dichlorobenzene	496.7		10.0	1.80
106-46-7	1,4-Dichlorobenzene	548.6		10.0	1.70
75-71-8	Dichlorodifluoromethane	613.1		10.0	1.70
75-34-3	1,1-Dichloroethane	559.4		10.0	2.40
107-06-2	1,2-Dichloroethane	490.5		10.0	2.00
75-35-4	1,1-Dichloroethene	570.3		10.0	2.50
78-87-5	1,2-Dichloropropane	513.2		10.0	2.50
100-41-4	Ethylbenzene	562.6		10.0	1.90
591-78-6	2-Hexanone	2337		50.0	12.8
98-82-8	Isopropylbenzene	580.0		10.0	3.30
79-20-9	Methyl acetate	1947		100	7.20
108-87-2	Methylcyclohexane	479.7		50.0	2.00
75-09-2	Methylene Chloride	551.3		50.0	2.20
108-10-1	4-Methyl-2-pentanone (MIBK)	2478		50.0	8.10
1634-04-4	Methyl tert-butyl ether	447.3		10.0	1.70
103-65-1	N-Propylbenzene	519.5		10.0	1.70

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: | Lab Sample ID: 490-40571-A-1-A MS

Matrix: Water (TCLP) | Lab File ID: 1119-22.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 11/19/2013 23:00

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 123017 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	585.0		10.0	2.80
79-34-5	1,1,2,2-Tetrachloroethane	460.4		10.0	1.90
127-18-4	Tetrachloroethene	603.4		10.0	1.40
109-99-9	Tetrahydrofuran	682.3		50.0	28.4
108-88-3	Toluene	573.9		10.0	1.70
156-60-5	trans-1,2-Dichloroethene	574.5		10.0	2.30
10061-02-6	trans-1,3-Dichloropropene	538.3		10.0	1.70
120-82-1	1,2,4-Trichlorobenzene	456.4		10.0	2.00
71-55-6	1,1,1-Trichloroethane	557.3		10.0	1.90
79-00-5	1,1,2-Trichloroethane	536.0		10.0	1.90
79-01-6	Trichloroethene	503.3		10.0	2.00
75-69-4	Trichlorofluoromethane	616.6		10.0	2.10
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	563.6		10.0	3.30
75-01-4	Vinyl chloride	560.7		10.0	1.80
1330-20-7	Xylenes, Total	1103		20.0	3.80

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		70-130
1868-53-7	Dibromofluoromethane (Surr)	104		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	111		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131119-28678.b\1119-22.D
Lims ID: 490-40571-A-1-A MS Lab Sample ID: 490-40571-1
Client ID:
Sample Type: MS
Inject. Date: 19-Nov-2013 23:00:30 ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 10.000 mL Dil. Factor: 10.0000
Sample Info: 490-40571-A-1-A MS
Misc. Info.: 490-0028678-022
Operator ID: MJH HP35 Instrument ID: HP35

Method: \\Nvlchrom\ChromData\HP35\20131119-28678.b\8260HP35.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 20-Nov-2013 10:17:11 Calib Date: 02-Oct-2013 00:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D

Column 1 : Detector MS SCAN
Process Host: XAWRK040

First Level Reviewer: haleyj Date: 20-Nov-2013 10:17:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.140	4.146	-0.006	98	775670	25.0	
* 2 Chlorobenzene-d5	117	6.531	6.530	0.001	83	542040	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.679	8.678	0.001	90	365575	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.702	3.702	0.0	81	190878	26.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.940	3.939	0.001	91	184339	25.3	
$ 6 Toluene-d8 (Surr)	98	5.308	5.308	0.0	82	764986	27.8	
$ 7 4-Bromofluorobenzene (Surr)	95	7.584	7.589	-0.005	96	282304	23.4	
9 Dichlorodifluoromethane	85	1.385	1.384	0.001	87	441462	61.3	
10 Chloromethane	50	1.512	1.512	0.0	89	355868	39.6	
11 Vinyl chloride	62	1.579	1.579	0.0	82	467421	56.1	
12 Butadiene	54	1.598	1.597	0.001	0	423272	53.7	
13 Bromomethane	96	1.786	1.785	0.001	90	181680	44.7	
14 Chloroethane	64	1.847	1.846	0.001	95	296787	58.9	
15 Dichlorofluoromethane	67	1.969	1.968	0.001	79	695113	60.8	
16 Trichlorofluoromethane	101	1.993	1.998	-0.005	87	634160	61.7	
17 Ethyl ether	59	2.163	2.163	0.0	94	227472	50.8	
19 Acrolein	56	2.273	2.272	0.001	97	57523	92.0	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.279	2.284	-0.005	85	360168	56.4	
21 1,1-Dichloroethene	96	2.309	2.309	0.0	89	340978	57.0	
22 Acetone	58	2.364	2.363	0.001	100	74783	226.9	
23 Iodomethane	142	2.419	2.424	-0.005	97	295776	35.3	
25 Isopropyl alcohol	45	2.449	2.448	0.001	96	80781	402.9	
24 Ethyl bromide	108	2.431	2.456	-0.025	1	2657	0	
26 Carbon disulfide	76	2.461	2.461	0.0	100	1102231	57.6	
28 Acetonitrile	41	2.522	2.528	-0.006	76	722097	515.6	
27 3-Chloro-1-propene	76	2.522	2.528	-0.006	89	268722	42.9	
29 Methyl acetate	43	2.534	2.540	-0.006	98	698099	194.7	
30 Methylene Chloride	84	2.607	2.613	-0.006	91	373394	55.1	
31 2-Methyl-2-propanol	59	2.680	2.680	0.0	96	114774	384.7	
32 Methyl tert-butyl ether	73	2.747	2.747	0.0	90	634561	44.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
33 trans-1,2-Dichloroethene	61	2.760	2.759	0.001	95	538040	57.4	
34 Acrylonitrile	53	2.778	2.777	0.001	97	666972	458.4	
35 Hexane	57	2.875	2.880	-0.005	92	508156	48.6	
36 Isopropyl ether	45	3.015	3.014	0.001	88	1019631	47.4	
37 1,1-Dichloroethane	63	3.027	3.026	0.001	85	707085	55.9	
38 Vinyl acetate	43	3.027	3.032	-0.005	97	1348569	95.0	
39 2-Chloro-1,3-butadiene	53	3.064	3.069	-0.005	86	531305	49.1	
40 Tert-butyl ethyl ether	59	3.240	3.239	0.001	93	790233	41.1	
42 2,2-Dichloropropane	77	3.374	3.373	0.001	89	540112	54.4	
43 cis-1,2-Dichloroethene	61	3.392	3.391	0.001	84	641935	54.8	
44 2-Butanone (MEK)	72	3.410	3.410	0.0	96	96215	219.5	
41 Ethyl acetate	43	3.410	3.410	0.0	95	667557	104.7	
45 Propionitrile	54	3.477	3.477	0.0	98	257019	473.7	
46 Methacrylonitrile	41	3.550	3.550	0.0	92	1193998	434.7	
47 Chlorobromomethane	130	3.556	3.562	-0.006	75	212268	52.9	
48 Chloroform	83	3.593	3.592	0.001	81	659470	55.2	
49 Tetrahydrofuran	42	3.593	3.598	-0.005	72	104239	68.2	
51 1,1,1-Trichloroethane	97	3.702	3.702	0.0	93	564398	55.7	
52 Cyclohexane	56	3.721	3.720	0.001	93	695047	53.0	
54 Carbon tetrachloride	117	3.806	3.805	0.001	80	518668	55.3	
53 1,1-Dichloropropene	75	3.806	3.805	0.001	93	493215	53.1	
55 Isobutyl alcohol	43	3.909	3.909	0.001	93	167839	455.8	
57 Benzene	78	3.958	3.957	0.001	96	1506191	49.3	
58 1,2-Dichloroethane	62	3.988	3.994	-0.006	80	405237	49.0	
59 Tert-amyl methyl ether	73	4.001	4.000	0.001	95	712011	44.9	
56 t-Amyl alcohol	59	3.994	4.015	-0.021	48	17562	0	
60 n-Heptane	43	4.055	4.061	-0.006	92	477901	43.3	
61 n-Butanol	56	4.378	4.377	0.001	89	94486	1051.1	
62 Trichloroethene	130	4.396	4.395	0.001	94	401210	50.3	
64 Methylcyclohexane	83	4.505	4.505	0.0	90	606012	48.0	
63 Ethyl acrylate	55	4.505	4.505	0.0	0	500829	44.6	
65 1,2-Dichloropropane	63	4.578	4.578	0.0	95	374077	51.3	
67 Methyl methacrylate	41	4.627	4.626	0.001	89	362232	77.4	
68 Dibromomethane	93	4.688	4.687	0.001	83	159544	46.1	
69 1,4-Dioxane	88	4.700	4.699	0.001	88	29153	864.5	
70 Dichlorobromomethane	83	4.785	4.785	0.0	91	449954	50.0	
71 2-Nitropropane	43	4.980	4.979	0.001	99	180414	81.5	
72 2-Chloroethyl vinyl ether	63	4.986	4.985	0.001	92	123144	51.5	
73 cis-1,3-Dichloropropene	75	5.114	5.113	0.001	92	530041	56.1	
74 4-Methyl-2-pentanone (MIBK)	58	5.223	5.223	0.0	96	345641	247.8	
75 Toluene	91	5.357	5.356	0.001	93	1563667	57.4	
76 trans-1,3-Dichloropropene	75	5.558	5.557	0.001	90	406327	53.8	
77 Ethyl methacrylate	69	5.582	5.588	-0.006	89	285879	49.0	
78 1,1,2-Trichloroethane	97	5.716	5.715	0.001	86	247389	53.6	
79 Tetrachloroethene	166	5.801	5.800	0.001	92	461822	60.3	
80 1,3-Dichloropropane	76	5.856	5.855	0.001	89	430877	51.6	
81 2-Hexanone	58	5.899	5.904	-0.005	96	300690	233.7	
82 n-Butyl acetate	43	5.978	5.977	0.001	98	244122	66.4	
83 Chlorodibromomethane	127	6.057	6.056	0.001	85	232626	59.1	
84 Ethylene Dibromide	107	6.160	6.159	0.001	99	219087	50.6	
85 1-Chlorohexane	91	6.525	6.525	0.0	1	723	0	
86 Chlorobenzene	112	6.556	6.555	0.001	95	1045499	60.2	

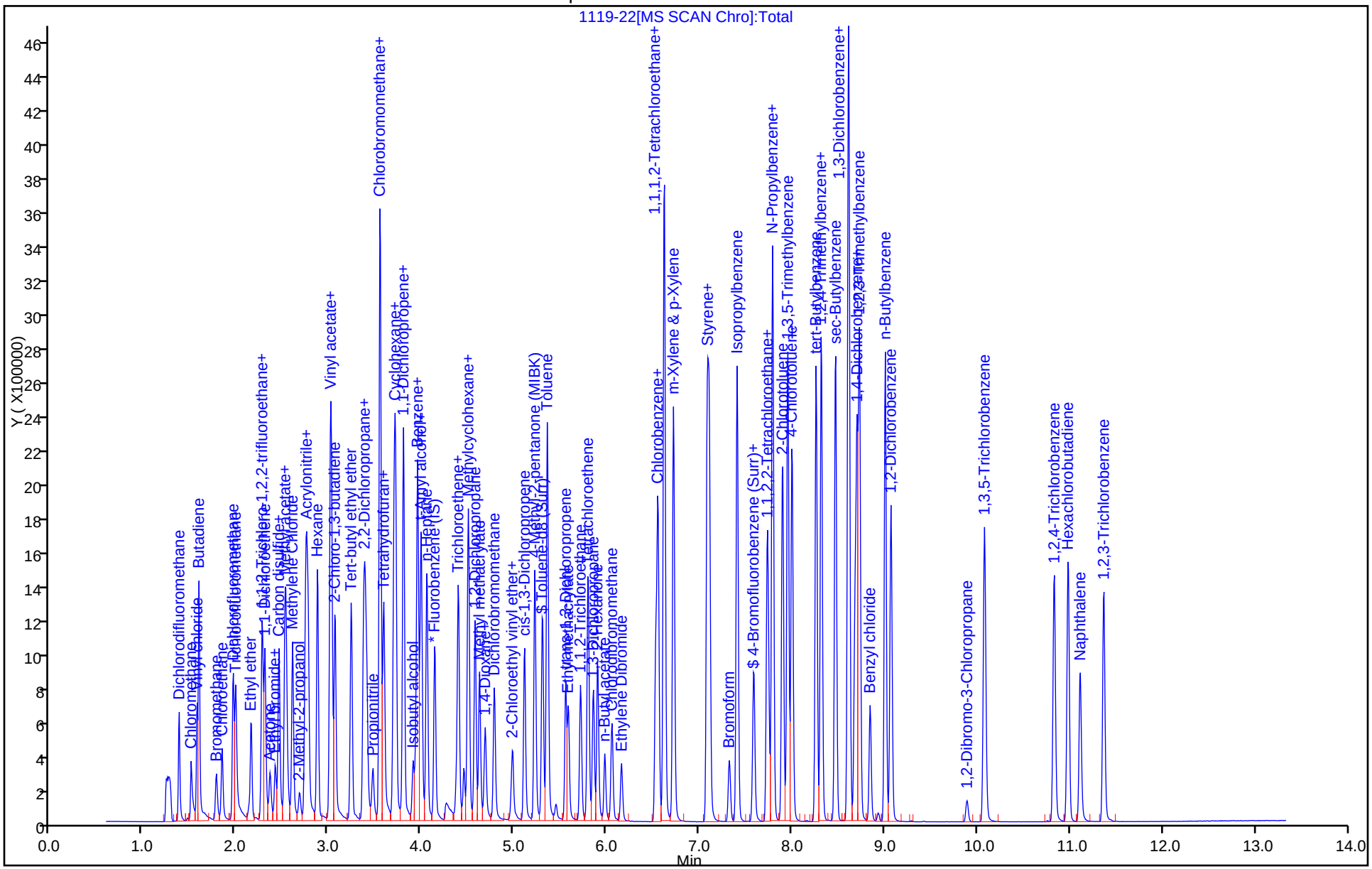
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
87 Ethylbenzene	91	6.616	6.616	0.0	98	1739691	56.3	
88 1,1,1,2-Tetrachloroethane	131	6.623	6.622	0.001	87	382916	62.2	
89 m-Xylene & p-Xylene	91	6.720	6.719	0.001	99	1365241	55.6	
90 o-Xylene	91	7.085	7.084	0.001	95	1367489	54.7	
91 Styrene	104	7.109	7.108	0.001	95	1156037	58.5	
92 Bromoform	173	7.322	7.321	0.001	98	184058	56.1	
93 Isopropylbenzene	105	7.407	7.406	0.001	96	1764032	58.0	
94 Cyclohexanone	55	7.572	7.571	0.001	89	39580	345.1	
95 Bromobenzene	77	7.730	7.729	0.001	91	636373	50.0	
96 1,1,2,2-Tetrachloroethane	83	7.748	7.747	0.001	89	264975	46.0	
97 1,2,3-Trichloropropane	110	7.784	7.790	-0.006	69	78713	49.6	
99 N-Propylbenzene	91	7.791	7.790	0.001	97	2104508	51.9	
98 trans-1,4-Dichloro-2-butene	53	7.791	7.790	0.001	31	69304	59.8	
100 2-Chlorotoluene	91	7.900	7.899	0.001	97	1232698	54.3	
101 1,3,5-Trimethylbenzene	105	7.955	7.954	0.001	82	1548250	55.1	
102 4-Chlorotoluene	91	7.997	8.003	-0.006	96	1334963	52.5	
103 tert-Butylbenzene	119	8.259	8.258	0.001	90	1341325	55.3	
105 Pentachloroethane	167	8.320	8.317	0.003	1	3418	0.9216	
104 1,2,4-Trimethylbenzene	105	8.314	8.319	-0.005	97	1603594	56.1	
106 sec-Butylbenzene	105	8.472	8.471	0.001	94	1936620	53.7	
107 4-Isopropyltoluene	119	8.606	8.605	0.001	94	1757746	57.6	
108 1,3-Dichlorobenzene	146	8.618	8.617	0.001	98	970487	49.7	
109 1,4-Dichlorobenzene	146	8.703	8.702	0.001	94	967119	54.9	
110 1,2,3-Trimethylbenzene	105	8.727	8.727	0.0	0	1575472	50.6	
111 Benzyl chloride	91	8.843	8.842	0.001	98	503889	60.7	
112 n-Butylbenzene	91	9.007	9.006	0.001	94	1493488	53.3	
113 1,2-Dichlorobenzene	146	9.068	9.067	0.001	98	859628	50.3	
114 1,2-Dibromo-3-Chloropropane	157	9.889	9.889	0.0	73	45886	39.6	
115 1,3,5-Trichlorobenzene	180	10.078	10.077	0.001	96	765997	47.7	
116 1,2,4-Trichlorobenzene	180	10.832	10.831	0.001	93	613828	45.6	
117 Hexachlorobutadiene	225	10.984	10.984	0.0	89	399033	47.0	
118 Naphthalene	128	11.112	11.111	0.001	97	844355	47.2	
119 1,2,3-Trichlorobenzene	180	11.368	11.367	0.001	95	535227	46.1	
S 132 1,2-Dichloroethene, Total	1				0		112.3	
S 131 Xylenes, Total	1				0		110.3	

Report Date: 20-Nov-2013 10:17:11 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP35\20131119-28678.b\1119-22.D

Injection Date:	19-Nov-2013 23:00:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	490-40571-A-1-A MS	Lab Sample ID:	490-40571-1	Worklist Smp#:	22
Client ID:					
Purge Vol:	10.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	22
Method:	8260HP35	Limit Group:	MSV 8260B ICAL		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: MW-03B-GW-001 MSD | Lab Sample ID: 490-39837-2 MSD

Matrix: Water | Lab File ID: 1118-16.D

Analysis Method: 8260B | Date Collected: 11/07/2013 13:19

Sample wt/vol: 10(mL) | Date Analyzed: 11/18/2013 18:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122748 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	217.2		5.00	2.66
71-43-2	Benzene	48.97		1.00	0.200
74-97-5	Bromochloromethane	47.94		1.00	0.150
75-27-4	Bromodichloromethane	49.90		1.00	0.170
75-25-2	Bromoform	52.58		1.00	0.290
74-83-9	Bromomethane	44.84		1.00	0.350
78-93-3	2-Butanone (MEK)	225.5		50.0	2.64
75-15-0	Carbon disulfide	54.72		1.00	0.220
56-23-5	Carbon tetrachloride	52.46		1.00	0.180
108-90-7	Chlorobenzene	57.32		1.00	0.180
124-48-1	Chlorodibromomethane	57.00		1.00	0.250
75-00-3	Chloroethane	55.60		1.00	0.360
67-66-3	Chloroform	49.42		1.00	0.230
74-87-3	Chloromethane	34.39		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	90.60		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	52.30		1.00	0.170
110-82-7	Cyclohexane	51.19		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	40.80		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	48.83		1.00	0.210
95-50-1	1,2-Dichlorobenzene	50.06		1.00	0.190
541-73-1	1,3-Dichlorobenzene	49.48		1.00	0.180
106-46-7	1,4-Dichlorobenzene	54.21		1.00	0.170
75-71-8	Dichlorodifluoromethane	55.12		1.00	0.170
75-34-3	1,1-Dichloroethane	56.18		1.00	0.240
107-06-2	1,2-Dichloroethane	48.46		1.00	0.200
75-35-4	1,1-Dichloroethene	54.68		1.00	0.250
78-87-5	1,2-Dichloropropane	52.31		1.00	0.250
100-41-4	Ethylbenzene	53.68		1.00	0.190
591-78-6	2-Hexanone	216.1		5.00	1.28
98-82-8	Isopropylbenzene	54.73		1.00	0.330
79-20-9	Methyl acetate	205.1		10.0	0.720
108-87-2	Methylcyclohexane	48.80		5.00	0.200
75-09-2	Methylene Chloride	51.99		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	226.3		5.00	0.810
1634-04-4	Methyl tert-butyl ether	45.93		1.00	0.170
103-65-1	N-Propylbenzene	53.12		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: MW-03B-GW-001 MSD | Lab Sample ID: 490-39837-2 MSD

Matrix: Water | Lab File ID: 1118-16.D

Analysis Method: 8260B | Date Collected: 11/07/2013 13:19

Sample wt/vol: 10(mL) | Date Analyzed: 11/18/2013 18:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122748 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	55.23		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	46.60		1.00	0.190
127-18-4	Tetrachloroethene	58.11		1.00	0.140
109-99-9	Tetrahydrofuran	87.57		5.00	2.84
108-88-3	Toluene	55.18		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	55.45		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	50.16		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	47.66		1.00	0.200
71-55-6	1,1,1-Trichloroethane	52.46		1.00	0.190
79-00-5	1,1,2-Trichloroethane	50.37		1.00	0.190
79-01-6	Trichloroethene	49.61		1.00	0.200
75-69-4	Trichlorofluoromethane	57.38		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	55.36		1.00	0.330
75-01-4	Vinyl chloride	623.0		1.00	0.180
1330-20-7	Xylenes, Total	105.2		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	109		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-16.D
Lims ID: 490-39837-B-2 MSD Lab Sample ID: 490-39837-2
Client ID: MW-03B-GW-001
Sample Type: MSD
Inject. Date: 18-Nov-2013 18:17:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 10.000 mL Dil. Factor: 1.0000
Sample Info: 490-39837-B-2 MSD
Misc. Info.: 490-0028621-016
Operator ID: MJH HP35 Instrument ID: HP35

Method: \\Nvlchrom\ChromData\HP35\20131118-28621.b\8260HP35.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 19-Nov-2013 18:31:35 Calib Date: 02-Oct-2013 00:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D

Column 1 : Detector MS SCAN
Process Host: XAWRK006

First Level Reviewer: himelickm Date: 19-Nov-2013 18:31:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.139	4.138	0.001	98	846863	25.0	
* 2 Chlorobenzene-d5	117	6.530	6.529	0.001	84	598306	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.678	8.676	0.002	89	370717	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.701	3.700	0.001	74	198425	24.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.939	3.937	0.002	91	197185	24.8	
$ 6 Toluene-d8 (Surr)	98	5.307	5.306	0.001	82	824306	27.2	
$ 7 4-Bromofluorobenzene (Surr)	95	7.589	7.587	0.002	97	294564	24.1	
9 Dichlorodifluoromethane	85	1.384	1.382	0.002	88	433317	55.1	
10 Chloromethane	50	1.511	1.510	0.001	89	338123	34.4	
11 Vinyl chloride	62	1.572	1.577	-0.005	75	5669860	623.0	E
12 Butadiene	54	1.596	1.595	0.001	0	440916	51.3	
13 Bromomethane	96	1.785	1.790	-0.005	90	199070	44.8	
14 Chloroethane	64	1.846	1.844	0.002	95	306092	55.6	
15 Dichlorofluoromethane	67	1.968	1.966	0.002	79	707763	56.7	
16 Trichlorofluoromethane	101	1.992	1.996	-0.004	87	644364	57.4	
18 Ethanol	45	2.162	2.162	0.001	75	272143	2379.9	
17 Ethyl ether	59	2.162	2.161	0.001	94	246539	50.4	
19 Acrolein	56	2.272	2.270	0.002	95	62721	91.8	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.278	2.282	-0.004	86	386223	55.4	
21 1,1-Dichloroethene	96	2.308	2.307	0.001	87	356981	54.7	
22 Acetone	58	2.369	2.368	0.001	100	78165	217.2	
23 Iodomethane	142	2.424	2.422	0.002	97	359945	39.3	
25 Isopropyl alcohol	45	2.448	2.447	0.001	96	91171	416.6	
24 Ethyl bromide	108	2.436	2.456	-0.020	31	3808	0	
26 Carbon disulfide	76	2.460	2.459	0.001	100	1143416	54.7	
28 Acetonitrile	41	2.521	2.526	-0.005	76	819443	536.2	
27 3-Chloro-1-propene	76	2.527	2.526	0.001	89	300997	44.0	
29 Methyl acetate	43	2.539	2.538	0.001	98	802587	205.1	
30 Methylene Chloride	84	2.606	2.605	0.001	91	384637	52.0	
31 2-Methyl-2-propanol	59	2.685	2.684	0.001	97	130591	400.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
32 Methyl tert-butyl ether	73	2.746	2.745	0.001	90	711293	45.9	
33 trans-1,2-Dichloroethene	61	2.758	2.757	0.001	95	567142	55.5	
34 Acrylonitrile	53	2.777	2.775	0.002	97	713533	449.2	
35 Hexane	57	2.874	2.879	-0.004	93	588015	51.5	
36 Isopropyl ether	45	3.014	3.012	0.002	90	1175459	50.1	
37 1,1-Dichloroethane	63	3.026	3.025	0.001	84	775209	56.2	
38 Vinyl acetate	43	3.032	3.031	0.001	97	1500685	96.8	
39 2-Chloro-1,3-butadiene	53	3.063	3.061	0.002	86	594849	50.3	
40 Tert-butyl ethyl ether	59	3.239	3.237	0.002	94	917576	43.7	
42 2,2-Dichloropropane	77	3.373	3.371	0.002	87	606323	56.0	
43 cis-1,2-Dichloroethene	61	3.391	3.390	0.001	70	1155428	90.6	
44 2-Butanone (MEK)	72	3.409	3.408	0.001	91	107940	225.5	
41 Ethyl acetate	43	3.409	3.408	0.001	94	743888	106.9	
45 Propionitrile	54	3.476	3.475	0.001	98	278051	469.3	
46 Methacrylonitrile	41	3.549	3.548	0.001	94	1240300	413.6	
47 Chlorobromomethane	130	3.555	3.554	0.001	83	210002	47.9	
48 Chloroform	83	3.592	3.590	0.002	81	645548	49.4	
49 Tetrahydrofuran	42	3.592	3.596	-0.004	75	146118	87.6	
51 1,1,1-Trichloroethane	97	3.701	3.700	0.001	94	580210	52.5	
52 Cyclohexane	56	3.720	3.718	0.002	93	732260	51.2	
53 1,1-Dichloropropene	75	3.805	3.803	0.002	93	532761	52.5	
54 Carbon tetrachloride	117	3.805	3.803	0.002	79	536971	52.5	
55 Isobutyl alcohol	43	3.908	3.907	0.001	94	175074	435.1	
57 Benzene	78	3.957	3.955	0.002	96	1632815	49.0	
58 1,2-Dichloroethane	62	3.987	3.986	0.001	82	437108	48.5	
59 Tert-amyl methyl ether	73	3.999	3.998	0.001	96	762436	44.1	
56 t-Amyl alcohol	59	3.999	4.015	-0.016	47	18560	0	
60 n-Heptane	43	4.054	4.053	0.001	92	560330	46.5	
61 n-Butanol	56	4.377	4.375	0.002	91	104898	1068.8	
62 Trichloroethene	130	4.395	4.393	0.002	94	431760	49.6	
63 Ethyl acrylate	55	4.504	4.503	0.001	0	571916	46.6	
64 Methylcyclohexane	83	4.504	4.503	0.001	90	673131	48.8	
65 1,2-Dichloropropane	63	4.577	4.576	0.001	94	416215	52.3	
67 Methyl methacrylate	41	4.626	4.624	0.002	89	410971	80.4	
68 Dibromomethane	93	4.681	4.685	-0.004	86	170478	45.1	
69 1,4-Dioxane	88	4.699	4.697	0.002	91	32333	878.2	
70 Dichlorobromomethane	83	4.784	4.783	0.001	94	490319	49.9	
71 2-Nitropropane	43	4.973	4.977	-0.004	99	104749	43.7	
73 cis-1,3-Dichloropropene	75	5.113	5.111	0.002	91	546010	52.3	
74 4-Methyl-2-pentanone (MIBK)	58	5.222	5.221	0.001	95	348337	226.3	
75 Toluene	91	5.356	5.354	0.002	93	1660093	55.2	
76 trans-1,3-Dichloropropene	75	5.557	5.555	0.002	93	417955	50.2	
77 Ethyl methacrylate	69	5.587	5.586	0.001	87	302795	47.1	
78 1,1,2-Trichloroethane	97	5.715	5.720	-0.005	87	256633	50.4	
79 Tetrachloroethene	166	5.800	5.799	0.001	92	490953	58.1	
80 1,3-Dichloropropane	76	5.855	5.853	0.002	89	453902	49.3	
81 2-Hexanone	58	5.904	5.902	0.002	96	306919	216.1	
82 n-Butyl acetate	43	5.977	5.975	0.002	97	267609	66.6	
83 Chlorodibromomethane	127	6.056	6.054	0.002	87	247600	57.0	
84 Ethylene Dibromide	107	6.159	6.158	0.001	98	233514	48.8	
85 1-Chlorohexane	91	6.530	6.525	0.005	12	1069	0	
86 Chlorobenzene	112	6.554	6.553	0.001	95	1098899	57.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
87 Ethylbenzene	91	6.621	6.620	0.001	98	1832254	53.7	
88 1,1,1,2-Tetrachloroethane	131	6.621	6.620	0.001	88	392647	57.8	
89 m-Xylene & p-Xylene	91	6.719	6.717	0.002	99	1447325	53.4	
90 o-Xylene	91	7.084	7.082	0.002	96	1428717	51.8	
91 Styrene	104	7.108	7.107	0.001	95	1204818	55.2	
92 Bromoform	173	7.321	7.319	0.002	98	190297	52.6	
93 Isopropylbenzene	105	7.406	7.405	0.001	96	1837272	54.7	
94 Cyclohexanone	55	7.570	7.575	-0.005	87	39880	318.0	
95 Bromobenzene	77	7.729	7.727	0.002	91	663226	51.4	
96 1,1,2,2-Tetrachloroethane	83	7.747	7.745	0.002	87	271984	46.6	
97 1,2,3-Trichloropropane	110	7.783	7.782	0.001	67	77593	48.3	
98 trans-1,4-Dichloro-2-butene	53	7.789	7.788	0.001	31	70388	59.9	
99 N-Propylbenzene	91	7.789	7.788	0.001	97	2182510	53.1	
100 2-Chlorotoluene	91	7.899	7.897	0.002	97	1274669	55.3	
101 1,3,5-Trimethylbenzene	105	7.954	7.952	0.002	79	1578472	55.4	
102 4-Chlorotoluene	91	7.996	8.001	-0.005	96	1368335	53.0	
103 tert-Butylbenzene	119	8.258	8.262	-0.004	90	1384861	56.3	
105 Pentachloroethane	167	8.319	8.317	0.002	1	3285	0.8929	
104 1,2,4-Trimethylbenzene	105	8.313	8.317	-0.004	90	1632581	56.3	
106 sec-Butylbenzene	105	8.471	8.469	0.002	94	1983308	54.2	
107 4-Isopropyltoluene	119	8.605	8.603	0.002	94	1795147	58.0	
108 1,3-Dichlorobenzene	146	8.617	8.615	0.002	97	980198	49.5	
109 1,4-Dichlorobenzene	146	8.702	8.700	0.002	95	969088	54.2	
110 1,2,3-Trimethylbenzene	105	8.726	8.725	0.001	0	1590882	50.4	
111 Benzyl chloride	91	8.842	8.840	0.002	98	533901	58.2	
112 n-Butylbenzene	91	9.006	9.005	0.001	94	1556628	54.8	
113 1,2-Dichlorobenzene	146	9.067	9.065	0.002	97	867996	50.1	
114 1,2-Dibromo-3-Chloropropane	157	9.888	9.887	0.001	75	48029	40.8	
115 1,3,5-Trichlorobenzene	180	10.077	10.075	0.002	96	795539	48.9	
116 1,2,4-Trichlorobenzene	180	10.831	10.830	0.001	90	650011	47.7	
117 Hexachlorobutadiene	225	10.977	10.982	-0.005	90	416818	48.4	
118 Naphthalene	128	11.111	11.109	0.002	97	893962	49.3	
119 1,2,3-Trichlorobenzene	180	11.367	11.365	0.001	94	560443	47.6	
S 132 1,2-Dichloroethene, Total	1				0		146.0	
S 131 Xylenes, Total	1				0		105.2	

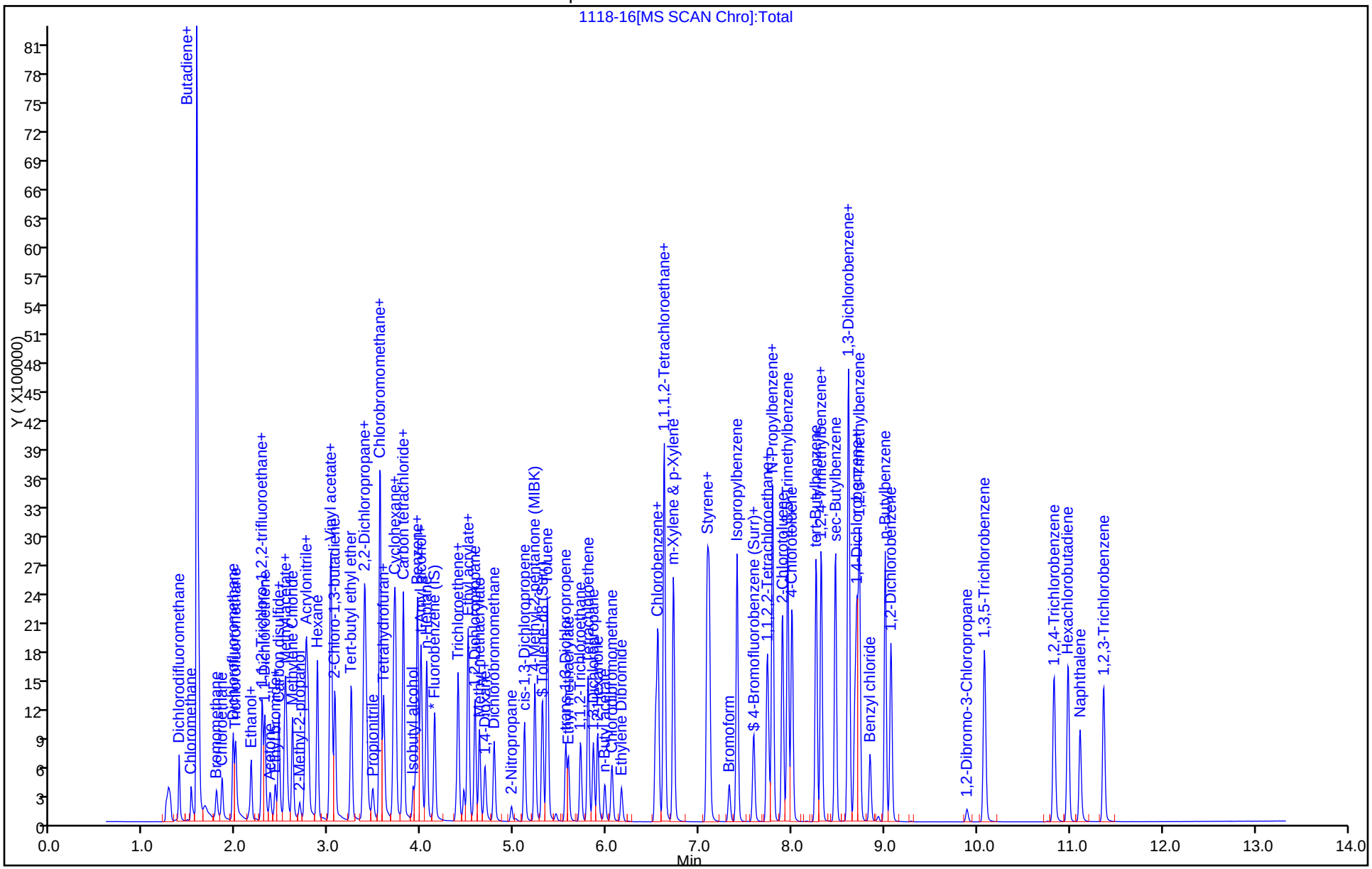
QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

Report Date: 19-Nov-2013 18:31:36 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP35\20131118-28621.b\1118-16.D				
Injection Date:	18-Nov-2013 18:17:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	490-39837-B-2 MSD	Lab Sample ID:	490-39837-2	Worklist Smp#:	16
Client ID:	MW-03B-GW-001				
Purge Vol:	10.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8260HP35	Limit Group:	MSV 8260B ICAL		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Client Sample ID: Lab Sample ID: 490-40571-A-1-A MSD

Matrix: Water (TCLP) Lab File ID: 1119-23.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 10(mL) Date Analyzed: 11/19/2013 23:31

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: ZB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 123017 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	2169		50.0	26.6
71-43-2	Benzene	504.2		10.0	2.00
74-97-5	Bromochloromethane	504.3		10.0	1.50
75-27-4	Bromodichloromethane	484.6		10.0	1.70
75-25-2	Bromoform	544.6		10.0	2.90
74-83-9	Bromomethane	503.8		10.0	3.50
78-93-3	2-Butanone (MEK)	2210		500	26.4
75-15-0	Carbon disulfide	534.7		10.0	2.20
56-23-5	Carbon tetrachloride	521.7		10.0	1.80
108-90-7	Chlorobenzene	595.4		10.0	1.80
124-48-1	Chlorodibromomethane	583.4		10.0	2.50
75-00-3	Chloroethane	590.7		10.0	3.60
67-66-3	Chloroform	509.9		10.0	2.30
74-87-3	Chloromethane	415.1		10.0	3.60
156-59-2	cis-1,2-Dichloroethene	563.9		10.0	2.10
10061-01-5	cis-1,3-Dichloropropene	555.0		10.0	1.70
110-82-7	Cyclohexane	521.0		50.0	2.20
96-12-8	1,2-Dibromo-3-Chloropropane	401.8		100	9.40
106-93-4	1,2-Dibromoethane (EDB)	494.7		10.0	2.10
95-50-1	1,2-Dichlorobenzene	507.2		10.0	1.90
541-73-1	1,3-Dichlorobenzene	503.2		10.0	1.80
106-46-7	1,4-Dichlorobenzene	552.2		10.0	1.70
75-71-8	Dichlorodifluoromethane	598.1		10.0	1.70
75-34-3	1,1-Dichloroethane	574.4		10.0	2.40
107-06-2	1,2-Dichloroethane	499.6		10.0	2.00
75-35-4	1,1-Dichloroethene	553.3		10.0	2.50
78-87-5	1,2-Dichloropropane	507.1		10.0	2.50
100-41-4	Ethylbenzene	551.6		10.0	1.90
591-78-6	2-Hexanone	2256		50.0	12.8
98-82-8	Isopropylbenzene	568.7		10.0	3.30
79-20-9	Methyl acetate	1862		100	7.20
108-87-2	Methylcyclohexane	479.3		50.0	2.00
75-09-2	Methylene Chloride	544.1		50.0	2.20
108-10-1	4-Methyl-2-pentanone (MIBK)	2411		50.0	8.10
1634-04-4	Methyl tert-butyl ether	446.2		10.0	1.70
103-65-1	N-Propylbenzene	533.0		10.0	1.70

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: | Lab Sample ID: 490-40571-A-1-A MSD

Matrix: Water (TCLP) | Lab File ID: 1119-23.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 10(mL) | Date Analyzed: 11/19/2013 23:31

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: ZB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 123017 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	573.4		10.0	2.80
79-34-5	1,1,2,2-Tetrachloroethane	463.1		10.0	1.90
127-18-4	Tetrachloroethene	599.5		10.0	1.40
109-99-9	Tetrahydrofuran	864.6		50.0	28.4
108-88-3	Toluene	564.3		10.0	1.70
156-60-5	trans-1,2-Dichloroethene	563.3		10.0	2.30
10061-02-6	trans-1,3-Dichloropropene	532.6		10.0	1.70
120-82-1	1,2,4-Trichlorobenzene	478.0		10.0	2.00
71-55-6	1,1,1-Trichloroethane	539.1		10.0	1.90
79-00-5	1,1,2-Trichloroethane	508.1		10.0	1.90
79-01-6	Trichloroethene	485.2		10.0	2.00
75-69-4	Trichlorofluoromethane	601.1		10.0	2.10
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	547.9		10.0	3.30
75-01-4	Vinyl chloride	563.5		10.0	1.80
1330-20-7	Xylenes, Total	1088		20.0	3.80

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	109		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP35\20131119-28678.b\1119-23.D
Lims ID: 490-40571-A-1-A MSD Lab Sample ID: 490-40571-1
Client ID:
Sample Type: MSD
Inject. Date: 19-Nov-2013 23:31:30 ALS Bottle#: 23 Worklist Smp#: 23
Purge Vol: 10.000 mL Dil. Factor: 10.0000
Sample Info: 490-40571-A-1-A MSD
Misc. Info.: 490-0028678-023
Operator ID: MJH HP35 Instrument ID: HP35

Method: \\Nvlchrom\ChromData\HP35\20131119-28678.b\8260HP35.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-90
Last Update: 20-Nov-2013 10:17:11 Calib Date: 02-Oct-2013 00:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP35\20131001-25968.b\1001-21.D

Column 1 : Detector MS SCAN
Process Host: XAWRK040

First Level Reviewer: haleyj Date: 20-Nov-2013 10:17:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.146	4.146	0.0	98	820143	25.0	
* 2 Chlorobenzene-d5	117	6.531	6.530	0.001	83	561370	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.678	8.678	0.0	90	357968	25.0	
$ 4 Dibromofluoromethane (Surr)	111	3.702	3.702	0.0	73	193988	25.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.939	3.939	0.0	91	188917	24.5	
$ 6 Toluene-d8 (Surr)	98	5.308	5.308	0.0	82	772878	27.1	
$ 7 4-Bromofluorobenzene (Surr)	95	7.589	7.589	0.0	96	280931	23.8	
9 Dichlorodifluoromethane	85	1.384	1.384	0.0	87	455326	59.8	
10 Chloromethane	50	1.512	1.512	0.0	88	393550	41.5	
11 Vinyl chloride	62	1.579	1.579	0.0	80	496668	56.3	
12 Butadiene	54	1.597	1.597	0.0	0	462364	55.5	
13 Bromomethane	96	1.792	1.785	0.007	90	216786	50.4	
14 Chloroethane	64	1.847	1.846	0.001	95	314821	59.1	
15 Dichlorofluoromethane	67	1.968	1.968	0.0	79	715472	59.2	
16 Trichlorofluoromethane	101	1.999	1.998	0.001	87	653761	60.1	
17 Ethyl ether	59	2.163	2.163	0.0	92	238746	50.4	
19 Acrolein	56	2.273	2.272	0.001	92	59879	90.5	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.285	2.284	0.001	84	370204	54.8	
21 1,1-Dichloroethene	96	2.309	2.309	0.0	88	349821	55.3	
22 Acetone	58	2.364	2.363	0.001	100	75610	216.9	
23 Iodomethane	142	2.425	2.424	0.001	97	344369	38.9	
25 Isopropyl alcohol	45	2.449	2.448	0.001	96	74900	353.0	
24 Ethyl bromide	108	2.437	2.456	-0.019	1	2794	0	
26 Carbon disulfide	76	2.461	2.461	0.0	99	1082254	53.5	
28 Acetonitrile	41	2.528	2.528	0.0	74	753334	508.7	
27 3-Chloro-1-propene	76	2.528	2.528	0.0	89	303504	45.8	
29 Methyl acetate	43	2.540	2.540	0.0	98	705975	186.2	
30 Methylene Chloride	84	2.607	2.613	-0.006	91	389705	54.4	
31 2-Methyl-2-propanol	59	2.686	2.680	0.006	98	112331	356.1	
32 Methyl tert-butyl ether	73	2.747	2.747	0.0	89	669258	44.6	

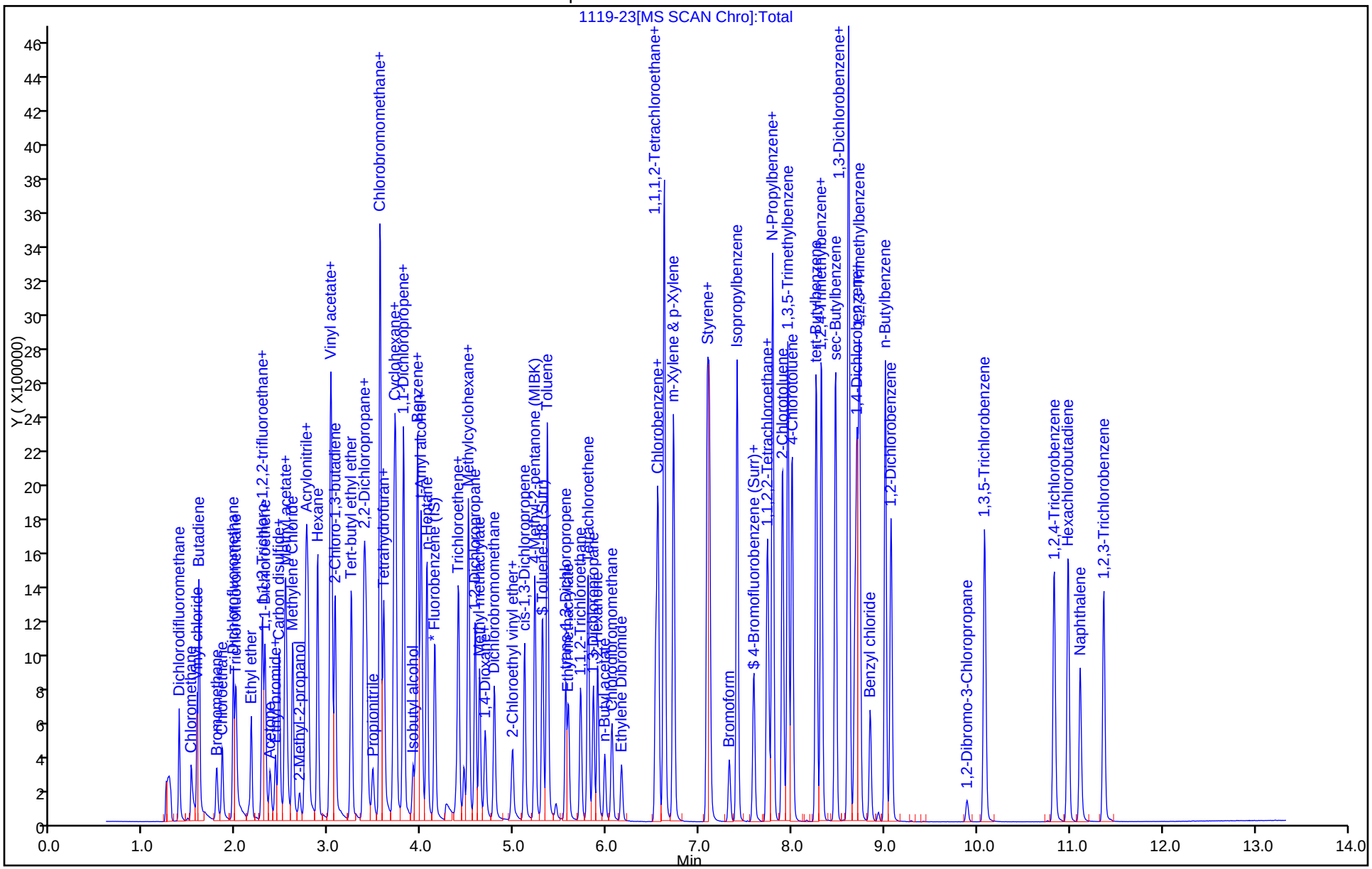
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
33 trans-1,2-Dichloroethene	61	2.759	2.759	0.0	95	557841	56.3	
34 Acrylonitrile	53	2.777	2.777	0.0	97	664084	431.7	
35 Hexane	57	2.881	2.880	0.001	93	546334	49.5	
36 Isopropyl ether	45	3.015	3.014	0.001	90	1142519	50.3	
37 1,1-Dichloroethane	63	3.027	3.026	0.001	85	767420	57.4	
38 Vinyl acetate	43	3.033	3.032	0.001	97	1476350	98.4	
39 2-Chloro-1,3-butadiene	53	3.069	3.069	0.0	87	591044	51.6	
40 Tert-butyl ethyl ether	59	3.240	3.239	0.001	93	887928	43.7	
42 2,2-Dichloropropane	77	3.374	3.373	0.001	90	584068	55.7	
43 cis-1,2-Dichloroethene	61	3.392	3.391	0.001	70	698138	56.4	
44 2-Butanone (MEK)	72	3.410	3.410	0.0	90	102439	221.0	
41 Ethyl acetate	43	3.410	3.410	0.0	94	719870	106.8	
45 Propionitrile	54	3.477	3.477	0.0	98	256867	447.7	
46 Methacrylonitrile	41	3.550	3.550	0.0	93	1196466	412.0	
47 Chlorobromomethane	130	3.556	3.562	-0.006	74	213881	50.4	
48 Chloroform	83	3.593	3.592	0.001	81	644777	51.0	
49 Tetrahydrofuran	42	3.599	3.598	0.001	76	139711	86.5	
51 1,1,1-Trichloroethane	97	3.702	3.702	0.0	93	577349	53.9	
52 Cyclohexane	56	3.720	3.720	0.0	91	721739	52.1	
53 1,1-Dichloropropene	75	3.806	3.805	0.001	93	528130	53.8	
54 Carbon tetrachloride	117	3.806	3.805	0.001	78	517098	52.2	
55 Isobutyl alcohol	43	3.909	3.909	0.001	94	163305	418.8	
57 Benzene	78	3.958	3.957	0.001	96	1628260	50.4	
58 1,2-Dichloroethane	62	3.994	3.994	0.0	74	436389	50.0	
59 Tert-amyl methyl ether	73	4.000	4.000	0.0	97	755404	45.1	
56 t-Amyl alcohol	59	4.000	4.015	-0.015	49	18955	0	
60 n-Heptane	43	4.061	4.061	0.0	93	533223	45.7	
61 n-Butanol	56	4.377	4.377	0.0	87	89451	941.7	
62 Trichloroethene	130	4.396	4.395	0.001	93	408941	48.5	
63 Ethyl acrylate	55	4.505	4.505	0.0	0	539299	45.4	
64 Methylcyclohexane	83	4.505	4.505	0.0	89	640187	47.9	
65 1,2-Dichloropropane	63	4.578	4.578	0.0	94	390856	50.7	
67 Methyl methacrylate	41	4.627	4.626	0.001	89	375520	75.9	
68 Dibromomethane	93	4.688	4.687	0.001	83	159347	43.5	
69 1,4-Dioxane	88	4.700	4.699	0.001	87	27873	781.7	
70 Dichlorobromomethane	83	4.785	4.785	0.0	93	461189	48.5	
71 2-Nitropropane	43	4.980	4.979	0.001	98	190752	81.5	
72 2-Chloroethyl vinyl ether	63	4.986	4.985	0.001	91	125049	50.5	
73 cis-1,3-Dichloropropene	75	5.114	5.113	0.001	90	543531	55.5	
74 4-Methyl-2-pentanone (MIBK)	58	5.223	5.223	0.0	97	348290	241.1	
75 Toluene	91	5.357	5.356	0.001	93	1592560	56.4	
76 trans-1,3-Dichloropropene	75	5.558	5.557	0.001	90	416366	53.3	
77 Ethyl methacrylate	69	5.588	5.588	0.0	88	300814	49.8	
78 1,1,2-Trichloroethane	97	5.716	5.715	0.001	87	242871	50.8	
79 Tetrachloroethene	166	5.801	5.800	0.001	92	475173	59.9	
80 1,3-Dichloropropane	76	5.856	5.855	0.001	89	437667	50.6	
81 2-Hexanone	58	5.904	5.904	0.0	96	300691	225.6	
82 n-Butyl acetate	43	5.977	5.977	0.0	97	252521	64.9	
83 Chlorodibromomethane	127	6.056	6.056	0.0	85	237768	58.3	
84 Ethylene Dibromide	107	6.160	6.159	0.001	98	221929	49.5	
85 1-Chlorohexane	91	6.531	6.525	0.006	12	824	0	
86 Chlorobenzene	112	6.555	6.555	0.0	95	1070721	59.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
87 Ethylbenzene	91	6.622	6.616	0.006	98	1766322	55.2	
88 1,1,1,2-Tetrachloroethane	131	6.622	6.622	0.0	88	382556	60.0	
89 m-Xylene & p-Xylene	91	6.720	6.719	0.001	99	1397792	54.9	
90 o-Xylene	91	7.085	7.084	0.001	96	1393890	53.9	
91 Styrene	104	7.109	7.108	0.001	95	1173628	57.3	
92 Bromoform	173	7.322	7.321	0.001	98	184989	54.5	
93 Isopropylbenzene	105	7.407	7.406	0.001	95	1791139	56.9	
94 Cyclohexanone	55	7.577	7.571	0.006	87	37194	306.0	
95 Bromobenzene	77	7.729	7.729	0.0	90	639139	51.3	
96 1,1,2,2-Tetrachloroethane	83	7.748	7.747	0.001	88	260966	46.3	
98 trans-1,4-Dichloro-2-butene	53	7.790	7.790	0.0	37	69507	61.2	
99 N-Propylbenzene	91	7.790	7.790	0.0	97	2114338	53.3	
97 1,2,3-Trichloropropane	110	7.784	7.790	-0.006	83	75787	48.8	
100 2-Chlorotoluene	91	7.900	7.899	0.001	97	1229012	55.3	
101 1,3,5-Trimethylbenzene	105	7.954	7.954	0.0	81	1554225	56.5	
102 4-Chlorotoluene	91	8.003	8.003	0.0	96	1334509	53.6	
103 tert-Butylbenzene	119	8.259	8.258	0.001	86	1346659	56.7	
105 Pentachloroethane	167	8.326	8.317	0.009	1	3810	1.00	
104 1,2,4-Trimethylbenzene	105	8.313	8.319	-0.006	94	1597897	57.1	
106 sec-Butylbenzene	105	8.472	8.471	0.001	94	1944094	55.0	
107 4-Isopropyltoluene	119	8.605	8.605	0.0	94	1751738	58.6	
108 1,3-Dichlorobenzene	146	8.618	8.617	0.001	96	962700	50.3	
109 1,4-Dichlorobenzene	146	8.703	8.702	0.001	95	953211	55.2	
110 1,2,3-Trimethylbenzene	105	8.727	8.727	0.0	0	1585336	52.0	
111 Benzyl chloride	91	8.843	8.842	0.001	98	497226	57.8	
112 n-Butylbenzene	91	9.007	9.006	0.001	94	1500435	54.7	
113 1,2-Dichlorobenzene	146	9.068	9.067	0.001	98	849129	50.7	
114 1,2-Dibromo-3-Chloropropane	157	9.889	9.889	0.0	71	45645	40.2	
115 1,3,5-Trichlorobenzene	180	10.078	10.077	0.001	97	767295	48.8	
116 1,2,4-Trichlorobenzene	180	10.832	10.831	0.001	93	629583	47.8	
117 Hexachlorobutadiene	225	10.984	10.984	0.0	89	405488	48.8	
118 Naphthalene	128	11.112	11.111	0.001	97	855526	48.9	
119 1,2,3-Trichlorobenzene	180	11.367	11.367	0.0	94	545018	48.0	
S 132 1,2-Dichloroethene, Total	1				0		112.7	
S 131 Xylenes, Total	1				0		108.8	

Report Date: 20-Nov-2013 10:17:19 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP35\20131119-28678.b\1119-23.D				
Injection Date:	19-Nov-2013 23:31:30	Instrument ID:	HP35	Operator ID:	MJH HP35
Lims ID:	490-40571-A-1-A MSD	Lab Sample ID:	490-40571-1	Worklist Smp#:	23
Client ID:					
Purge Vol:	10.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	23
Method:	8260HP35	Limit Group:	MSV 8260B ICAL		



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Instrument ID: HP35 Start Date: 10/01/2013 15:51

Analysis Batch Number: 110993 End Date: 10/02/2013 02:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-110993/10		10/01/2013 15:51	1	1001-10.D	ZB-624 0.18(mm)
STD 490-110993/12 IC		10/01/2013 19:38	1	1001-12.D	ZB-624 0.18(mm)
STD 490-110993/13 IC		10/01/2013 20:09	1	1001-13.D	ZB-624 0.18(mm)
STD 490-110993/14 IC		10/01/2013 20:40	1	1001-14.D	ZB-624 0.18(mm)
STD 490-110993/15 IC		10/01/2013 21:11	1	1001-15.D	ZB-624 0.18(mm)
STD 490-110993/16 IC		10/01/2013 21:41	1	1001-16.D	ZB-624 0.18(mm)
STD 490-110993/17 IC		10/01/2013 22:12	1	1001-17.D	ZB-624 0.18(mm)
ICIS 490-110993/18		10/01/2013 22:43	1	1001-18.D	ZB-624 0.18(mm)
STD 490-110993/19 IC		10/01/2013 23:14	1	1001-19.D	ZB-624 0.18(mm)
STD 490-110993/20 IC		10/01/2013 23:45	1	1001-20.D	ZB-624 0.18(mm)
STD 490-110993/21 IC		10/02/2013 00:15	1	1001-21.D	ZB-624 0.18(mm)
ICV 490-110993/25		10/02/2013 02:18	1	1001-25.D	ZB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Instrument ID: HP35 Start Date: 11/14/2013 13:43

Analysis Batch Number: 121964 End Date: 11/15/2013 10:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-121964/1		11/14/2013 13:43	1	1114-01.D	ZB-624 0.18(mm)
STD 490-121964/3 IC		11/14/2013 14:57	1	1114-03.D	ZB-624 0.18(mm)
STD 490-121964/4 IC		11/14/2013 15:28	1	1114-04.D	ZB-624 0.18(mm)
STD 490-121964/5 IC		11/14/2013 15:59	1	1114-05.D	ZB-624 0.18(mm)
STD 490-121964/6 IC		11/14/2013 16:30	1	1114-06.D	ZB-624 0.18(mm)
STD 490-121964/7 IC		11/14/2013 17:00	1	1114-07.D	ZB-624 0.18(mm)
STD 490-121964/8 IC		11/14/2013 17:31	1	1114-08.D	ZB-624 0.18(mm)
ICIS 490-121964/9		11/14/2013 18:02	1	1114-09.D	ZB-624 0.18(mm)
STD 490-121964/10 IC		11/14/2013 18:38	1	1114-10.D	ZB-624 0.18(mm)
STD 490-121964/11 IC		11/14/2013 19:08	1	1114-11.D	ZB-624 0.18(mm)
BFB 490-121964/15		11/15/2013 09:57	1	1114-15.D	ZB-624 0.18(mm)
ICV 490-121964/14		11/15/2013 10:42	1	1114-14a.D	ZB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Instrument ID: HP35 Start Date: 11/18/2013 10:32

Analysis Batch Number: 122748 End Date: 11/18/2013 21:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-122748/1		11/18/2013 10:32	1	1118-01.D	ZB-624 0.18(mm)
CCVIS 490-122748/2		11/18/2013 11:07	1	1118-02.D	ZB-624 0.18(mm)
LCS 490-122748/3		11/18/2013 11:38	1	1118-03.D	ZB-624 0.18(mm)
LCSD 490-122748/4		11/18/2013 12:08	1	1118-04.D	ZB-624 0.18(mm)
MB 490-122748/7		11/18/2013 13:41	1	1118-07.D	ZB-624 0.18(mm)
490-39837-7	Field Blank	11/18/2013 14:11	1	1118-08.D	ZB-624 0.18(mm)
490-39837-9	Equipment Blank	11/18/2013 14:42	1	1118-09.D	ZB-624 0.18(mm)
490-39837-11	Trip Blank	11/18/2013 15:13	1	1118-10.D	ZB-624 0.18(mm)
490-39837-1	MW-03A-GW-001	11/18/2013 15:44	1	1118-11.D	ZB-624 0.18(mm)
490-39837-2	MW-03B-GW-001	11/18/2013 16:15	1	1118-12.D	ZB-624 0.18(mm)
490-39837-4	MW-03B-GW-002	11/18/2013 16:45	1	1118-13.D	ZB-624 0.18(mm)
490-39837-6	MW-05-GW-001	11/18/2013 17:16	1	1118-14.D	ZB-624 0.18(mm)
490-39837-2 MS	MW-03B-GW-001 MS	11/18/2013 17:47	1	1118-15.D	ZB-624 0.18(mm)
490-39837-2 MSD	MW-03B-GW-001 MSD	11/18/2013 18:17	1	1118-16.D	ZB-624 0.18(mm)
ZZZZZ		11/18/2013 19:49	1		ZB-624 0.18(mm)
ZZZZZ		11/18/2013 20:20	1		ZB-624 0.18(mm)
ZZZZZ		11/18/2013 20:51	1		ZB-624 0.18(mm)
ZZZZZ		11/18/2013 21:22	1		ZB-624 0.18(mm)
ZZZZZ		11/18/2013 21:52	1		ZB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Instrument ID: HP35 Start Date: 11/19/2013 11:11

Analysis Batch Number: 123017 End Date: 11/19/2013 23:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-123017/1		11/19/2013 11:11	1	1119-01.D	ZB-624 0.18(mm)
CCVIS 490-123017/2		11/19/2013 11:47	1	1119-02.D	ZB-624 0.18(mm)
LCS 490-123017/3		11/19/2013 12:17	1	1119-03.D	ZB-624 0.18(mm)
LCSD 490-123017/4		11/19/2013 12:48	1	1119-04.D	ZB-624 0.18(mm)
ZZZZZ		11/19/2013 14:11	1		ZB-624 0.18(mm)
MB 490-123017/7		11/19/2013 14:42	1	1119-07.D	ZB-624 0.18(mm)
ZZZZZ		11/19/2013 15:28	10		ZB-624 0.18(mm)
490-39837-2	MW-03B-GW-001	11/19/2013 16:04	10	1119-09.D	ZB-624 0.18(mm)
490-39837-4	MW-03B-GW-002	11/19/2013 16:34	10	1119-10.D	ZB-624 0.18(mm)
ZZZZZ		11/19/2013 17:05	10		ZB-624 0.18(mm)
ZZZZZ		11/19/2013 17:52	1		ZB-624 0.18(mm)
ZZZZZ		11/19/2013 18:23	1		ZB-624 0.18(mm)
ZZZZZ		11/19/2013 18:53	1		ZB-624 0.18(mm)
ZZZZZ		11/19/2013 19:24	1		ZB-624 0.18(mm)
ZZZZZ		11/19/2013 19:56	500		ZB-624 0.18(mm)
ZZZZZ		11/19/2013 20:27	10		ZB-624 0.18(mm)
ZZZZZ		11/19/2013 20:57	10		ZB-624 0.18(mm)
ZZZZZ		11/19/2013 21:28	10		ZB-624 0.18(mm)
ZZZZZ		11/19/2013 21:59	50		ZB-624 0.18(mm)
ZZZZZ		11/19/2013 22:29	10		ZB-624 0.18(mm)
490-40571-A-1-A MS		11/19/2013 23:00	10	1119-22.D	ZB-624 0.18(mm)
490-40571-A-1-A MSD		11/19/2013 23:31	10	1119-23.D	ZB-624 0.18(mm)

Method 8270C

Semivolatile Organic Compounds (GC/MS) by Method 8270C

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Matrix: Water Level: Low

GC Column (1): ZB-5MSi ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPH #
MW-03B-GW-001	490-39837-2	37	23	77	80	85	75
MW-03B-GW-002	490-39837-4	36	21	71	74	78	58
MW-05-GW-001	490-39837-6	37	24	79	80	80	62
Field Blank	490-39837-7	41	25	76	78	76	84
Equipment Blank	490-39837-9	36	23	77	77	73	83
	MB 490-121926/1-A	34	18	71	76	75	86
	LCS 490-121926/2-A	45	30	92	89	97	95
MW-03B-GW-001 MS	490-39837-2 MS	39	26	84	82	90	71
MW-03B-GW-001 MSD	490-39837-2 MSD	36	24	77	77	85	50

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	10-120
PHL = Phenol-d5 (Surr)	10-120
NBZ = Nitrobenzene-d5 (Surr)	27-120
FBP = 2-Fluorobiphenyl (Surr)	29-120
TBP = 2,4,6-Tribromophenol (Surr)	10-120
TPH = Terphenyl-d14 (Surr)	13-120

Column to be used to flag recovery values

FORM II 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 1115007.D

Lab ID: LCS 490-121926/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	50.0	47.24	94	46-120	
Acenaphthylene	50.0	46.86	94	48-120	
Acetophenone	50.0	46.09	92	52-133	
Anthracene	50.0	48.09	96	58-130	
Atrazine	50.0	51.11	102	24-133	
Benzaldehyde	50.0	75.01	150	34-120	*
Benzo[a]anthracene	50.0	48.37	97	57-120	
Benzo[a]pyrene	50.0	47.40	95	57-124	
Benzo[b]fluoranthene	50.0	45.81	92	51-125	
Benzo[g,h,i]perylene	50.0	47.95	96	51-123	
Benzo[k]fluoranthene	50.0	49.46	99	51-120	
Biphenyl	50.0	45.75	91	10-146	
Bis(2-chloroethoxy)methane	50.0	44.77	90	44-120	
Bis(2-chloroethyl)ether	50.0	41.97	84	47-120	
bis (2-chloroisopropyl) ether	50.0	39.45	79	44-120	
Bis(2-ethylhexyl) phthalate	50.0	48.35	97	47-138	
4-Bromophenyl phenyl ether	50.0	51.05	102	47-127	
Butyl benzyl phthalate	50.0	49.08	98	51-146	
Caprolactam	50.0	11.45	23	10-120	
Carbazole	50.0	48.49	97	54-123	
4-Chloroaniline	50.0	46.82	94	44-120	
4-Chloro-3-methylphenol	50.0	50.21	100	44-120	
2-Chloronaphthalene	50.0	44.84	90	39-120	
2-Chlorophenol	50.0	43.55	87	40-120	
4-Chlorophenyl phenyl ether	50.0	48.33	97	50-120	
Chrysene	50.0	49.82	100	55-120	
Dibenz(a,h)anthracene	50.0	48.67	97	50-125	
Dibenzofuran	50.0	47.62	95	50-120	
3,3'-Dichlorobenzidine	50.0	47.73	95	46-129	
2,4-Dichlorophenol	50.0	48.88	98	38-120	
Diethyl phthalate	50.0	49.88	100	54-128	
2,4-Dimethylphenol	50.0	39.98	80	21-126	
Dimethyl phthalate	50.0	47.98	96	53-127	
Di-n-butyl phthalate	50.0	50.61	101	54-140	
4,6-Dinitro-2-methylphenol	100	101.5	101	19-150	
2,4-Dinitrophenol	100	97.76	98	20-150	
2,4-Dinitrotoluene	50.0	50.51	101	46-132	
2,6-Dinitrotoluene	50.0	51.60	103	54-128	
Di-n-octyl phthalate	50.0	48.83	98	50-142	
Fluoranthene	50.0	49.41	99	56-120	
Fluorene	50.0	49.55	99	52-120	
Hexachlorobenzene	50.0	49.65	99	48-131	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 1115007.D

Lab ID: LCS 490-121926/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Hexachlorobutadiene	50.0	35.28	71	28-120	
Hexachlorocyclopentadiene	50.0	32.09	64	17-120	
Hexachloroethane	50.0	28.80	58	30-120	
Indeno[1,2,3-cd]pyrene	50.0	46.74	93	54-125	
Isophorone	50.0	48.75	98	47-120	
2-Methylnaphthalene	50.0	42.53	85	31-120	
2-Methylphenol	50.0	38.16	76	38-120	
3 & 4 Methylphenol	50.0	34.14	68	33-120	
Naphthalene	50.0	39.79	80	37-120	
2-Nitroaniline	50.0	49.60	99	46-131	
3-Nitroaniline	50.0	44.77	90	54-121	
4-Nitroaniline	50.0	46.64	93	55-123	
Nitrobenzene	50.0	47.70	95	36-120	
2-Nitrophenol	50.0	49.12	98	32-120	
4-Nitrophenol	100	37.56	38	10-120	
N-Nitrosodi-n-propylamine	50.0	46.19	92	51-120	
n-Nitrosodiphenylamine(as diphenylamine)	50.0	59.84	120	58-149	
Pentachlorophenol	100	101.4	101	21-150	
Phenanthrene	50.0	48.07	96	56-120	
Phenol	50.0	15.98	32	14-120	
Pyrene	50.0	48.14	96	53-129	
2,4,5-Trichlorophenol	50.0	51.77	104	40-129	
2,4,6-Trichlorophenol	50.0	50.63	101	39-135	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 1115010.D

Lab ID: 490-39837-2 MS Client ID: MW-03B-GW-001 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acenaphthene	46.7	ND	41.71	89	46-120	
Acenaphthylene	46.7	ND	41.05	88	48-120	
Acetophenone	46.7	ND	40.13	86	10-200	
Anthracene	46.7	ND	43.35	93	56-130	
Atrazine	46.7	ND	44.78	96	10-200	
Benzaldehyde	46.7	ND	46.71	100	10-200	
Benzo[a]anthracene	46.7	ND	42.87	92	57-122	
Benzo[a]pyrene	46.7	ND	42.33	91	46-138	
Benzo[b]fluoranthene	46.7	ND	42.85	92	45-138	
Benzo[g,h,i]perylene	46.7	ND	42.58	91	48-137	
Benzo[k]fluoranthene	46.7	ND	41.63	89	44-134	
Biphenyl	46.7	ND	40.33	86	10-200	
Bis(2-chloroethoxy)methane	46.7	ND	39.13	84	41-120	
Bis(2-chloroethyl)ether	46.7	ND	37.84	81	42-120	
bis (2-chloroisopropyl) ether	46.7	ND	34.82	75	44-120	
Bis(2-ethylhexyl) phthalate	46.7	ND	191.7	410	44-138	E F
4-Bromophenyl phenyl ether	46.7	ND	45.06	96	47-127	
Butyl benzyl phthalate	46.7	ND	44.92	96	51-146	
Caprolactam	46.7	ND	9.372	20	10-200	
Carbazole	46.7	ND	43.31	93	53-123	
4-Chloroaniline	46.7	ND	40.05	86	35-120	
4-Chloro-3-methylphenol	46.7	ND	42.70	91	38-120	
2-Chloronaphthalene	46.7	ND	39.60	85	39-120	
2-Chlorophenol	46.7	ND	37.67	81	40-120	
4-Chlorophenyl phenyl ether	46.7	ND	41.92	90	50-120	
Chrysene	46.7	ND	43.95	94	54-123	
Dibenz(a,h)anthracene	46.7	ND	42.70	91	50-136	
Dibenzofuran	46.7	ND	41.32	88	50-120	
3,3'-Dichlorobenzidine	46.7	ND	44.13	94	10-130	
2,4-Dichlorophenol	46.7	ND	41.85	90	38-120	
Diethyl phthalate	46.7	ND	44.26	95	53-128	
2,4-Dimethylphenol	46.7	ND	38.79	83	11-130	
Dimethyl phthalate	46.7	ND	42.81	92	53-127	
Di-n-butyl phthalate	46.7	ND	46.06	99	54-140	
4,6-Dinitro-2-methylphenol	93.5	ND	89.33	96	10-157	
2,4-Dinitrophenol	93.5	ND	83.28	89	10-176	
2,4-Dinitrotoluene	46.7	ND	43.41	93	46-134	
2,6-Dinitrotoluene	46.7	ND	44.79	96	54-128	
Di-n-octyl phthalate	46.7	ND	45.23	97	50-142	
Fluoranthene	46.7	ND	43.42	93	56-120	
Fluorene	46.7	ND	42.69	91	52-120	
Hexachlorobenzene	46.7	ND	43.80	94	48-131	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 1115010.D

Lab ID: 490-39837-2 MS Client ID: MW-03B-GW-001 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Hexachlorobutadiene	46.7	ND	33.80	72	24-120	
Hexachlorocyclopentadiene	46.7	ND	29.05	62	10-120	
Hexachloroethane	46.7	ND	29.33	63	26-120	
Indeno[1,2,3-cd]pyrene	46.7	ND	41.47	89	50-136	
Isophorone	46.7	ND	42.73	91	42-120	
2-Methylnaphthalene	46.7	ND	38.79	83	31-120	
2-Methylphenol	46.7	ND	32.59	70	36-120	
3 & 4 Methylphenol	46.7	ND	29.59	63	32-120	
Naphthalene	46.7	ND	35.78	77	32-120	
2-Nitroaniline	46.7	ND	43.13	92	46-131	
3-Nitroaniline	46.7	ND	38.96	83	38-121	
4-Nitroaniline	46.7	ND	39.83	85	47-124	
Nitrobenzene	46.7	ND	40.41	86	36-120	
2-Nitrophenol	46.7	ND	42.32	91	32-120	
4-Nitrophenol	93.5	ND	30.48	33	10-120	
N-Nitrosodi-n-propylamine	46.7	ND	40.80	87	50-121	
n-Nitrosodiphenylamine(as diphenylamine)	46.7	ND	54.71	117	45-149	
Pentachlorophenol	93.5	ND	89.54	96	21-159	
Phenanthrene	46.7	ND	43.06	92	53-120	
Phenol	46.7	ND	14.46	31	10-120	
Pyrene	46.7	ND	43.60	93	50-129	
2,4,5-Trichlorophenol	46.7	ND	44.85	96	40-129	
2,4,6-Trichlorophenol	46.7	ND	43.81	94	39-135	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 1115011.D

Lab ID: 490-39837-2 MSD Client ID: MW-03B-GW-001 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	46.7	39.60	85	5	31	46-120	
Acenaphthylene	46.7	38.61	83	6	31	48-120	
Acetophenone	46.7	37.01	79	8	50	10-200	
Anthracene	46.7	40.38	86	7	28	56-130	
Atrazine	46.7	42.81	92	4	50	10-200	
Benzaldehyde	46.7	57.04	122	20	50	10-200	
Benzo[a]anthracene	46.7	39.24	84	9	27	57-122	
Benzo[a]pyrene	46.7	38.98	83	8	27	46-138	
Benzo[b]fluoranthene	46.7	39.30	84	9	39	45-138	
Benzo[g,h,i]perylene	46.7	39.58	85	7	27	48-137	
Benzo[k]fluoranthene	46.7	38.54	82	8	32	44-134	
Biphenyl	46.7	37.13	79	8	50	10-200	
Bis(2-chloroethoxy)methane	46.7	36.48	78	7	31	41-120	
Bis(2-chloroethyl)ether	46.7	34.26	73	10	38	42-120	
bis (2-chloroisopropyl) ether	46.7	32.25	69	8	36	44-120	
Bis(2-ethylhexyl) phthalate	46.7	45.00	96	124	28	44-138	F
4-Bromophenyl phenyl ether	46.7	41.63	89	8	29	47-127	
Butyl benzyl phthalate	46.7	40.30	86	11	31	51-146	
Caprolactam	46.7	8.910 J	19	5	50	10-200	
Carbazole	46.7	40.00	86	8	29	53-123	
4-Chloroaniline	46.7	36.91	79	8	26	35-120	
4-Chloro-3-methylphenol	46.7	40.30	86	6	22	38-120	
2-Chloronaphthalene	46.7	37.74	81	5	36	39-120	
2-Chlorophenol	46.7	34.92	75	8	46	40-120	
4-Chlorophenyl phenyl ether	46.7	39.01	83	7	29	50-120	
Chrysene	46.7	40.69	87	8	27	54-123	
Dibenz(a,h)anthracene	46.7	39.51	85	8	28	50-136	
Dibenzofuran	46.7	39.01	83	6	29	50-120	
3,3'-Dichlorobenzidine	46.7	32.60	70	30	30	10-130	
2,4-Dichlorophenol	46.7	39.03	84	7	30	38-120	
Diethyl phthalate	46.7	41.54	89	6	28	53-128	
2,4-Dimethylphenol	46.7	35.44	76	9	48	11-130	
Dimethyl phthalate	46.7	40.43	87	6	27	53-127	
Di-n-butyl phthalate	46.7	42.34	91	8	27	54-140	
4,6-Dinitro-2-methylphenol	93.5	82.82	89	8	34	10-157	
2,4-Dinitrophenol	93.5	80.64	86	3	31	10-176	
2,4-Dinitrotoluene	46.7	41.33	88	5	26	46-134	
2,6-Dinitrotoluene	46.7	42.53	91	5	29	54-128	
Di-n-octyl phthalate	46.7	40.50	87	11	28	50-142	
Fluoranthene	46.7	40.82	87	6	28	56-120	
Fluorene	46.7	40.41	86	5	28	52-120	
Hexachlorobenzene	46.7	40.63	87	8	28	48-131	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 1115011.D

Lab ID: 490-39837-2 MSD Client ID: MW-03B-GW-001 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Hexachlorobutadiene	46.7	29.91	64	12	43	24-120	
Hexachlorocyclopentadiene	46.7	27.31	58	6	43	10-120	
Hexachloroethane	46.7	27.42	59	7	45	26-120	
Indeno[1,2,3-cd]pyrene	46.7	38.37	82	8	27	50-136	
Isophorone	46.7	40.08	86	6	31	42-120	
2-Methylnaphthalene	46.7	35.23	75	10	35	31-120	
2-Methylphenol	46.7	30.11	64	8	32	36-120	
3 & 4 Methylphenol	46.7	26.92	58	9	34	32-120	
Naphthalene	46.7	33.35	71	7	37	32-120	
2-Nitroaniline	46.7	42.16	90	2	24	46-131	
3-Nitroaniline	46.7	36.07	77	8	26	38-121	
4-Nitroaniline	46.7	37.73	81	5	26	47-124	
Nitrobenzene	46.7	37.64	81	7	28	36-120	
2-Nitrophenol	46.7	39.28	84	7	31	32-120	
4-Nitrophenol	93.5	28.72	31	6	38	10-120	
N-Nitrosodi-n-propylamine	46.7	37.30	80	9	37	50-121	
n-Nitrosodiphenylamine(as diphenylamine)	46.7	51.25	110	7	26	45-149	
Pentachlorophenol	93.5	85.33	91	5	31	21-159	
Phenanthrene	46.7	39.86	85	8	26	53-120	
Phenol	46.7	13.50	29	7	42	10-120	
Pyrene	46.7	40.02	86	9	29	50-129	
2,4,5-Trichlorophenol	46.7	42.47	91	5	34	40-129	
2,4,6-Trichlorophenol	46.7	41.48	89	5	40	39-135	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Lab File ID: 1115006.D Lab Sample ID: MB 490-121926/1-A

Matrix: Water Date Extracted: 11/14/2013 11:54

Instrument ID: HP31 Date Analyzed: 11/15/2013 15:24

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 490-121926/2-A	1115007.D	11/15/2013 15:47
MW-03B-GW-001	490-39837-2	1115009.D	11/15/2013 17:19
MW-03B-GW-001 MS	490-39837-2 MS	1115010.D	11/15/2013 17:42
MW-03B-GW-001 MSD	490-39837-2 MSD	1115011.D	11/15/2013 18:06
MW-03B-GW-002	490-39837-4	1115012.D	11/15/2013 18:29
MW-05-GW-001	490-39837-6	1115013.D	11/15/2013 18:52
Field Blank	490-39837-7	1115014.D	11/15/2013 19:15
Equipment Blank	490-39837-9	1115015.D	11/15/2013 19:38

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Lab File ID: 1022002.D DFTPP Injection Date: 10/22/2013

Instrument ID: HP31 DFTPP Injection Time: 16:47

Analysis Batch No.: 116166

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	33.6	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	36.3	
70	Less than 2.0 % of mass 69	0.2	(0.4)1
127	40.0 - 60.0 % of mass 198	50.0	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.8	
275	10.0 - 30.0 % of mass 198	27.1	
365	Greater than 1.0 % of mass 198	3.2	
441	Present but less than mass 443	13.8	(71.5)3
442	Greater than 40.0 % of mass 198	97.1	
443	17.0 - 23.0 % of mass 442	19.3	(19.9)2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD 490-116166/3	1022003.D	10/22/2013	17:06
	STD 490-116166/6	1022004.D	10/22/2013	17:28
	STD 490-116166/7	1022005.D	10/22/2013	17:51
	STD 490-116166/8	1022006.D	10/22/2013	18:14
	ICIS 490-116166/9	1022007.D	10/22/2013	18:37
	STD 490-116166/10	1022008.D	10/22/2013	19:00
	STD 490-116166/11	1022009.D	10/22/2013	19:23
	ICV 490-116166/12	1022010.D	10/22/2013	19:45

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Lab File ID: 1115002.D DFTPP Injection Date: 11/15/2013

Instrument ID: HP31 DFTPP Injection Time: 13:48

Analysis Batch No.: 122300

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	35.0	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	37.5	
70	Less than 2.0 % of mass 69	0.1	(0.4)1
127	40.0 - 60.0 % of mass 198	53.3	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.8	
275	10.0 - 30.0 % of mass 198	28.0	
365	Greater than 1.0 % of mass 198	3.9	
441	Present but less than mass 443	13.9	(73.7)3
442	Greater than 40.0 % of mass 198	97.2	
443	17.0 - 23.0 % of mass 442	18.9	(19.4)2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-122300/3	1115003.D	11/15/2013	14:06
	CCV 490-122300/4	1115004.D	11/15/2013	14:38
	CCV 490-122300/5	1115005.D	11/15/2013	15:01
	MB 490-121926/1-A	1115006.D	11/15/2013	15:24
	LCS 490-121926/2-A	1115007.D	11/15/2013	15:47
MW-03B-GW-001	490-39837-2	1115009.D	11/15/2013	17:19
MW-03B-GW-001 MS	490-39837-2 MS	1115010.D	11/15/2013	17:42
MW-03B-GW-001 MSD	490-39837-2 MSD	1115011.D	11/15/2013	18:06
MW-03B-GW-002	490-39837-4	1115012.D	11/15/2013	18:29
MW-05-GW-001	490-39837-6	1115013.D	11/15/2013	18:52
Field Blank	490-39837-7	1115014.D	11/15/2013	19:15
Equipment Blank	490-39837-9	1115015.D	11/15/2013	19:38

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Sample No.: ICIS 490-116166/9 Date Analyzed: 10/22/2013 18:37

Instrument ID: HP31 GC Column: ZB-5MSi ID: 0.25(mm)

Lab File ID (Standard): 1022007.D Heated Purge: (Y/N) N

Calibration ID: 19839

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		156210	4.01	634089	4.80	437485	6.08
UPPER LIMIT		312420	4.51	1268178	5.30	874970	6.58
LOWER LIMIT		78105	3.51	317045	4.30	218743	5.58
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 490-116166/12		162920	4.01	658661	4.80	457210	6.08
CCVIS 490-122300/3		197054	3.78	754693	4.57	519393	5.79
CCV 490-122300/4		186076	3.78	734091	4.57	481716	5.79
CCV 490-122300/5		187774	3.78	724528	4.57	473452	5.79

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Sample No.: ICIS 490-116166/9 Date Analyzed: 10/22/2013 18:37

Instrument ID: HP31 GC Column: ZB-5MSi ID: 0.25(mm)

Lab File ID (Standard): 1022007.D Heated Purge: (Y/N) N

Calibration ID: 19839

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		793410	7.53	912421	10.59	914700	12.18
UPPER LIMIT		1586820	8.03	1824842	11.09	1829400	12.68
LOWER LIMIT		396705	7.03	456211	10.09	457350	11.68
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 490-116166/12		818414	7.53	937022	10.59	955277	12.18
CCVIS 490-122300/3		946517	7.19	1145710	10.21	1170023	11.79
CCV 490-122300/4		861897	7.19	1025669	10.21	1049019	11.79
CCV 490-122300/5		825059	7.19	969691	10.21	968443	11.79

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Sample No.: CCVIS 490-122300/3 Date Analyzed: 11/15/2013 14:06

Instrument ID: HP31 GC Column: ZB-5MSi ID: 0.25(mm)

Lab File ID (Standard): 1115003.D Heated Purge: (Y/N) N

Calibration ID: 20283

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		197054	3.78	754693	4.57	519393	5.79
UPPER LIMIT		394108	4.28	1509386	5.07	1038786	6.29
LOWER LIMIT		98527	3.28	377347	4.07	259697	5.29
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 490-122300/4		186076	3.78	734091	4.57	481716	5.79
CCV 490-122300/5		187774	3.78	724528	4.57	473452	5.79
MB 490-121926/1-A		183128	3.79	721840	4.57	466951	5.78
LCS 490-121926/2-A		201589	3.78	790736	4.57	545982	5.79
490-39837-2	MW-03B-GW-001	210219	3.78	833354	4.57	534403	5.79
490-39837-2 MS	MW-03B-GW-001 MS	197706	3.78	786072	4.57	539348	5.79
490-39837-2 MSD	MW-03B-GW-001 MSD	202897	3.78	803558	4.57	542504	5.79
490-39837-4	MW-03B-GW-002	187985	3.79	757662	4.57	482296	5.78
490-39837-6	MW-05-GW-001	173855	3.78	718329	4.57	459909	5.79
490-39837-7	Field Blank	187635	3.78	763516	4.57	491628	5.79
490-39837-9	Equipment Blank	187308	3.78	733083	4.57	489861	5.79

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Sample No.: CCVIS 490-122300/3 Date Analyzed: 11/15/2013 14:06

Instrument ID: HP31 GC Column: ZB-5MSi ID: 0.25(mm)

Lab File ID (Standard): 1115003.D Heated Purge: (Y/N) N

Calibration ID: 20283

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		946517	7.19	1145710	10.21	1170023	11.79
UPPER LIMIT		1893034	7.69	2291420	10.71	2340046	12.29
LOWER LIMIT		473259	6.69	572855	9.71	585012	11.29
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 490-122300/4		861897	7.19	1025669	10.21	1049019	11.79
CCV 490-122300/5		825059	7.19	969691	10.21	968443	11.79
MB 490-121926/1-A		827249	7.19	1016118	10.20	1075227	11.79
LCS 490-121926/2-A		1000821	7.19	1212007	10.21	1232183	11.79
490-39837-2	MW-03B-GW-001	944162	7.18	1138865	10.21	1162760	11.78
490-39837-2 MS	MW-03B-GW-001 MS	970280	7.19	1155087	10.21	1176913	11.79
490-39837-2 MSD	MW-03B-GW-001 MSD	990167	7.18	1210335	10.21	1236569	11.79
490-39837-4	MW-03B-GW-002	876931	7.18	1065051	10.20	1122265	11.79
490-39837-6	MW-05-GW-001	820545	7.18	999553	10.21	1037101	11.79
490-39837-7	Field Blank	879163	7.18	1074886	10.20	1143048	11.79
490-39837-9	Equipment Blank	899365	7.18	1101118	10.21	1137900	11.79

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: MW-03B-GW-001 | Lab Sample ID: 490-39837-2

Matrix: Water | Lab File ID: 1115009.D

Analysis Method: 8270C | Date Collected: 11/07/2013 13:19

Extract. Method: 3510C | Date Extracted: 11/14/2013 11:54

Sample wt/vol: 1070(mL) | Date Analyzed: 11/15/2013 17:19

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122300 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		1.87	0.342
208-96-8	Acenaphthylene	ND		1.87	0.308
98-86-2	Acetophenone	ND		9.35	1.78
120-12-7	Anthracene	ND		1.87	0.825
1912-24-9	Atrazine	ND		9.35	3.46
100-52-7	Benzaldehyde	ND		9.35	2.01
56-55-3	Benzo[a]anthracene	ND		1.87	0.303
50-32-8	Benzo[a]pyrene	ND		1.87	0.308
205-99-2	Benzo[b]fluoranthene	ND		1.87	0.394
191-24-2	Benzo[g,h,i]perylene	ND		1.87	0.268
207-08-9	Benzo[k]fluoranthene	ND		1.87	0.340
92-52-4	Biphenyl	ND		9.35	3.11
111-91-1	Bis(2-chloroethoxy)methane	ND		9.35	1.27
111-44-4	Bis(2-chloroethyl)ether	ND		9.35	1.30
108-60-1	bis (2-chloroisopropyl) ether	ND		9.35	1.83
117-81-7	Bis(2-ethylhexyl) phthalate	ND		9.35	1.93
101-55-3	4-Bromophenyl phenyl ether	ND		9.35	1.28
85-68-7	Butyl benzyl phthalate	ND		9.35	1.63
105-60-2	Caprolactam	ND		9.35	3.11
86-74-8	Carbazole	ND		9.35	0.279
106-47-8	4-Chloroaniline	ND		9.35	1.09
59-50-7	4-Chloro-3-methylphenol	ND		9.35	3.11
91-58-7	2-Chloronaphthalene	ND		9.35	1.53
95-57-8	2-Chlorophenol	ND		9.35	1.49
7005-72-3	4-Chlorophenyl phenyl ether	ND		9.35	1.64
218-01-9	Chrysene	ND		1.87	1.02
53-70-3	Dibenz(a,h)anthracene	ND		1.87	0.602
132-64-9	Dibenzofuran	ND		9.35	0.317
91-94-1	3,3'-Dichlorobenzidine	ND		9.35	1.42
120-83-2	2,4-Dichlorophenol	ND		9.35	0.953
84-66-2	Diethyl phthalate	ND		9.35	1.51
105-67-9	2,4-Dimethylphenol	ND		9.35	0.931
131-11-3	Dimethyl phthalate	ND		9.35	1.69
84-74-2	Di-n-butyl phthalate	ND		9.35	1.40

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: MW-03B-GW-001 | Lab Sample ID: 490-39837-2

Matrix: Water | Lab File ID: 1115009.D

Analysis Method: 8270C | Date Collected: 11/07/2013 13:19

Extract. Method: 3510C | Date Extracted: 11/14/2013 11:54

Sample wt/vol: 1070(mL) | Date Analyzed: 11/15/2013 17:19

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122300 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
534-52-1	4,6-Dinitro-2-methylphenol	ND		23.4	1.93
51-28-5	2,4-Dinitrophenol	ND		23.4	2.30
121-14-2	2,4-Dinitrotoluene	ND		9.35	3.11
606-20-2	2,6-Dinitrotoluene	ND		9.35	1.81
117-84-0	Di-n-octyl phthalate	ND		9.35	2.16
206-44-0	Fluoranthene	ND		1.87	0.324
86-73-7	Fluorene	ND		1.87	0.295
118-74-1	Hexachlorobenzene	ND		9.35	1.58
87-68-3	Hexachlorobutadiene	ND		9.35	3.11
77-47-4	Hexachlorocyclopentadiene	ND		9.35	3.11
67-72-1	Hexachloroethane	ND		9.35	3.11
193-39-5	Indeno[1,2,3-cd]pyrene	ND		1.87	0.356
78-59-1	Isophorone	ND		9.35	1.16
91-57-6	2-Methylnaphthalene	ND		1.87	0.291
95-48-7	2-Methylphenol	ND		9.35	3.11
15831-10-4	3 & 4 Methylphenol	ND		9.35	3.11
91-20-3	Naphthalene	ND		1.87	0.372
88-74-4	2-Nitroaniline	ND		23.4	0.972
99-09-2	3-Nitroaniline	ND		23.4	1.73
100-01-6	4-Nitroaniline	ND		23.4	2.23
98-95-3	Nitrobenzene	ND		9.35	1.16
88-75-5	2-Nitrophenol	ND		9.35	1.47
100-02-7	4-Nitrophenol	ND		23.4	3.11
621-64-7	N-Nitrosodi-n-propylamine	ND		9.35	1.33
86-30-6	n-Nitrosodiphenylamine(as diphenylamine)	ND		9.35	1.35
87-86-5	Pentachlorophenol	ND		23.4	1.54
85-01-8	Phenanthrene	ND		1.87	0.321
108-95-2	Phenol	ND		9.35	3.22
129-00-0	Pyrene	ND		1.87	0.309
95-95-4	2,4,5-Trichlorophenol	ND		23.4	1.90
88-06-2	2,4,6-Trichlorophenol	ND		9.35	1.64

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: MW-03B-GW-001 | Lab Sample ID: 490-39837-2

Matrix: Water | Lab File ID: 1115009.D

Analysis Method: 8270C | Date Collected: 11/07/2013 13:19

Extract. Method: 3510C | Date Extracted: 11/14/2013 11:54

Sample wt/vol: 1070(mL) | Date Analyzed: 11/15/2013 17:19

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122300 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	80		29-120
367-12-4	2-Fluorophenol (Surr)	37		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	77		27-120
4165-62-2	Phenol-d5 (Surr)	23		10-120
1718-51-0	Terphenyl-d14 (Surr)	75		13-120
118-79-6	2,4,6-Tribromophenol (Surr)	85		10-120

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\hp31\20131115-28515.b\1115009.D
Lims ID: 490-39837-U-2-A Lab Sample ID: 490-39837-2
Client ID: MW-03B-GW-001
Sample Type: Client
Inject. Date: 15-Nov-2013 17:19:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 490-39837-U-2-A
Misc. Info.: 490-0028515-009
Operator ID: HP-31 Instrument ID: HP31

Method: \\Nvlchrom\ChromData\hp31\20131115-28515.b\8270HP31.m
Limit Group: MSS 8270C ICAL
Last Update: 18-Nov-2013 09:40:36 Calib Date: 04-Nov-2013 11:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\hp31\20131103-27806.b\1104019.D

Column 1 : Detector MS SCAN
Process Host: XAWRK006

First Level Reviewer: phelpsk Date: 18-Nov-2013 09:40:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.781	3.782	-0.001	95	210219	40.0	
$ 11 2-Fluorophenol	112	2.982	2.977	0.005	89	113885	18.5	
$ 15 Phenol-d5	99	3.617	3.607	0.010	0	93917	11.3	
12 2-Butoxyethanol	57	8.667	8.656	0.011	1	157	0	
* 37 Naphthalene-d8	136	4.571	4.572	-0.001	99	833354	40.0	
$ 46 Nitrobenzene-d5	82	4.134	4.134	0.0	86	261919	38.4	
* 72 Acenaphthene-d10	164	5.785	5.785	0.0	83	534403	40.0	
$ 79 2-Fluorobiphenyl (Surr)	172	5.277	5.277	0.0	99	646969	39.9	
A 75 C10-C28	1	6.000	2.000 -	10.000	0	13995567	0	
* 106 Phenanthrene-d10	188	7.181	7.186	-0.005	96	944162	40.0	
$ 119 2,4,6-Tribromophenol	330	6.495	6.499	-0.004	90	120369	42.7	
* 140 Chrysene-d12	240	10.205	10.205	0.0	79	1138865	40.0	
$ 147 Terphenyl-d14	244	9.010	9.015	-0.005	94	818434	37.5	
154 Bis(2-ethylhexyl) phthalate	149	10.360	10.364	-0.004	91	7655	1.10	
* 156 Perylene-d12	264	11.784	11.789	-0.005	82	1162760	40.0	
A 176 C10-C21	1	6.000	4.000 -	8.000	0	9800909	0	7
A 182 C21-C35	1	10.000	8.000 -	12.000	0	8585430	0	7

QC Flag Legend

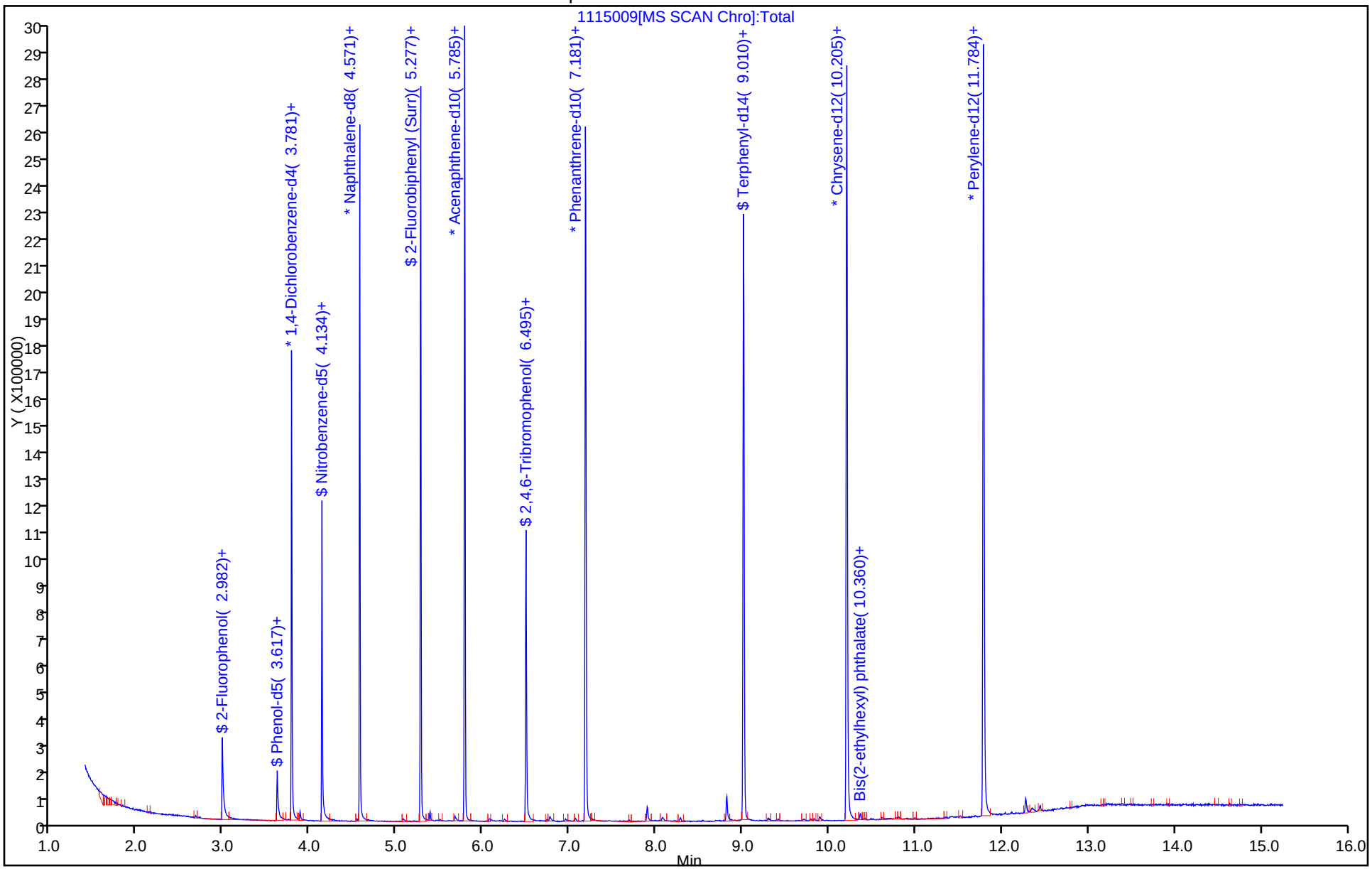
Processing Flags
7 - Failed Limit of Detection

Report Date: 18-Nov-2013 09:40:37 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131115-28515.b\1115009.D

Injection Date:	15-Nov-2013 17:19:30	Instrument ID:	HP31	Operator ID:	HP-31
Lims ID:	490-39837-U-2-A	Lab Sample ID:	490-39837-2	Worklist Smp#:	9
Client ID:	MW-03B-GW-001				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8270HP31	Limit Group:	MSS 8270C ICAL		



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: MW-03B-GW-002 | Lab Sample ID: 490-39837-4

Matrix: Water | Lab File ID: 1115012.D

Analysis Method: 8270C | Date Collected: 11/07/2013 13:19

Extract. Method: 3510C | Date Extracted: 11/14/2013 11:54

Sample wt/vol: 1070(mL) | Date Analyzed: 11/15/2013 18:29

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122300 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		1.87	0.342
208-96-8	Acenaphthylene	ND		1.87	0.308
98-86-2	Acetophenone	ND		9.35	1.78
120-12-7	Anthracene	ND		1.87	0.825
1912-24-9	Atrazine	ND		9.35	3.46
100-52-7	Benzaldehyde	ND		9.35	2.01
56-55-3	Benzo[a]anthracene	ND		1.87	0.303
50-32-8	Benzo[a]pyrene	ND		1.87	0.308
205-99-2	Benzo[b]fluoranthene	ND		1.87	0.394
191-24-2	Benzo[g,h,i]perylene	ND		1.87	0.268
207-08-9	Benzo[k]fluoranthene	ND		1.87	0.340
92-52-4	Biphenyl	ND		9.35	3.11
111-91-1	Bis(2-chloroethoxy)methane	ND		9.35	1.27
111-44-4	Bis(2-chloroethyl)ether	ND		9.35	1.30
108-60-1	bis (2-chloroisopropyl) ether	ND		9.35	1.83
117-81-7	Bis(2-ethylhexyl) phthalate	6.77	J	9.35	1.93
101-55-3	4-Bromophenyl phenyl ether	ND		9.35	1.28
85-68-7	Butyl benzyl phthalate	ND		9.35	1.63
105-60-2	Caprolactam	ND		9.35	3.11
86-74-8	Carbazole	ND		9.35	0.279
106-47-8	4-Chloroaniline	ND		9.35	1.09
59-50-7	4-Chloro-3-methylphenol	ND		9.35	3.11
91-58-7	2-Chloronaphthalene	ND		9.35	1.53
95-57-8	2-Chlorophenol	ND		9.35	1.49
7005-72-3	4-Chlorophenyl phenyl ether	ND		9.35	1.64
218-01-9	Chrysene	ND		1.87	1.02
53-70-3	Dibenz(a,h)anthracene	ND		1.87	0.602
132-64-9	Dibenzofuran	ND		9.35	0.317
91-94-1	3,3'-Dichlorobenzidine	ND		9.35	1.42
120-83-2	2,4-Dichlorophenol	ND		9.35	0.953
84-66-2	Diethyl phthalate	ND		9.35	1.51
105-67-9	2,4-Dimethylphenol	ND		9.35	0.931
131-11-3	Dimethyl phthalate	ND		9.35	1.69
84-74-2	Di-n-butyl phthalate	ND		9.35	1.40

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: MW-03B-GW-002 | Lab Sample ID: 490-39837-4

Matrix: Water | Lab File ID: 1115012.D

Analysis Method: 8270C | Date Collected: 11/07/2013 13:19

Extract. Method: 3510C | Date Extracted: 11/14/2013 11:54

Sample wt/vol: 1070(mL) | Date Analyzed: 11/15/2013 18:29

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122300 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
534-52-1	4,6-Dinitro-2-methylphenol	ND		23.4	1.93
51-28-5	2,4-Dinitrophenol	ND		23.4	2.30
121-14-2	2,4-Dinitrotoluene	ND		9.35	3.11
606-20-2	2,6-Dinitrotoluene	ND		9.35	1.81
117-84-0	Di-n-octyl phthalate	ND		9.35	2.16
206-44-0	Fluoranthene	ND		1.87	0.324
86-73-7	Fluorene	ND		1.87	0.295
118-74-1	Hexachlorobenzene	ND		9.35	1.58
87-68-3	Hexachlorobutadiene	ND		9.35	3.11
77-47-4	Hexachlorocyclopentadiene	ND		9.35	3.11
67-72-1	Hexachloroethane	ND		9.35	3.11
193-39-5	Indeno[1,2,3-cd]pyrene	ND		1.87	0.356
78-59-1	Isophorone	ND		9.35	1.16
91-57-6	2-Methylnaphthalene	ND		1.87	0.291
95-48-7	2-Methylphenol	ND		9.35	3.11
15831-10-4	3 & 4 Methylphenol	ND		9.35	3.11
91-20-3	Naphthalene	ND		1.87	0.372
88-74-4	2-Nitroaniline	ND		23.4	0.972
99-09-2	3-Nitroaniline	ND		23.4	1.73
100-01-6	4-Nitroaniline	ND		23.4	2.23
98-95-3	Nitrobenzene	ND		9.35	1.16
88-75-5	2-Nitrophenol	ND		9.35	1.47
100-02-7	4-Nitrophenol	ND		23.4	3.11
621-64-7	N-Nitrosodi-n-propylamine	ND		9.35	1.33
86-30-6	n-Nitrosodiphenylamine(as diphenylamine)	ND		9.35	1.35
87-86-5	Pentachlorophenol	ND		23.4	1.54
85-01-8	Phenanthrene	ND		1.87	0.321
108-95-2	Phenol	ND		9.35	3.22
129-00-0	Pyrene	ND		1.87	0.309
95-95-4	2,4,5-Trichlorophenol	ND		23.4	1.90
88-06-2	2,4,6-Trichlorophenol	ND		9.35	1.64

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: MW-03B-GW-002 | Lab Sample ID: 490-39837-4

Matrix: Water | Lab File ID: 1115012.D

Analysis Method: 8270C | Date Collected: 11/07/2013 13:19

Extract. Method: 3510C | Date Extracted: 11/14/2013 11:54

Sample wt/vol: 1070(mL) | Date Analyzed: 11/15/2013 18:29

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122300 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	74		29-120
367-12-4	2-Fluorophenol (Surr)	36		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	71		27-120
4165-62-2	Phenol-d5 (Surr)	21		10-120
1718-51-0	Terphenyl-d14 (Surr)	58		13-120
118-79-6	2,4,6-Tribromophenol (Surr)	78		10-120

Report Date: 18-Nov-2013 09:50:59 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\hp31\20131115-28515.b\1115012.D
Lims ID: 490-39837-U-4-A Lab Sample ID: 490-39837-4
Client ID: MW-03B-GW-002
Sample Type: Client
Inject. Date: 15-Nov-2013 18:29:30 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 490-39837-U-4-A
Misc. Info.: 490-0028515-012
Operator ID: HP-31 Instrument ID: HP31

Method: \\Nvlchrom\ChromData\hp31\20131115-28515.b\8270HP31.m
Limit Group: MSS 8270C ICAL
Last Update: 18-Nov-2013 09:50:22 Calib Date: 04-Nov-2013 11:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\hp31\20131103-27806.b\1104019.D

Column 1 : Detector MS SCAN
Process Host: XAWRK006

First Level Reviewer: phelpsk Date: 18-Nov-2013 09:50:58

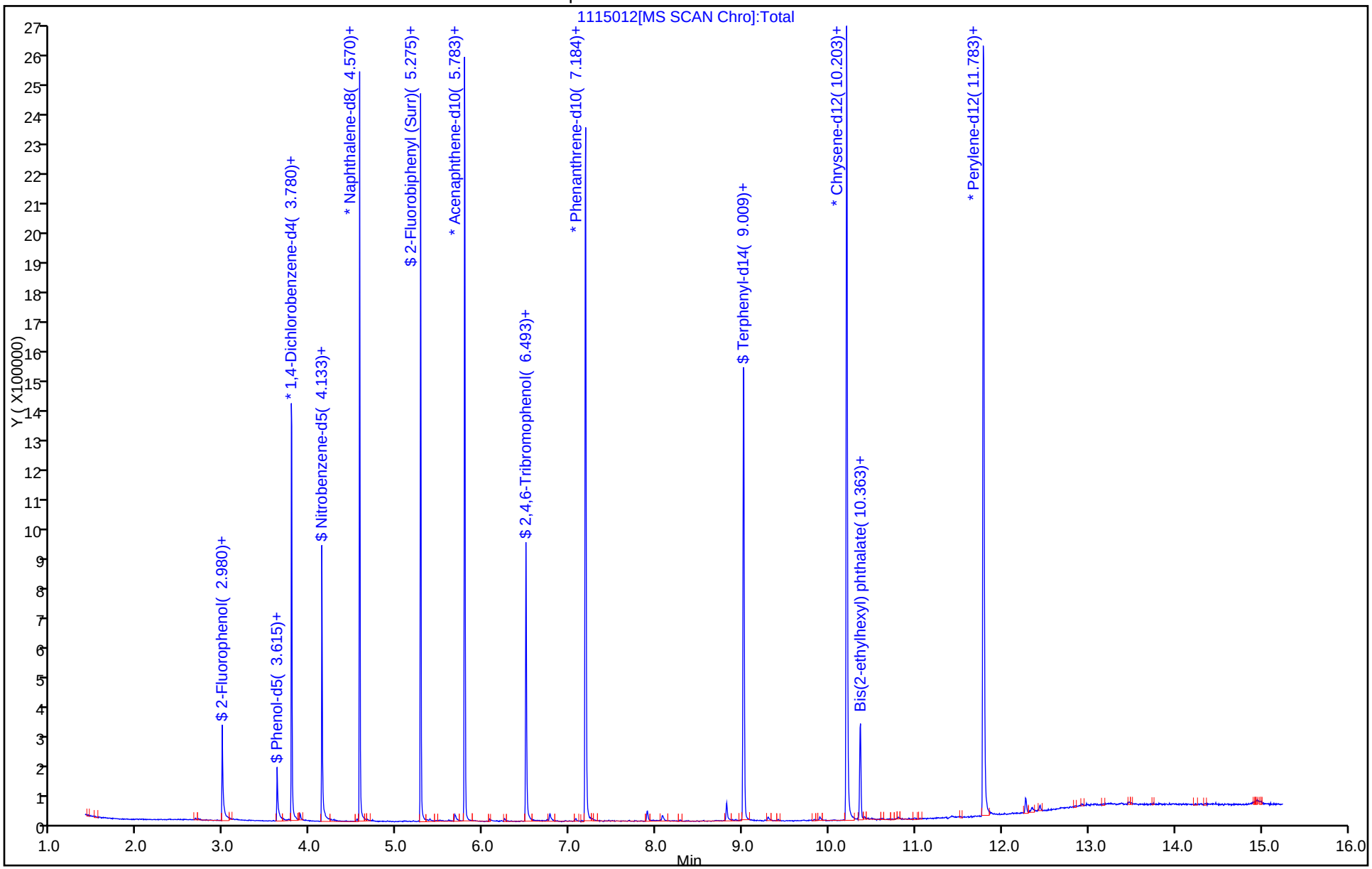
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.785	3.782	0.003	94	187985	40.0	
$ 11 2-Fluorophenol	112	2.980	2.977	0.003	90	100039	18.2	
$ 15 Phenol-d5	99	3.615	3.607	0.008	0	78502	10.6	
* 37 Naphthalene-d8	136	4.570	4.572	-0.002	99	757662	40.0	
$ 46 Nitrobenzene-d5	82	4.133	4.134	-0.002	87	218412	35.3	
* 72 Acenaphthene-d10	164	5.783	5.785	-0.002	88	482296	40.0	
$ 79 2-Fluorobiphenyl (Surr)	172	5.275	5.277	-0.002	99	540658	36.9	
* 106 Phenanthrene-d10	188	7.184	7.186	-0.002	96	876931	40.0	
$ 119 2,4,6-Tribromophenol	330	6.493	6.499	-0.006	91	102051	38.9	
* 140 Chrysene-d12	240	10.203	10.205	-0.002	80	1065051	40.0	
$ 147 Terphenyl-d14	244	9.013	9.015	-0.002	96	586696	28.8	
154 Bis(2-ethylhexyl) phthalate	149	10.363	10.364	-0.001	95	120521	7.24	
* 156 Perylene-d12	264	11.788	11.789	-0.001	87	1122265	40.0	

Report Date: 18-Nov-2013 09:50:59 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131115-28515.b\1115012.D

Injection Date:	15-Nov-2013 18:29:30	Instrument ID:	HP31	Operator ID:	HP-31
Lims ID:	490-39837-U-4-A	Lab Sample ID:	490-39837-4	Worklist Smp#:	12
Client ID:	MW-03B-GW-002				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8270HP31	Limit Group:	MSS 8270C ICAL		



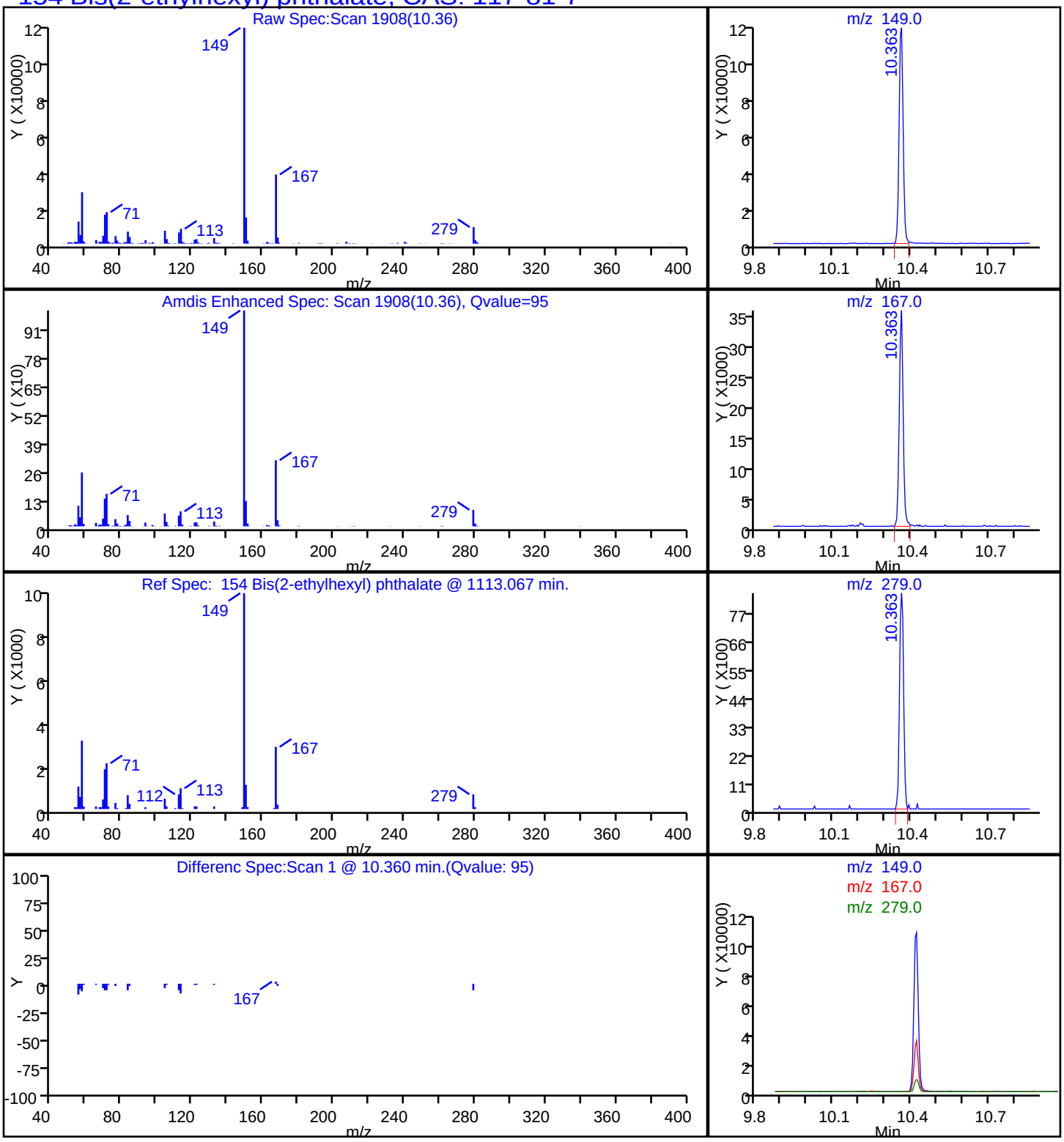
Report Date: 18-Nov-2013 09:50:59 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131115-28515.b\1115012.D

Injection Date:	15-Nov-2013 18:29:30	Instrument ID:	HP31
Lims ID:	490-39837-U-4-A	Lab Sample ID:	490-39837-4
Client ID:	MW-03B-GW-002		
Operator ID:	HP-31	ALS Bottle#:	12 Worklist Smp#: 12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270HP31	Limit Group:	MSS 8270C ICAL
Column:		Detector	MS SCAN

154 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: MW-05-GW-001 | Lab Sample ID: 490-39837-6

Matrix: Water | Lab File ID: 1115013.D

Analysis Method: 8270C | Date Collected: 11/07/2013 16:17

Extract. Method: 3510C | Date Extracted: 11/14/2013 11:54

Sample wt/vol: 1070(mL) | Date Analyzed: 11/15/2013 18:52

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122300 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		1.87	0.342
208-96-8	Acenaphthylene	ND		1.87	0.308
98-86-2	Acetophenone	ND		9.35	1.78
120-12-7	Anthracene	ND		1.87	0.825
1912-24-9	Atrazine	ND		9.35	3.46
100-52-7	Benzaldehyde	ND		9.35	2.01
56-55-3	Benzo[a]anthracene	ND		1.87	0.303
50-32-8	Benzo[a]pyrene	ND		1.87	0.308
205-99-2	Benzo[b]fluoranthene	ND		1.87	0.394
191-24-2	Benzo[g,h,i]perylene	ND		1.87	0.268
207-08-9	Benzo[k]fluoranthene	ND		1.87	0.340
92-52-4	Biphenyl	ND		9.35	3.11
111-91-1	Bis(2-chloroethoxy)methane	ND		9.35	1.27
111-44-4	Bis(2-chloroethyl)ether	ND		9.35	1.30
108-60-1	bis (2-chloroisopropyl) ether	ND		9.35	1.83
117-81-7	Bis(2-ethylhexyl) phthalate	ND		9.35	1.93
101-55-3	4-Bromophenyl phenyl ether	ND		9.35	1.28
85-68-7	Butyl benzyl phthalate	ND		9.35	1.63
105-60-2	Caprolactam	ND		9.35	3.11
86-74-8	Carbazole	ND		9.35	0.279
106-47-8	4-Chloroaniline	ND		9.35	1.09
59-50-7	4-Chloro-3-methylphenol	ND		9.35	3.11
91-58-7	2-Chloronaphthalene	ND		9.35	1.53
95-57-8	2-Chlorophenol	ND		9.35	1.49
7005-72-3	4-Chlorophenyl phenyl ether	ND		9.35	1.64
218-01-9	Chrysene	ND		1.87	1.02
53-70-3	Dibenz(a,h)anthracene	ND		1.87	0.602
132-64-9	Dibenzofuran	ND		9.35	0.317
91-94-1	3,3'-Dichlorobenzidine	ND		9.35	1.42
120-83-2	2,4-Dichlorophenol	ND		9.35	0.953
84-66-2	Diethyl phthalate	ND		9.35	1.51
105-67-9	2,4-Dimethylphenol	ND		9.35	0.931
131-11-3	Dimethyl phthalate	ND		9.35	1.69
84-74-2	Di-n-butyl phthalate	ND		9.35	1.40

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: MW-05-GW-001 | Lab Sample ID: 490-39837-6

Matrix: Water | Lab File ID: 1115013.D

Analysis Method: 8270C | Date Collected: 11/07/2013 16:17

Extract. Method: 3510C | Date Extracted: 11/14/2013 11:54

Sample wt/vol: 1070(mL) | Date Analyzed: 11/15/2013 18:52

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122300 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
534-52-1	4,6-Dinitro-2-methylphenol	ND		23.4	1.93
51-28-5	2,4-Dinitrophenol	ND		23.4	2.30
121-14-2	2,4-Dinitrotoluene	ND		9.35	3.11
606-20-2	2,6-Dinitrotoluene	ND		9.35	1.81
117-84-0	Di-n-octyl phthalate	ND		9.35	2.16
206-44-0	Fluoranthene	ND		1.87	0.324
86-73-7	Fluorene	ND		1.87	0.295
118-74-1	Hexachlorobenzene	ND		9.35	1.58
87-68-3	Hexachlorobutadiene	ND		9.35	3.11
77-47-4	Hexachlorocyclopentadiene	ND		9.35	3.11
67-72-1	Hexachloroethane	ND		9.35	3.11
193-39-5	Indeno[1,2,3-cd]pyrene	ND		1.87	0.356
78-59-1	Isophorone	ND		9.35	1.16
91-57-6	2-Methylnaphthalene	ND		1.87	0.291
95-48-7	2-Methylphenol	ND		9.35	3.11
15831-10-4	3 & 4 Methylphenol	ND		9.35	3.11
91-20-3	Naphthalene	ND		1.87	0.372
88-74-4	2-Nitroaniline	ND		23.4	0.972
99-09-2	3-Nitroaniline	ND		23.4	1.73
100-01-6	4-Nitroaniline	ND		23.4	2.23
98-95-3	Nitrobenzene	ND		9.35	1.16
88-75-5	2-Nitrophenol	ND		9.35	1.47
100-02-7	4-Nitrophenol	ND		23.4	3.11
621-64-7	N-Nitrosodi-n-propylamine	ND		9.35	1.33
86-30-6	n-Nitrosodiphenylamine(as diphenylamine)	ND		9.35	1.35
87-86-5	Pentachlorophenol	ND		23.4	1.54
85-01-8	Phenanthrene	ND		1.87	0.321
108-95-2	Phenol	ND		9.35	3.22
129-00-0	Pyrene	ND		1.87	0.309
95-95-4	2,4,5-Trichlorophenol	ND		23.4	1.90
88-06-2	2,4,6-Trichlorophenol	ND		9.35	1.64

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: MW-05-GW-001 | Lab Sample ID: 490-39837-6

Matrix: Water | Lab File ID: 1115013.D

Analysis Method: 8270C | Date Collected: 11/07/2013 16:17

Extract. Method: 3510C | Date Extracted: 11/14/2013 11:54

Sample wt/vol: 1070(mL) | Date Analyzed: 11/15/2013 18:52

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122300 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	80		29-120
367-12-4	2-Fluorophenol (Surr)	37		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	79		27-120
4165-62-2	Phenol-d5 (Surr)	24		10-120
1718-51-0	Terphenyl-d14 (Surr)	62		13-120
118-79-6	2,4,6-Tribromophenol (Surr)	80		10-120

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\hp31\20131115-28515.b\1115013.D
Lims ID: 490-39837-U-6-A Lab Sample ID: 490-39837-6
Client ID: MW-05-GW-001
Sample Type: Client
Inject. Date: 15-Nov-2013 18:52:30 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 490-39837-U-6-A
Misc. Info.: 490-0028515-013
Operator ID: HP-31 Instrument ID: HP31

Method: \\Nvlchrom\ChromData\hp31\20131115-28515.b\8270HP31.m
Limit Group: MSS 8270C ICAL
Last Update: 18-Nov-2013 09:51:19 Calib Date: 04-Nov-2013 11:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\hp31\20131103-27806.b\1104019.D

Column 1 : Detector MS SCAN
Process Host: XAWRK006

First Level Reviewer: phelpsk Date: 18-Nov-2013 09:51:19

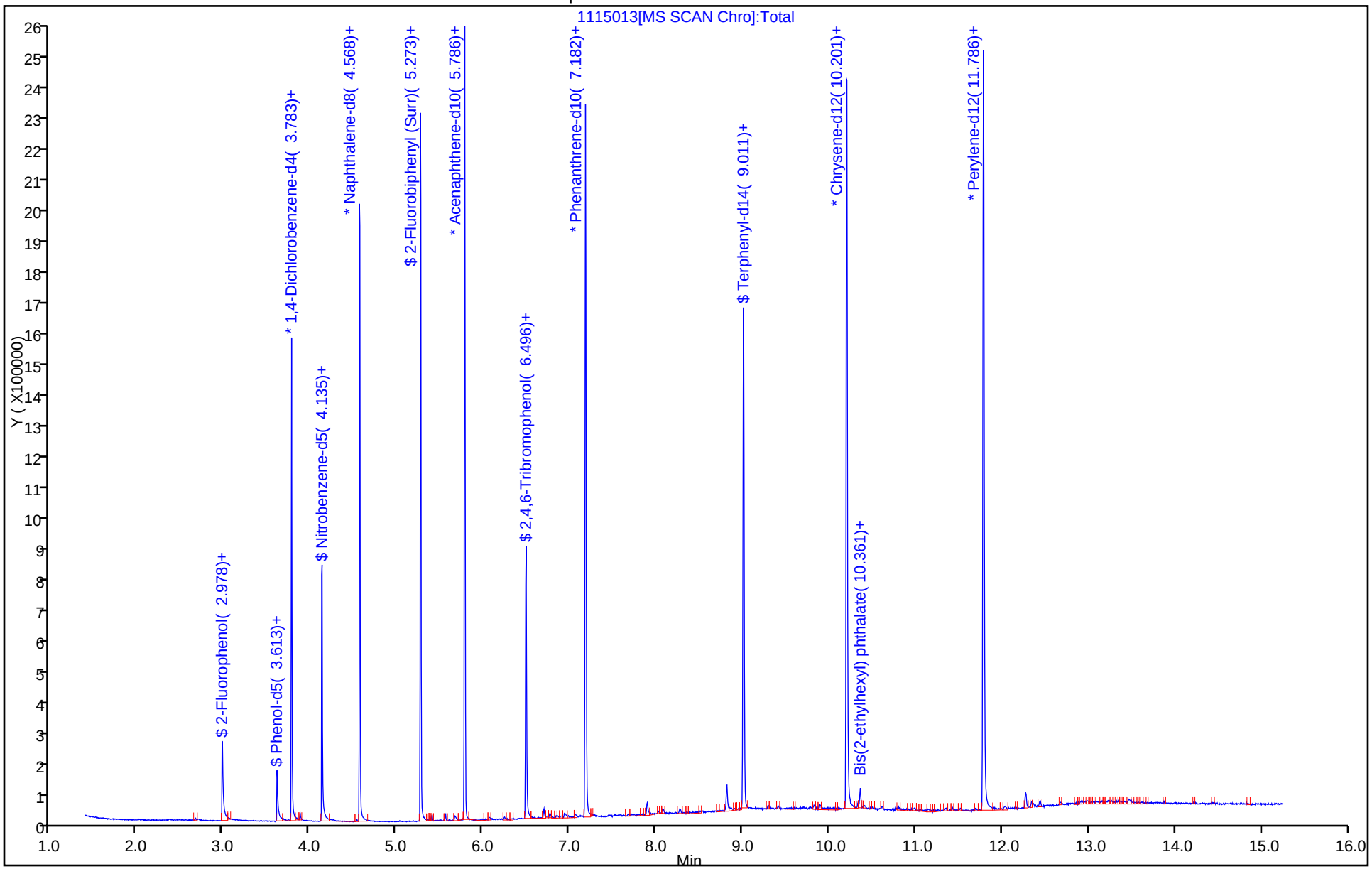
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.783	3.782	0.0	94	173855	40.0	
$ 11 2-Fluorophenol	112	2.983	2.977	0.006	87	95346	18.7	
$ 15 Phenol-d5	99	3.613	3.607	0.006	0	80667	11.8	
* 37 Naphthalene-d8	136	4.568	4.572	-0.004	99	718329	40.0	
$ 46 Nitrobenzene-d5	82	4.135	4.134	0.001	86	231574	39.4	
* 72 Acenaphthene-d10	164	5.786	5.785	0.001	88	459909	40.0	
$ 79 2-Fluorobiphenyl (Surr)	172	5.273	5.277	-0.004	100	557986	40.0	
* 106 Phenanthrene-d10	188	7.182	7.186	-0.004	97	820545	40.0	
$ 119 2,4,6-Tribromophenol	330	6.496	6.499	-0.003	90	97557	39.8	
* 140 Chrysene-d12	240	10.206	10.205	0.001	80	999553	40.0	
$ 147 Terphenyl-d14	244	9.011	9.015	-0.004	96	594102	31.0	
154 Bis(2-ethylhexyl) phthalate	149	10.361	10.364	-0.003	95	23161	2.05	
* 156 Perylene-d12	264	11.786	11.789	-0.003	82	1037101	40.0	

Report Date: 18-Nov-2013 09:51:20 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131115-28515.b\1115013.D

Injection Date:	15-Nov-2013 18:52:30	Instrument ID:	HP31	Operator ID:	HP-31
Lims ID:	490-39837-U-6-A	Lab Sample ID:	490-39837-6	Worklist Smp#:	13
Client ID:	MW-05-GW-001				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8270HP31	Limit Group:	MSS 8270C ICAL		



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: Field Blank | Lab Sample ID: 490-39837-7

Matrix: Water | Lab File ID: 1115014.D

Analysis Method: 8270C | Date Collected: 11/07/2013 09:56

Extract. Method: 3510C | Date Extracted: 11/14/2013 11:54

Sample wt/vol: 1070(mL) | Date Analyzed: 11/15/2013 19:15

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122300 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		1.87	0.342
208-96-8	Acenaphthylene	ND		1.87	0.308
98-86-2	Acetophenone	ND		9.35	1.78
120-12-7	Anthracene	ND		1.87	0.825
1912-24-9	Atrazine	ND		9.35	3.46
100-52-7	Benzaldehyde	ND		9.35	2.01
56-55-3	Benzo[a]anthracene	ND		1.87	0.303
50-32-8	Benzo[a]pyrene	ND		1.87	0.308
205-99-2	Benzo[b]fluoranthene	ND		1.87	0.394
191-24-2	Benzo[g,h,i]perylene	ND		1.87	0.268
207-08-9	Benzo[k]fluoranthene	ND		1.87	0.340
92-52-4	Biphenyl	ND		9.35	3.11
111-91-1	Bis(2-chloroethoxy)methane	ND		9.35	1.27
111-44-4	Bis(2-chloroethyl)ether	ND		9.35	1.30
108-60-1	bis (2-chloroisopropyl) ether	ND		9.35	1.83
117-81-7	Bis(2-ethylhexyl) phthalate	37.3		9.35	1.93
101-55-3	4-Bromophenyl phenyl ether	ND		9.35	1.28
85-68-7	Butyl benzyl phthalate	ND		9.35	1.63
105-60-2	Caprolactam	ND		9.35	3.11
86-74-8	Carbazole	ND		9.35	0.279
106-47-8	4-Chloroaniline	ND		9.35	1.09
59-50-7	4-Chloro-3-methylphenol	ND		9.35	3.11
91-58-7	2-Chloronaphthalene	ND		9.35	1.53
95-57-8	2-Chlorophenol	ND		9.35	1.49
7005-72-3	4-Chlorophenyl phenyl ether	ND		9.35	1.64
218-01-9	Chrysene	ND		1.87	1.02
53-70-3	Dibenz(a,h)anthracene	ND		1.87	0.602
132-64-9	Dibenzofuran	ND		9.35	0.317
91-94-1	3,3'-Dichlorobenzidine	ND		9.35	1.42
120-83-2	2,4-Dichlorophenol	ND		9.35	0.953
84-66-2	Diethyl phthalate	ND		9.35	1.51
105-67-9	2,4-Dimethylphenol	ND		9.35	0.931
131-11-3	Dimethyl phthalate	ND		9.35	1.69
84-74-2	Di-n-butyl phthalate	ND		9.35	1.40

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: Field Blank | Lab Sample ID: 490-39837-7

Matrix: Water | Lab File ID: 1115014.D

Analysis Method: 8270C | Date Collected: 11/07/2013 09:56

Extract. Method: 3510C | Date Extracted: 11/14/2013 11:54

Sample wt/vol: 1070(mL) | Date Analyzed: 11/15/2013 19:15

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122300 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
534-52-1	4,6-Dinitro-2-methylphenol	ND		23.4	1.93
51-28-5	2,4-Dinitrophenol	ND		23.4	2.30
121-14-2	2,4-Dinitrotoluene	ND		9.35	3.11
606-20-2	2,6-Dinitrotoluene	ND		9.35	1.81
117-84-0	Di-n-octyl phthalate	ND		9.35	2.16
206-44-0	Fluoranthene	ND		1.87	0.324
86-73-7	Fluorene	ND		1.87	0.295
118-74-1	Hexachlorobenzene	ND		9.35	1.58
87-68-3	Hexachlorobutadiene	ND		9.35	3.11
77-47-4	Hexachlorocyclopentadiene	ND		9.35	3.11
67-72-1	Hexachloroethane	ND		9.35	3.11
193-39-5	Indeno[1,2,3-cd]pyrene	ND		1.87	0.356
78-59-1	Isophorone	ND		9.35	1.16
91-57-6	2-Methylnaphthalene	ND		1.87	0.291
95-48-7	2-Methylphenol	ND		9.35	3.11
15831-10-4	3 & 4 Methylphenol	ND		9.35	3.11
91-20-3	Naphthalene	ND		1.87	0.372
88-74-4	2-Nitroaniline	ND		23.4	0.972
99-09-2	3-Nitroaniline	ND		23.4	1.73
100-01-6	4-Nitroaniline	ND		23.4	2.23
98-95-3	Nitrobenzene	ND		9.35	1.16
88-75-5	2-Nitrophenol	ND		9.35	1.47
100-02-7	4-Nitrophenol	ND		23.4	3.11
621-64-7	N-Nitrosodi-n-propylamine	ND		9.35	1.33
86-30-6	n-Nitrosodiphenylamine(as diphenylamine)	ND		9.35	1.35
87-86-5	Pentachlorophenol	ND		23.4	1.54
85-01-8	Phenanthrene	ND		1.87	0.321
108-95-2	Phenol	ND		9.35	3.22
129-00-0	Pyrene	ND		1.87	0.309
95-95-4	2,4,5-Trichlorophenol	ND		23.4	1.90
88-06-2	2,4,6-Trichlorophenol	ND		9.35	1.64

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: Field Blank | Lab Sample ID: 490-39837-7

Matrix: Water | Lab File ID: 1115014.D

Analysis Method: 8270C | Date Collected: 11/07/2013 09:56

Extract. Method: 3510C | Date Extracted: 11/14/2013 11:54

Sample wt/vol: 1070(mL) | Date Analyzed: 11/15/2013 19:15

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122300 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	78		29-120
367-12-4	2-Fluorophenol (Surr)	41		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	76		27-120
4165-62-2	Phenol-d5 (Surr)	25		10-120
1718-51-0	Terphenyl-d14 (Surr)	84		13-120
118-79-6	2,4,6-Tribromophenol (Surr)	76		10-120

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\hp31\20131115-28515.b\1115014.D
Lims ID: 490-39837-T-7-A Lab Sample ID: 490-39837-7
Client ID: Field Blank
Sample Type: Client
Inject. Date: 15-Nov-2013 19:15:30 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 490-39837-T-7-A
Misc. Info.: 490-0028515-014
Operator ID: HP-31 Instrument ID: HP31

Method: \\Nvlchrom\ChromData\hp31\20131115-28515.b\8270HP31.m
Limit Group: MSS 8270C ICAL
Last Update: 18-Nov-2013 09:51:40 Calib Date: 04-Nov-2013 11:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\hp31\20131103-27806.b\1104019.D

Column 1 : Detector MS SCAN
Process Host: XAWRK006

First Level Reviewer: phelpsk Date: 18-Nov-2013 09:51:40

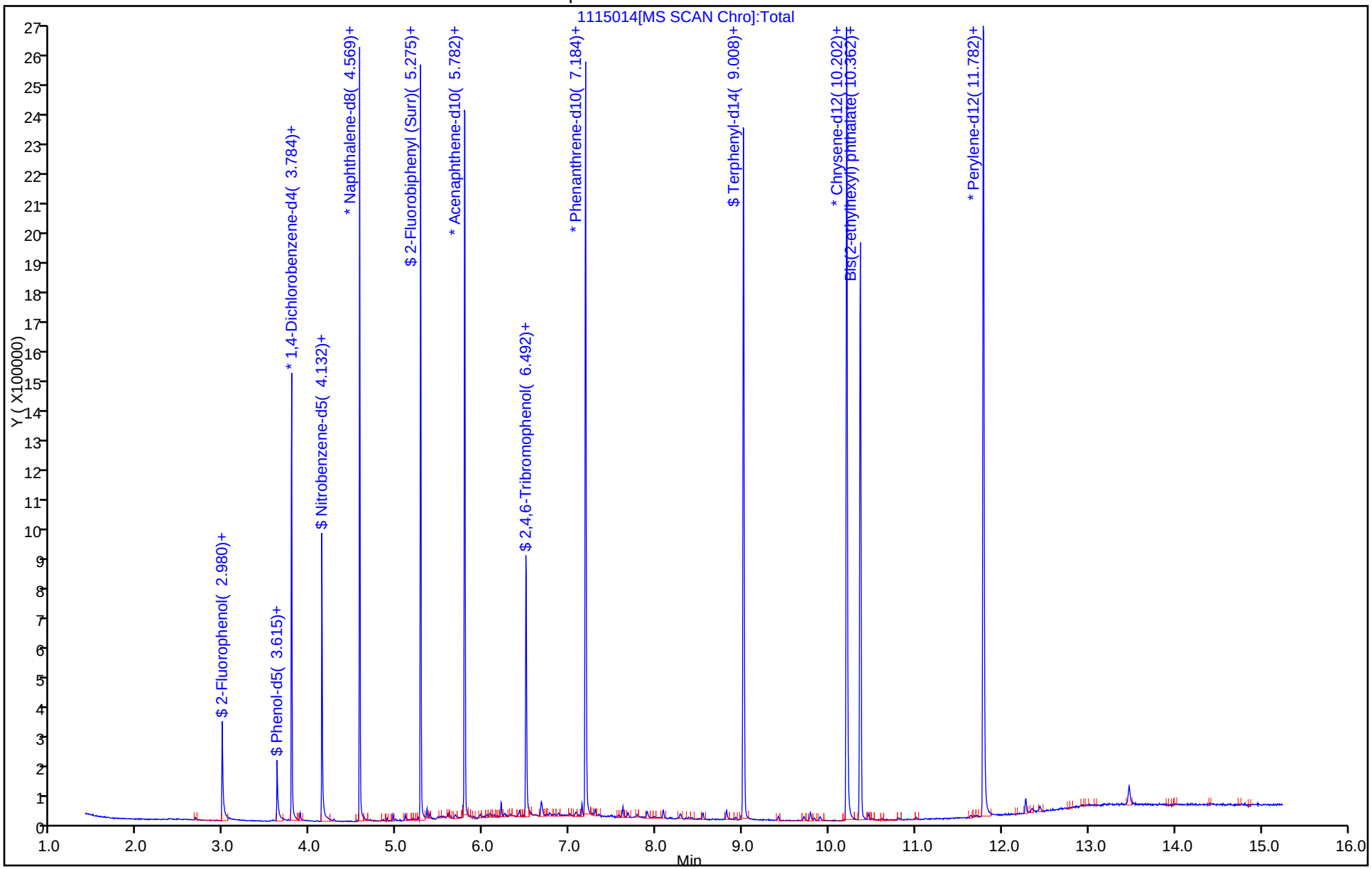
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.784	3.782	0.002	93	187635	40.0	
$ 11 2-Fluorophenol	112	2.980	2.977	0.003	85	111639	20.3	
$ 15 Phenol-d5	99	3.615	3.607	0.008	0	91108	12.3	
* 37 Naphthalene-d8	136	4.569	4.572	-0.003	99	763516	40.0	
$ 46 Nitrobenzene-d5	82	4.132	4.134	-0.002	87	236339	37.9	
* 72 Acenaphthene-d10	164	5.787	5.785	0.002	87	491628	40.0	
$ 79 2-Fluorobiphenyl (Surr)	172	5.275	5.277	-0.002	99	580624	38.9	
* 106 Phenanthrene-d10	188	7.184	7.186	-0.002	96	879163	40.0	
$ 119 2,4,6-Tribromophenol	330	6.497	6.499	-0.002	91	99736	38.0	
* 140 Chrysene-d12	240	10.202	10.205	-0.003	80	1074886	40.0	
$ 147 Terphenyl-d14	244	9.008	9.015	-0.007	94	864090	42.0	
154 Bis(2-ethylhexyl) phthalate	149	10.362	10.364	-0.002	94	729605	39.9	
* 156 Perylene-d12	264	11.787	11.789	-0.002	83	1143048	40.0	

Report Date: 18-Nov-2013 09:51:41 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131115-28515.b\1115014.D

Injection Date:	15-Nov-2013 19:15:30	Instrument ID:	HP31	Operator ID:	HP-31
Lims ID:	490-39837-T-7-A	Lab Sample ID:	490-39837-7	Worklist Smp#:	14
Client ID:	Field Blank				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8270HP31	Limit Group:	MSS 8270C ICAL		



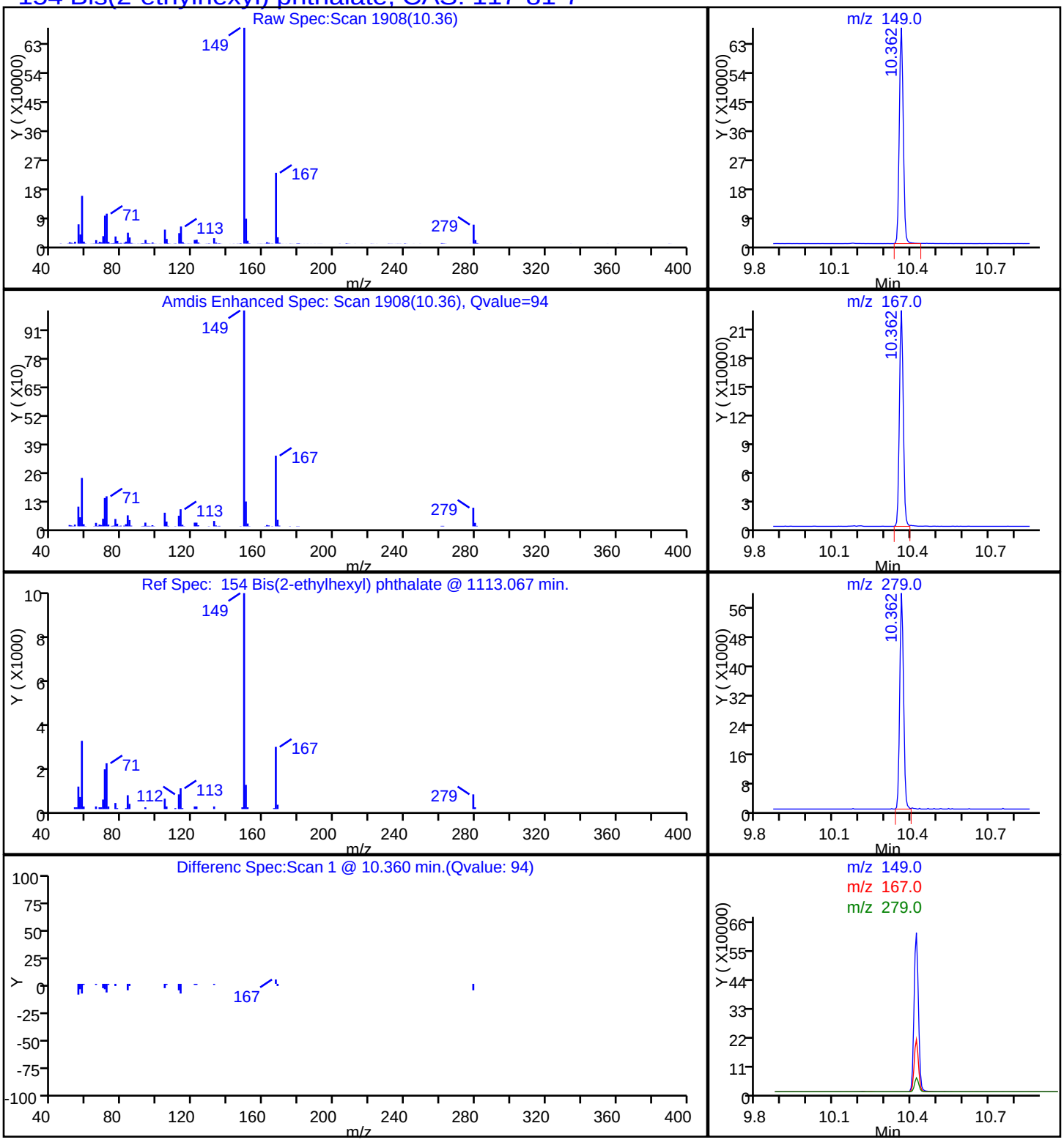
Report Date: 18-Nov-2013 09:51:41 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131115-28515.b\1115014.D

Injection Date:	15-Nov-2013 19:15:30	Instrument ID:	HP31		
Lims ID:	490-39837-T-7-A	Lab Sample ID:	490-39837-7		
Client ID:	Field Blank				
Operator ID:	HP-31	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270HP31	Limit Group:	MSS 8270C ICAL		
Column:		Detector	MS SCAN		

154 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: Equipment Blank | Lab Sample ID: 490-39837-9

Matrix: Water | Lab File ID: 1115015.D

Analysis Method: 8270C | Date Collected: 11/07/2013 10:38

Extract. Method: 3510C | Date Extracted: 11/14/2013 11:54

Sample wt/vol: 1070(mL) | Date Analyzed: 11/15/2013 19:38

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122300 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		1.87	0.342
208-96-8	Acenaphthylene	ND		1.87	0.308
98-86-2	Acetophenone	ND		9.35	1.78
120-12-7	Anthracene	ND		1.87	0.825
1912-24-9	Atrazine	ND		9.35	3.46
100-52-7	Benzaldehyde	ND		9.35	2.01
56-55-3	Benzo[a]anthracene	ND		1.87	0.303
50-32-8	Benzo[a]pyrene	ND		1.87	0.308
205-99-2	Benzo[b]fluoranthene	ND		1.87	0.394
191-24-2	Benzo[g,h,i]perylene	ND		1.87	0.268
207-08-9	Benzo[k]fluoranthene	ND		1.87	0.340
92-52-4	Biphenyl	ND		9.35	3.11
111-91-1	Bis(2-chloroethoxy)methane	ND		9.35	1.27
111-44-4	Bis(2-chloroethyl)ether	ND		9.35	1.30
108-60-1	bis (2-chloroisopropyl) ether	ND		9.35	1.83
117-81-7	Bis(2-ethylhexyl) phthalate	ND		9.35	1.93
101-55-3	4-Bromophenyl phenyl ether	ND		9.35	1.28
85-68-7	Butyl benzyl phthalate	ND		9.35	1.63
105-60-2	Caprolactam	ND		9.35	3.11
86-74-8	Carbazole	ND		9.35	0.279
106-47-8	4-Chloroaniline	ND		9.35	1.09
59-50-7	4-Chloro-3-methylphenol	ND		9.35	3.11
91-58-7	2-Chloronaphthalene	ND		9.35	1.53
95-57-8	2-Chlorophenol	ND		9.35	1.49
7005-72-3	4-Chlorophenyl phenyl ether	ND		9.35	1.64
218-01-9	Chrysene	ND		1.87	1.02
53-70-3	Dibenz(a,h)anthracene	ND		1.87	0.602
132-64-9	Dibenzofuran	ND		9.35	0.317
91-94-1	3,3'-Dichlorobenzidine	ND		9.35	1.42
120-83-2	2,4-Dichlorophenol	ND		9.35	0.953
84-66-2	Diethyl phthalate	ND		9.35	1.51
105-67-9	2,4-Dimethylphenol	ND		9.35	0.931
131-11-3	Dimethyl phthalate	ND		9.35	1.69
84-74-2	Di-n-butyl phthalate	ND		9.35	1.40

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: Equipment Blank | Lab Sample ID: 490-39837-9

Matrix: Water | Lab File ID: 1115015.D

Analysis Method: 8270C | Date Collected: 11/07/2013 10:38

Extract. Method: 3510C | Date Extracted: 11/14/2013 11:54

Sample wt/vol: 1070(mL) | Date Analyzed: 11/15/2013 19:38

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122300 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
534-52-1	4,6-Dinitro-2-methylphenol	ND		23.4	1.93
51-28-5	2,4-Dinitrophenol	ND		23.4	2.30
121-14-2	2,4-Dinitrotoluene	ND		9.35	3.11
606-20-2	2,6-Dinitrotoluene	ND		9.35	1.81
117-84-0	Di-n-octyl phthalate	ND		9.35	2.16
206-44-0	Fluoranthene	ND		1.87	0.324
86-73-7	Fluorene	ND		1.87	0.295
118-74-1	Hexachlorobenzene	ND		9.35	1.58
87-68-3	Hexachlorobutadiene	ND		9.35	3.11
77-47-4	Hexachlorocyclopentadiene	ND		9.35	3.11
67-72-1	Hexachloroethane	ND		9.35	3.11
193-39-5	Indeno[1,2,3-cd]pyrene	ND		1.87	0.356
78-59-1	Isophorone	ND		9.35	1.16
91-57-6	2-Methylnaphthalene	ND		1.87	0.291
95-48-7	2-Methylphenol	ND		9.35	3.11
15831-10-4	3 & 4 Methylphenol	ND		9.35	3.11
91-20-3	Naphthalene	ND		1.87	0.372
88-74-4	2-Nitroaniline	ND		23.4	0.972
99-09-2	3-Nitroaniline	ND		23.4	1.73
100-01-6	4-Nitroaniline	ND		23.4	2.23
98-95-3	Nitrobenzene	ND		9.35	1.16
88-75-5	2-Nitrophenol	ND		9.35	1.47
100-02-7	4-Nitrophenol	ND		23.4	3.11
621-64-7	N-Nitrosodi-n-propylamine	ND		9.35	1.33
86-30-6	n-Nitrosodiphenylamine(as diphenylamine)	ND		9.35	1.35
87-86-5	Pentachlorophenol	ND		23.4	1.54
85-01-8	Phenanthrene	ND		1.87	0.321
108-95-2	Phenol	ND		9.35	3.22
129-00-0	Pyrene	ND		1.87	0.309
95-95-4	2,4,5-Trichlorophenol	ND		23.4	1.90
88-06-2	2,4,6-Trichlorophenol	ND		9.35	1.64

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: Equipment Blank | Lab Sample ID: 490-39837-9

Matrix: Water | Lab File ID: 1115015.D

Analysis Method: 8270C | Date Collected: 11/07/2013 10:38

Extract. Method: 3510C | Date Extracted: 11/14/2013 11:54

Sample wt/vol: 1070(mL) | Date Analyzed: 11/15/2013 19:38

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122300 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	77		29-120
367-12-4	2-Fluorophenol (Surr)	36		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	77		27-120
4165-62-2	Phenol-d5 (Surr)	23		10-120
1718-51-0	Terphenyl-d14 (Surr)	83		13-120
118-79-6	2,4,6-Tribromophenol (Surr)	73		10-120

Report Date: 18-Nov-2013 09:52:12 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\hp31\20131115-28515.b\1115015.D
Lims ID: 490-39837-U-9-A Lab Sample ID: 490-39837-9
Client ID: Equipment Blank
Sample Type: Client
Inject. Date: 15-Nov-2013 19:38:30 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 490-39837-U-9-A
Misc. Info.: 490-0028515-015
Operator ID: HP-31 Instrument ID: HP31

Method: \\Nvlchrom\ChromData\hp31\20131115-28515.b\8270HP31.m
Limit Group: MSS 8270C ICAL
Last Update: 18-Nov-2013 09:51:40 Calib Date: 04-Nov-2013 11:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\hp31\20131103-27806.b\1104019.D

Column 1 : Detector MS SCAN
Process Host: XAWRK006

First Level Reviewer: phelpsk Date: 18-Nov-2013 09:52:11

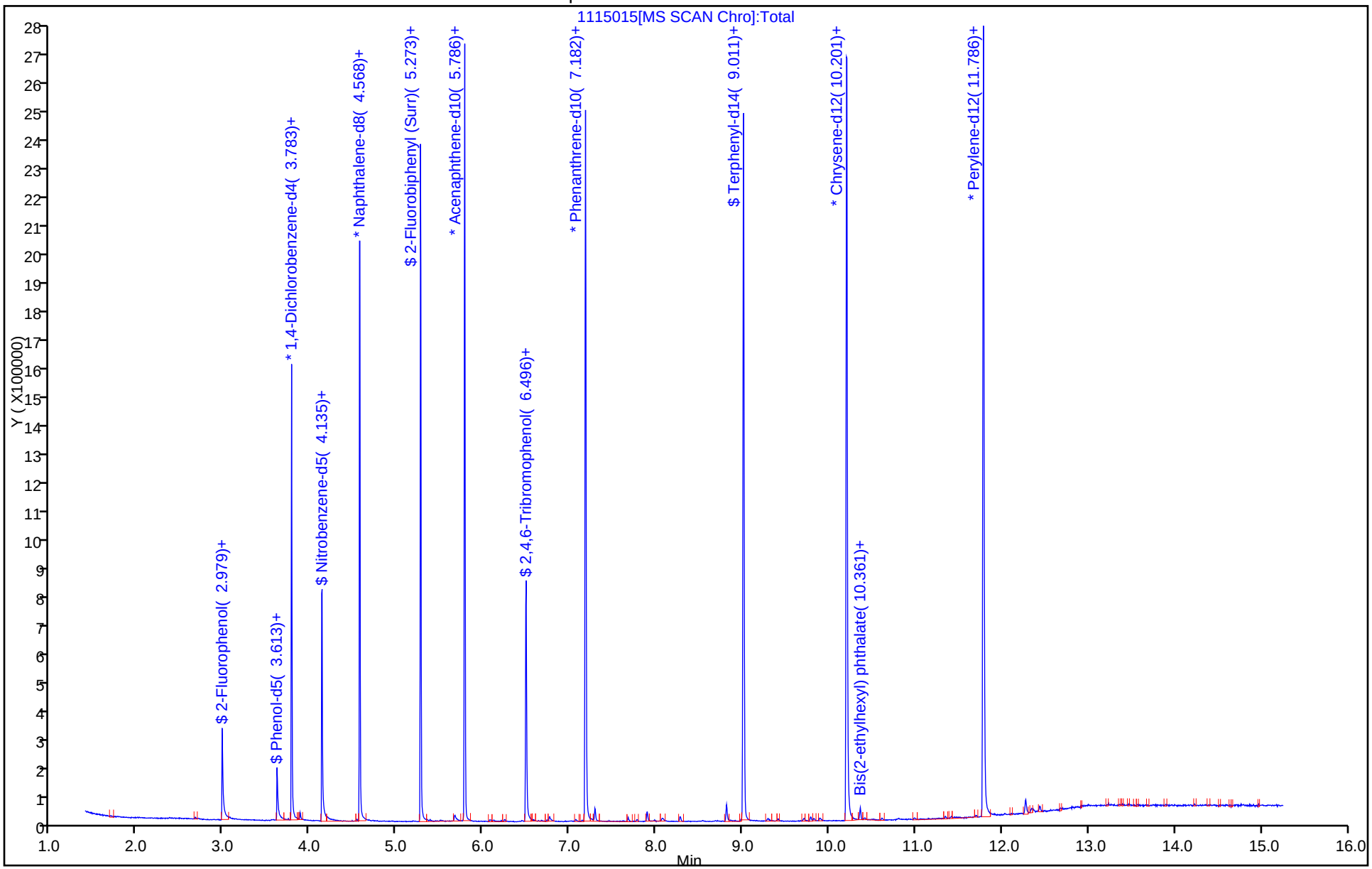
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.783	3.782	0.001	94	187308	40.0	
$ 11 2-Fluorophenol	112	2.979	2.977	0.002	89	98625	18.0	
$ 15 Phenol-d5	99	3.613	3.607	0.006	0	85679	11.6	
* 37 Naphthalene-d8	136	4.573	4.572	0.001	99	733083	40.0	
$ 46 Nitrobenzene-d5	82	4.131	4.134	-0.003	89	231792	38.7	
* 72 Acenaphthene-d10	164	5.786	5.785	0.001	88	489861	40.0	
$ 79 2-Fluorobiphenyl (Surr)	172	5.273	5.277	-0.004	99	574217	38.6	
* 106 Phenanthrene-d10	188	7.182	7.186	-0.004	96	899365	40.0	
$ 119 2,4,6-Tribromophenol	330	6.496	6.499	-0.003	90	98083	36.5	
* 140 Chrysene-d12	240	10.206	10.205	0.001	80	1101118	40.0	
$ 147 Terphenyl-d14	244	9.011	9.015	-0.004	95	876386	41.6	
154 Bis(2-ethylhexyl) phthalate	149	10.361	10.364	-0.003	96	14012	1.45	
* 156 Perylene-d12	264	11.786	11.789	-0.003	82	1137900	40.0	

Report Date: 18-Nov-2013 09:52:12 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131115-28515.b\1115015.D

Injection Date:	15-Nov-2013 19:38:30	Instrument ID:	HP31	Operator ID:	HP-31
Lims ID:	490-39837-U-9-A	Lab Sample ID:	490-39837-9	Worklist Smp#:	15
Client ID:	Equipment Blank				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8270HP31	Limit Group:	MSS 8270C ICAL		



FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39837-2 Analy Batch No.: 116166

SDG No.:

Instrument ID: HP31 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/22/2013 17:06 Calibration End Date: 10/22/2013 19:23 Calibration ID: 19839

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 490-116166/3	1022003.D
Level 2	STD 490-116166/6	1022004.D
Level 3	STD 490-116166/7	1022005.D
Level 4	STD 490-116166/8	1022006.D
Level 5	ICIS 490-116166/9	1022007.D
Level 6	STD 490-116166/10	1022008.D
Level 7	STD 490-116166/11	1022009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.4648 0.4935	0.4780 0.4868	0.4732	0.4350	0.5029	Ave		0.4763				4.7		15.0			
N-Nitrosodimethylamine	0.5535 0.7226	0.6385 0.7292	0.5550	0.5995	0.6847	Ave		0.6404				12.0		15.0			
Pyridine	0.6735 0.8409	0.7431 0.8542	0.7525	0.7062	0.8551	Ave		0.7751				9.7		15.0			
Benzaldehyde	0.4358 0.5948	0.5564 0.5770	0.5006	0.5628	0.6155	Ave		0.5490				11.0		15.0			
Aniline	1.4250 2.0256	1.8207 1.9538	1.8498	1.9066	2.0899	Ave		1.8674				12.0		15.0			
Phenol	1.6072 1.7410	1.5899 1.6069	1.6080	1.6645	1.8109	Ave		1.6612				5.1		15.0			
Bis(2-chloroethyl)ether	1.2755 1.2086	1.2358 1.1762	1.2042	1.1907	1.2459	Ave		1.2196				2.8		15.0			
2-Chlorophenol	1.1943 1.4320	1.4162 1.3979	1.3790	1.3936	1.5021	Ave		1.3879				6.8		15.0			
n-Decane	1.1773 1.0721	1.1758 1.0472	1.1026	1.0700	1.1582	Ave		1.1148				4.9		15.0			
1,3-Dichlorobenzene	1.4090 1.4976	1.6006 1.4592	1.5621	1.5262	1.5762	Ave		1.5187				4.5		15.0			
1,4-Dichlorobenzene	1.5075 1.4889	1.5867 1.4371	1.5560	1.5292	1.5696	Ave		1.5250				3.4		15.0			
Benzyl alcohol	0.9791	0.8232 0.9399	0.8518	0.9273	1.0210	Ave		0.9237				8.1		15.0			
1,2-Dichlorobenzene	1.4563 1.4412	1.5399 1.4014	1.4979	1.5057	1.5024	Ave		1.4778				3.2		15.0			
Indene	2.2375 2.2019	2.4510 2.1029	2.3378	2.2912	2.3728	Ave		2.2850				5.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39837-2 Analy Batch No.: 116166

SDG No.:

Instrument ID: HP31 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/22/2013 17:06 Calibration End Date: 10/22/2013 19:23 Calibration ID: 19839

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
bis (2-chloroisopropyl) ether	0.4487 0.4790	0.5202 0.4745	0.4631	0.4778	0.4988	Ave		0.4803				4.9		15.0			
2-Methylphenol	1.0641 1.3052	1.2911 1.2613	1.2598	1.2502	1.3528	Ave		1.2549				7.3		15.0			
Acetophenone	1.5406 1.8248	1.7714 1.7619	1.8180	1.8081	1.9209	Ave		1.7779				6.6		15.0			
N-Nitrosodi-n-propylamine	0.8060 0.9165	0.8800 0.8696	0.8756	0.8769	0.9598	Ave		0.8835			0.0500	5.3		15.0			
3 & 4 Methylphenol	1.1205 1.4070	1.2749 1.3665	1.3556	1.3403	1.4745	Ave		1.3342				8.4		15.0			
Hexachloroethane	0.4880 0.5129	0.5361 0.5004	0.5113	0.4978	0.5325	Ave		0.5113				3.5		15.0			
Nitrobenzene	0.2857 0.3251	0.3233 0.3163	0.3065	0.3100	0.3371	Ave		0.3148				5.2		15.0			
Isophorone	0.5364 0.6116	0.6355 0.5911	0.5950	0.5992	0.6497	Ave		0.6026				6.0		15.0			
2-Nitrophenol	0.1569 0.2193	0.1933 0.2154	0.1948	0.2049	0.2212	Ave		0.2008				11.0		15.0			
2,4-Dimethylphenol	0.3034 0.3364	0.3430 0.3273	0.3357	0.3424	0.3558	Ave		0.3349				4.9		15.0			
Bis(2-chloroethoxy)methane	0.3502 0.3663	0.3821 0.3471	0.3486	0.3517	0.3793	Ave		0.3607				4.2		15.0			
Benzoic acid	0.3263	0.1913 0.3200	0.2197	0.2552	0.3121	Lin2	-0.719	0.3178							0.9930		0.9900
2,4-Dichlorophenol	0.2464 0.3149	0.3045 0.3082	0.3040	0.3151	0.3239	Ave		0.3024				8.5		15.0			
1,2,4-Trichlorobenzene	0.2947 0.3047	0.3283 0.2984	0.3182	0.3078	0.3169	Ave		0.3099				3.8		15.0			
Naphthalene	1.0301 0.9401	1.1288 0.8938	1.0566	1.0271	1.0381	Ave		1.0164				7.6		15.0			
4-Chloroaniline	0.3619 0.4835	0.4562 0.4721	0.4817	0.4921	0.5172	Ave		0.4664				11.0		15.0			
Hexachlorobutadiene	0.1472 0.1595	0.1834 0.1567	0.1678	0.1638	0.1672	Ave		0.1637				6.9		15.0			
Caprolactam	0.1669	0.1424 0.1615	0.1358	0.1489	0.1654	Ave		0.1535				8.5		15.0			
4-Chloro-3-methylphenol	0.2647 0.3344	0.3154 0.3246	0.3177	0.3261	0.3475	Ave		0.3186				8.2		15.0			
2-Methylnaphthalene	0.6926 0.7371	0.8268 0.7041	0.7920	0.7715	0.7887	Ave		0.7590				6.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39837-2 Analy Batch No.: 116166

SDG No.:

Instrument ID: HP31 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/22/2013 17:06 Calibration End Date: 10/22/2013 19:23 Calibration ID: 19839

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1-Methylnaphthalene	0.6712 0.6983	0.7821 0.6658	0.7422	0.7249	0.7387	Ave		0.7176				5.8		15.0			
Hexachlorocyclopentadiene	 0.2017	 0.2082	0.0830	0.1211	0.1774	Lin2	-1.387	0.2116			0.0500				0.9920		0.9900
1,2,4,5-Tetrachlorobenzene	0.2925 0.3165	0.3489 0.3088	0.3341	0.3257	0.3280	Ave		0.3221				5.7		15.0			
2,4,6-Trichlorophenol	0.2743 0.3577	0.3314 0.3503	0.3365	0.3408	0.3648	Ave		0.3366				8.9		15.0			
2,4,5-Trichlorophenol	0.2761 0.3901	0.3620 0.3818	0.3536	0.3675	0.3828	Ave		0.3591				11.0		15.0			
Biphenyl	0.8497 0.8795	0.9891 0.8269	0.9615	0.9488	0.9430	Ave		0.9141				6.8		15.0			
2-Chloronaphthalene	1.0089 1.0023	1.0820 0.9628	1.0503	1.0512	1.0478	Ave		1.0293				3.9		15.0			
2-Nitroaniline	0.2290 0.3235	0.2416 0.3119	0.2587	0.2885	0.3236	Lin2	-0.186	0.3062							0.9930		0.9900
Dimethyl phthalate	1.1865 1.2627	1.3543 1.2165	1.3361	1.3156	1.3275	Ave		1.2856				5.0		15.0			
1,3-Dinitrobenzene	 0.2787	 0.2743	0.2198	0.2417	0.2744	Ave		0.2578				10.0		15.0			
2,6-Dinitrotoluene	0.2436 0.3435	0.3050 0.3342	0.3049	0.3164	0.3445	Ave		0.3132				11.0		15.0			
Acenaphthylene	1.5966 1.6701	1.8545 1.6047	1.8090	1.8035	1.7893	Ave		1.7325				6.1		15.0			
3-Nitroaniline	0.2581 0.4296	0.3385 0.4248	0.3577	0.3828	0.4187	Lin2	-0.333	0.4154							0.9980		0.9900
Acenaphthene	1.0942 1.0797	1.2110 1.0365	1.1613	1.1438	1.1427	Ave		1.1242				5.2		15.0			
2,4-Dinitrophenol	 0.2508	0.1469 0.2478	0.1662	0.1870	0.2326	Lin2	-1.087	0.2408			0.0500				0.9900		0.9900
Dibenzofuran	1.5314 1.5387	1.7222 1.4621	1.6694	1.6352	1.6385	Ave		1.5996				5.7		15.0			
2,4-Dinitrotoluene	 0.4633	0.4192 0.4493	0.4277	0.4349	0.4700	Ave		0.4441				4.6		15.0			
4-Nitrophenol	0.1267 0.2673	0.2344 0.2572	0.2163	0.2331	0.2654	Lin2	-0.521	0.2618			0.0500				0.9950		0.9900
2,3,4,6-Tetrachlorophenol	0.2543 0.3429	0.3118 0.3304	0.3095	0.3200	0.3382	Ave		0.3153				9.4		15.0			
Diethyl phthalate	1.1226 1.2824	1.3560 1.2306	1.2981	1.2727	1.3517	Ave		1.2735				6.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39837-2 Analy Batch No.: 116166

SDG No.:

Instrument ID: HP31 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/22/2013 17:06 Calibration End Date: 10/22/2013 19:23 Calibration ID: 19839

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Hexadecane	0.5296 0.5666	0.5773 0.5485	0.5693	0.5520	0.6072	Ave		0.5644				4.4		15.0			
Fluorene	1.2676 1.2902	1.4370 1.2474	1.4130	1.3679	1.3678	Ave		1.3416				5.5		15.0			
4-Chlorophenyl phenyl ether	0.5797 0.6098	0.6535 0.5933	0.6232	0.6162	0.6222	Ave		0.6140				3.8		15.0			
4-Nitroaniline	0.2433 0.4462	0.3549 0.4328	0.3560	0.3938	0.4375	Lin2	-0.386	0.4299							0.9970		0.9900
4,6-Dinitro-2-methylphenol	0.0827 0.1725	0.1284 0.1693	0.1425	0.1491	0.1716	Lin2	-0.354	0.1677							0.9980		0.9900
n-Nitrosodiphenylamine(as diphenylamine)	0.4210 0.4584	0.4922 0.4527	0.4705	0.4704	0.4873	Ave		0.4646				5.1		15.0			
1,2-Diphenylhydrazine (as Azobenzene)	0.9936 1.0892	1.0833 1.0481	1.0798	1.0654	1.1506	Ave		1.0729				4.4		15.0			
4-Bromophenyl phenyl ether	0.1795 0.2099	0.2052 0.2062	0.1991	0.2045	0.2162	Ave		0.2029				5.7		15.0			
Hexachlorobenzene	0.2186 0.2309	0.2440 0.2289	0.2354	0.2300	0.2411	Ave		0.2327				3.6		15.0			
Atrazine	0.1660 0.2177	0.2066 0.2161	0.2144	0.2142	0.2282	Ave		0.2090				9.6		15.0			
Pentachlorophenol	0.0797 0.1465	0.1180 0.1475	0.1240	0.1312	0.1478	Lin2	-0.268	0.1449							0.9980		0.9900
n-Octadecane	0.2979 0.3403	0.3238 0.3339	0.3206	0.3214	0.3645	Ave		0.3289				6.3		15.0			
Phenanthrene	1.0364 1.0023	1.1889 0.9603	1.1048	1.0809	1.0775	Ave		1.0644				7.0		15.0			
Anthracene	1.0185 1.0166	1.1980 0.9934	1.1111	1.1159	1.1255	Ave		1.0827				6.9		15.0			
Carbazole	0.9960 1.0775	1.2130 1.0540	1.1589	1.1291	1.1622	Ave		1.1130				6.7		15.0			
Di-n-butyl phthalate	0.9998 1.1892	1.2113 1.1426	1.2037	1.2017	1.2889	Ave		1.1768				7.6		15.0			
Fluoranthene	1.0658 1.1814	1.3040 1.1535	1.2596	1.2468	1.2582	Ave		1.2099				6.7		15.0			
Benzidine	0.3058 0.3623	0.3003 0.3459	0.3303	0.3449	0.3745	Lin2	-0.120	0.3530							0.9970		0.9900
Pyrene	0.9372 1.0171	1.1053 0.9924	1.0865	1.0697	1.1174	Ave		1.0465				6.3		15.0			
Butyl benzyl phthalate	0.3409 0.5360	0.4402 0.5299	0.4552	0.4726	0.5478	Lin2	-0.386	0.5238							0.9970		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39837-2 Analy Batch No.: 116166

SDG No.:

Instrument ID: HP31 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/22/2013 17:06 Calibration End Date: 10/22/2013 19:23 Calibration ID: 19839

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[a]anthracene	0.9542 1.0425	1.0889 1.0078	1.0574	1.0368	1.0830	Ave		1.0387				4.5		15.0			
3,3'-Dichlorobenzidine	0.3038 0.4166	0.3808 0.4093	0.3825	0.3852	0.4217	Ave		0.3857				10.0		15.0			
Chrysene	0.9584 0.9439	1.0902 0.9300	1.0407	1.0041	0.9978	Ave		0.9950				5.7		15.0			
Bis(2-ethylhexyl) phthalate	0.4479 0.6913	0.6023 0.6781	0.6188	0.6473	0.7252	Lin2	-0.495	0.6933							0.9990		0.9900
Di-n-octyl phthalate	0.8294 1.2149	1.0002 1.1742	1.0089	1.0619	1.2547	Lin2	-0.745	1.1728							0.9960		0.9900
Benzo[b]fluoranthene	0.9221 1.1361	1.1075 1.0689	1.0853	1.0763	1.1622	Ave		1.0798				7.1		15.0			
Benzo[k]fluoranthene	1.0287 1.1037	1.2017 1.0868	1.1393	1.1494	1.1521	Ave		1.1231				5.0		15.0			
Benzo[a]pyrene	0.8704 1.0570	1.0546 1.0222	1.0428	1.0393	1.0890	Ave		1.0250				6.9		15.0			
Indeno[1,2,3-cd]pyrene	1.1003 1.2933	1.3301 1.2603	1.2945	1.2801	1.3261	Ave		1.2692				6.2		15.0			
Dibenz(a,h)anthracene	0.9515 1.0757	1.1367 1.0359	1.0949	1.0760	1.1109	Ave		1.0688				5.7		15.0			
Benzo[g,h,i]perylene	0.9847 1.0683	1.1233 1.0208	1.0918	1.0751	1.1060	Ave		1.0671				4.6		15.0			
2-Fluorophenol (Surr)	0.9791 1.2853	1.0992 1.2610	1.1247	1.1511	1.2935	Ave		1.1706				9.9		15.0			
Phenol-d5 (Surr)	1.3475 1.6677	1.5602 1.6048	1.5271	1.6004	1.7262	Ave		1.5763				7.6		15.0			
Nitrobenzene-d5 (Surr)	0.2993 0.3445	0.3135 0.3321	0.3240	0.3258	0.3497	Ave		0.3270				5.3		15.0			
2-Fluorobiphenyl (Surr)	1.1720 1.1443	1.3263 1.0995	1.2942	1.2358	1.2265	Ave		1.2141				6.7		15.0			
2,4,6-Tribromophenol (Surr)	 0.1259	0.1142 0.1248	0.1124	0.1137	0.1260	Ave		0.1195				5.6		15.0			
Terphenyl-d14 (Surr)	0.6695 0.7770	0.7921 0.7642	0.7673	0.7720	0.8190	Ave		0.7659				6.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39837-2 Analy Batch No.: 116166

SDG No.:

Instrument ID: HP31 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/22/2013 17:06 Calibration End Date: 10/22/2013 19:23 Calibration ID: 19839

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 490-116166/3	1022003.D
Level 2	STD 490-116166/6	1022004.D
Level 3	STD 490-116166/7	1022005.D
Level 4	STD 490-116166/8	1022006.D
Level 5	ICIS 490-116166/9	1022007.D
Level 6	STD 490-116166/10	1022008.D
Level 7	STD 490-116166/11	1022009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dioxane	DCB	Ave	3760 160331	10408 194578	19890	36936	98190	2.00 80.0	5.00 100	10.0	20.0	50.0
N-Nitrosodimethylamine	DCB	Ave	4478 234786	13902 291499	23328	50895	133700	2.00 80.0	5.00 100	10.0	20.0	50.0
Pyridine	DCB	Ave	5449 273193	16180 341440	31628	59960	166975	2.00 80.0	5.00 100	10.0	20.0	50.0
Benzaldehyde	DCB	Ave	3526 193235	12115 230656	21042	47782	120179	2.00 80.0	5.00 100	10.0	20.0	50.0
Aniline	DCB	Ave	11529 658126	39643 780999	77747	161871	408084	2.00 80.0	5.00 100	10.0	20.0	50.0
Phenol	DCB	Ave	13003 565665	34618 642307	67586	141317	353601	2.00 80.0	5.00 100	10.0	20.0	50.0
Bis(2-chloroethyl)ether	DCB	Ave	10319 392658	26908 470144	50613	101097	243287	2.00 80.0	5.00 100	10.0	20.0	50.0
2-Chlorophenol	DCB	Ave	9662 465267	30835 558779	57958	118321	293303	2.00 80.0	5.00 100	10.0	20.0	50.0
n-Decane	DCB	Ave	9525 348333	25602 418587	46344	90848	226156	2.00 80.0	5.00 100	10.0	20.0	50.0
1,3-Dichlorobenzene	DCB	Ave	11399 486576	34851 583287	65657	129574	307773	2.00 80.0	5.00 100	10.0	20.0	50.0
1,4-Dichlorobenzene	DCB	Ave	12196 483728	34549 574456	65397	129833	306478	2.00 80.0	5.00 100	10.0	20.0	50.0
Benzyl alcohol	DCB	Ave	 318125	17924 375715	35803	78731	199369	 80.0	5.00 100	10.0	20.0	50.0
1,2-Dichlorobenzene	DCB	Ave	11782 468244	33530 560165	62956	127835	293358	2.00 80.0	5.00 100	10.0	20.0	50.0
Indene	DCB	Ave	18102 715409	53367 840594	98256	194526	463317	2.00 80.0	5.00 100	10.0	20.0	50.0
bis (2-chloroisopropyl) ether	DCB	Ave	3630 155635	11326 189683	19466	40563	97397	2.00 80.0	5.00 100	10.0	20.0	50.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39837-2 Analy Batch No.: 116166

SDG No.:

Instrument ID: HP31 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/22/2013 17:06 Calibration End Date: 10/22/2013 19:23 Calibration ID: 19839

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2-Methylphenol	DCB	Ave	8609 424066	28111 504168	52948	106143	264144	2.00 80.0	5.00 100	10.0	20.0	50.0
Acetophenone	DCB	Ave	12464 592868	38569 704264	76410	153514	375075	2.00 80.0	5.00 100	10.0	20.0	50.0
N-Nitrosodi-n-propylamine	DCB	Ave	6521 297767	19160 347612	36801	74451	187416	2.00 80.0	5.00 100	10.0	20.0	50.0
3 & 4 Methylphenol	DCB	Ave	9065 457138	27758 546225	56975	113792	287913	2.00 80.0	5.00 100	10.0	20.0	50.0
Hexachloroethane	DCB	Ave	3948 166634	11673 200016	21489	42263	103974	2.00 80.0	5.00 100	10.0	20.0	50.0
Nitrobenzene	NPT	Ave	9059 426768	27566 506211	51424	106526	267175	2.00 80.0	5.00 100	10.0	20.0	50.0
Isophorone	NPT	Ave	17007 802991	54182 946174	99840	205904	514957	2.00 80.0	5.00 100	10.0	20.0	50.0
2-Nitrophenol	NPT	Ave	4975 287952	16477 344749	32692	70425	175335	2.00 80.0	5.00 100	10.0	20.0	50.0
2,4-Dimethylphenol	NPT	Ave	9621 441680	29244 523916	56322	117667	282040	2.00 80.0	5.00 100	10.0	20.0	50.0
Bis(2-chloroethoxy)methane	NPT	Ave	11103 480936	32573 555570	58486	120846	300655	2.00 80.0	5.00 100	10.0	20.0	50.0
Benzoic acid	NPT	Lin2	 428334	16309 512256	36862	87706	247361	 80.0	5.00 100	10.0	20.0	50.0
2,4-Dichlorophenol	NPT	Ave	7811 413450	25964 493305	51008	108298	256688	2.00 80.0	5.00 100	10.0	20.0	50.0
1,2,4-Trichlorobenzene	NPT	Ave	9345 399974	27988 477683	53394	105765	251190	2.00 80.0	5.00 100	10.0	20.0	50.0
Naphthalene	NPT	Ave	32661 1234244	96236 1430659	177300	352953	822826	2.00 80.0	5.00 100	10.0	20.0	50.0
4-Chloroaniline	NPT	Ave	11475 634793	38896 755657	80823	169103	409934	2.00 80.0	5.00 100	10.0	20.0	50.0
Hexachlorobutadiene	NPT	Ave	4667 209398	15638 250854	28155	56295	132485	2.00 80.0	5.00 100	10.0	20.0	50.0
Caprolactam	NPT	Ave	 219132	12143 258566	22789	51169	131086	 80.0	5.00 100	10.0	20.0	50.0
4-Chloro-3-methylphenol	NPT	Ave	8394 439027	26891 519535	53308	112064	275393	2.00 80.0	5.00 100	10.0	20.0	50.0
2-Methylnaphthalene	NPT	Ave	21960 967651	70493 1126931	132893	265118	625148	2.00 80.0	5.00 100	10.0	20.0	50.0
1-Methylnaphthalene	NPT	Ave	21280 916722	66679 1065735	124529	249127	585509	2.00 80.0	5.00 100	10.0	20.0	50.0
Hexachlorocyclopentadiene	ANT	Lin2	 180248	 225013	9518	28818	96985	 80.0	 100	10.0	20.0	50.0

FORM VI

GC/MS SEMI VOA INITIAL CALIBRATION DATA

INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39837-2 Analy Batch No.: 116166

SDG No.:

Instrument ID: HP31 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/22/2013 17:06 Calibration End Date: 10/22/2013 19:23 Calibration ID: 19839

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2,4,5-Tetrachlorobenzene	NPT	Ave	9275 415473	29747 494248	56063	111922	259990	2.00 80.0	5.00 100	10.0	20.0	50.0
2,4,6-Trichlorophenol	ANT	Ave	5723 319567	19427 378631	38610	81109	199470	2.00 80.0	5.00 100	10.0	20.0	50.0
2,4,5-Trichlorophenol	ANT	Ave	5760 348495	21220 412631	40573	87462	209362	2.00 80.0	5.00 100	10.0	20.0	50.0
Biphenyl	NPT	Ave	26941 1154601	84324 1323499	161343	326076	747462	2.00 80.0	5.00 100	10.0	20.0	50.0
2-Chloronaphthalene	ANT	Ave	21046 895490	63421 1040539	120503	250178	572987	2.00 80.0	5.00 100	10.0	20.0	50.0
2-Nitroaniline	ANT	Lin2	4777 289049	14160 337121	29681	68666	176962	2.00 80.0	5.00 100	10.0	20.0	50.0
Dimethyl phthalate	ANT	Ave	24752 1128089	79381 1314763	153288	313109	725971	2.00 80.0	5.00 100	10.0	20.0	50.0
1,3-Dinitrobenzene	ANT	Ave	 248959	 296432	25221	57528	150044	 80.0	 100	10.0	20.0	50.0
2,6-Dinitrotoluene	ANT	Ave	5082 306862	17878 361234	34979	75303	188395	2.00 80.0	5.00 100	10.0	20.0	50.0
Acenaphthylene	ANT	Ave	33307 1492118	108697 1734328	207538	429238	978481	2.00 80.0	5.00 100	10.0	20.0	50.0
3-Nitroaniline	ANT	Lin2	5385 383816	19841 459101	41036	91114	228981	2.00 80.0	5.00 100	10.0	20.0	50.0
Acenaphthene	ANT	Ave	22825 964650	70982 1120229	133237	272234	624907	2.00 80.0	5.00 100	10.0	20.0	50.0
2,4-Dinitrophenol	ANT	Lin2	 448215	17222 535639	38135	89035	254385	 160	10.0 200	20.0	40.0	100
Dibenzofuran	ANT	Ave	31946 1374695	100941 1580208	191521	389184	896010	2.00 80.0	5.00 100	10.0	20.0	50.0
2,4-Dinitrotoluene	ANT	Ave	 413939	24568 485585	49068	103505	257012	 80.0	5.00 100	10.0	20.0	50.0
4-Nitrophenol	ANT	Lin2	5287 477610	27472 556006	49632	110978	290223	4.00 160	10.0 200	20.0	40.0	100
2,3,4,6-Tetrachlorophenol	ANT	Ave	5305 306333	18275 357074	35507	76172	184922	2.00 80.0	5.00 100	10.0	20.0	50.0
Diethyl phthalate	ANT	Ave	23419 1145738	79479 1330001	148925	302901	739196	2.00 80.0	5.00 100	10.0	20.0	50.0
Hexadecane	ANT	Ave	11048 506221	33835 592824	65318	131377	332045	2.00 80.0	5.00 100	10.0	20.0	50.0
Fluorene	ANT	Ave	26443 1152729	84224 1348177	162107	325565	747977	2.00 80.0	5.00 100	10.0	20.0	50.0
4-Chlorophenyl phenyl ether	ANT	Ave	12092 544770	38304 641253	71502	146649	340270	2.00 80.0	5.00 100	10.0	20.0	50.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39837-2 Analy Batch No.: 116166

SDG No.:

Instrument ID: HP31 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/22/2013 17:06 Calibration End Date: 10/22/2013 19:23 Calibration ID: 19839

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
4-Nitroaniline	ANT	Lin2	5076 398634	20803 467729	40844	93717	239258	2.00 80.0	5.00 100	10.0	20.0	50.0
4,6-Dinitro-2-methylphenol	PHN	Lin2	6181 574592	27689 669085	60237	131004	340319	4.00 160	10.0 200	20.0	40.0	100
n-Nitrosodiphenylamine(as diphenylamine)	PHN	Ave	15738 763360	53068 894561	99480	206615	483321	2.00 80.0	5.00 100	10.0	20.0	50.0
1,2-Diphenylhydrazine (as Azobenzene)	ANT	Ave	20728 973103	63497 1132785	123884	253567	629230	2.00 80.0	5.00 100	10.0	20.0	50.0
4-Bromophenyl phenyl ether	PHN	Ave	6711 349534	22122 407567	42090	89833	214405	2.00 80.0	5.00 100	10.0	20.0	50.0
Hexachlorobenzene	PHN	Ave	8170 384555	26307 452343	49777	101029	239160	2.00 80.0	5.00 100	10.0	20.0	50.0
Atrazine	PHN	Ave	6205 362520	22281 427108	45326	94082	226311	2.00 80.0	5.00 100	10.0	20.0	50.0
Pentachlorophenol	PHN	Lin2	5959 487835	25453 582802	52443	115256	293150	4.00 160	10.0 200	20.0	40.0	100
n-Octadecane	PHN	Ave	11135 566827	34914 659921	67775	141163	361527	2.00 80.0	5.00 100	10.0	20.0	50.0
Phenanthrene	PHN	Ave	38743 1669246	128184 1897738	233575	474755	1068657	2.00 80.0	5.00 100	10.0	20.0	50.0
Anthracene	PHN	Ave	38073 1692998	129169 1963124	234897	490098	1116258	2.00 80.0	5.00 100	10.0	20.0	50.0
Carbazole	PHN	Ave	37232 1794580	130782 2083016	245007	495895	1152604	2.00 80.0	5.00 100	10.0	20.0	50.0
Di-n-butyl phthalate	PHN	Ave	37374 1980465	130607 2258075	254488	527797	1278312	2.00 80.0	5.00 100	10.0	20.0	50.0
Fluoranthene	PHN	Ave	39840 1967544	140602 2279656	266306	547601	1247829	2.00 80.0	5.00 100	10.0	20.0	50.0
Benzidine	CRY	Lin2	13774 703463	41435 788332	86377	182823	427112	2.00 80.0	5.00 100	10.0	20.0	50.0
Pyrene	CRY	Ave	42209 1974557	152511 2261631	284165	567088	1274378	2.00 80.0	5.00 100	10.0	20.0	50.0
Butyl benzyl phthalate	CRY	Lin2	15356 1040507	60736 1207536	119047	250548	624825	2.00 80.0	5.00 100	10.0	20.0	50.0
Benzo[a]anthracene	CRY	Ave	42979 2023991	150255 2296571	276538	549671	1235191	2.00 80.0	5.00 100	10.0	20.0	50.0
3,3'-Dichlorobenzidine	CRY	Ave	13685 808797	52543 932766	100039	204203	480926	2.00 80.0	5.00 100	10.0	20.0	50.0
Chrysene	CRY	Ave	43165 1832461	150425 2119359	272181	532303	1137985	2.00 80.0	5.00 100	10.0	20.0	50.0
Bis(2-ethylhexyl) phthalate	CRY	Lin2	20172 1342071	83102 1545357	161844	343165	827126	2.00 80.0	5.00 100	10.0	20.0	50.0

FORM VI

GC/MS SEMI VOA INITIAL CALIBRATION DATA

INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39837-2 Analy Batch No.: 116166

SDG No.:

Instrument ID: HP31 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/22/2013 17:06 Calibration End Date: 10/22/2013 19:23 Calibration ID: 19839

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Di-n-octyl phthalate	PRY	Lin2	39274 2280796	145766 2616828	281389	583870	1434574	2.00 80.0	5.00 100	10.0	20.0	50.0
Benzo[b]fluoranthene	PRY	Ave	43663 2132825	161415 2382212	302696	591810	1328790	2.00 80.0	5.00 100	10.0	20.0	50.0
Benzo[k]fluoranthene	PRY	Ave	48711 2071975	175136 2422022	317754	632021	1317241	2.00 80.0	5.00 100	10.0	20.0	50.0
Benzo[a]pyrene	PRY	Ave	41213 1984298	153695 2278139	290840	571437	1245089	2.00 80.0	5.00 100	10.0	20.0	50.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	52102 2427807	193857 2808665	361031	703842	1516187	2.00 80.0	5.00 100	10.0	20.0	50.0
Dibenz(a,h)anthracene	PRY	Ave	45052 2019348	165664 2308647	305365	591630	1270130	2.00 80.0	5.00 100	10.0	20.0	50.0
Benzo[g,h,i]perylene	PRY	Ave	46626 2005440	163714 2274853	304495	591159	1264555	2.00 80.0	5.00 100	10.0	20.0	50.0
2-Fluorophenol (Surr)	DCB	Ave	7921 417610	23934 504058	47270	97731	252566	2.00 80.0	5.00 100	10.0	20.0	50.0
Phenol-d5 (Surr)	DCB	Ave	10902 541828	33972 641489	64186	135882	337071	2.00 80.0	5.00 100	10.0	20.0	50.0
Nitrobenzene-d5 (Surr)	NPT	Ave	9491 452290	26730 531546	54362	111971	277184	2.00 80.0	5.00 100	10.0	20.0	50.0
2-Fluorobiphenyl (Surr)	ANT	Ave	24449 1022342	77736 1188332	148475	294113	670726	2.00 80.0	5.00 100	10.0	20.0	50.0
2,4,6-Tribromophenol (Surr)	PHN	Ave	 209719	12318 246535	23773	49956	125005	 80.0	5.00 100	10.0	20.0	50.0
Terphenyl-d14 (Surr)	CRY	Ave	30154 1508391	109301 1741607	200685	409256	934122	2.00 80.0	5.00 100	10.0	20.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022003.D
Lims ID: STD 1 Client ID:
Inject. Date: 22-Oct-2013 17:06:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: STD 1
Misc. Info.: 490-0027160-003
Operator: HP-31 Instrument ID: HP31
Injection Vol: 1.0 ul ALS Bottle#: 6
Lims Batch ID: 116166 Lims Sample ID: 3
Sublist: chrom-8270HP31*sub30
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\hp31\20131022-27160.b\8270HP31.m
Last Update: 24-Oct-2013 12:55:23 Calib Date: 22-Oct-2013 19:23:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022009.D
Limit Group: MSS 8270C ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK049

First Level Reviewer: phelpsk Date: 23-Oct-2013 10:11:52

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	4.010	4.009	0.001	93	161807	40.0	
4 1,4-Dioxane	88	1.823	1.813	0.010	91	3760	1.95	M
5 N-Nitrosodimethylamine	74	2.171	2.114	0.057	67	4478	1.73	M
6 Pyridine	52	2.209	2.142	0.067	85	5449	1.74	M
$ 11 2-Fluorophenol	112	3.220	3.214	0.006	81	7921	1.67	M
21 Benzaldehyde	105	3.742	3.736	0.006	87	3526	1.59	
17 Aniline	93	3.807	3.807	0.0	95	11529	1.53	
$ 15 Phenol-d5	99	3.831	3.821	0.010	0	10902	1.71	
16 Phenol	94	3.836	3.830	0.006	90	13003	1.94	M
18 Bis(2-chloroethyl)ether	93	3.850	3.849	0.001	87	10319	2.09	
19 2-Chlorophenol	128	3.897	3.892	0.005	91	9662	1.72	
20 n-Decane	57	3.906	3.906	0.0	96	9525	2.11	
22 1,3-Dichlorobenzene	146	3.972	3.972	0.0	97	11399	1.86	
23 1,4-Dichlorobenzene	146	4.019	4.019	0.0	83	12196	1.98	
24 Benzyl alcohol	108	4.108	4.103	0.005	86	5670	1.52	
25 1,2-Dichlorobenzene	146	4.113	4.113	0.0	96	11782	1.97	
2 Indene	115	4.170	4.169	0.001	87	18102	1.96	
27 2,2'-oxybis[1-chloropropane]	121	4.179	4.183	-0.004	93	3630	1.87	
26 2-Methylphenol	108	4.193	4.188	0.005	93	8609	1.70	
32 N-Nitrosodi-n-propylamine	70	4.264	4.263	0.001	90	6521	1.82	
30 Acetophenone	105	4.264	4.263	0.001	98	12464	1.73	
28 3 & 4 Methylphenol	108	4.292	4.287	0.005	0	9065	1.68	
33 Hexachloroethane	117	4.320	4.319	0.001	93	3948	1.91	
* 37 Naphthalene-d8	136	4.800	4.799	0.001	98	634114	40.0	
$ 46 Nitrobenzene-d5	82	4.358	4.357	0.001	83	9491	1.83	
47 Nitrobenzene	77	4.367	4.366	0.001	81	9059	1.82	
48 Isophorone	82	4.513	4.512	0.001	96	17007	1.78	
49 2-Nitrophenol	139	4.565	4.564	0.001	87	4975	1.56	
50 2,4-Dimethylphenol	107	4.607	4.602	0.005	90	9621	1.81	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
52 Bis(2-chloroethoxy)methane	93	4.649	4.649	0.0	97	11103	1.94	
51 Benzoic acid	105	4.663	4.667	-0.004	79	4861	3.23	M
53 2,4-Dichlorophenol	162	4.734	4.729	0.005	85	7811	1.63	
55 1,2,4-Trichlorobenzene	180	4.762	4.761	0.001	93	9345	1.90	
56 Naphthalene	128	4.809	4.813	-0.004	69	32661	2.03	
57 4-Chloroaniline	127	4.851	4.851	0.0	86	11475	1.55	
59 Hexachlorobutadiene	225	4.889	4.888	0.001	93	4667	1.80	
42 Caprolactam	113	5.063	5.072	-0.009	71	3367	1.38	
62 4-Chloro-3-methylphenol	107	5.190	5.189	0.001	89	8394	1.66	
65 2-Methylnaphthalene	142	5.270	5.269	0.001	86	21960	1.83	
66 1-Methylnaphthalene	142	5.336	5.335	0.001	82	21280	1.87	
45 1,2,4,5-Tetrachlorobenzene	216	5.387	5.387	0.0	94	9275	1.82	
43 1,1'-Biphenyl	154	5.613	5.613	0.0	93	26941	1.86	
* 72 Acenaphthene-d10	164	6.079	6.078	0.001	86	417215	40.0	
76 Hexachlorocyclopentadiene	237	5.383	5.377	0.006	7	756	6.89	
77 2,4,6-Trichlorophenol	196	5.481	5.481	0.0	79	5723	1.63	
78 2,4,5-Trichlorophenol	196	5.533	5.528	0.005	89	5760	1.54	
$ 79 2-Fluorobiphenyl (Surr)	172	5.538	5.537	0.001	98	24449	1.93	
83 2-Chloronaphthalene	162	5.627	5.627	0.0	87	21046	1.96	
84 2-Nitroaniline	65	5.717	5.711	0.006	76	4777	2.10	
85 Dimethyl phthalate	163	5.858	5.857	0.001	99	24752	1.85	
81 1,3-Dinitrobenzene	168	5.891	5.890	0.001	81	3280	1.22	
86 2,6-Dinitrotoluene	165	5.909	5.909	0.0	76	5082	1.56	
87 Acenaphthylene	152	5.961	5.961	0.0	88	33307	1.84	
88 3-Nitroaniline	138	6.060	6.055	0.005	91	5385	2.05	
89 Acenaphthene	153	6.107	6.106	0.001	88	22825	1.95	
90 2,4-Dinitrophenol	184	6.159	6.149	0.010	62	3769	6.01	
92 Dibenzofuran	168	6.262	6.261	0.001	84	31946	1.91	
93 2,4-Dinitrotoluene	165	6.262	6.261	0.001	57	6342	1.37	
91 4-Nitrophenol	65	6.290	6.271	0.019	80	5287	3.93	
96 2,3,4,6-Tetrachlorophenol	232	6.389	6.384	0.005	61	5305	1.61	
97 Diethyl phthalate	149	6.488	6.487	0.001	96	23419	1.76	
196 Hexadecane	57	6.507	6.506	0.0	0	11048	1.88	
99 Fluorene	166	6.577	6.577	0.001	82	26443	1.89	
98 4-Chlorophenyl phenyl ether	204	6.586	6.586	0.0	87	12092	1.89	
100 4-Nitroaniline	138	6.615	6.614	0.001	84	5076	2.03	
101 Azobenzene	77	6.737	6.736	0.001	94	20728	1.85	
* 106 Phenanthrene-d10	188	7.527	7.526	0.001	97	747611	40.0	
116 4,6-Dinitro-2-methylphenol	198	6.643	6.642	0.001	82	6181	4.08	
117 N-Nitrosodiphenylamine	169	6.704	6.703	0.001	52	15738	1.81	
$ 119 2,4,6-Tribromophenol	330	6.817	6.816	0.001	76	3119	1.40	
120 4-Bromophenyl phenyl ether	248	7.071	7.070	0.001	60	6711	1.77	
121 Hexachlorobenzene	284	7.118	7.117	0.001	88	8170	1.88	
112 Atrazine	200	7.264	7.268	-0.004	84	6205	1.59	
124 Pentachlorophenol	266	7.348	7.343	0.005	88	5959	4.05	
115 n-Octadecane	57	7.466	7.465	0.001	91	11135	1.81	
126 Phenanthrene	178	7.550	7.555	-0.005	96	38743	1.95	
129 Anthracene	178	7.607	7.606	0.001	84	38073	1.88	
131 Carbazole	167	7.804	7.804	0.0	83	37232	1.79	
132 Di-n-butyl phthalate	149	8.237	8.236	0.001	99	37374	1.70	
135 Fluoranthene	202	8.890	8.890	0.0	97	39840	1.76	
* 140 Chrysene-d12	240	10.583	10.587	-0.004	80	900793	40.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
145 Benzidine	184	9.093	9.087	0.006	82	13774	2.07	
146 Pyrene	202	9.144	9.144	0.0	95	42209	1.79	
$ 147 Terphenyl-d14	244	9.370	9.374	-0.004	95	30154	1.75	
150 Butyl benzyl phthalate	149	9.995	9.995	0.0	93	15356	2.04	
152 Benzo[a]anthracene	228	10.574	10.573	0.001	96	42979	1.84	
151 3,3'-Dichlorobenzidine	252	10.583	10.583	0.0	43	13685	1.58	
153 Chrysene	228	10.611	10.616	-0.005	91	43165	1.93	
154 Bis(2-ethylhexyl) phthalate	149	10.715	10.714	0.001	94	20172	2.01	
* 156 Perylene-d12	264	12.177	12.177	0.0	82	947016	40.0	
158 Di-n-octyl phthalate	149	11.458	11.462	-0.004	99	39274	2.05	
159 Benzo[b]fluoranthene	252	11.782	11.782	0.0	86	43663	1.71	
161 Benzo[k]fluoranthene	252	11.811	11.810	0.0	97	48711	1.83	
162 Benzo[a]pyrene	252	12.116	12.116	0.0	74	41213	1.70	
164 Indeno[1,2,3-cd]pyrene	276	13.207	13.207	0.001	98	52102	1.73	
165 Dibenz(a,h)anthracene	278	13.231	13.230	0.001	70	45052	1.78	
166 Benzo[g,h,i]perylene	276	13.475	13.479	-0.004	90	46626	1.85	
S 167 Total Cresols	1				0		3.38	
S 172 Methyl Phenols,Total	1				0		3.38	

QC Flag Legend

Review Flags
M - Manually Integrated

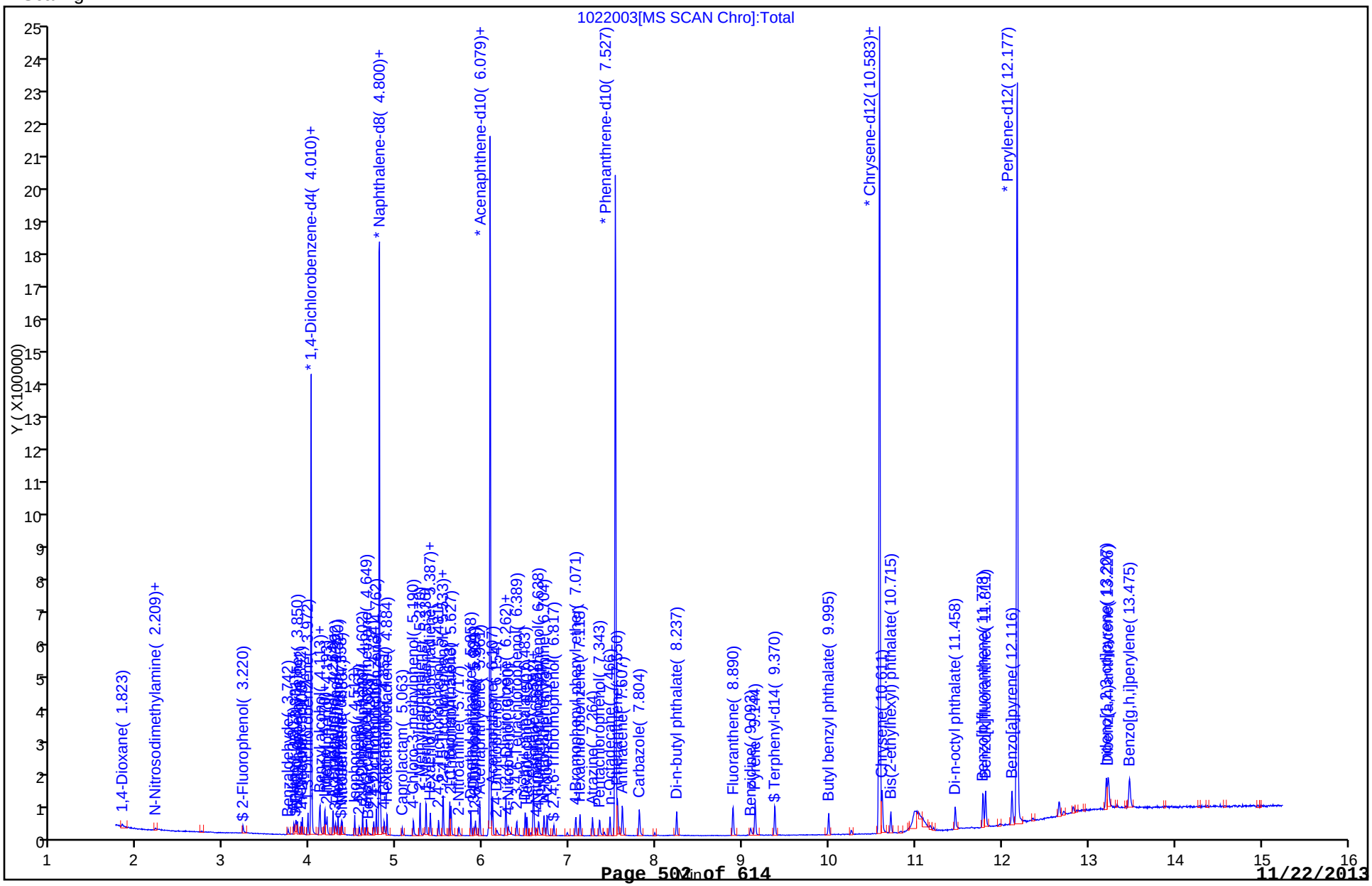
Report Date: 24-Oct-2013 12:55:23 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022003.D

Injection Date:	22-Oct-2013 17:06:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	3
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



11/22/2013

Manual Integration/User Assign Peak Report

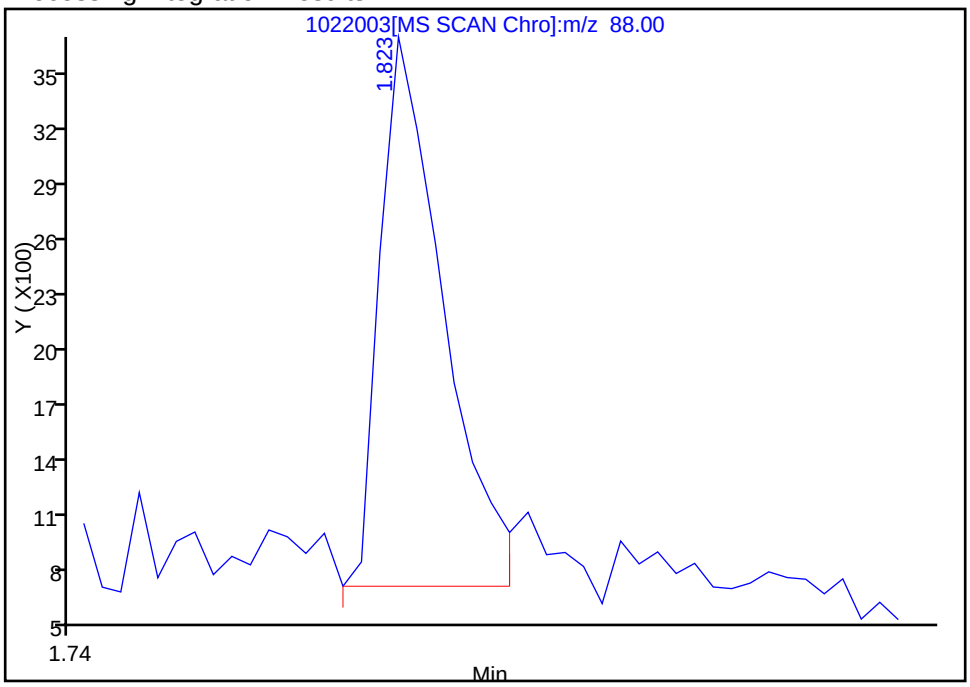
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022003.D		
Injection Date:	22-Oct-2013 17:06:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	3
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

4 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 1.81

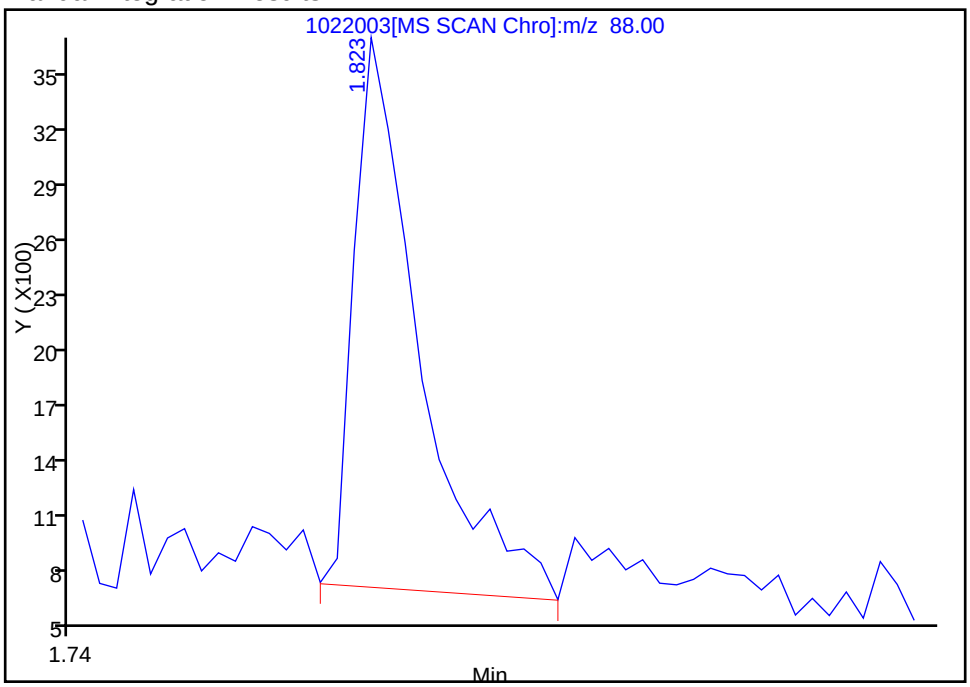
Processing Integration Results

RT: 1.82
Response: 3322
Amount: 1.752605



Manual Integration Results

RT: 1.82
Response: 3760
Amount: 1.951473



Reviewer: phelpsk, 23-Oct-2013 10:11:52
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

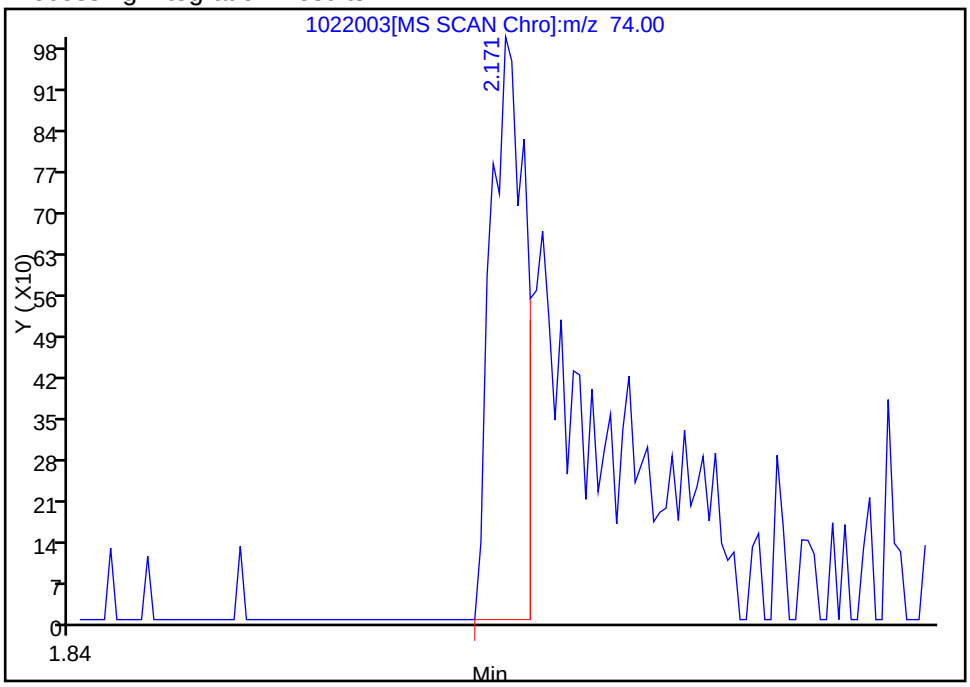
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022003.D		
Injection Date:	22-Oct-2013 17:06:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	3
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

5 N-Nitrosodimethylamine, Signal: 1, m/z: 74.0 Type: quant, RT: 2.11

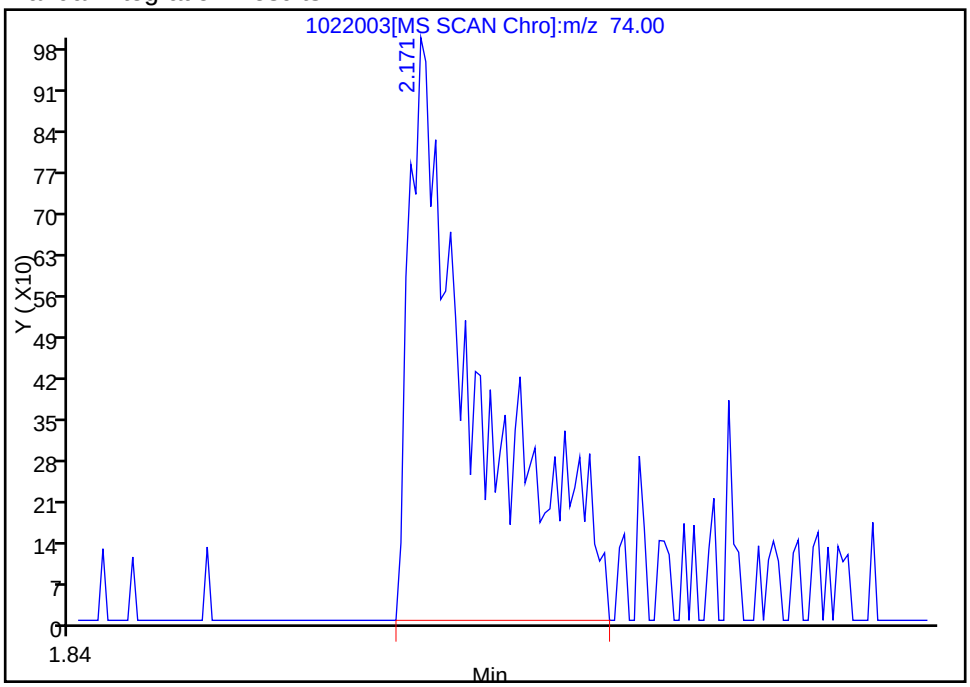
Processing Integration Results

RT: 2.17
Response: 1759
Amount: 0.733995



Manual Integration Results

RT: 2.17
Response: 4478
Amount: 1.728498



Reviewer: phelpsk, 23-Oct-2013 10:11:52
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

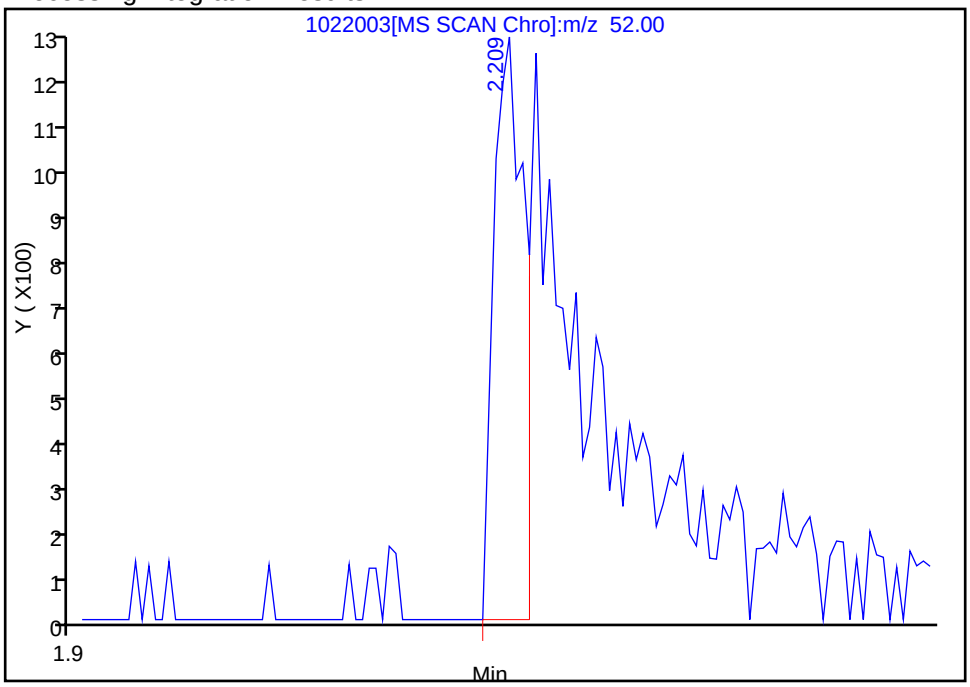
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022003.D		
Injection Date:	22-Oct-2013 17:06:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	3
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

6 Pyridine, Signal: 1, m/z: 52.0 Type: quant, RT: 2.14

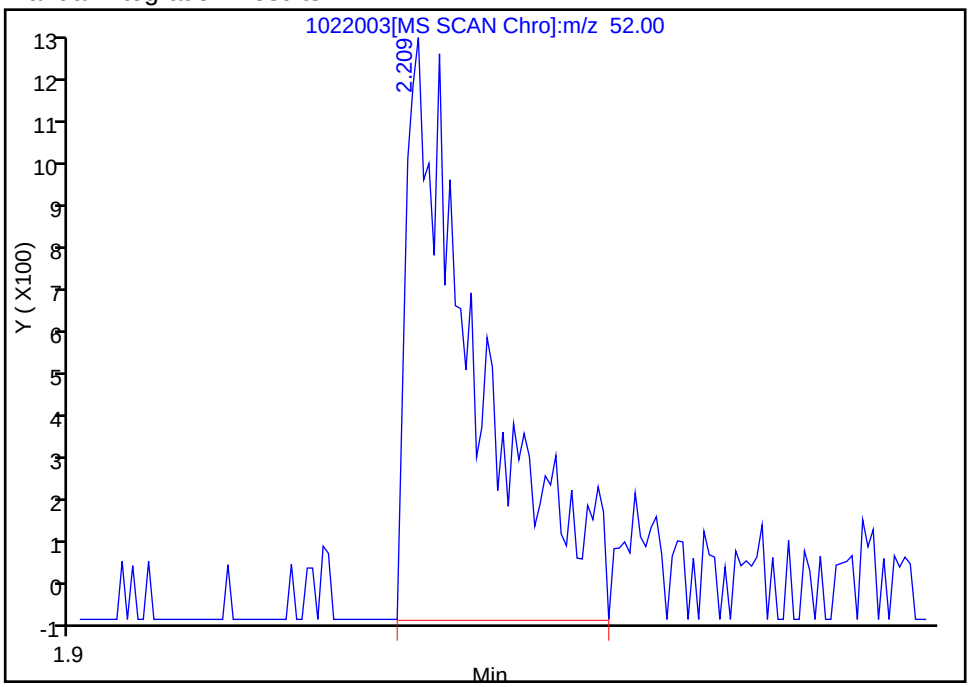
Processing Integration Results

RT: 2.21
Response: 1819
Amount: 0.632469



Manual Integration Results

RT: 2.21
Response: 5449
Amount: 1.737944



Reviewer: phelpsk, 23-Oct-2013 10:11:52
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

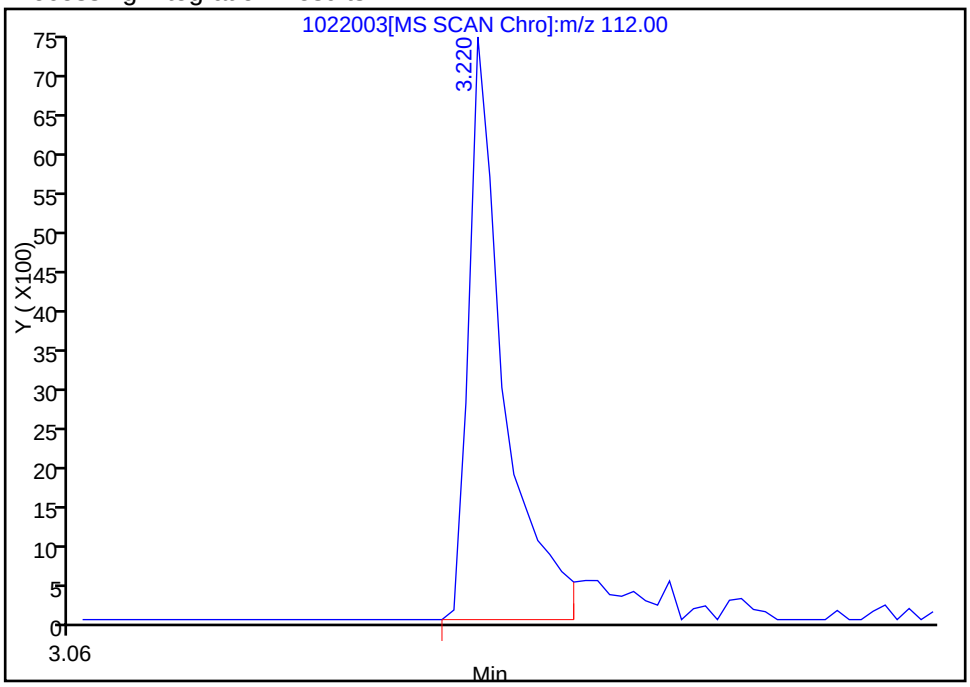
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022003.D		
Injection Date:	22-Oct-2013 17:06:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	3
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

$ 11 2-Fluorophenol, Signal: 1, m/z: 112.0 Type: quant, RT: 3.21

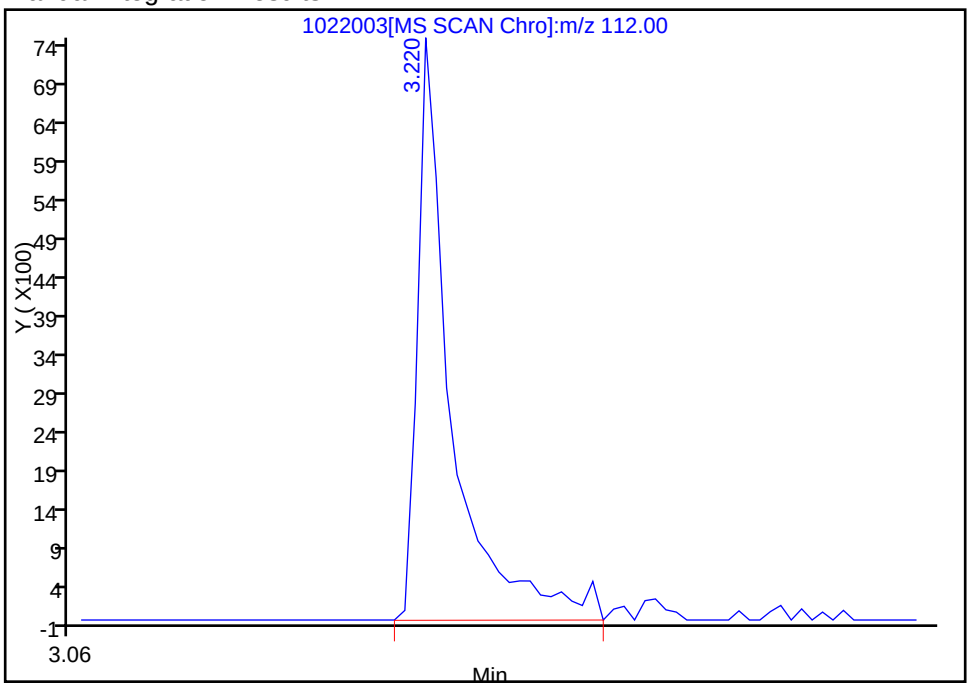
Processing Integration Results

RT: 3.22
Response: 7093
Amount: 1.516907



Manual Integration Results

RT: 3.22
Response: 7921
Amount: 1.672825



Reviewer: phelpsk, 23-Oct-2013 10:11:52
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

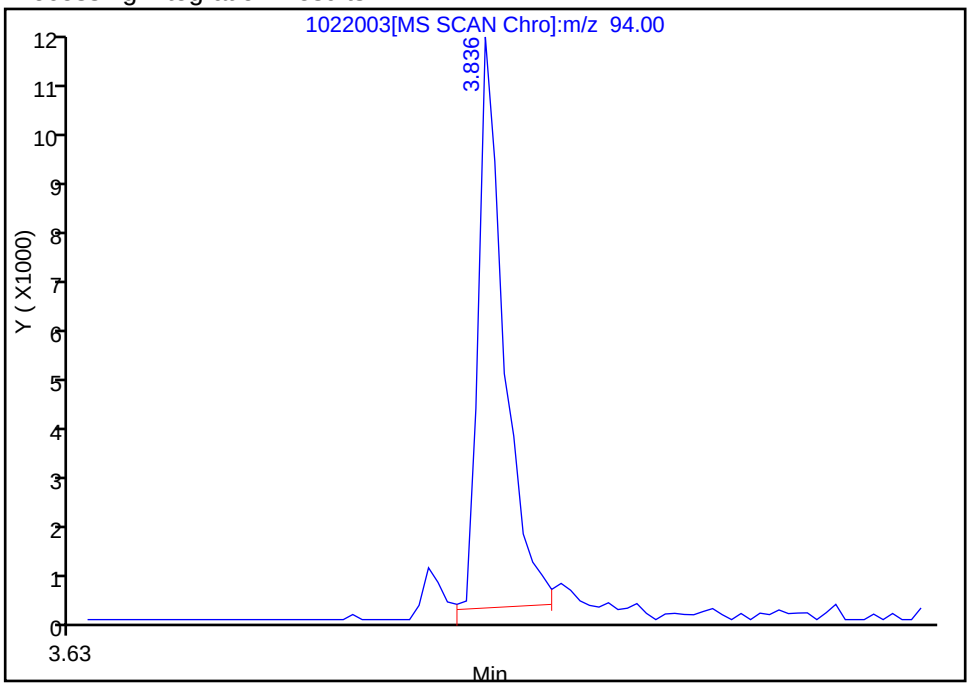
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022003.D		
Injection Date:	22-Oct-2013 17:06:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	3
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

16 Phenol, Signal: 1, m/z: 94.0 Type: quant, RT: 3.83

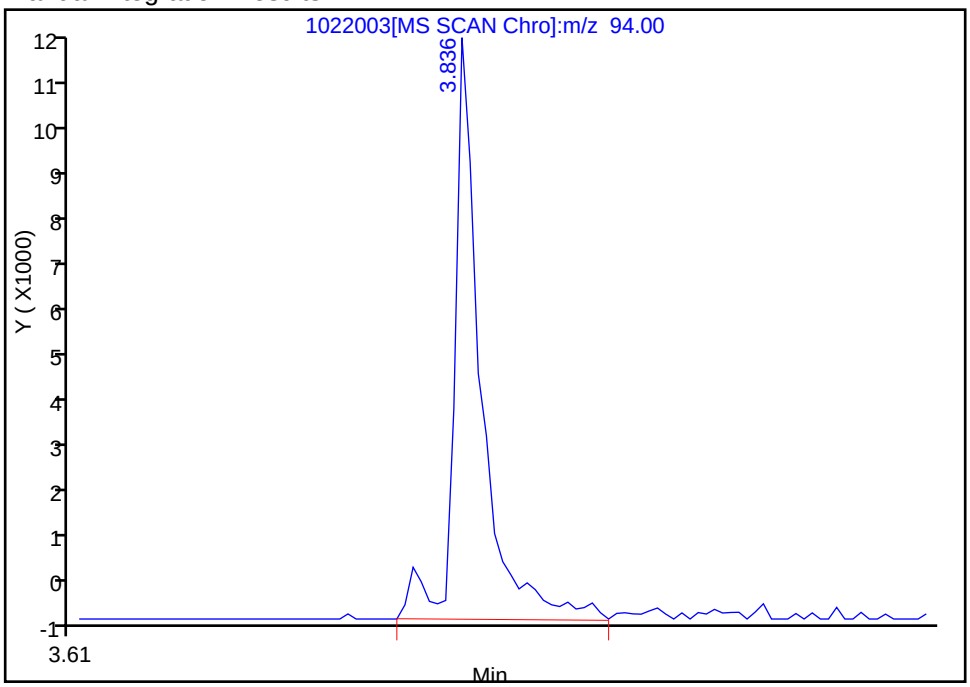
Processing Integration Results

RT: 3.84
Response: 10413
Amount: 1.593450



Manual Integration Results

RT: 3.84
Response: 13003
Amount: 1.935005



Reviewer: phelpsk, 23-Oct-2013 10:11:52
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022004.D
Lims ID: STD 2 Client ID:
Inject. Date: 22-Oct-2013 17:28:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: STD 2
Misc. Info.: 490-0027160-006
Operator: HP-31 Instrument ID: HP31
Injection Vol: 1.0 ul ALS Bottle#: 7
Lims Batch ID: 116166 Lims Sample ID: 6
Sublist: chrom-8270HP31*sub30
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\hp31\20131022-27160.b\8270HP31.m
Last Update: 24-Oct-2013 12:55:21 Calib Date: 22-Oct-2013 19:23:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022009.D
Limit Group: MSS 8270C ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK049

First Level Reviewer: phelpsk Date: 23-Oct-2013 10:09:25

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	4.007	4.009	-0.002	94	174188	40.0	
4 1,4-Dioxane	88	1.821	1.813	0.008	80	10408	5.02	
5 N-Nitrosodimethylamine	74	2.145	2.114	0.031	82	13902	4.98	M
6 Pyridine	52	2.169	2.142	0.027	96	16180	4.79	M
$ 11 2-Fluorophenol	112	3.217	3.214	0.003	87	23934	4.70	
21 Benzaldehyde	105	3.739	3.736	0.003	94	12115	5.07	
17 Aniline	93	3.805	3.807	-0.002	97	39643	4.88	
$ 15 Phenol-d5	99	3.824	3.821	0.003	0	33972	4.95	
16 Phenol	94	3.833	3.830	0.003	92	34618	4.79	
18 Bis(2-chloroethyl)ether	93	3.847	3.849	-0.002	94	26908	5.07	
19 2-Chlorophenol	128	3.894	3.892	0.002	92	30835	5.10	
20 n-Decane	57	3.909	3.906	0.003	97	25602	5.27	
22 1,3-Dichlorobenzene	146	3.970	3.972	-0.002	96	34851	5.27	
23 1,4-Dichlorobenzene	146	4.021	4.019	0.002	98	34549	5.20	
24 Benzyl alcohol	108	4.106	4.103	0.003	95	17924	4.46	
25 1,2-Dichlorobenzene	146	4.111	4.113	-0.002	96	33530	5.21	
2 Indene	115	4.167	4.169	-0.002	75	53367	5.36	
27 2,2'-oxybis[1-chloropropane]	121	4.181	4.183	-0.002	92	11326	5.42	
26 2-Methylphenol	108	4.191	4.188	0.003	88	28111	5.14	
32 N-Nitrosodi-n-propylamine	70	4.261	4.263	-0.002	68	19160	4.98	
30 Acetophenone	105	4.261	4.263	-0.002	95	38569	4.98	
28 3 & 4 Methylphenol	108	4.289	4.287	0.002	0	27758	4.78	
33 Hexachloroethane	117	4.318	4.319	-0.001	96	11673	5.24	
* 37 Naphthalene-d8	136	4.797	4.799	-0.002	99	682054	40.0	
$ 46 Nitrobenzene-d5	82	4.355	4.357	-0.002	84	26730	4.79	
47 Nitrobenzene	77	4.365	4.366	-0.001	82	27566	5.13	
48 Isophorone	82	4.510	4.512	-0.002	96	54182	5.27	
49 2-Nitrophenol	139	4.567	4.564	0.003	87	16477	4.81	
50 2,4-Dimethylphenol	107	4.605	4.602	0.002	91	29244	5.12	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
52 Bis(2-chloroethoxy)methane	93	4.647	4.649	-0.002	99	32573	5.30	
51 Benzoic acid	105	4.661	4.667	-0.006	71	16309	5.27	
53 2,4-Dichlorophenol	162	4.731	4.729	0.002	89	25964	5.03	
55 1,2,4-Trichlorobenzene	180	4.764	4.761	0.003	90	27988	5.30	
56 Naphthalene	128	4.811	4.813	-0.002	70	96236	5.55	
57 4-Chloroaniline	127	4.849	4.851	-0.002	85	38896	4.89	
59 Hexachlorobutadiene	225	4.887	4.888	-0.001	90	15638	5.60	
42 Caprolactam	113	5.065	5.072	-0.007	84	12143	4.64	
62 4-Chloro-3-methylphenol	107	5.188	5.189	-0.001	89	26891	4.95	
65 2-Methylnaphthalene	142	5.268	5.269	-0.001	88	70493	5.45	
66 1-Methylnaphthalene	142	5.338	5.335	0.003	80	66679	5.45	
45 1,2,4,5-Tetrachlorobenzene	216	5.385	5.387	-0.002	94	29747	5.42	
43 1,1'-Biphenyl	154	5.611	5.613	-0.002	94	84324	5.41	
* 72 Acenaphthene-d10	164	6.081	6.078	0.003	86	468899	40.0	
76 Hexachlorocyclopentadiene	237	5.376	5.377	-0.001	88	3690	8.04	
77 2,4,6-Trichlorophenol	196	5.484	5.481	0.003	83	19427	4.92	
78 2,4,5-Trichlorophenol	196	5.531	5.528	0.003	95	21220	5.04	
$ 79 2-Fluorobiphenyl (Surr)	172	5.536	5.537	-0.001	99	77736	5.46	
83 2-Chloronaphthalene	162	5.625	5.627	-0.002	84	63421	5.26	
84 2-Nitroaniline	65	5.714	5.711	0.003	90	14160	4.55	
85 Dimethyl phthalate	163	5.855	5.857	-0.002	100	79381	5.27	
81 1,3-Dinitrobenzene	168	5.888	5.890	-0.002	89	11427	3.78	
86 2,6-Dinitrotoluene	165	5.907	5.909	-0.002	70	17878	4.87	
87 Acenaphthylene	152	5.959	5.961	-0.002	88	108697	5.35	
88 3-Nitroaniline	138	6.057	6.055	0.002	93	19841	4.88	
89 Acenaphthene	153	6.104	6.106	-0.002	94	70982	5.39	
90 2,4-Dinitrophenol	184	6.152	6.149	0.003	79	17222	10.6	
92 Dibenzofuran	168	6.260	6.261	-0.001	85	100941	5.38	
93 2,4-Dinitrotoluene	165	6.260	6.261	-0.001	58	24568	4.72	
91 4-Nitrophenol	65	6.278	6.271	0.007	80	27472	10.9	M
96 2,3,4,6-Tetrachlorophenol	232	6.387	6.384	0.003	70	18275	4.94	
97 Diethyl phthalate	149	6.485	6.487	-0.002	98	79479	5.32	
196 Hexadecane	57	6.504	6.506	-0.002	0	33835	5.11	
99 Fluorene	166	6.575	6.577	-0.001	83	84224	5.36	
98 4-Chlorophenyl phenyl ether	204	6.584	6.586	-0.002	88	38304	5.32	
100 4-Nitroaniline	138	6.612	6.614	-0.002	86	20803	5.03	
101 Azobenzene	77	6.735	6.736	-0.001	97	63497	5.05	
* 106 Phenanthrene-d10	188	7.529	7.526	0.003	96	862571	40.0	
116 4,6-Dinitro-2-methylphenol	198	6.641	6.642	-0.001	87	27689	9.77	
117 N-Nitrosodiphenylamine	169	6.702	6.703	-0.001	58	53068	5.30	
$ 119 2,4,6-Tribromophenol	330	6.815	6.816	-0.002	85	12318	4.78	
120 4-Bromophenyl phenyl ether	248	7.068	7.070	-0.002	59	22122	5.05	
121 Hexachlorobenzene	284	7.120	7.117	0.003	93	26307	5.24	
112 Atrazine	200	7.266	7.268	-0.002	93	22281	4.94	
124 Pentachlorophenol	266	7.346	7.343	0.003	88	25453	10.0	
115 n-Octadecane	57	7.463	7.465	-0.002	96	34914	4.92	
126 Phenanthrene	178	7.553	7.555	-0.002	89	128184	5.58	
129 Anthracene	178	7.604	7.606	-0.002	97	129169	5.53	
131 Carbazole	167	7.802	7.804	-0.002	82	130782	5.45	
132 Di-n-butyl phthalate	149	8.235	8.236	-0.001	100	130607	5.15	
135 Fluoranthene	202	8.888	8.890	-0.002	97	140602	5.39	
* 140 Chrysene-d12	240	10.586	10.587	-0.001	79	1103865	40.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
145 Benzidine	184	9.090	9.087	0.003	96	41435	4.59	
146 Pyrene	202	9.142	9.144	-0.002	96	152511	5.28	
$ 147 Terphenyl-d14	244	9.372	9.374	-0.002	98	109301	5.17	
150 Butyl benzyl phthalate	149	9.993	9.995	-0.002	92	60736	4.94	
152 Benzo[a]anthracene	228	10.572	10.573	-0.001	98	150255	5.24	
151 3,3'-Dichlorobenzidine	252	10.581	10.583	-0.002	55	52543	4.94	
153 Chrysene	228	10.614	10.616	-0.002	91	150425	5.48	
154 Bis(2-ethylhexyl) phthalate	149	10.713	10.714	-0.001	94	83102	5.06	
* 156 Perylene-d12	264	12.175	12.177	-0.002	82	1165930	40.0	
158 Di-n-octyl phthalate	149	11.460	11.462	-0.002	99	145766	4.90	
159 Benzo[b]fluoranthene	252	11.780	11.782	-0.002	92	161415	5.13	
161 Benzo[k]fluoranthene	252	11.808	11.810	-0.002	95	175136	5.35	
162 Benzo[a]pyrene	252	12.114	12.116	-0.002	75	153695	5.14	
164 Indeno[1,2,3-cd]pyrene	276	13.205	13.207	-0.001	95	193857	5.24	
165 Dibenz(a,h)anthracene	278	13.228	13.230	-0.002	81	165664	5.32	
166 Benzo[g,h,i]perylene	276	13.473	13.479	-0.006	93	163714	5.26	
S 172 Methyl Phenols,Total	1				0		9.92	
S 167 Total Cresols	1				0		9.92	

QC Flag Legend

Review Flags
M - Manually Integrated

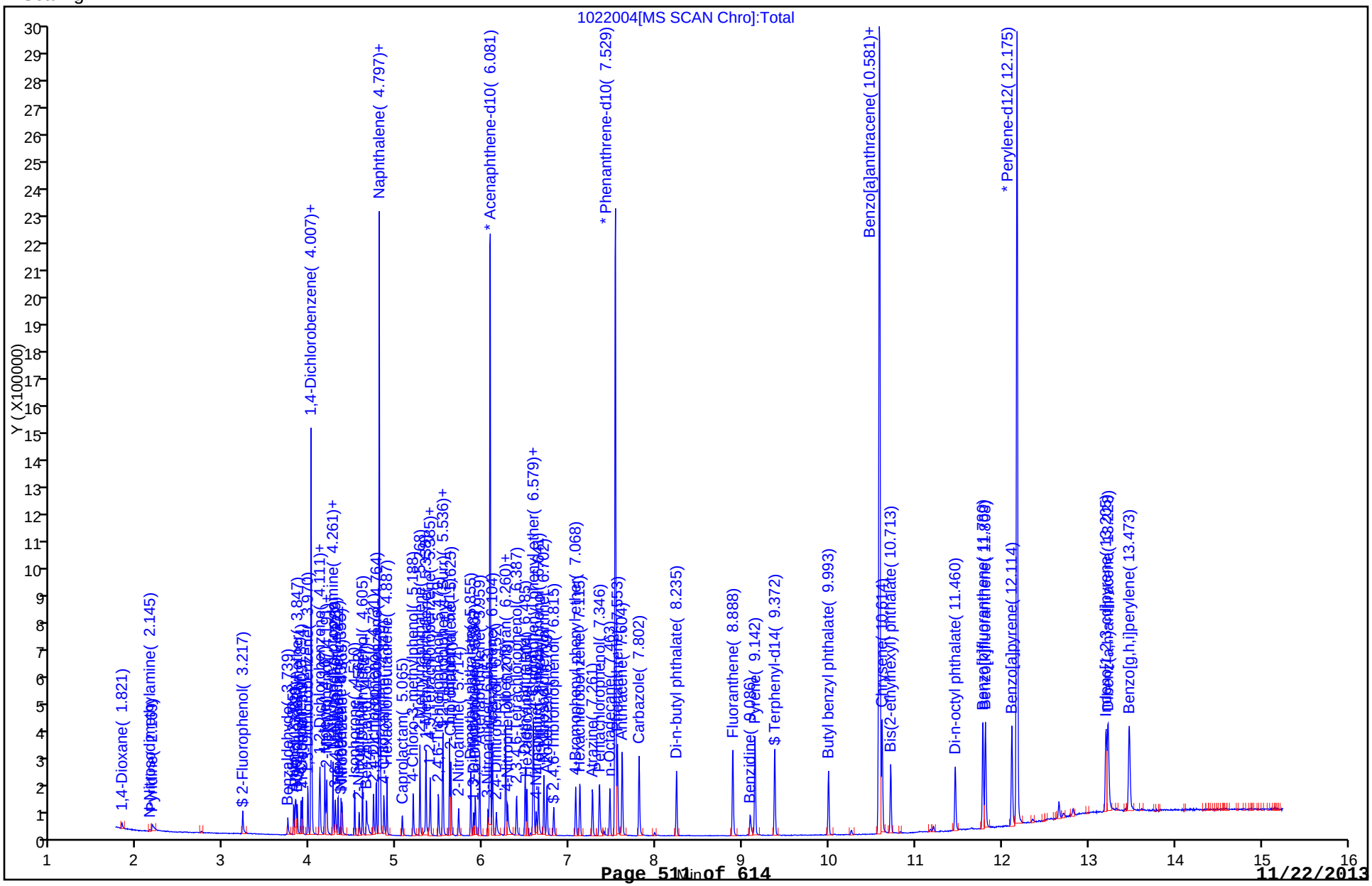
Report Date: 24-Oct-2013 12:55:21 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022004.D

Injection Date:	22-Oct-2013 17:28:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	6
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Manual Integration/User Assign Peak Report

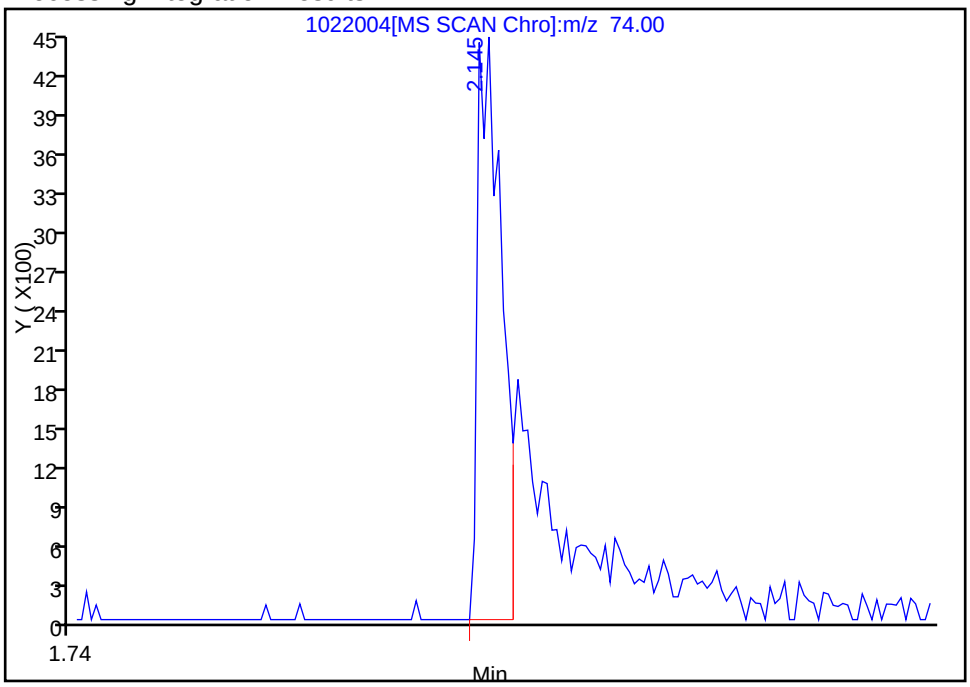
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022004.D		
Injection Date:	22-Oct-2013 17:28:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	6
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

5 N-Nitrosodimethylamine, Signal: 1, m/z: 74.0 Type: quant, RT: 2.11

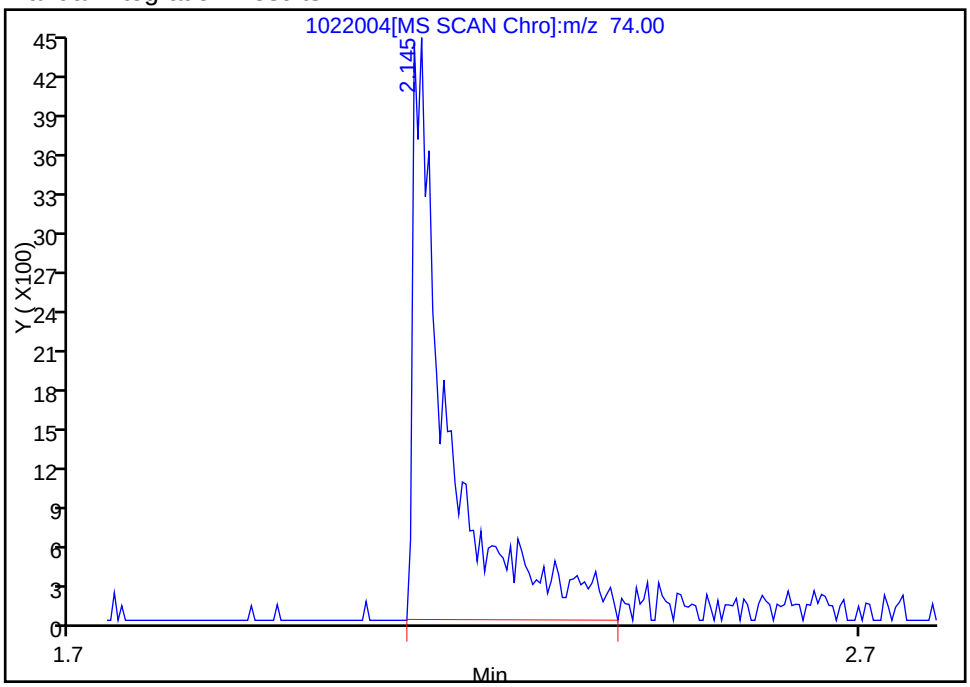
Processing Integration Results

RT: 2.15
Response: 7248
Amount: 3.032977



Manual Integration Results

RT: 2.15
Response: 13902
Amount: 4.984724



Reviewer: phelpsk, 23-Oct-2013 10:09:25
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Nashville

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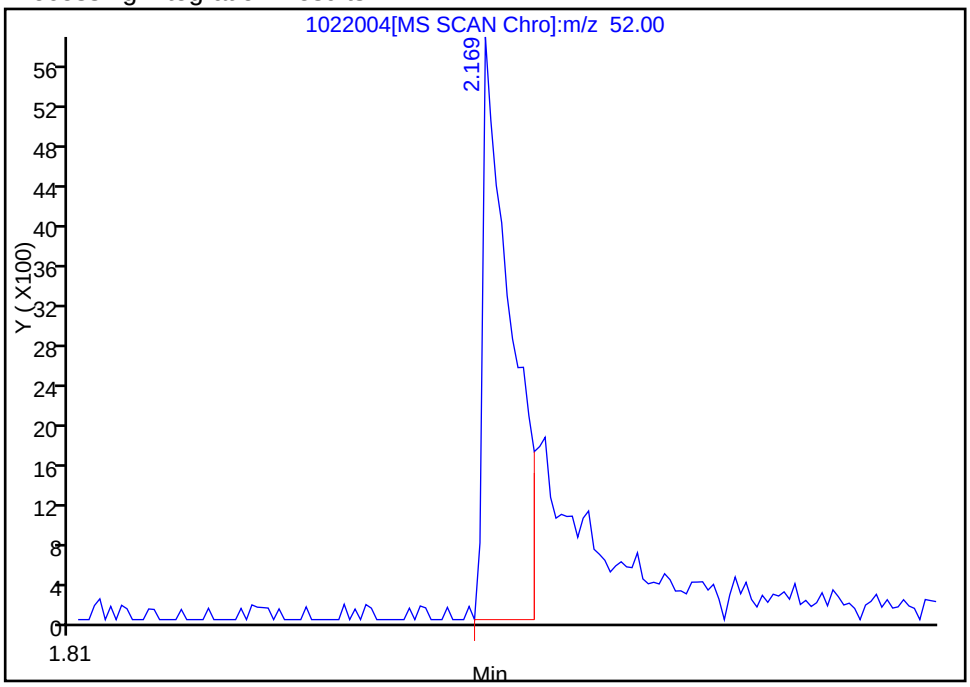
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	6
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

6 Pyridine, Signal: 1, m/z: 52.0 Type: quant, RT: 2.14

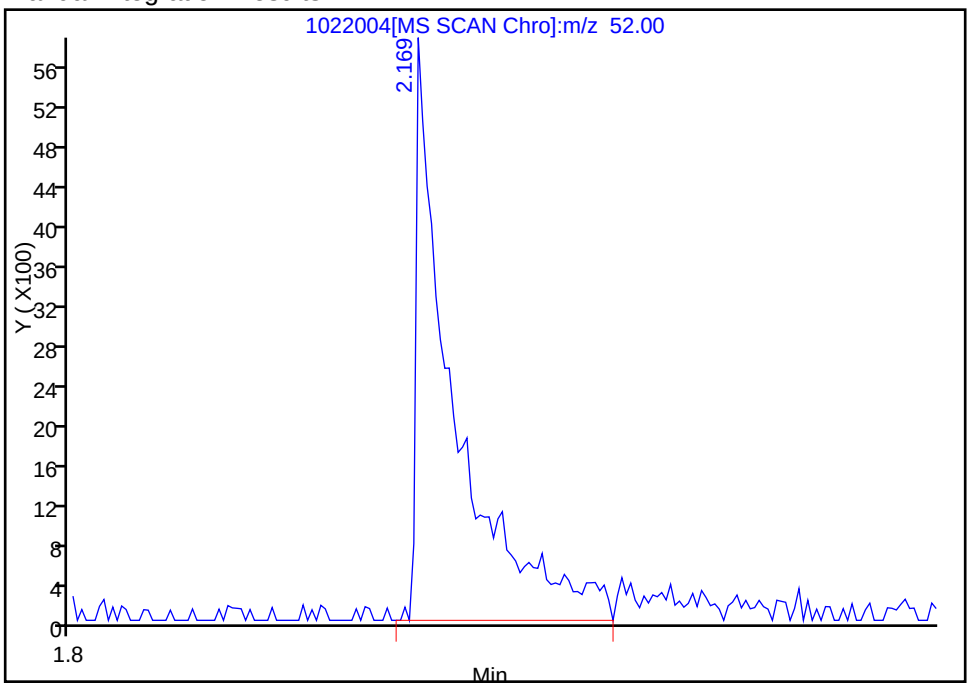
Processing Integration Results

RT: 2.17
Response: 9837
Amount: 3.374769



Manual Integration Results

RT: 2.17
Response: 16180
Amount: 4.793762



Reviewer: phelpsk, 23-Oct-2013 10:09:25
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

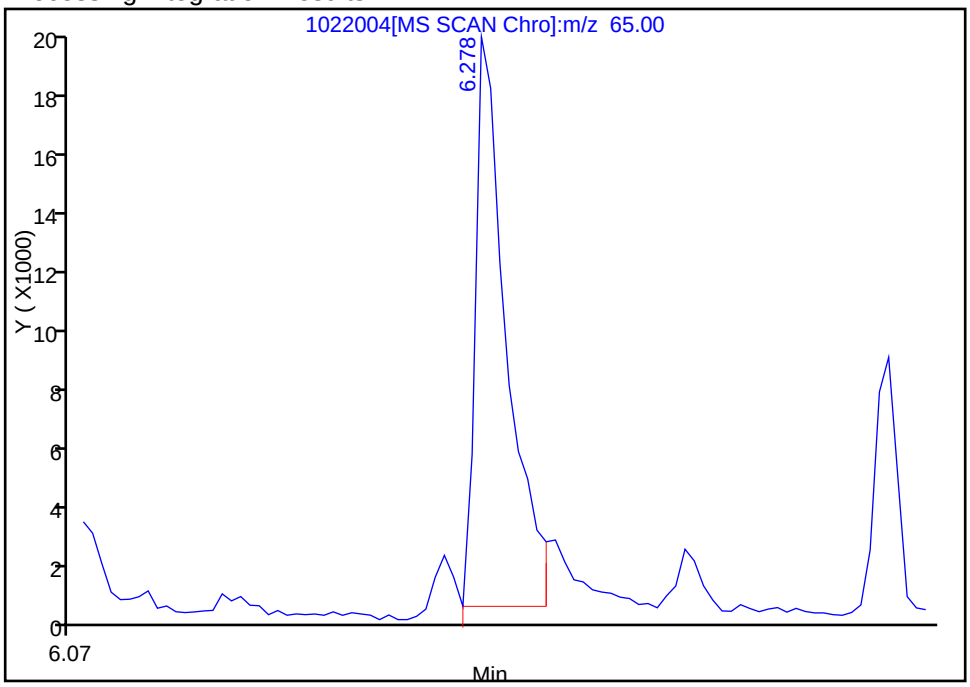
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022004.D		
Injection Date:	22-Oct-2013 17:28:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	6
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

91 4-Nitrophenol, Signal: 1, m/z: 65.0 Type: quant, RT: 6.27

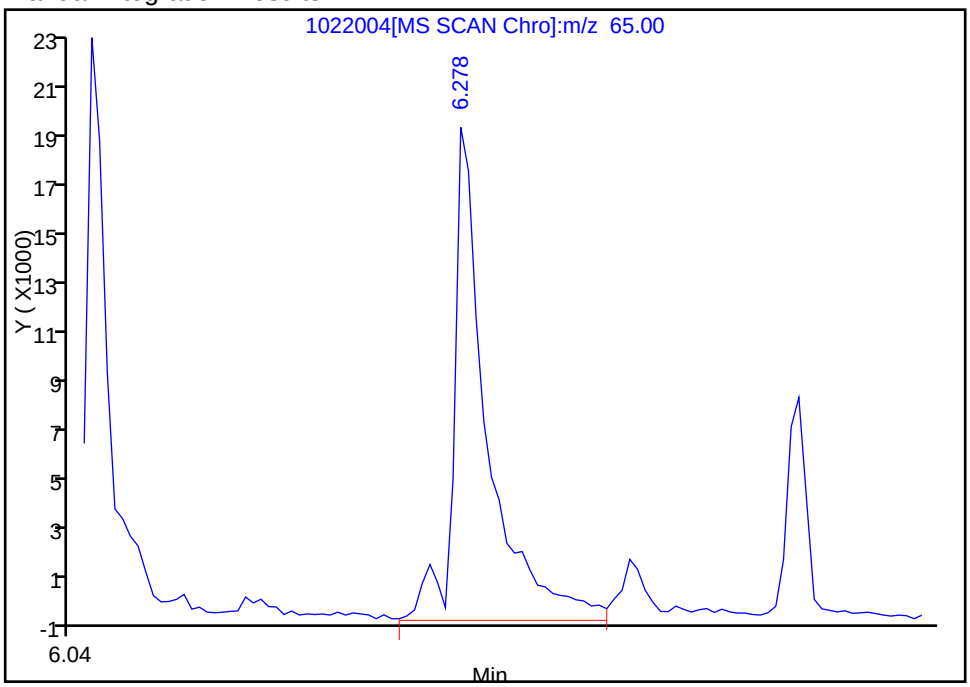
Processing Integration Results

RT: 6.28
Response: 20655
Amount: 7.997418



Manual Integration Results

RT: 6.28
Response: 27472
Amount: 10.939697



Reviewer: phelpsk, 23-Oct-2013 10:09:25
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022005.D
Lims ID: STD 3 Client ID:
Inject. Date: 22-Oct-2013 17:51:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: STD 3
Misc. Info.: 490-0027160-007
Operator: HP-31 Instrument ID: HP31
Injection Vol: 1.0 ul ALS Bottle#: 8
Lims Batch ID: 116166 Lims Sample ID: 7
Sublist: chrom-8270HP31*sub30
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\hp31\20131022-27160.b\8270HP31.m
Last Update: 24-Oct-2013 12:55:20 Calib Date: 22-Oct-2013 19:23:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022009.D
Limit Group: MSS 8270C ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK049

First Level Reviewer: phelpsk Date: 23-Oct-2013 10:07:04

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	4.010	4.009	0.001	93	168120	40.0	
4 1,4-Dioxane	88	1.819	1.813	0.006	91	19890	9.94	
5 N-Nitrosodimethylamine	74	2.129	2.114	0.015	80	23328	8.67	M
6 Pyridine	52	2.157	2.142	0.015	98	31628	9.71	M
$ 11 2-Fluorophenol	112	3.215	3.214	0.001	87	47270	9.61	
21 Benzaldehyde	105	3.737	3.736	0.001	87	21042	9.12	
17 Aniline	93	3.808	3.807	0.001	98	77747	9.91	
$ 15 Phenol-d5	99	3.827	3.821	0.006	0	64186	9.69	
16 Phenol	94	3.831	3.830	0.001	90	67586	9.68	
18 Bis(2-chloroethyl)ether	93	3.850	3.849	0.001	93	50613	9.87	
19 2-Chlorophenol	128	3.892	3.892	0.0	94	57958	9.94	
20 n-Decane	57	3.907	3.906	0.001	98	46344	9.89	
22 1,3-Dichlorobenzene	146	3.972	3.972	0.0	97	65657	10.3	
23 1,4-Dichlorobenzene	146	4.019	4.019	0.0	95	65397	10.2	
24 Benzyl alcohol	108	4.104	4.103	0.001	94	35803	9.22	
25 1,2-Dichlorobenzene	146	4.113	4.113	0.0	98	62956	10.1	
2 Indene	115	4.170	4.169	0.001	70	98256	10.2	
27 2,2'-oxybis[1-chloropropane]	121	4.184	4.183	0.001	93	19466	9.64	
26 2-Methylphenol	108	4.189	4.188	0.001	95	52948	10.0	
30 Acetophenone	105	4.259	4.263	-0.004	96	76410	10.2	
32 N-Nitrosodi-n-propylamine	70	4.259	4.263	-0.004	69	36801	9.91	
28 3 & 4 Methylphenol	108	4.287	4.287	0.0	0	56975	10.2	
33 Hexachloroethane	117	4.320	4.319	0.001	95	21489	10.0	
* 37 Naphthalene-d8	136	4.800	4.799	0.001	98	671179	40.0	
$ 46 Nitrobenzene-d5	82	4.353	4.357	-0.004	87	54362	9.91	
47 Nitrobenzene	77	4.367	4.366	0.001	78	51424	9.73	
48 Isophorone	82	4.513	4.512	0.001	96	99840	9.87	
49 2-Nitrophenol	139	4.565	4.564	0.001	87	32692	9.70	
50 2,4-Dimethylphenol	107	4.603	4.602	0.0	92	56322	10.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
52 Bis(2-chloroethoxy)methane	93	4.650	4.649	0.001	98	58486	9.66	
51 Benzoic acid	105	4.664	4.667	-0.003	76	36862	9.18	
53 2,4-Dichlorophenol	162	4.729	4.729	0.0	89	51008	10.1	
55 1,2,4-Trichlorobenzene	180	4.762	4.761	0.001	94	53394	10.3	
56 Naphthalene	128	4.809	4.813	-0.004	90	177300	10.4	
57 4-Chloroaniline	127	4.852	4.851	0.001	85	80823	10.3	
59 Hexachlorobutadiene	225	4.889	4.888	0.001	93	28155	10.3	
42 Caprolactam	113	5.068	5.072	-0.004	85	22789	8.85	
62 4-Chloro-3-methylphenol	107	5.190	5.189	0.001	91	53308	9.97	
65 2-Methylnaphthalene	142	5.270	5.269	0.001	83	132893	10.4	
66 1-Methylnaphthalene	142	5.336	5.335	0.001	81	124529	10.3	
45 1,2,4,5-Tetrachlorobenzene	216	5.388	5.387	0.001	93	56063	10.4	
43 1,1'-Biphenyl	154	5.613	5.613	0.0	93	161343	10.5	
* 72 Acenaphthene-d10	164	6.079	6.078	0.001	87	458910	40.0	
76 Hexachlorocyclopentadiene	237	5.378	5.377	0.001	87	9518	10.5	
77 2,4,6-Trichlorophenol	196	5.482	5.481	0.001	90	38610	10.0	
78 2,4,5-Trichlorophenol	196	5.529	5.528	0.001	95	40573	9.85	
$ 79 2-Fluorobiphenyl (Surr)	172	5.534	5.537	-0.003	99	148475	10.7	
83 2-Chloronaphthalene	162	5.628	5.627	0.001	89	120503	10.2	
84 2-Nitroaniline	65	5.712	5.711	0.001	91	29681	9.06	
85 Dimethyl phthalate	163	5.858	5.857	0.001	99	153288	10.4	
81 1,3-Dinitrobenzene	168	5.891	5.890	0.001	96	25221	8.53	
86 2,6-Dinitrotoluene	165	5.910	5.909	0.001	68	34979	9.74	
87 Acenaphthylene	152	5.961	5.961	0.0	90	207538	10.4	
88 3-Nitroaniline	138	6.055	6.055	0.0	94	41036	9.41	
89 Acenaphthene	153	6.107	6.106	0.001	93	133237	10.3	
90 2,4-Dinitrophenol	184	6.150	6.149	0.001	80	38135	18.3	
92 Dibenzofuran	168	6.262	6.261	0.001	86	191521	10.4	
93 2,4-Dinitrotoluene	165	6.262	6.261	0.001	59	49068	9.63	
91 4-Nitrophenol	65	6.276	6.271	0.005	84	49632	18.5	
96 2,3,4,6-Tetrachlorophenol	232	6.385	6.384	0.001	68	35507	9.82	
97 Diethyl phthalate	149	6.488	6.487	0.001	98	148925	10.2	
196 Hexadecane	57	6.507	6.506	0.001	0	65318	10.1	
99 Fluorene	166	6.577	6.577	0.001	84	162107	10.5	
98 4-Chlorophenyl phenyl ether	204	6.587	6.586	0.001	87	71502	10.2	
100 4-Nitroaniline	138	6.610	6.614	-0.004	84	40844	9.18	
101 Azobenzene	77	6.737	6.736	0.001	95	123884	10.1	
* 106 Phenanthrene-d10	188	7.527	7.526	0.001	97	845674	40.0	
116 4,6-Dinitro-2-methylphenol	198	6.639	6.642	-0.003	89	60237	19.1	
117 N-Nitrosodiphenylamine	169	6.704	6.703	0.001	57	99480	10.1	
$ 119 2,4,6-Tribromophenol	330	6.817	6.816	0.001	91	23773	9.41	
120 4-Bromophenyl phenyl ether	248	7.071	7.070	0.001	59	42090	9.81	
121 Hexachlorobenzene	284	7.118	7.117	0.001	90	49777	10.1	
112 Atrazine	200	7.264	7.268	-0.004	94	45326	10.3	
124 Pentachlorophenol	266	7.344	7.343	0.001	88	52443	19.0	
115 n-Octadecane	57	7.466	7.465	0.001	96	67775	9.75	
126 Phenanthrene	178	7.551	7.555	-0.004	94	233575	10.4	
129 Anthracene	178	7.607	7.606	0.001	96	234897	10.3	
131 Carbazole	167	7.805	7.804	0.001	81	245007	10.4	
132 Di-n-butyl phthalate	149	8.237	8.236	0.001	100	254488	10.2	
135 Fluoranthene	202	8.886	8.890	-0.004	97	266306	10.4	
* 140 Chrysene-d12	240	10.588	10.587	0.001	79	1046137	40.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
145 Benzidine	184	9.088	9.087	0.001	97	86377	9.70	
146 Pyrene	202	9.145	9.144	0.001	96	284165	10.4	
$ 147 Terphenyl-d14	244	9.370	9.374	-0.004	98	200685	10.0	
150 Butyl benzyl phthalate	149	9.996	9.995	0.001	93	119047	9.43	
152 Benzo[a]anthracene	228	10.574	10.573	0.001	99	276538	10.2	
151 3,3'-Dichlorobenzidine	252	10.584	10.583	0.001	62	100039	9.92	
153 Chrysene	228	10.617	10.616	0.001	93	272181	10.5	
154 Bis(2-ethylhexyl) phthalate	149	10.715	10.714	0.001	95	161844	9.64	
* 156 Perylene-d12	264	12.178	12.177	0.001	82	1115602	40.0	
158 Di-n-octyl phthalate	149	11.463	11.462	0.001	99	281389	9.24	
159 Benzo[b]fluoranthene	252	11.783	11.782	0.001	91	302696	10.1	
161 Benzo[k]fluoranthene	252	11.811	11.810	0.001	86	317754	10.1	
162 Benzo[a]pyrene	252	12.117	12.116	0.0	77	290840	10.2	
164 Indeno[1,2,3-cd]pyrene	276	13.203	13.207	-0.003	95	361031	10.2	
165 Dibenz(a,h)anthracene	278	13.231	13.230	0.001	82	305365	10.2	
166 Benzo[g,h,i]perylene	276	13.475	13.479	-0.004	90	304495	10.2	
S 172 Methyl Phenols,Total	1				0		20.2	
S 167 Total Cresols	1				0		20.2	

QC Flag Legend

Review Flags
M - Manually Integrated

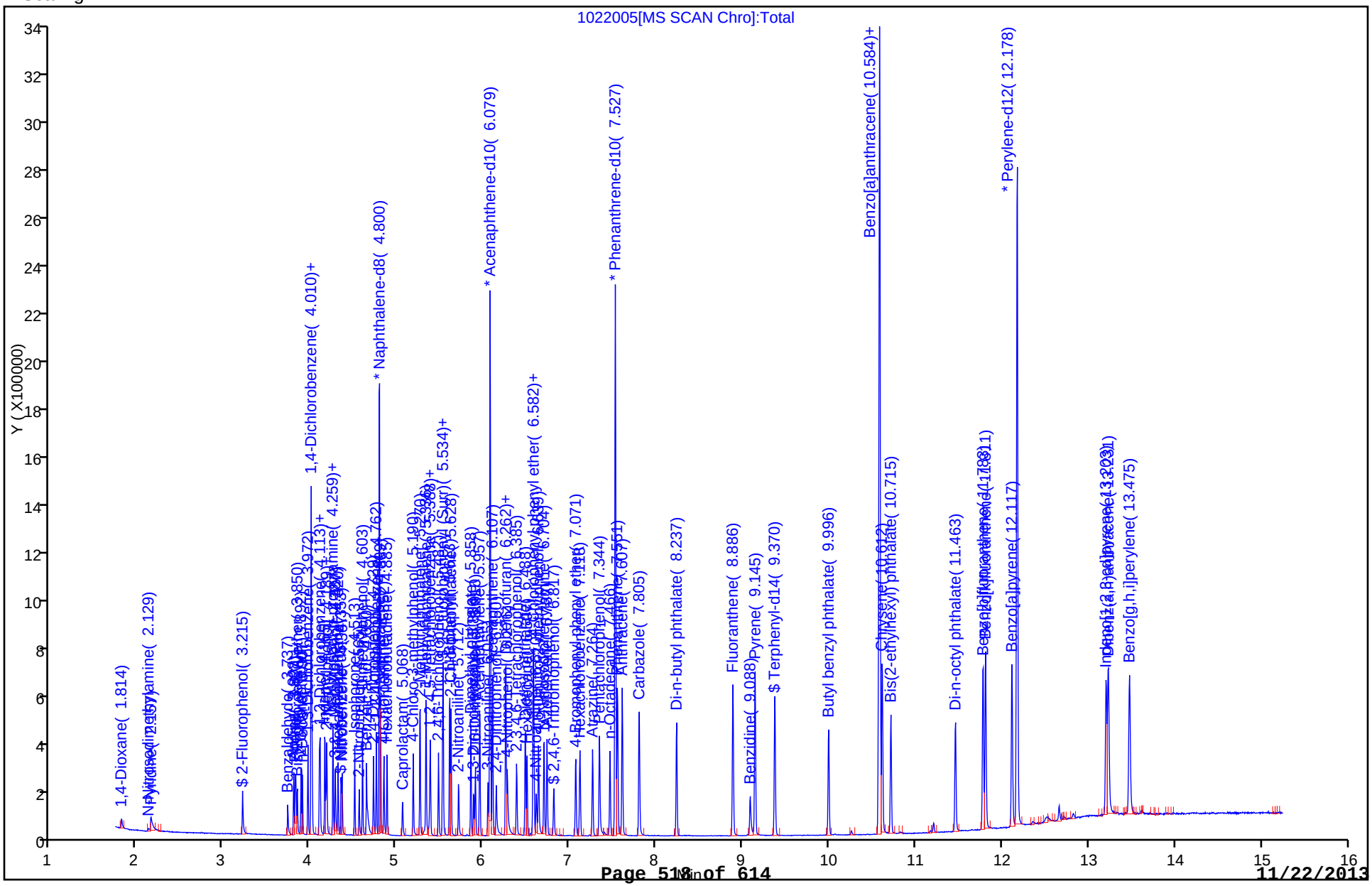
Report Date: 24-Oct-2013 12:55:20 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022005.D

Injection Date:	22-Oct-2013 17:51:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	7
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Manual Integration/User Assign Peak Report

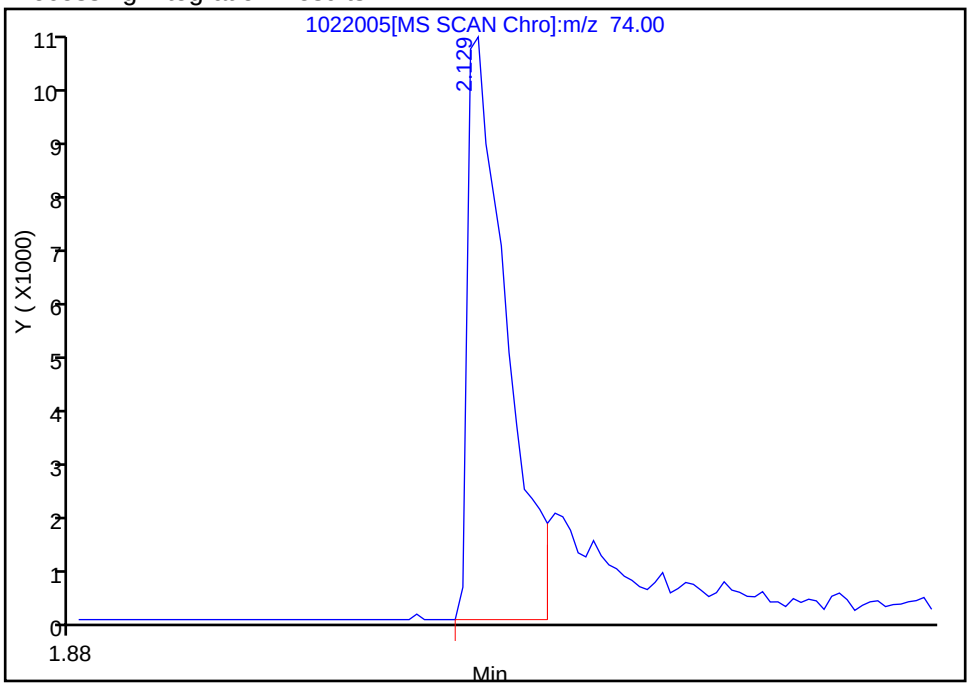
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022005.D		
Injection Date:	22-Oct-2013 17:51:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	7
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

5 N-Nitrosodimethylamine, Signal: 1, m/z: 74.0 Type: quant, RT: 2.11

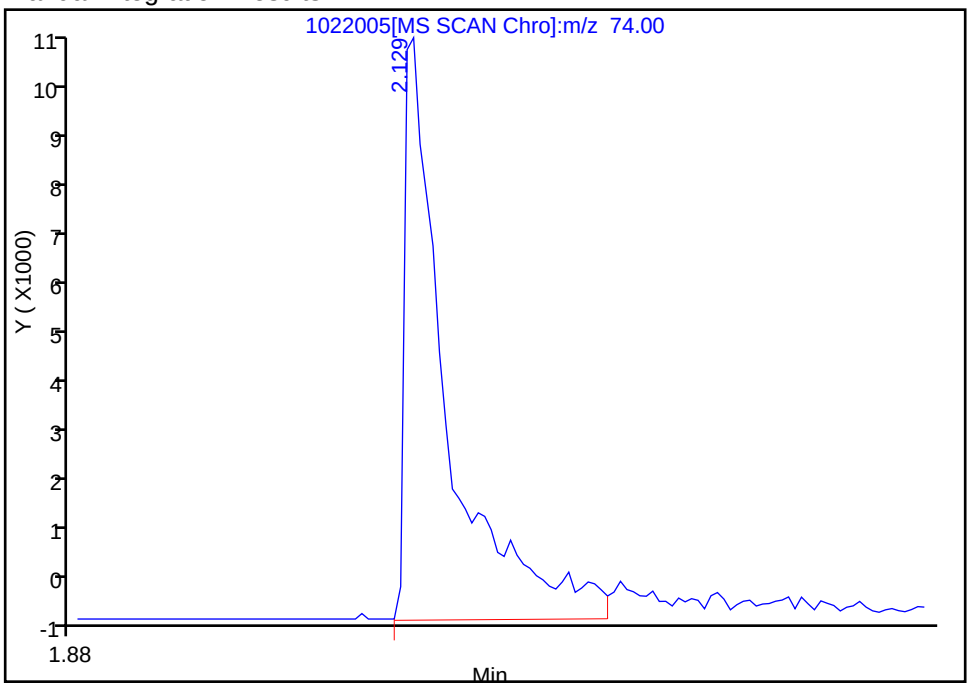
Processing Integration Results

RT: 2.13
Response: 17576
Amount: 7.901770



Manual Integration Results

RT: 2.13
Response: 23328
Amount: 8.666429



Reviewer: phelpsk, 23-Oct-2013 10:07:04
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

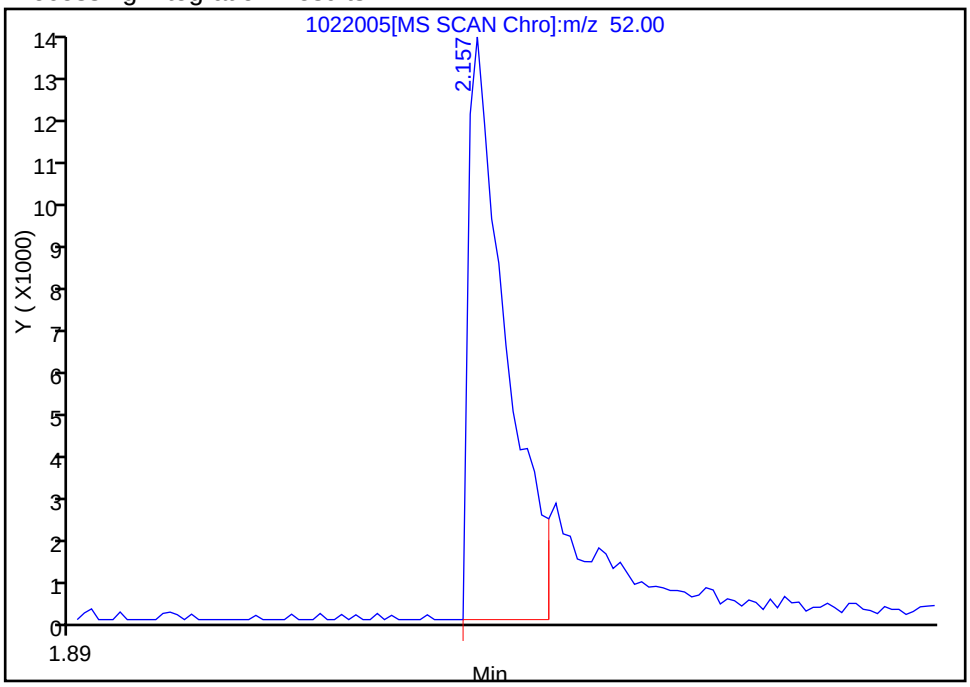
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022005.D		
Injection Date:	22-Oct-2013 17:51:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	7
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

6 Pyridine, Signal: 1, m/z: 52.0 Type: quant, RT: 2.14

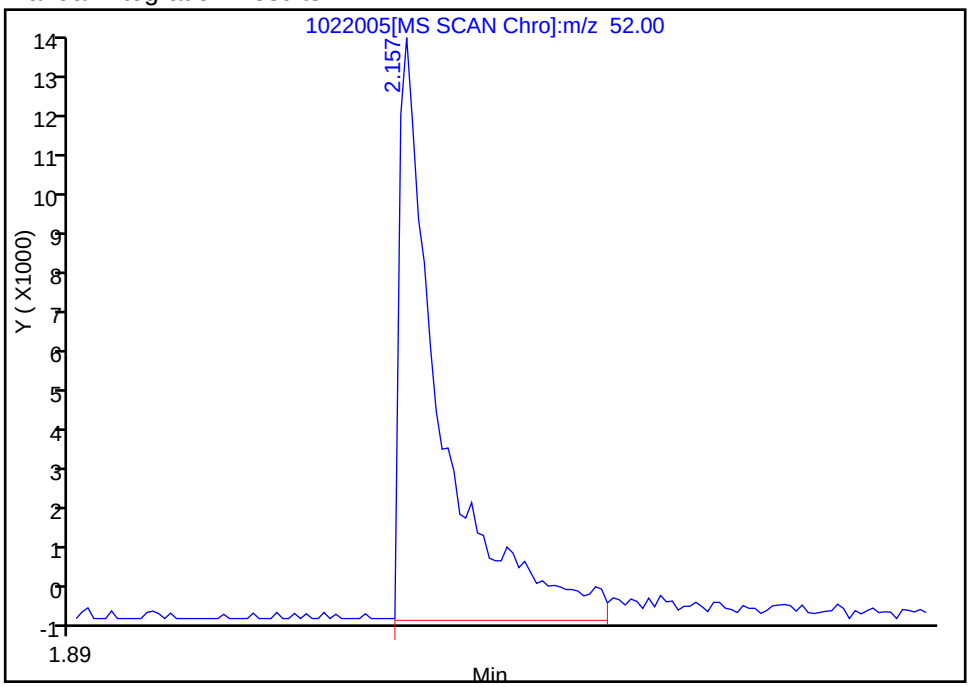
Processing Integration Results

RT: 2.16
Response: 23577
Amount: 8.737693



Manual Integration Results

RT: 2.16
Response: 31628
Amount: 9.708866



Reviewer: phelpsk, 23-Oct-2013 10:07:04
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022006.D
Lims ID: STD 4 Client ID:
Inject. Date: 22-Oct-2013 18:14:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: STD 4
Misc. Info.: 490-0027160-008
Operator: HP-31 Instrument ID: HP31
Injection Vol: 1.0 ul ALS Bottle#: 9
Lims Batch ID: 116166 Lims Sample ID: 8
Sublist: chrom-8270HP31*sub30
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\hp31\20131022-27160.b\8270HP31.m
Last Update: 24-Oct-2013 12:55:18 Calib Date: 22-Oct-2013 19:23:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022009.D
Limit Group: MSS 8270C ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK049

First Level Reviewer: phelpsk Date: 23-Oct-2013 10:05:45

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	4.009	4.009	0.0	93	169805	40.0	
4 1,4-Dioxane	88	1.813	1.813	0.0	93	36936	18.3	
5 N-Nitrosodimethylamine	74	2.114	2.114	0.0	82	50895	18.7	M
6 Pyridine	52	2.142	2.142	0.0	97	59960	18.2	
$ 11 2-Fluorophenol	112	3.214	3.214	0.0	88	97731	19.7	
21 Benzaldehyde	105	3.736	3.736	0.0	90	47782	20.5	
17 Aniline	93	3.807	3.807	0.0	99	161871	20.4	
$ 15 Phenol-d5	99	3.821	3.821	0.0	0	135882	20.3	
16 Phenol	94	3.830	3.830	0.0	91	141317	20.0	
18 Bis(2-chloroethyl)ether	93	3.849	3.849	0.0	93	101097	19.5	
19 2-Chlorophenol	128	3.892	3.892	0.0	94	118321	20.1	
20 n-Decane	57	3.906	3.906	0.0	97	90848	19.2	
22 1,3-Dichlorobenzene	146	3.972	3.972	0.0	98	129574	20.1	
23 1,4-Dichlorobenzene	146	4.019	4.019	0.0	94	129833	20.1	
24 Benzyl alcohol	108	4.103	4.103	0.0	95	78731	20.1	
25 1,2-Dichlorobenzene	146	4.113	4.113	0.0	98	127835	20.4	
2 Indene	115	4.169	4.169	0.0	75	194526	20.1	
27 2,2'-oxybis[1-chloropropane]	121	4.183	4.183	0.0	94	40563	19.9	
26 2-Methylphenol	108	4.188	4.188	0.0	93	106143	19.9	
30 Acetophenone	105	4.263	4.263	0.0	94	153514	20.3	
32 N-Nitrosodi-n-propylamine	70	4.263	4.263	0.0	70	74451	19.9	
28 3 & 4 Methylphenol	108	4.287	4.287	0.0	0	113792	20.1	
33 Hexachloroethane	117	4.319	4.319	0.0	97	42263	19.5	
* 37 Naphthalene-d8	136	4.799	4.799	0.0	98	687308	40.0	
$ 46 Nitrobenzene-d5	82	4.357	4.357	0.0	84	111971	19.9	
47 Nitrobenzene	77	4.366	4.366	0.0	80	106526	19.7	
48 Isophorone	82	4.512	4.512	0.0	96	205904	19.9	
49 2-Nitrophenol	139	4.564	4.564	0.0	87	70425	20.4	
50 2,4-Dimethylphenol	107	4.602	4.602	0.0	93	117667	20.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
52 Bis(2-chloroethoxy)methane	93	4.649	4.649	0.0	98	120846	19.5	
51 Benzoic acid	105	4.667	4.667	0.0	75	87706	18.3	
53 2,4-Dichlorophenol	162	4.729	4.729	0.0	89	108298	20.8	
55 1,2,4-Trichlorobenzene	180	4.761	4.761	0.0	95	105765	19.9	
56 Naphthalene	128	4.813	4.813	0.0	94	352953	20.2	
57 4-Chloroaniline	127	4.851	4.851	0.0	85	169103	21.1	
59 Hexachlorobutadiene	225	4.888	4.888	0.0	91	56295	20.0	
42 Caprolactam	113	5.072	5.072	0.0	82	51169	19.4	
62 4-Chloro-3-methylphenol	107	5.189	5.189	0.0	90	112064	20.5	
65 2-Methylnaphthalene	142	5.269	5.269	0.0	86	265118	20.3	
66 1-Methylnaphthalene	142	5.335	5.335	0.0	82	249127	20.2	
45 1,2,4,5-Tetrachlorobenzene	216	5.387	5.387	0.0	92	111922	20.2	
43 1,1'-Biphenyl	154	5.613	5.613	0.0	94	326076	20.8	
* 72 Acenaphthene-d10	164	6.078	6.078	0.0	87	476005	40.0	
76 Hexachlorocyclopentadiene	237	5.377	5.377	0.0	93	28818	18.0	
77 2,4,6-Trichlorophenol	196	5.481	5.481	0.0	88	81109	20.3	
78 2,4,5-Trichlorophenol	196	5.528	5.528	0.0	97	87462	20.5	
$ 79 2-Fluorobiphenyl (Surr)	172	5.537	5.537	0.0	99	294113	20.4	
83 2-Chloronaphthalene	162	5.627	5.627	0.0	94	250178	20.4	
84 2-Nitroaniline	65	5.711	5.711	0.0	91	68666	19.5	
85 Dimethyl phthalate	163	5.857	5.857	0.0	99	313109	20.5	
81 1,3-Dinitrobenzene	168	5.890	5.890	0.0	97	57528	18.8	
86 2,6-Dinitrotoluene	165	5.909	5.909	0.0	85	75303	20.2	
87 Acenaphthylene	152	5.961	5.961	0.0	93	429238	20.8	
88 3-Nitroaniline	138	6.055	6.055	0.0	90	91114	19.2	
89 Acenaphthene	153	6.106	6.106	0.0	93	272234	20.3	
90 2,4-Dinitrophenol	184	6.149	6.149	0.0	81	89035	35.6	
92 Dibenzofuran	168	6.261	6.261	0.0	85	389184	20.4	
93 2,4-Dinitrotoluene	165	6.261	6.261	0.0	81	103505	19.6	
91 4-Nitrophenol	65	6.271	6.271	0.0	83	110978	37.6	
96 2,3,4,6-Tetrachlorophenol	232	6.384	6.384	0.0	68	76172	20.3	
97 Diethyl phthalate	149	6.487	6.487	0.0	99	302901	20.0	
196 Hexadecane	57	6.506	6.506	0.0	0	131377	19.6	
99 Fluorene	166	6.577	6.577	0.0	83	325565	20.4	
98 4-Chlorophenyl phenyl ether	204	6.586	6.586	0.0	89	146649	20.1	
100 4-Nitroaniline	138	6.614	6.614	0.0	94	93717	19.2	
101 Azobenzene	77	6.736	6.736	0.0	96	253567	19.9	
* 106 Phenanthrene-d10	188	7.526	7.526	0.0	96	878417	40.0	
116 4,6-Dinitro-2-methylphenol	198	6.642	6.642	0.0	91	131004	37.7	
117 N-Nitrosodiphenylamine	169	6.703	6.703	0.0	58	206615	20.2	
$ 119 2,4,6-Tribromophenol	330	6.816	6.816	0.0	91	49956	19.0	
120 4-Bromophenyl phenyl ether	248	7.070	7.070	0.0	59	89833	20.2	
121 Hexachlorobenzene	284	7.117	7.117	0.0	94	101029	19.8	
112 Atrazine	200	7.268	7.268	0.0	94	94082	20.5	
124 Pentachlorophenol	266	7.343	7.343	0.0	87	115256	38.1	
115 n-Octadecane	57	7.465	7.465	0.0	96	141163	19.5	
126 Phenanthrene	178	7.555	7.555	0.0	96	474755	20.3	
129 Anthracene	178	7.606	7.606	0.0	96	490098	20.6	
131 Carbazole	167	7.804	7.804	0.0	82	495895	20.3	
132 Di-n-butyl phthalate	149	8.236	8.236	0.0	100	527797	20.4	
135 Fluoranthene	202	8.890	8.890	0.0	98	547601	20.6	
* 140 Chrysene-d12	240	10.587	10.587	0.0	80	1060281	40.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
145 Benzidine	184	9.087	9.087	0.0	99	182823	19.9	
146 Pyrene	202	9.144	9.144	0.0	95	567088	20.4	
$ 147 Terphenyl-d14	244	9.374	9.374	0.0	99	409256	20.2	
150 Butyl benzyl phthalate	149	9.995	9.995	0.0	94	250548	18.8	
152 Benzo[a]anthracene	228	10.573	10.573	0.0	99	549671	20.0	
151 3,3'-Dichlorobenzidine	252	10.583	10.583	0.0	61	204203	20.0	
153 Chrysene	228	10.616	10.616	0.0	91	532303	20.2	
154 Bis(2-ethylhexyl) phthalate	149	10.714	10.714	0.0	94	343165	19.4	
* 156 Perylene-d12	264	12.177	12.177	0.0	82	1099707	40.0	
158 Di-n-octyl phthalate	149	11.462	11.462	0.0	99	583870	18.7	
159 Benzo[b]fluoranthene	252	11.782	11.782	0.0	85	591810	19.9	
161 Benzo[k]fluoranthene	252	11.810	11.810	0.0	85	632021	20.5	
162 Benzo[a]pyrene	252	12.116	12.116	0.0	77	571437	20.3	
164 Indeno[1,2,3-cd]pyrene	276	13.207	13.207	0.0	91	703842	20.2	
165 Dibenz(a,h)anthracene	278	13.230	13.230	0.0	82	591630	20.1	
166 Benzo[g,h,i]perylene	276	13.479	13.479	0.0	93	591159	20.1	
S 167 Total Cresols	1				0		40.0	
S 172 Methyl Phenols,Total	1				0		40.0	

QC Flag Legend

Review Flags
M - Manually Integrated

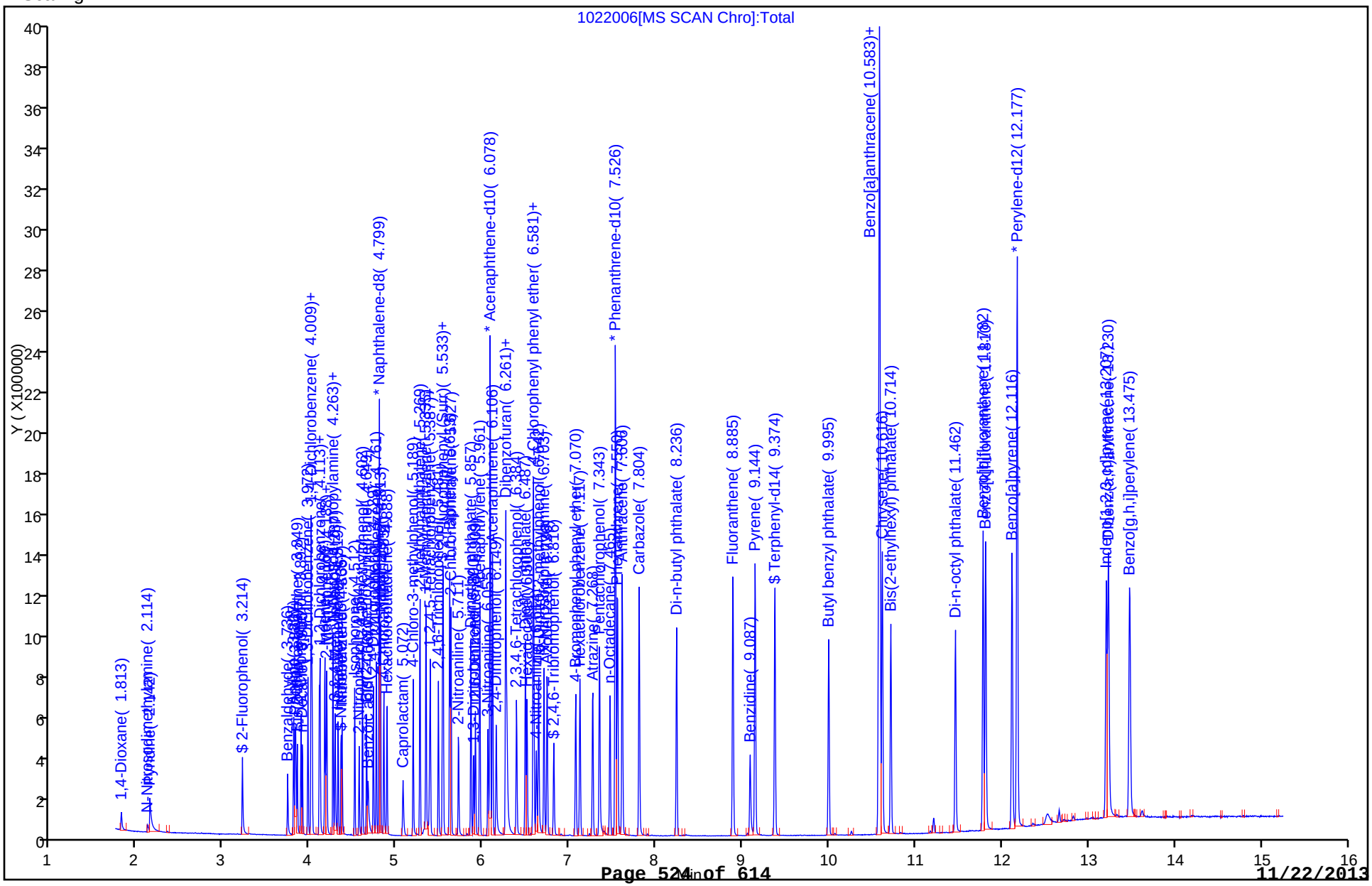
Report Date: 24-Oct-2013 12:55:18 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022006.D

Injection Date:	22-Oct-2013 18:14:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	8
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Manual Integration/User Assign Peak Report

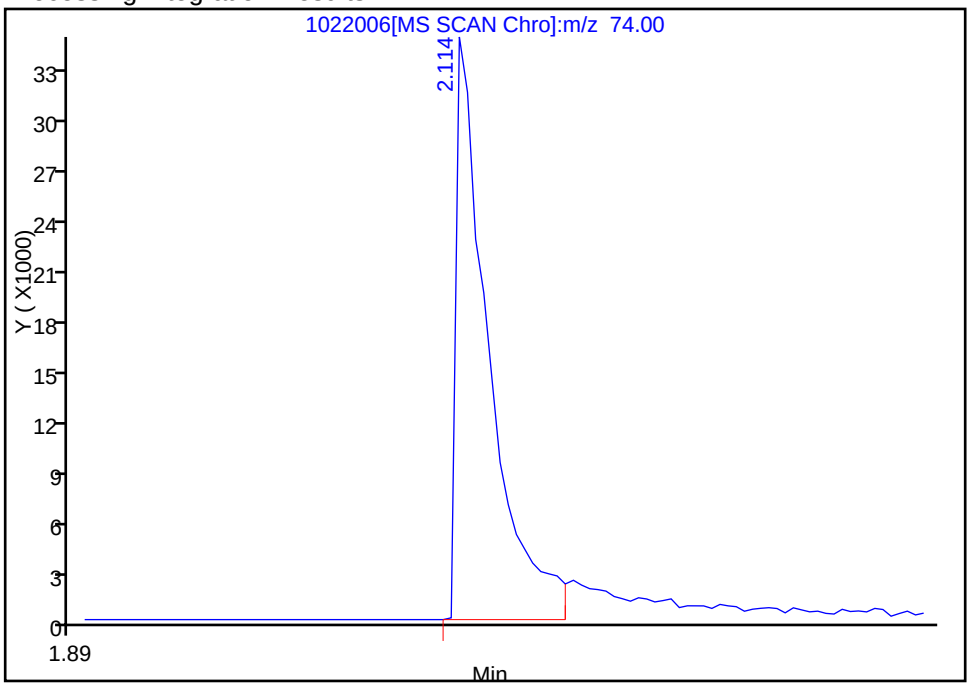
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022006.D		
Injection Date:	22-Oct-2013 18:14:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	8
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

5 N-Nitrosodimethylamine, Signal: 1, m/z: 74.0 Type: quant, RT: 2.11

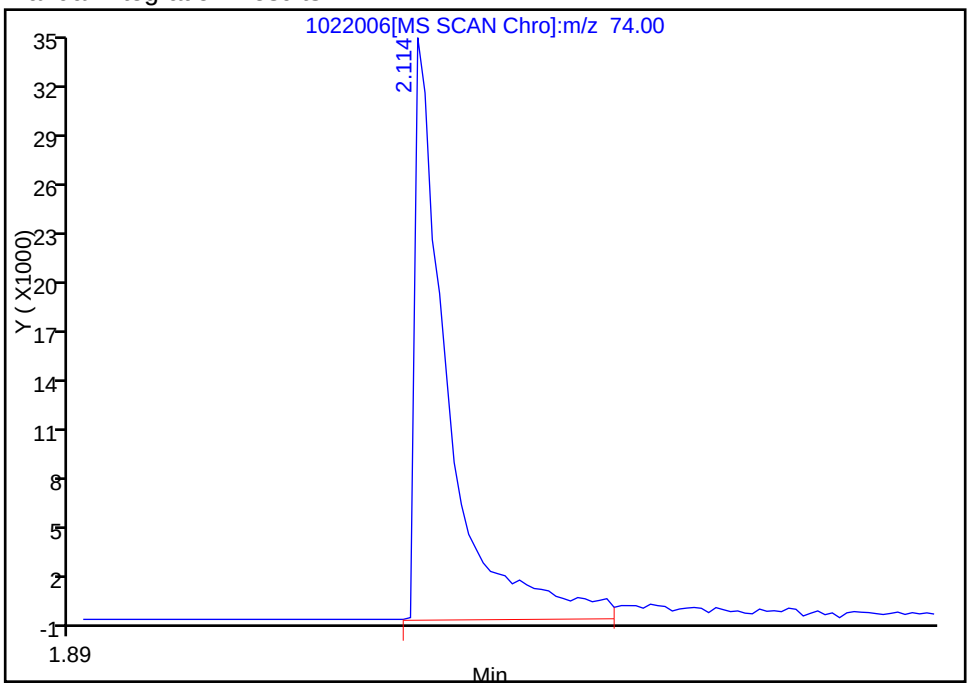
Processing Integration Results

RT: 2.11
Response: 45192
Amount: 20.487161



Manual Integration Results

RT: 2.11
Response: 50895
Amount: 18.720036



Reviewer: phelpsk, 23-Oct-2013 10:05:45
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022007.D
Lims ID: ICIS Client ID:
Inject. Date: 22-Oct-2013 18:37:30 Dil. Factor: 1.0000
Sample Type: ICIS Calib Level: 5
Sample ID: ICIS
Misc. Info.: 490-0027160-009
Operator: HP-31 Instrument ID: HP31
Injection Vol: 1.0 ul ALS Bottle#: 10
Lims Batch ID: 116166 Lims Sample ID: 9
Sublist: chrom-8270HP31*sub30
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\hp31\20131022-27160.b\8270HP31.m
Last Update: 24-Oct-2013 12:55:17 Calib Date: 22-Oct-2013 19:23:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022009.D
Limit Group: MSS 8270C ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK049

First Level Reviewer: phelpsk Date: 23-Oct-2013 10:55:54

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	4.010	4.010	0.0	93	156210	40.0	
4 1,4-Dioxane	88	1.814	1.814	0.0	92	98190	52.8	
5 N-Nitrosodimethylamine	74	2.110	2.110	0.0	94	133700	53.5	
6 Pyridine	52	2.134	2.134	0.0	96	166975	55.2	
$ 11 2-Fluorophenol	112	3.211	3.211	0.0	89	252566	55.3	
21 Benzaldehyde	105	3.737	3.737	0.0	88	120179	56.1	
17 Aniline	93	3.808	3.808	0.0	98	408084	56.0	
$ 15 Phenol-d5	99	3.822	3.822	0.0	0	337071	54.8	
16 Phenol	94	3.827	3.827	0.0	93	353601	54.5	
18 Bis(2-chloroethyl)ether	93	3.850	3.850	0.0	99	243287	51.1	
19 2-Chlorophenol	128	3.892	3.892	0.0	94	293303	54.1	
20 n-Decane	57	3.906	3.906	0.0	97	226156	51.9	
22 1,3-Dichlorobenzene	146	3.972	3.972	0.0	97	307773	51.9	
23 1,4-Dichlorobenzene	146	4.019	4.019	0.0	95	306478	51.5	
24 Benzyl alcohol	108	4.104	4.104	0.0	94	199369	55.3	
25 1,2-Dichlorobenzene	146	4.113	4.113	0.0	98	293358	50.8	
2 Indene	115	4.170	4.170	0.0	75	463317	51.9	
27 2,2'-oxybis[1-chloropropane]	121	4.184	4.184	0.0	95	97397	51.9	
26 2-Methylphenol	108	4.189	4.189	0.0	93	264144	53.9	
30 Acetophenone	105	4.264	4.264	0.0	95	375075	54.0	
32 N-Nitrosodi-n-propylamine	70	4.264	4.264	0.0	92	187416	54.3	
28 3 & 4 Methylphenol	108	4.287	4.287	0.0	0	287913	55.3	
33 Hexachloroethane	117	4.320	4.320	0.0	98	103974	52.1	
* 37 Naphthalene-d8	136	4.800	4.800	0.0	98	634089	40.0	
$ 46 Nitrobenzene-d5	82	4.358	4.358	0.0	84	277184	53.5	
47 Nitrobenzene	77	4.367	4.367	0.0	82	267175	53.5	
48 Isophorone	82	4.513	4.513	0.0	96	514957	53.9	
49 2-Nitrophenol	139	4.565	4.565	0.0	87	175335	55.1	
50 2,4-Dimethylphenol	107	4.602	4.602	0.0	92	282040	53.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
52 Bis(2-chloroethoxy)methane	93	4.649	4.649	0.0	99	300655	52.6	
51 Benzoic acid	105	4.687	4.687	0.0	84	247361	51.4	
53 2,4-Dichlorophenol	162	4.729	4.729	0.0	91	256688	53.5	
55 1,2,4-Trichlorobenzene	180	4.762	4.762	0.0	95	251190	51.1	
56 Naphthalene	128	4.814	4.814	0.0	96	822826	51.1	
57 4-Chloroaniline	127	4.852	4.852	0.0	85	409934	55.4	
59 Hexachlorobutadiene	225	4.889	4.889	0.0	91	132485	51.1	
42 Caprolactam	113	5.087	5.087	0.0	82	131086	53.9	
62 4-Chloro-3-methylphenol	107	5.190	5.190	0.0	90	275393	54.5	
65 2-Methylnaphthalene	142	5.270	5.270	0.0	86	625148	52.0	
66 1-Methylnaphthalene	142	5.336	5.336	0.0	81	585509	51.5	
45 1,2,4,5-Tetrachlorobenzene	216	5.388	5.388	0.0	94	259990	50.9	
43 1,1'-Biphenyl	154	5.613	5.613	0.0	94	747462	51.6	
* 72 Acenaphthene-d10	164	6.079	6.079	0.0	81	437485	40.0	
76 Hexachlorocyclopentadiene	237	5.378	5.378	0.0	93	96985	48.4	
77 2,4,6-Trichlorophenol	196	5.482	5.482	0.0	89	199470	54.2	
78 2,4,5-Trichlorophenol	196	5.529	5.529	0.0	96	209362	53.3	
$ 79 2-Fluorobiphenyl (Surr)	172	5.538	5.538	0.0	99	670726	50.5	
83 2-Chloronaphthalene	162	5.627	5.627	0.0	95	572987	50.9	
84 2-Nitroaniline	65	5.717	5.717	0.0	92	176962	53.5	
85 Dimethyl phthalate	163	5.863	5.863	0.0	99	725971	51.6	
81 1,3-Dinitrobenzene	168	5.891	5.891	0.0	89	150044	53.2	
86 2,6-Dinitrotoluene	165	5.914	5.914	0.0	80	188395	55.0	
87 Acenaphthylene	152	5.961	5.961	0.0	94	978481	51.6	
88 3-Nitroaniline	138	6.055	6.055	0.0	93	228981	51.2	
89 Acenaphthene	153	6.107	6.107	0.0	93	624907	50.8	
90 2,4-Dinitrophenol	184	6.154	6.154	0.0	80	254385	101.1	
92 Dibenzofuran	168	6.262	6.262	0.0	84	896010	51.2	
93 2,4-Dinitrotoluene	165	6.262	6.262	0.0	62	257012	52.9	
91 4-Nitrophenol	65	6.272	6.272	0.0	84	290223	103.3	
96 2,3,4,6-Tetrachlorophenol	232	6.385	6.385	0.0	71	184922	53.6	
97 Diethyl phthalate	149	6.493	6.493	0.0	98	739196	53.1	
196 Hexadecane	57	6.507	6.507	0.0	0	332045	53.8	
99 Fluorene	166	6.582	6.582	0.0	83	747977	51.0	
98 4-Chlorophenyl phenyl ether	204	6.587	6.587	0.0	90	340270	50.7	
100 4-Nitroaniline	138	6.620	6.620	0.0	93	239258	51.8	
101 Azobenzene	77	6.742	6.742	0.0	96	629230	53.6	
* 106 Phenanthrene-d10	188	7.532	7.532	0.0	97	793410	40.0	
116 4,6-Dinitro-2-methylphenol	198	6.648	6.648	0.0	83	340319	104.4	
117 N-Nitrosodiphenylamine	169	6.704	6.704	0.0	58	483321	52.4	
$ 119 2,4,6-Tribromophenol	330	6.817	6.817	0.0	92	125005	52.7	
120 4-Bromophenyl phenyl ether	248	7.071	7.071	0.0	59	214405	53.3	
121 Hexachlorobenzene	284	7.123	7.123	0.0	94	239160	51.8	
112 Atrazine	200	7.273	7.273	0.0	92	226311	54.6	
124 Pentachlorophenol	266	7.348	7.348	0.0	87	293150	103.8	
115 n-Octadecane	57	7.466	7.466	0.0	97	361527	55.4	
126 Phenanthrene	178	7.555	7.555	0.0	97	1068657	50.6	
129 Anthracene	178	7.612	7.612	0.0	97	1116258	52.0	
131 Carbazole	167	7.805	7.805	0.0	82	1152604	52.2	
132 Di-n-butyl phthalate	149	8.237	8.237	0.0	100	1278312	54.8	
135 Fluoranthene	202	8.891	8.891	0.0	98	1247829	52.0	
* 140 Chrysene-d12	240	10.588	10.588	0.0	79	912421	40.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
145 Benzidine	184	9.088	9.088	0.0	99	427112	53.4	
146 Pyrene	202	9.145	9.145	0.0	94	1274378	53.4	
$ 147 Terphenyl-d14	244	9.375	9.375	0.0	97	934122	53.5	
150 Butyl benzyl phthalate	149	9.996	9.996	0.0	94	624825	53.0	
152 Benzo[a]anthracene	228	10.579	10.579	0.0	90	1235191	52.1	
151 3,3'-Dichlorobenzidine	252	10.584	10.584	0.0	68	480926	54.7	
153 Chrysene	228	10.621	10.621	0.0	93	1137985	50.1	
154 Bis(2-ethylhexyl) phthalate	149	10.715	10.715	0.0	95	827126	53.0	
* 156 Perylene-d12	264	12.178	12.178	0.0	82	914700	40.0	
158 Di-n-octyl phthalate	149	11.463	11.463	0.0	99	1434574	54.1	
159 Benzo[b]fluoranthene	252	11.787	11.787	0.0	86	1328790	53.8	
161 Benzo[k]fluoranthene	252	11.815	11.815	0.0	85	1317241	51.3	
162 Benzo[a]pyrene	252	12.121	12.121	0.0	75	1245089	53.1	
164 Indeno[1,2,3-cd]pyrene	276	13.212	13.212	0.0	94	1516187	52.2	
165 Dibenz(a,h)anthracene	278	13.236	13.236	0.0	74	1270130	52.0	
166 Benzo[g,h,i]perylene	276	13.485	13.485	0.0	92	1264555	51.8	
S 167 Total Cresols	1				0		109.2	
S 172 Methyl Phenols,Total	1				0		109.2	

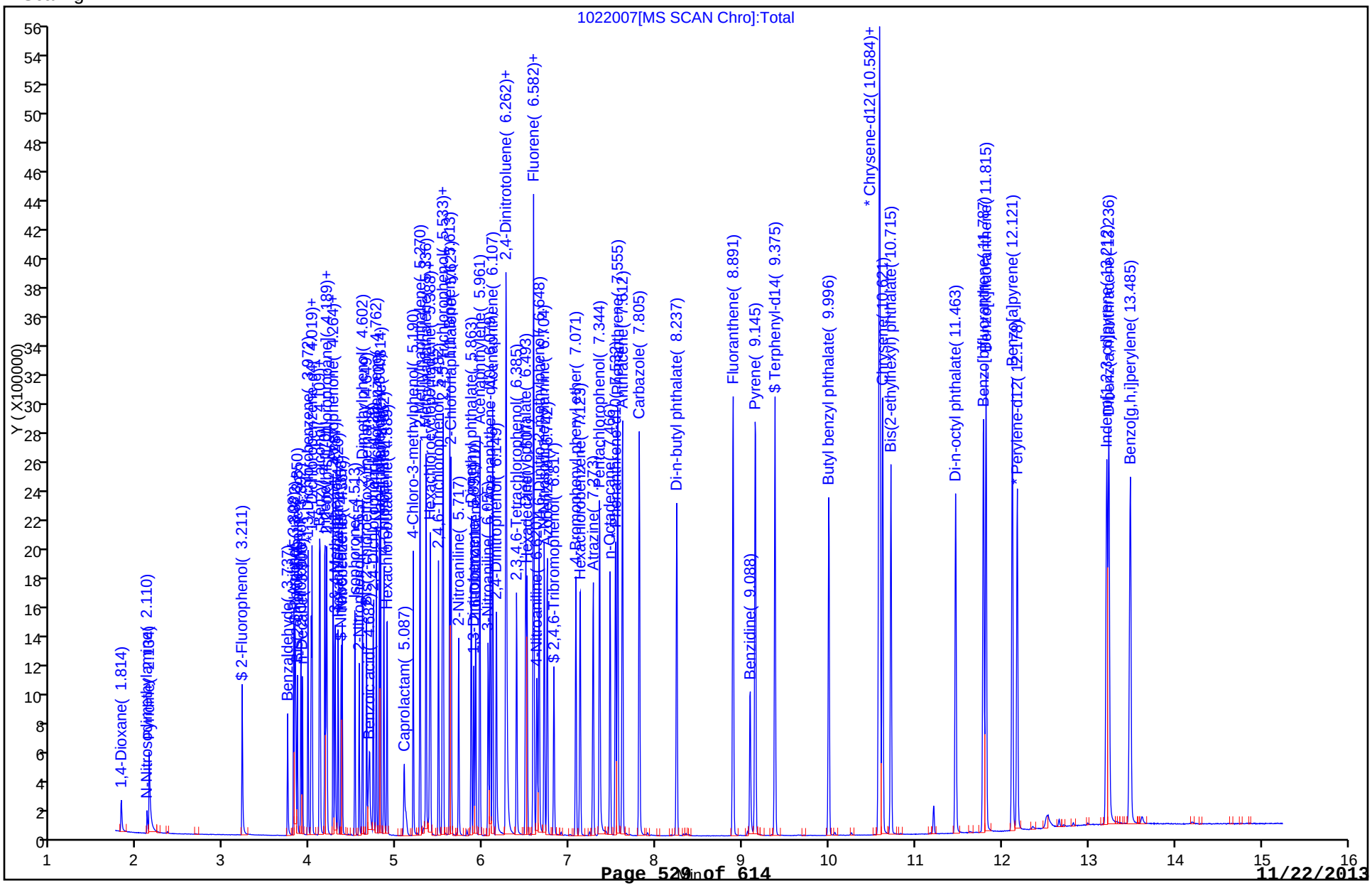
Report Date: 24-Oct-2013 12:55:17 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022007.D

Injection Date:	22-Oct-2013 18:37:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	9
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022008.D
Lims ID: STD 6 Client ID:
Inject. Date: 22-Oct-2013 19:00:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: STD 6
Misc. Info.: 490-0027160-010
Operator: HP-31 Instrument ID: HP31
Injection Vol: 1.0 ul ALS Bottle#: 11
Lims Batch ID: 116166 Lims Sample ID: 10
Sublist: chrom-8270HP31*sub30
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\hp31\20131022-27160.b\8270HP31.m
Last Update: 24-Oct-2013 12:55:15 Calib Date: 22-Oct-2013 19:23:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022009.D
Limit Group: MSS 8270C ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK049

First Level Reviewer: phelpsk Date: 23-Oct-2013 10:01:41

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	4.010	4.010	0.0	94	162450	40.0	
4 1,4-Dioxane	88	1.809	1.814	-0.005	94	160331	82.9	
5 N-Nitrosodimethylamine	74	2.110	2.110	0.0	91	234786	90.3	
6 Pyridine	52	2.133	2.134	-0.001	96	273193	86.8	
$ 11 2-Fluorophenol	112	3.210	3.211	-0.001	89	417610	87.8	
21 Benzaldehyde	105	3.737	3.737	0.0	87	193235	86.7	
17 Aniline	93	3.807	3.808	-0.001	98	658126	86.8	
$ 15 Phenol-d5	99	3.821	3.822	-0.001	0	541828	84.6	
16 Phenol	94	3.826	3.827	-0.001	93	565665	83.8	
18 Bis(2-chloroethyl)ether	93	3.850	3.850	0.0	99	392658	79.3	
19 2-Chlorophenol	128	3.892	3.892	0.0	93	465267	82.5	
20 n-Decane	57	3.911	3.906	0.005	97	348333	76.9	
22 1,3-Dichlorobenzene	146	3.972	3.972	0.0	97	486576	78.9	
23 1,4-Dichlorobenzene	146	4.019	4.019	0.0	93	483728	78.1	
24 Benzyl alcohol	108	4.108	4.104	0.004	95	318125	84.8	
25 1,2-Dichlorobenzene	146	4.113	4.113	0.0	97	468244	78.0	
2 Indene	115	4.169	4.170	-0.001	72	715409	77.1	
27 2,2'-oxybis[1-chloropropane]	121	4.184	4.184	0.0	95	155635	79.8	
26 2-Methylphenol	108	4.188	4.189	-0.001	93	424066	83.2	
30 Acetophenone	105	4.263	4.264	-0.001	95	592868	82.1	
32 N-Nitrosodi-n-propylamine	70	4.268	4.264	0.004	89	297767	83.0	
28 3 & 4 Methylphenol	108	4.287	4.287	0.0	0	457138	84.4	
33 Hexachloroethane	117	4.320	4.320	0.0	98	166634	80.3	
* 37 Naphthalene-d8	136	4.800	4.800	0.0	99	656428	40.0	
$ 46 Nitrobenzene-d5	82	4.358	4.358	0.0	85	452290	84.3	
47 Nitrobenzene	77	4.372	4.367	0.005	79	426768	82.6	
48 Isophorone	82	4.517	4.513	0.004	95	802991	81.2	
49 2-Nitrophenol	139	4.564	4.565	-0.001	89	287952	87.4	
50 2,4-Dimethylphenol	107	4.602	4.602	0.0	92	441680	80.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
52 Bis(2-chloroethoxy)methane	93	4.654	4.649	0.005	98	480936	81.2	
51 Benzoic acid	105	4.696	4.687	0.009	79	428334	84.4	
53 2,4-Dichlorophenol	162	4.729	4.729	0.0	89	413450	83.3	
55 1,2,4-Trichlorobenzene	180	4.762	4.762	0.0	91	399974	78.7	
56 Naphthalene	128	4.814	4.814	0.0	97	1234244	74.0	
57 4-Chloroaniline	127	4.851	4.852	-0.001	84	634793	82.9	
59 Hexachlorobutadiene	225	4.889	4.889	0.0	91	209398	78.0	
42 Caprolactam	113	5.096	5.087	0.009	84	219132	87.0	M
62 4-Chloro-3-methylphenol	107	5.190	5.190	0.0	89	439027	84.0	
65 2-Methylnaphthalene	142	5.270	5.270	0.0	86	967651	77.7	
66 1-Methylnaphthalene	142	5.340	5.336	0.004	80	916722	77.8	
45 1,2,4,5-Tetrachlorobenzene	216	5.387	5.388	-0.001	95	415473	78.6	
43 1,1'-Biphenyl	154	5.613	5.613	0.0	95	1154601	77.0	
* 72 Acenaphthene-d10	164	6.083	6.079	0.004	81	446714	40.0	
76 Hexachlorocyclopentadiene	237	5.378	5.378	0.0	95	180248	82.8	
77 2,4,6-Trichlorophenol	196	5.481	5.482	-0.001	86	319567	85.0	
78 2,4,5-Trichlorophenol	196	5.528	5.529	-0.001	97	348495	86.9	
$ 79 2-Fluorobiphenyl (Surr)	172	5.538	5.538	0.0	99	1022342	75.4	
83 2-Chloronaphthalene	162	5.627	5.627	0.0	96	895490	77.9	
84 2-Nitroaniline	65	5.716	5.717	-0.001	90	289049	85.1	
85 Dimethyl phthalate	163	5.867	5.863	0.004	99	1128089	78.6	
81 1,3-Dinitrobenzene	168	5.895	5.891	0.004	97	248959	86.5	
86 2,6-Dinitrotoluene	165	5.914	5.914	0.0	86	306862	87.7	
87 Acenaphthylene	152	5.961	5.961	0.0	91	1492118	77.1	
88 3-Nitroaniline	138	6.060	6.055	0.005	92	383816	83.5	
89 Acenaphthene	153	6.111	6.107	0.004	94	964650	76.8	
90 2,4-Dinitrophenol	184	6.154	6.154	0.0	83	448215	171.2	
92 Dibenzofuran	168	6.262	6.262	0.0	84	1374695	77.0	
93 2,4-Dinitrotoluene	165	6.267	6.262	0.005	78	413939	83.5	
91 4-Nitrophenol	65	6.271	6.272	-0.001	89	477610	165.3	
96 2,3,4,6-Tetrachlorophenol	232	6.389	6.385	0.005	66	306333	87.0	
97 Diethyl phthalate	149	6.497	6.493	0.004	99	1145738	80.6	
196 Hexadecane	57	6.506	6.507	-0.001	0	506221	80.3	
99 Fluorene	166	6.582	6.582	0.0	83	1152729	76.9	
98 4-Chlorophenyl phenyl ether	204	6.586	6.587	-0.001	87	544770	79.4	
100 4-Nitroaniline	138	6.629	6.620	0.009	93	398634	83.9	
101 Azobenzene	77	6.742	6.742	0.0	96	973103	81.2	
* 106 Phenanthrene-d10	188	7.531	7.532	-0.001	96	832715	40.0	
116 4,6-Dinitro-2-methylphenol	198	6.652	6.648	0.004	84	574592	166.7	
117 N-Nitrosodiphenylamine	169	6.709	6.704	0.005	58	763360	78.9	
$ 119 2,4,6-Tribromophenol	330	6.821	6.817	0.004	88	209719	84.3	
120 4-Bromophenyl phenyl ether	248	7.075	7.071	0.004	58	349534	82.7	
121 Hexachlorobenzene	284	7.122	7.123	-0.001	94	384555	79.4	
112 Atrazine	200	7.278	7.273	0.005	93	362520	83.3	
124 Pentachlorophenol	266	7.348	7.348	0.0	86	487835	163.6	
115 n-Octadecane	57	7.470	7.466	0.004	98	566827	82.8	
126 Phenanthrene	178	7.560	7.555	0.005	97	1669246	75.3	
129 Anthracene	178	7.611	7.612	-0.001	98	1692998	75.1	
131 Carbazole	167	7.809	7.805	0.004	82	1794580	77.5	
132 Di-n-butyl phthalate	149	8.241	8.237	0.004	100	1980465	80.8	
135 Fluoranthene	202	8.895	8.891	0.004	98	1967544	78.1	
* 140 Chrysene-d12	240	10.593	10.588	0.005	80	970707	40.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
145 Benzidine	184	9.088	9.088	0.0	99	703463	82.5	
146 Pyrene	202	9.149	9.145	0.004	93	1974557	77.8	
$ 147 Terphenyl-d14	244	9.379	9.375	0.004	98	1508391	81.2	
150 Butyl benzyl phthalate	149	10.000	9.996	0.004	94	1040507	82.6	
152 Benzo[a]anthracene	228	10.578	10.579	-0.001	89	2023991	80.3	
151 3,3'-Dichlorobenzidine	252	10.588	10.584	0.004	76	808797	86.4	
153 Chrysene	228	10.625	10.621	0.004	93	1832461	75.9	
154 Bis(2-ethylhexyl) phthalate	149	10.715	10.715	0.0	95	1342071	80.5	
* 156 Perylene-d12	264	12.177	12.178	-0.001	81	938642	40.0	
158 Di-n-octyl phthalate	149	11.462	11.463	-0.001	100	2280796	83.5	
159 Benzo[b]fluoranthene	252	11.792	11.787	0.005	86	2132825	84.2	
161 Benzo[k]fluoranthene	252	11.820	11.815	0.005	84	2071975	78.6	
162 Benzo[a]pyrene	252	12.125	12.121	0.004	76	1984298	82.5	
164 Indeno[1,2,3-cd]pyrene	276	13.216	13.212	0.004	90	2427807	81.5	M
165 Dibenz(a,h)anthracene	278	13.245	13.236	0.009	82	2019348	80.5	
166 Benzo[g,h,i]perylene	276	13.494	13.485	0.009	88	2005440	80.1	
S 167 Total Cresols	1				0		167.6	
S 172 Methyl Phenols,Total	1				0		167.6	

QC Flag Legend

Review Flags
M - Manually Integrated

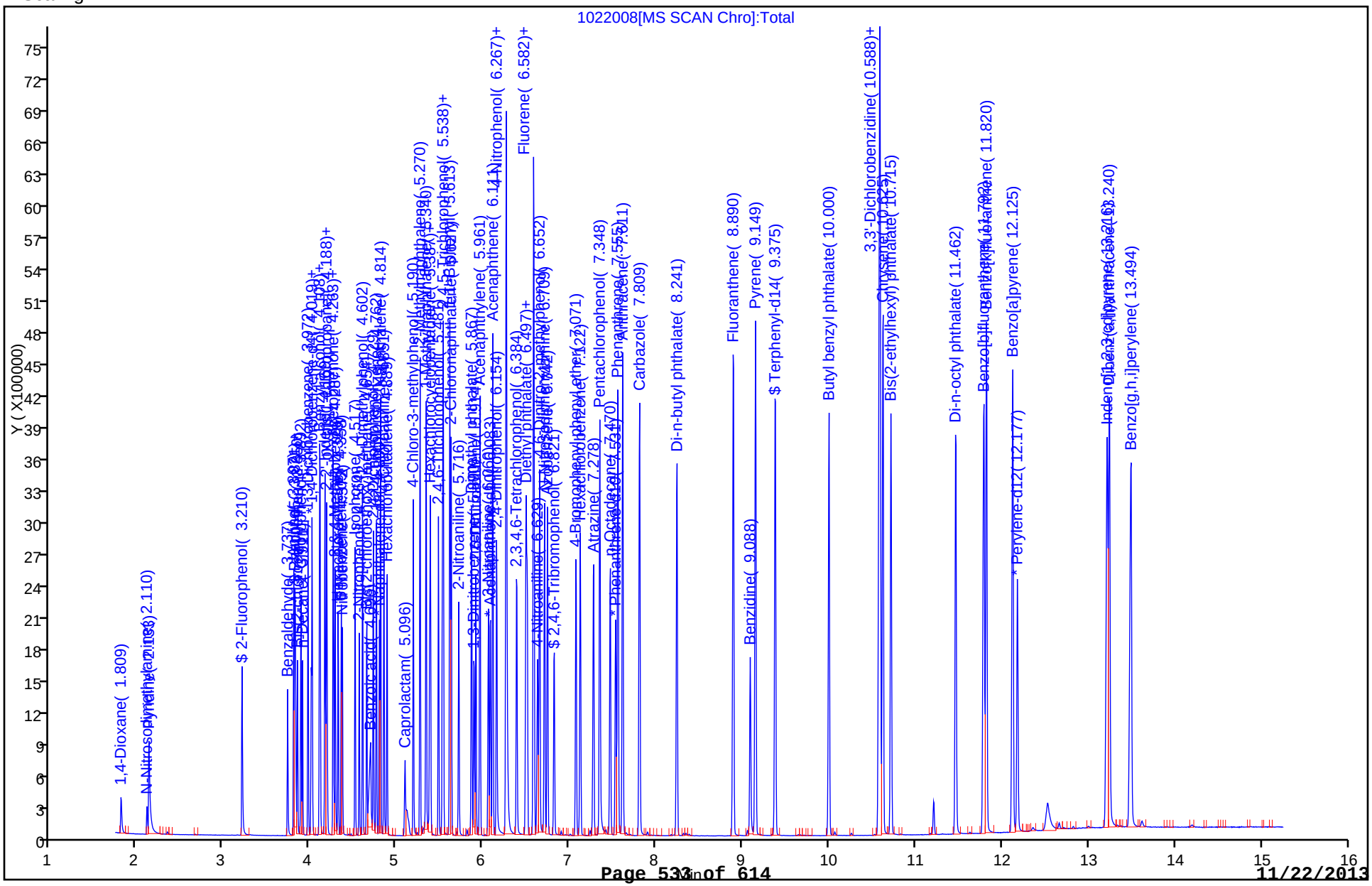
Report Date: 24-Oct-2013 12:55:15 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022008.D

Injection Date:	22-Oct-2013 19:00:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	10
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Manual Integration/User Assign Peak Report

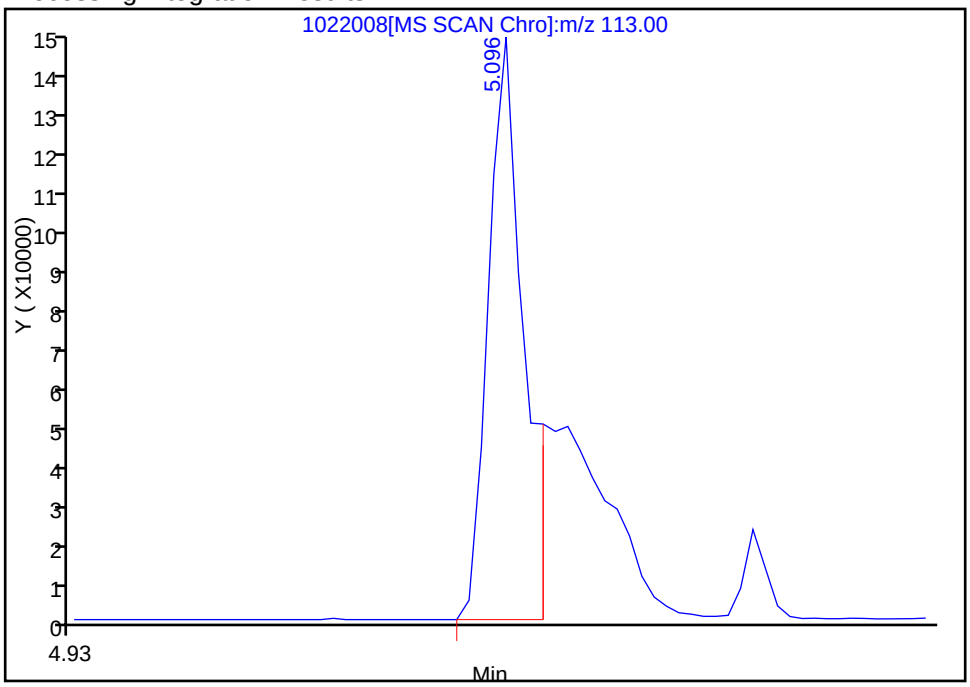
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022008.D		
Injection Date:	22-Oct-2013 19:00:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	10
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

42 Caprolactam, Signal: 1, m/z: 113.0 Type: quant, RT: 5.09

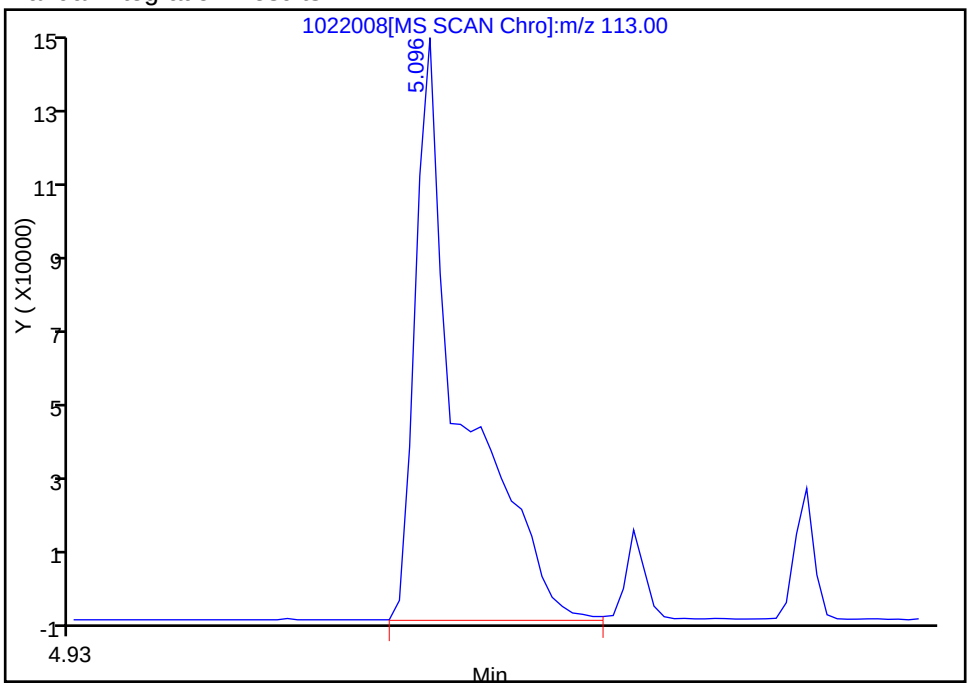
Processing Integration Results

RT: 5.10
Response: 139618
Amount: 66.100399



Manual Integration Results

RT: 5.10
Response: 219132
Amount: 86.992321



Reviewer: phelpsk, 23-Oct-2013 10:01:41
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

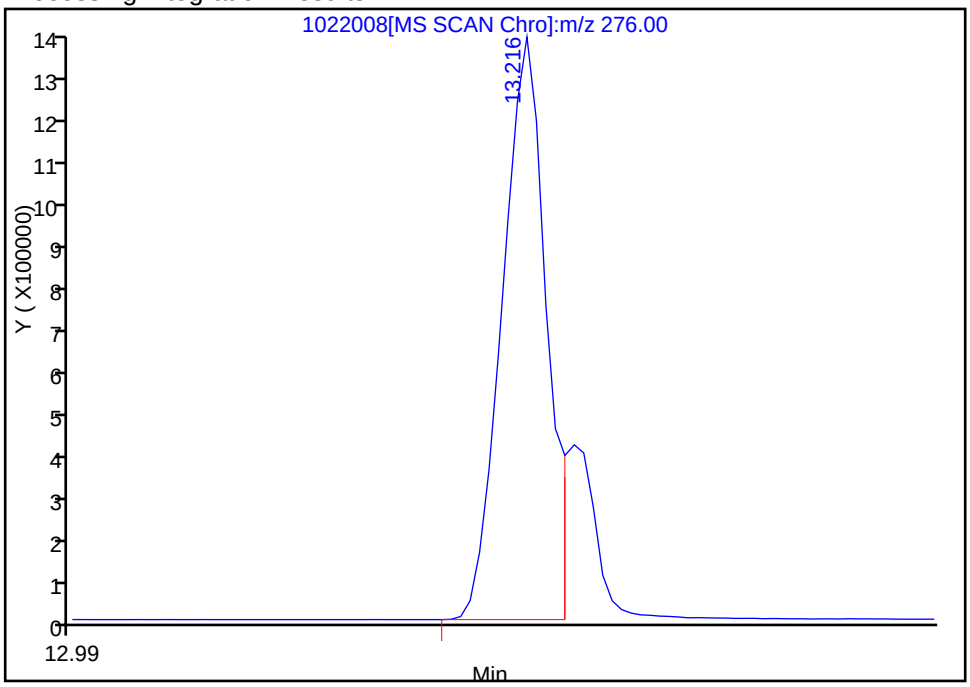
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022008.D		
Injection Date:	22-Oct-2013 19:00:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	10
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

164 Indeno[1,2,3-cd]pyrene, Signal: 1, m/z: 276.0 Type: quant, RT: 13.21

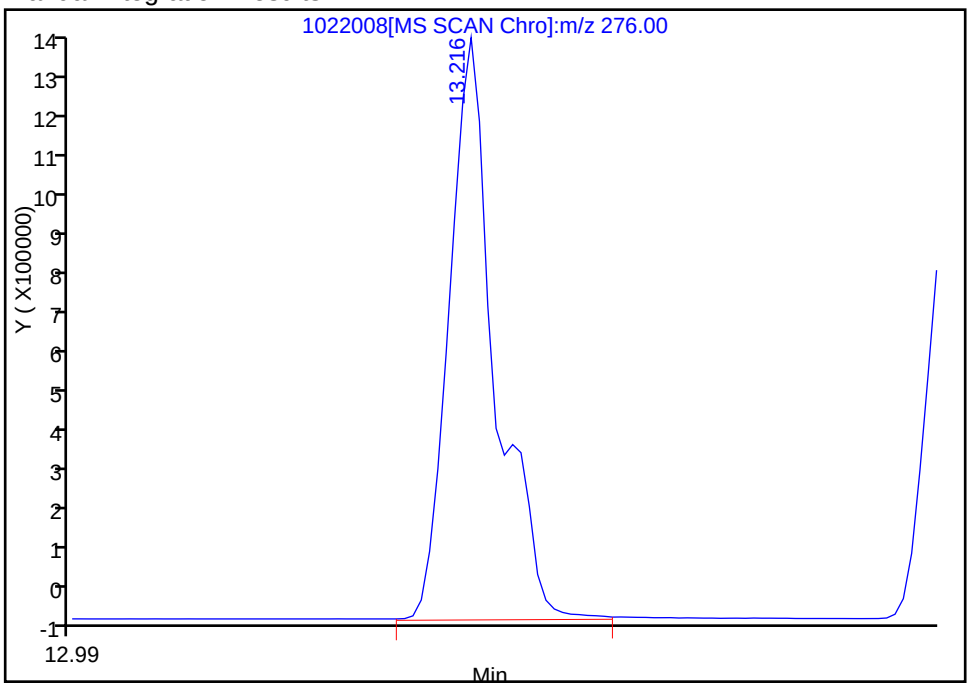
Processing Integration Results

RT: 13.22
Response: 2054524
Amount: 70.560147



Manual Integration Results

RT: 13.22
Response: 2427807
Amount: 81.514019



Reviewer: phelpsk, 23-Oct-2013 10:02:59
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022009.D		
Lims ID:	STD 7	Client ID:	
Inject. Date:	22-Oct-2013 19:23:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	STD 7		
Misc. Info.:	490-0027160-011		
Operator:	HP-31	Instrument ID:	HP31
Injection Vol:	1.0 ul	ALS Bottle#:	12
Lims Batch ID:	116166	Lims Sample ID:	11
Sublist:	chrom-8270HP31*sub30		
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\8270HP31.m		
Last Update:	24-Oct-2013 12:55:14	Calib Date:	22-Oct-2013 19:23:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022009.D		
Limit Group:	MSS 8270C ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK049		
First Level Reviewer: phelpsk		Date:	23-Oct-2013 10:02:45

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	4.008	4.010	-0.002	95	159890	40.0	
4 1,4-Dioxane	88	1.812	1.814	-0.002	93	194578	102.2	
5 N-Nitrosodimethylamine	74	2.109	2.110	-0.001	92	291499	113.9	
6 Pyridine	52	2.132	2.134	-0.002	96	341440	110.2	
$ 11 2-Fluorophenol	112	3.209	3.211	-0.002	89	504058	107.7	
21 Benzaldehyde	105	3.736	3.737	-0.001	88	230656	105.1	
17 Aniline	93	3.806	3.808	-0.002	97	780999	104.6	
$ 15 Phenol-d5	99	3.820	3.822	-0.002	0	641489	101.8	
16 Phenol	94	3.830	3.827	0.003	94	642307	96.7	
18 Bis(2-chloroethyl)ether	93	3.853	3.850	0.003	98	470144	96.4	
19 2-Chlorophenol	128	3.891	3.892	-0.001	95	558779	100.7	
20 n-Decane	57	3.910	3.906	0.004	96	418587	93.9	
22 1,3-Dichlorobenzene	146	3.971	3.972	-0.001	98	583287	96.1	
23 1,4-Dichlorobenzene	146	4.022	4.019	0.003	95	574456	94.2	
24 Benzyl alcohol	108	4.107	4.104	0.003	92	375715	101.8	
25 1,2-Dichlorobenzene	146	4.112	4.113	-0.001	97	560165	94.8	
2 Indene	115	4.168	4.170	-0.002	76	840594	92.0	
27 2,2'-oxybis[1-chloropropane]	121	4.182	4.184	-0.002	93	189683	98.8	
26 2-Methylphenol	108	4.192	4.189	0.003	91	504168	100.5	
30 Acetophenone	105	4.262	4.264	-0.002	95	704264	99.1	
32 N-Nitrosodi-n-propylamine	70	4.267	4.264	0.003	90	347612	98.4	
28 3 & 4 Methylphenol	108	4.286	4.287	-0.001	0	546225	102.4	
33 Hexachloroethane	117	4.323	4.320	0.003	93	200016	97.9	
* 37 Naphthalene-d8	136	4.798	4.800	-0.002	99	640253	40.0	
$ 46 Nitrobenzene-d5	82	4.356	4.358	-0.002	86	531546	101.6	
47 Nitrobenzene	77	4.370	4.367	0.003	77	506211	100.4	
48 Isophorone	82	4.521	4.513	0.008	95	946174	98.1	
49 2-Nitrophenol	139	4.563	4.565	-0.002	91	344749	107.2	
50 2,4-Dimethylphenol	107	4.606	4.602	0.004	90	523916	97.7	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
52 Bis(2-chloroethoxy)methane	93	4.653	4.649	0.004	98	555570	96.2	
51 Benzoic acid	105	4.700	4.687	0.013	80	512256	103.0	
53 2,4-Dichlorophenol	162	4.728	4.729	-0.001	90	493305	101.9	
55 1,2,4-Trichlorobenzene	180	4.765	4.762	0.003	91	477683	96.3	
56 Naphthalene	128	4.812	4.814	-0.002	98	1430659	87.9	
57 4-Chloroaniline	127	4.850	4.852	-0.002	84	755657	101.2	
59 Hexachlorobutadiene	225	4.888	4.889	-0.001	91	250854	95.8	
42 Caprolactam	113	5.099	5.087	0.012	81	258566	105.2	M
62 4-Chloro-3-methylphenol	107	5.193	5.190	0.003	87	519535	101.9	
65 2-Methylnaphthalene	142	5.269	5.270	-0.001	86	1126931	92.8	
66 1-Methylnaphthalene	142	5.339	5.336	0.003	81	1065735	92.8	
45 1,2,4,5-Tetrachlorobenzene	216	5.391	5.388	0.003	94	494248	95.9	
43 1,1'-Biphenyl	154	5.617	5.613	0.003	96	1323499	90.5	
* 72 Acenaphthene-d10	164	6.082	6.079	0.003	73	432300	40.0	
76 Hexachlorocyclopentadiene	237	5.381	5.378	0.003	85	225013	104.9	
77 2,4,6-Trichlorophenol	196	5.485	5.482	0.003	85	378631	104.1	
78 2,4,5-Trichlorophenol	196	5.527	5.529	-0.002	96	412631	106.3	
$ 79 2-Fluorobiphenyl (Surr)	172	5.537	5.538	-0.001	98	1188332	90.6	
83 2-Chloronaphthalene	162	5.631	5.627	0.004	91	1040539	93.5	
84 2-Nitroaniline	65	5.715	5.717	-0.002	90	337121	102.5	
85 Dimethyl phthalate	163	5.866	5.863	0.003	99	1314763	94.6	
81 1,3-Dinitrobenzene	168	5.894	5.891	0.003	88	296432	106.4	
86 2,6-Dinitrotoluene	165	5.917	5.914	0.003	67	361234	106.7	
87 Acenaphthylene	152	5.964	5.961	0.003	94	1734328	92.6	
88 3-Nitroaniline	138	6.063	6.055	0.008	89	459101	103.1	
89 Acenaphthene	153	6.110	6.107	0.003	93	1120229	92.2	
90 2,4-Dinitrophenol	184	6.157	6.154	0.003	81	535639	210.4	
92 Dibenzofuran	168	6.265	6.262	0.003	83	1580208	91.4	
93 2,4-Dinitrotoluene	165	6.265	6.262	0.003	70	485585	101.2	
91 4-Nitrophenol	65	6.270	6.272	-0.002	87	556006	198.5	
96 2,3,4,6-Tetrachlorophenol	232	6.388	6.385	0.004	68	357074	104.8	
97 Diethyl phthalate	149	6.496	6.493	0.003	98	1330001	96.6	
196 Hexadecane	57	6.510	6.507	0.003	0	592824	97.2	
99 Fluorene	166	6.580	6.582	-0.002	83	1348177	93.0	
98 4-Chlorophenyl phenyl ether	204	6.590	6.587	0.003	87	641253	96.6	
100 4-Nitroaniline	138	6.632	6.620	0.012	94	467729	101.6	
101 Azobenzene	77	6.745	6.742	0.003	95	1132785	97.7	
* 106 Phenanthrene-d10	188	7.530	7.532	-0.002	96	790486	40.0	
116 4,6-Dinitro-2-methylphenol	198	6.656	6.648	0.008	85	669085	204.0	
117 N-Nitrosodiphenylamine	169	6.712	6.704	0.008	58	894561	97.4	
$ 119 2,4,6-Tribromophenol	330	6.820	6.817	0.003	92	246535	104.4	
120 4-Bromophenyl phenyl ether	248	7.074	7.071	0.003	60	407567	101.6	
121 Hexachlorobenzene	284	7.126	7.123	0.003	93	452343	98.4	
112 Atrazine	200	7.276	7.273	0.003	92	427108	103.4	
124 Pentachlorophenol	266	7.352	7.348	0.004	85	582802	205.4	
115 n-Octadecane	57	7.469	7.466	0.003	98	659921	101.5	
126 Phenanthrene	178	7.558	7.555	0.003	97	1897738	90.2	
129 Anthracene	178	7.615	7.612	0.003	98	1963124	91.7	
131 Carbazole	167	7.808	7.805	0.003	83	2083016	94.7	
132 Di-n-butyl phthalate	149	8.240	8.237	0.003	100	2258075	97.1	
135 Fluoranthene	202	8.894	8.891	0.003	98	2279656	95.3	
* 140 Chrysene-d12	240	10.591	10.588	0.003	79	911547	40.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
145 Benzidine	184	9.087	9.088	-0.001	99	788332	98.3	
146 Pyrene	202	9.153	9.145	0.007	92	2261631	94.8	
$ 147 Terphenyl-d14	244	9.378	9.375	0.003	97	1741607	99.8	
150 Butyl benzyl phthalate	149	9.999	9.996	0.003	94	1207536	101.9	
152 Benzo[a]anthracene	228	10.582	10.579	0.003	89	2296571	97.0	
151 3,3'-Dichlorobenzidine	252	10.591	10.584	0.007	76	932766	106.1	
153 Chrysene	228	10.624	10.621	0.003	93	2119359	93.5	
154 Bis(2-ethylhexyl) phthalate	149	10.718	10.715	0.003	95	1545357	98.5	
* 156 Perylene-d12	264	12.181	12.178	0.003	82	891424	40.0	
158 Di-n-octyl phthalate	149	11.466	11.463	0.003	99	2616828	100.8	
159 Benzo[b]fluoranthene	252	11.790	11.787	0.003	86	2382212	99.0	
161 Benzo[k]fluoranthene	252	11.823	11.815	0.008	83	2422022	96.8	
162 Benzo[a]pyrene	252	12.129	12.121	0.008	76	2278139	99.7	
164 Indeno[1,2,3-cd]pyrene	276	13.220	13.212	0.008	93	2808665	99.3	M
165 Dibenz(a,h)anthracene	278	13.243	13.236	0.007	67	2308647	96.9	
166 Benzo[g,h,i]perylene	276	13.497	13.485	0.012	92	2274853	95.7	
S 172 Methyl Phenols,Total	1				0		202.9	
S 167 Total Cresols	1				0		202.9	

QC Flag Legend

Review Flags
M - Manually Integrated

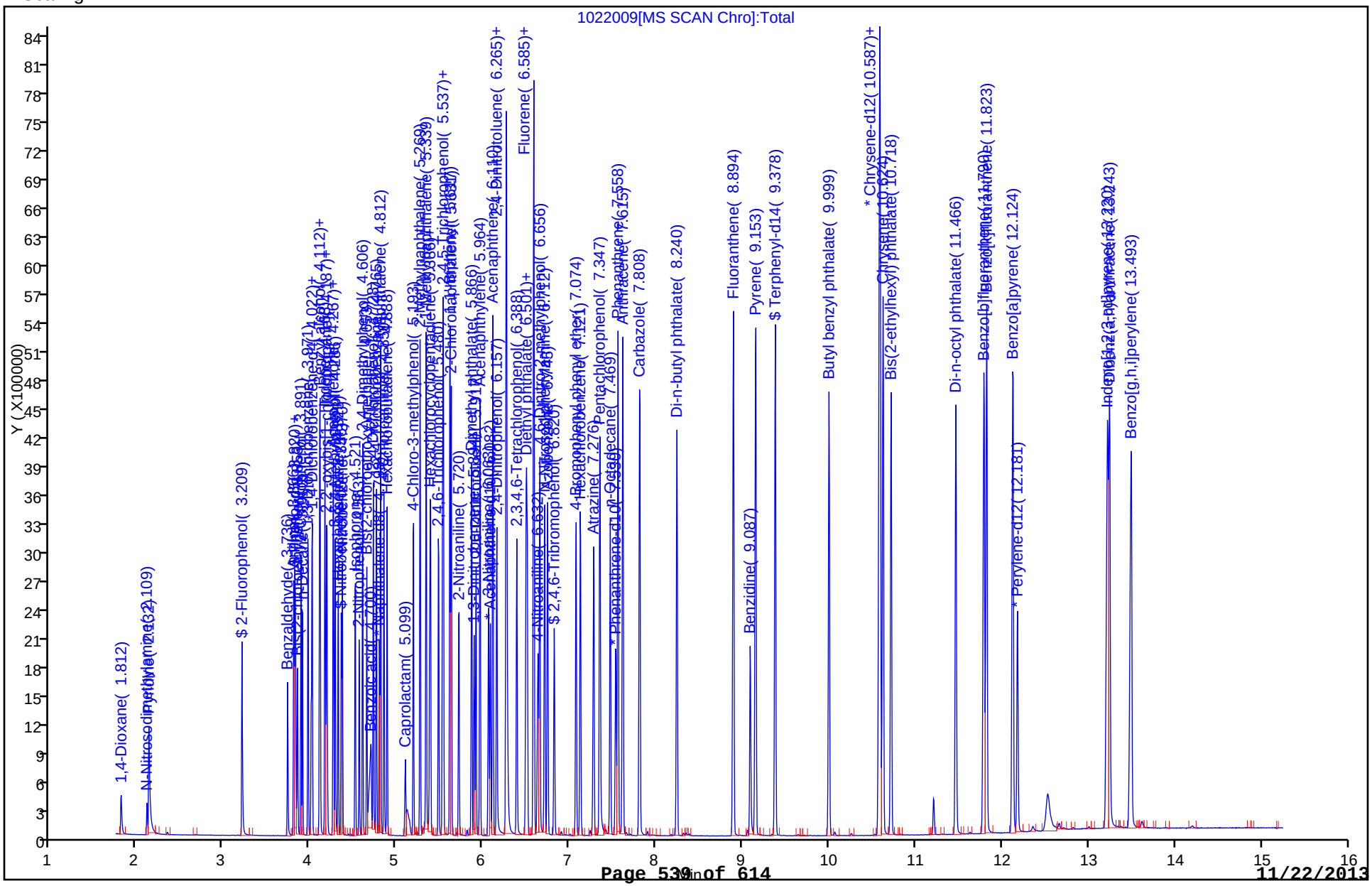
Report Date: 24-Oct-2013 12:55:14 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022009.D

Injection Date:	22-Oct-2013 19:23:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	11
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Manual Integration/User Assign Peak Report

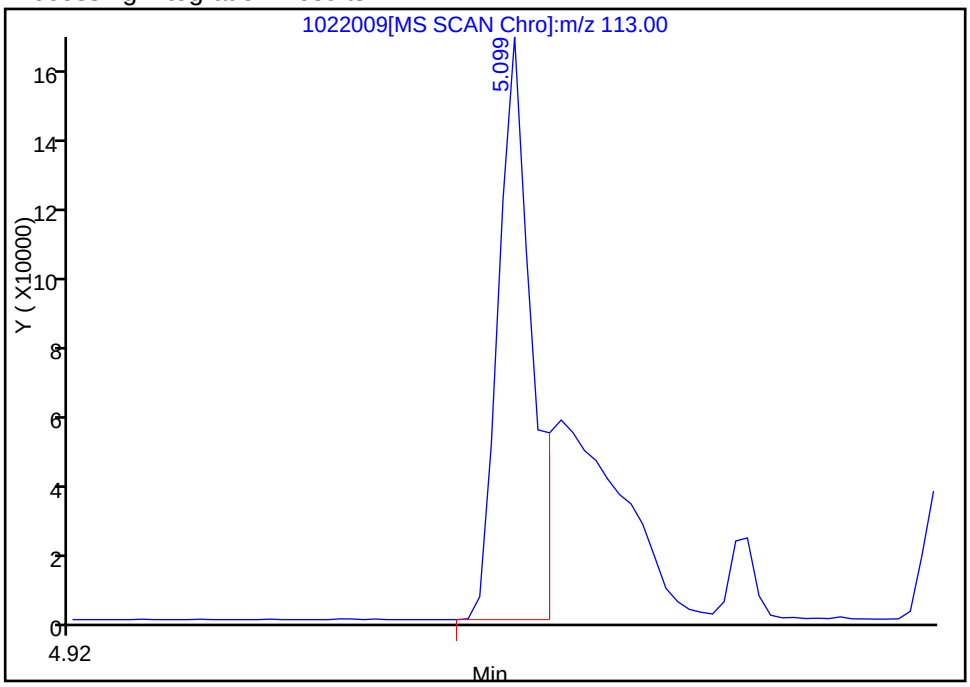
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022009.D		
Injection Date:	22-Oct-2013 19:23:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	11
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

42 Caprolactam, Signal: 1, m/z: 113.0 Type: quant, RT: 5.09

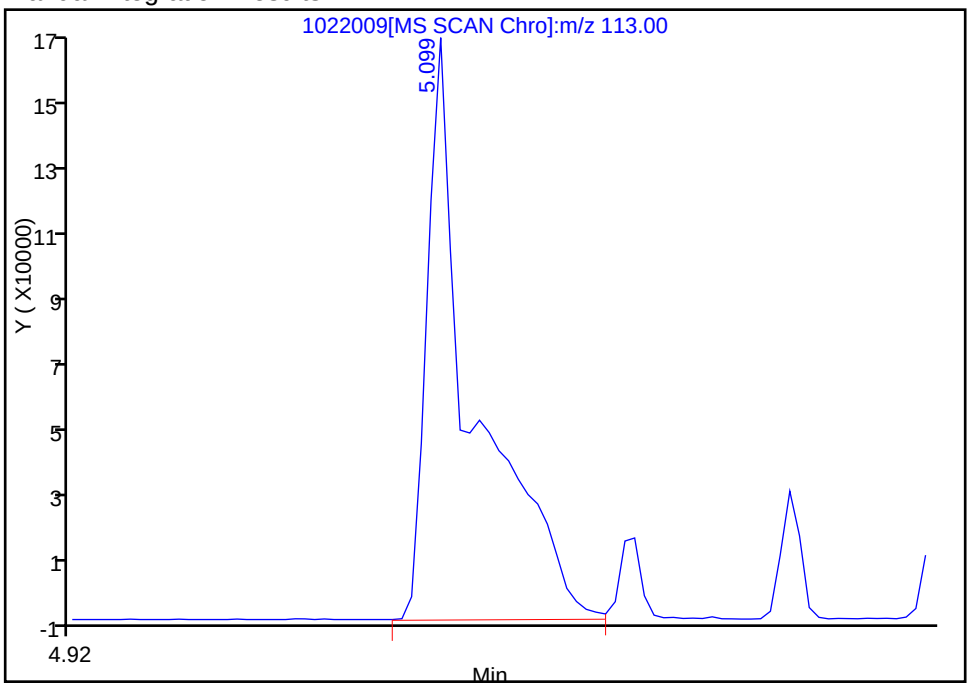
Processing Integration Results

RT: 5.10
Response: 153498
Amount: 69.814506



Manual Integration Results

RT: 5.10
Response: 258566
Amount: 105.2403



Reviewer: phelpsk, 23-Oct-2013 10:02:45
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

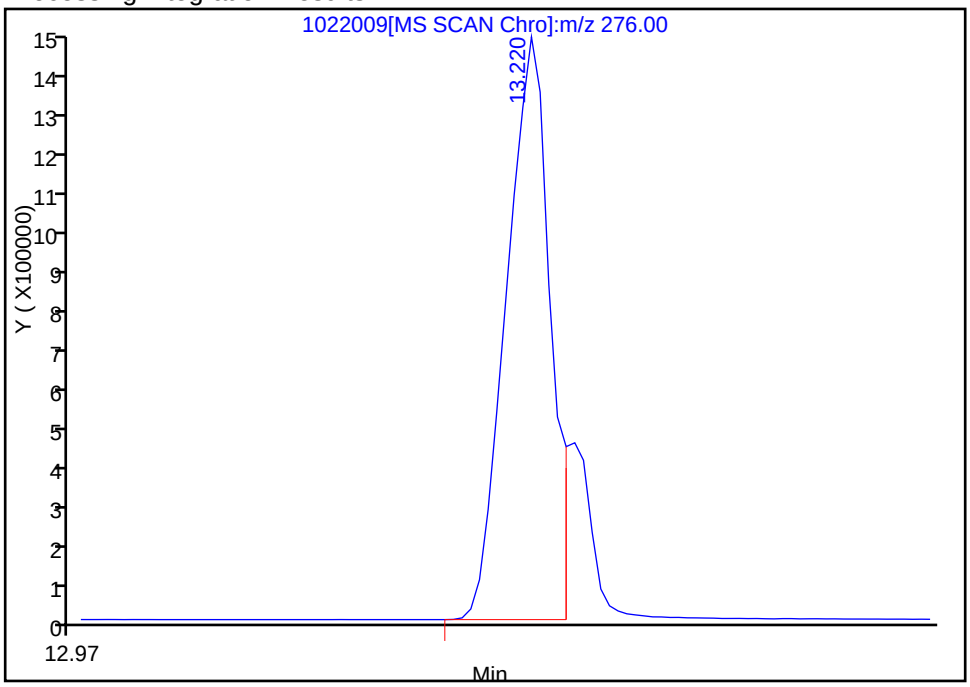
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022009.D		
Injection Date:	22-Oct-2013 19:23:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	11
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

164 Indeno[1,2,3-cd]pyrene, Signal: 1, m/z: 276.0 Type: quant, RT: 13.21

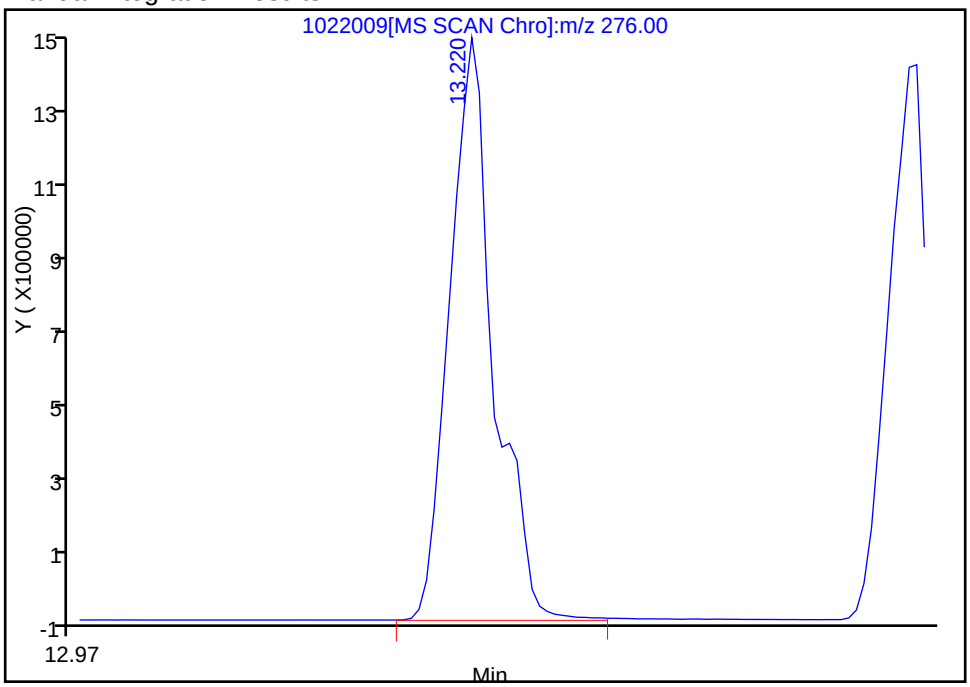
Processing Integration Results

RT: 13.22
Response: 2445564
Amount: 90.129498



Manual Integration Results

RT: 13.22
Response: 2808665
Amount: 99.296456



Reviewer: phelpsk, 23-Oct-2013 10:02:45
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Lab Sample ID (1): CCVIS 490-122300/3 Instrument ID (1): HP31

GC Column (1): ZB-5MSi ID: 0.25(mm) Date Analyzed (1): 11/15/2013 14:06

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	11.40	22.88

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Lab Sample ID: ICV 490-116166/12 Calibration Date: 10/22/2013 19:45

Instrument ID: HP31 Calib Start Date: 10/22/2013 17:06

GC Column: ZB-5MSi ID: 0.25(mm) Calib End Date: 10/22/2013 19:23

Lab File ID: 1022010.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4763	0.4647		48.8	50.0	-2.4	
N-Nitrosodimethylamine	Ave	0.6404	0.6230		48.6	50.0	-2.7	
Pyridine	Ave	0.7751	0.8143		52.5	50.0	5.1	
Benzaldehyde	Ave	0.5490	0.0738		6.72	50.0	-86.6	
Aniline	Ave	1.867	1.802		48.3	50.0	-3.5	
Phenol	Ave	1.661	1.792		53.9	50.0	7.9	
Bis(2-chloroethyl)ether	Ave	1.220	1.148		47.1	50.0	-5.8	
2-Chlorophenol	Ave	1.388	1.488		53.6	50.0	7.2	
n-Decane	Ave	1.115	1.013		45.4	50.0	-9.1	
1,3-Dichlorobenzene	Ave	1.519	1.448		47.7	50.0	-4.7	
1,4-Dichlorobenzene	Ave	1.525	1.465		48.0	50.0	-4.0	
Benzyl alcohol	Ave	0.9237	0.9808		53.1	50.0	6.2	
1,2-Dichlorobenzene	Ave	1.478	1.396		47.3	50.0	-5.5	
Indene	Ave	2.285	2.186		47.8	50.0	-4.3	
bis (2-chloroisopropyl) ether	Ave	0.4803	0.4132		43.0	50.0	-14.0	
2-Methylphenol	Ave	1.255	1.370		54.6	50.0	9.1	
Acetophenone	Ave	1.778	1.750		49.2	50.0	-1.6	
N-Nitrosodi-n-propylamine	Ave	0.8835	0.8837	0.0500	50.0	50.0	0.0	
3 & 4 Methylphenol	Ave	1.334	1.415		53.0	50.0	6.0	
Hexachloroethane	Ave	0.5113	0.4982		48.7	50.0	-2.6	
Nitrobenzene	Ave	0.3148	0.3121		49.6	50.0	-0.9	
Isophorone	Ave	0.6026	0.6175		51.2	50.0	2.5	
2-Nitrophenol	Ave	0.2008	0.2080		51.8	50.0	3.6	
2,4-Dimethylphenol	Ave	0.3349	0.3314		49.5	50.0	-1.0	
Bis(2-chloroethoxy)methane	Ave	0.3607	0.3375		46.8	50.0	-6.5	
Benzoic acid	Lin2		0.3205		103	100	3.1	20.0
2,4-Dichlorophenol	Ave	0.3024	0.3200		52.9	50.0	5.8	
1,2,4-Trichlorobenzene	Ave	0.3099	0.2991		48.3	50.0	-3.5	
Naphthalene	Ave	1.016	0.9409		46.3	50.0	-7.4	
4-Chloroaniline	Ave	0.4664	0.4414		47.3	50.0	-5.4	
Hexachlorobutadiene	Ave	0.1637	0.1558		47.6	50.0	-4.8	
Caprolactam	Ave	0.1535	0.1480		48.2	50.0	-3.6	
4-Chloro-3-methylphenol	Ave	0.3186	0.3282		51.5	50.0	3.0	
2-Methylnaphthalene	Ave	0.7590	0.7123		46.9	50.0	-6.2	
1-Methylnaphthalene	Ave	0.7176	0.6766		47.1	50.0	-5.7	
Hexachlorocyclopentadiene	Lin2		0.1950	0.0500	52.6	50.0	5.3	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.3221	0.3090		48.0	50.0	-4.1	
2,4,6-Trichlorophenol	Ave	0.3366	0.3524		52.4	50.0	4.7	
2,4,5-Trichlorophenol	Ave	0.3591	0.3783		52.7	50.0	5.3	
Biphenyl	Ave	0.9141	0.8821		48.3	50.0	-3.5	

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Lab Sample ID: ICV 490-116166/12 Calibration Date: 10/22/2013 19:45

Instrument ID: HP31 Calib Start Date: 10/22/2013 17:06

GC Column: ZB-5MSi ID: 0.25(mm) Calib End Date: 10/22/2013 19:23

Lab File ID: 1022010.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloronaphthalene	Ave	1.029	0.9710		47.2	50.0	-5.7	
2-Nitroaniline	Lin2		0.2917		48.2	50.0	-3.5	20.0
Dimethyl phthalate	Ave	1.286	1.218		47.4	50.0	-5.3	
1,3-Dinitrobenzene	Ave	0.2578	0.2382		46.2	50.0	-7.6	
2,6-Dinitrotoluene	Ave	0.3132	0.3128		49.9	50.0	-0.1	
Acenaphthylene	Ave	1.733	1.644		47.5	50.0	-5.1	
3-Nitroaniline	Lin2		0.3607		44.2	50.0	-11.6	20.0
Acenaphthene	Ave	1.124	1.078		48.0	50.0	-4.1	
2,4-Dinitrophenol	Lin2		0.2213	0.0500	96.4	100	-3.6	20.0
2,4-Dinitrotoluene	Ave	0.4441	0.4245		47.8	50.0	-4.4	
Dibenzofuran	Ave	1.600	1.504		47.0	50.0	-6.0	
4-Nitrophenol	Lin2		0.2401	0.0500	93.7	100	-6.3	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3153	0.3202		50.8	50.0	1.6	
Diethyl phthalate	Ave	1.273	1.207		47.4	50.0	-5.2	
Hexadecane	Ave	0.5644	0.5380		47.7	50.0	-4.7	
Fluorene	Ave	1.342	1.287		48.0	50.0	-4.1	
4-Chlorophenyl phenyl ether	Ave	0.6140	0.5799		47.2	50.0	-5.6	
4-Nitroaniline	Lin2		0.3891		46.2	50.0	-7.7	20.0
4,6-Dinitro-2-methylphenol	Lin2		0.1648		100	100	0.3	20.0
n-Nitrosodiphenylamine(as diphenylamine)	Ave	0.4646	0.5261		56.6	50.0	13.2	
1,2-Diphenylhydrazine (as Azobenzene)	Ave	1.073	1.023		47.7	50.0	-4.7	
4-Bromophenyl phenyl ether	Ave	0.2029	0.2015		49.6	50.0	-0.7	
Hexachlorobenzene	Ave	0.2327	0.2220		47.7	50.0	-4.6	
Atrazine	Ave	0.2090	0.2060		49.3	50.0	-1.5	
Pentachlorophenol	Lin2		0.1453		102	100	2.1	20.0
n-Octadecane	Ave	0.3289	0.3277		49.8	50.0	-0.4	
Phenanthrene	Ave	1.064	0.997		46.8	50.0	-6.3	
Anthracene	Ave	1.083	1.033		47.7	50.0	-4.6	
Carbazole	Ave	1.113	1.053		47.3	50.0	-5.4	
Di-n-butyl phthalate	Ave	1.177	1.147		48.7	50.0	-2.5	
Fluoranthene	Ave	1.210	1.149		47.5	50.0	-5.0	
Benzidine	Lin2		0.0822			50.0	-76.0*	20.0
Pyrene	Ave	1.047	1.022		48.8	50.0	-2.4	
Butyl benzyl phthalate	Lin2		0.5034		48.8	50.0	-2.4	20.0
Benzo[a]anthracene	Ave	1.039	0.996		47.9	50.0	-4.1	
3,3'-Dichlorobenzidine	Ave	0.3857	0.3220		41.7	50.0	-16.5	
Chrysene	Ave	0.9950	0.9765		49.1	50.0	-1.9	
Bis(2-ethylhexyl) phthalate	Lin2		0.6484		47.5	50.0	-5.0	20.0
Di-n-octyl phthalate	Lin2		1.124		48.6	50.0	-2.9	20.0
Benzo[b]fluoranthene	Ave	1.080	1.012		46.9	50.0	-6.3	

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Lab Sample ID: ICV 490-116166/12 Calibration Date: 10/22/2013 19:45

Instrument ID: HP31 Calib Start Date: 10/22/2013 17:06

GC Column: ZB-5MSi ID: 0.25(mm) Calib End Date: 10/22/2013 19:23

Lab File ID: 1022010.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[k]fluoranthene	Ave	1.123	1.078		48.0	50.0	-4.0	
Benzo[a]pyrene	Ave	1.025	0.9798		47.8	50.0	-4.4	
Indeno[1,2,3-cd]pyrene	Ave	1.269	1.195		47.1	50.0	-5.8	
Dibenz(a,h)anthracene	Ave	1.069	1.039		48.6	50.0	-2.8	
Benzo[g,h,i]perylene	Ave	1.067	1.024		48.0	50.0	-4.1	

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022010.D
Lims ID: ICV Client ID:
Inject. Date: 22-Oct-2013 19:45:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: ICV
Misc. Info.: 490-0027160-012
Operator: HP-31 Instrument ID: HP31
Injection Vol: 1.0 ul ALS Bottle#: 13
Lims Batch ID: 116166 Lims Sample ID: 12
Sublist:
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\hp31\20131022-27160.b\8270HP31.m
Last Update: 24-Oct-2013 12:55:10 Calib Date: 22-Oct-2013 19:23:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022009.D
Limit Group: MSS 8270C ICAL
Integrator: RTE ID Type: RT Order ID
Column Type: Column Dia:
Process Host: XAWRK049

First Level Reviewer: phelpsk Date: 23-Oct-2013 11:07:29

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	4.010	4.010	0.0	93	162920	40.0	
4 1,4-Dioxane	88	1.814	1.814	0.0	93	94632	48.8	
5 N-Nitrosodimethylamine	74	2.115	2.110	0.005	82	126873	48.6	
6 Pyridine	52	2.139	2.134	0.005	94	165831	52.5	
21 Benzaldehyde	105	3.737	3.737	0.0	90	15023	6.72	
17 Aniline	93	3.808	3.808	0.0	99	367035	48.3	
16 Phenol	94	3.832	3.827	0.005	98	364944	53.9	
18 Bis(2-chloroethyl)ether	93	3.850	3.850	0.0	98	233880	47.1	
19 2-Chlorophenol	128	3.893	3.892	0.001	94	303011	53.6	
20 n-Decane	57	3.907	3.906	0.001	97	206323	45.4	
22 1,3-Dichlorobenzene	146	3.973	3.972	0.001	98	294824	47.7	
23 1,4-Dichlorobenzene	146	4.020	4.019	0.001	95	298263	48.0	
24 Benzyl alcohol	108	4.104	4.104	0.0	95	199737	53.1	
25 1,2-Dichlorobenzene	146	4.114	4.113	0.001	98	284379	47.2	
2 Indene	115	4.165	4.170	-0.005	73	445243	47.8	
27 2,2'-oxybis[1-chloropropane]	121	4.184	4.184	0.0	94	84148	43.0	M
26 2-Methylphenol	108	4.189	4.189	0.0	92	278914	54.6	
30 Acetophenone	105	4.264	4.264	0.0	95	356440	49.2	
32 N-Nitrosodi-n-propylamine	70	4.264	4.264	0.0	92	179967	50.0	
28 3 & 4 Methylphenol	108	4.288	4.287	0.001	0	288095	53.0	
33 Hexachloroethane	117	4.321	4.320	0.001	96	101449	48.7	
* 37 Naphthalene-d8	136	4.800	4.800	0.0	98	658661	40.0	
47 Nitrobenzene	77	4.368	4.367	0.001	81	256952	49.6	
48 Isophorone	82	4.513	4.513	0.0	96	508372	51.2	
49 2-Nitrophenol	139	4.565	4.565	0.0	86	171261	51.8	
50 2,4-Dimethylphenol	107	4.603	4.602	0.001	92	272879	49.5	
52 Bis(2-chloroethoxy)methane	93	4.650	4.649	0.001	98	277828	46.8	
51 Benzoic acid	105	4.706	4.687	0.019	83	527825	103.1	E
53 2,4-Dichlorophenol	162	4.730	4.729	0.001	89	263434	52.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
55 1,2,4-Trichlorobenzene	180	4.763	4.762	0.001	95	246260	48.3	
56 Naphthalene	128	4.810	4.814	-0.004	97	774661	46.3	
57 4-Chloroaniline	127	4.852	4.852	0.0	85	363389	47.3	
59 Hexachlorobutadiene	225	4.890	4.889	0.001	91	128246	47.6	
42 Caprolactam	113	5.092	5.087	0.005	86	121837	48.2	
62 4-Chloro-3-methylphenol	107	5.190	5.190	0.0	86	270247	51.5	
65 2-Methylnaphthalene	142	5.266	5.270	-0.004	81	586411	46.9	
66 1-Methylnaphthalene	142	5.336	5.336	0.0	78	557022	47.1	
45 1,2,4,5-Tetrachlorobenzene	216	5.388	5.388	0.0	96	254419	48.0	
43 1,1'-Biphenyl	154	5.614	5.613	0.001	94	726251	48.3	
* 72 Acenaphthene-d10	164	6.079	6.079	0.0	79	457210	40.0	
76 Hexachlorocyclopentadiene	237	5.379	5.378	0.001	94	111465	52.6	
77 2,4,6-Trichlorophenol	196	5.482	5.482	0.0	85	201426	52.4	
78 2,4,5-Trichlorophenol	196	5.529	5.529	0.0	96	216176	52.7	
83 2-Chloronaphthalene	162	5.628	5.627	0.001	95	554921	47.2	
84 2-Nitroaniline	65	5.712	5.717	-0.005	91	166686	48.2	
85 Dimethyl phthalate	163	5.863	5.863	0.0	99	695918	47.4	
81 1,3-Dinitrobenzene	168	5.891	5.891	0.0	88	136112	46.2	
86 2,6-Dinitrotoluene	165	5.915	5.914	0.001	79	178747	49.9	
87 Acenaphthylene	152	5.962	5.961	0.001	91	939824	47.5	
88 3-Nitroaniline	138	6.056	6.055	0.001	93	206160	44.2	
89 Acenaphthene	153	6.107	6.107	0.0	92	616226	48.0	
90 2,4-Dinitrophenol	184	6.150	6.154	-0.004	81	252946	96.4	
92 Dibenzofuran	168	6.263	6.262	0.001	85	859417	47.0	
93 2,4-Dinitrotoluene	165	6.263	6.262	0.001	68	242621	47.8	
91 4-Nitrophenol	65	6.272	6.272	0.0	84	274397	93.7	
96 2,3,4,6-Tetrachlorophenol	232	6.385	6.385	0.001	67	183009	50.8	
97 Diethyl phthalate	149	6.493	6.493	0.0	99	689624	47.4	
196 Hexadecane	57	6.507	6.507	0.0	0	307486	47.7	
99 Fluorene	166	6.578	6.582	-0.004	84	735269	47.9	
98 4-Chlorophenyl phenyl ether	204	6.587	6.587	0.0	89	331416	47.2	
100 4-Nitroaniline	138	6.620	6.620	0.0	93	222380	46.2	
101 Azobenzene	77	6.737	6.742	-0.005	96	584616	47.7	
* 106 Phenanthrene-d10	188	7.527	7.532	-0.005	95	818414	40.0	
116 4,6-Dinitro-2-methylphenol	198	6.643	6.648	-0.005	85	337130	100.3	
117 N-Nitrosodiphenylamine	169	6.705	6.704	0.001	57	538220	56.6	
120 4-Bromophenyl phenyl ether	248	7.071	7.071	0.0	58	206109	49.6	
121 Hexachlorobenzene	284	7.123	7.123	0.0	94	227147	47.7	
112 Atrazine	200	7.269	7.273	-0.004	89	210737	49.3	
124 Pentachlorophenol	266	7.344	7.348	-0.004	87	297260	102.1	
115 n-Octadecane	57	7.466	7.466	0.0	97	335206	49.8	
126 Phenanthrene	178	7.556	7.555	0.001	97	1020095	46.8	
129 Anthracene	178	7.612	7.612	0.0	97	1056520	47.7	
131 Carbazole	167	7.805	7.805	0.0	82	1077344	47.3	
132 Di-n-butyl phthalate	149	8.237	8.237	0.0	100	1173337	48.7	
135 Fluoranthene	202	8.891	8.891	0.0	98	1175440	47.5	
* 140 Chrysene-d12	240	10.588	10.588	0.0	80	937022	40.0	
145 Benzidine	184	9.089	9.088	0.0	97	96255	12.0	
146 Pyrene	202	9.145	9.145	0.0	95	1196467	48.8	
150 Butyl benzyl phthalate	149	9.996	9.996	0.0	93	589635	48.8	
152 Benzo[a]anthracene	228	10.574	10.579	-0.005	90	1166363	47.9	
151 3,3'-Dichlorobenzidine	252	10.584	10.584	0.0	71	377138	41.7	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
153 Chrysene	228	10.617	10.621	-0.004	93	1143709	49.1	
154 Bis(2-ethylhexyl) phthalate	149	10.715	10.715	0.0	94	759454	47.5	
* 156 Perylene-d12	264	12.178	12.178	0.0	82	955277	40.0	
158 Di-n-octyl phthalate	149	11.463	11.463	0.0	99	1342653	48.6	
159 Benzo[b]fluoranthene	252	11.783	11.787	-0.004	86	1208666	46.9	
161 Benzo[k]fluoranthene	252	11.816	11.815	0.001	85	1287565	48.0	
162 Benzo[a]pyrene	252	12.121	12.121	0.0	77	1170013	47.8	
164 Indeno[1,2,3-cd]pyrene	276	13.208	13.212	-0.004	94	1427290	47.1	M
165 Dibenz(a,h)anthracene	278	13.236	13.236	0.0	69	1240623	48.6	
166 Benzo[g,h,i]perylene	276	13.480	13.485	-0.005	89	1222333	48.0	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

Review Flags
M - Manually Integrated

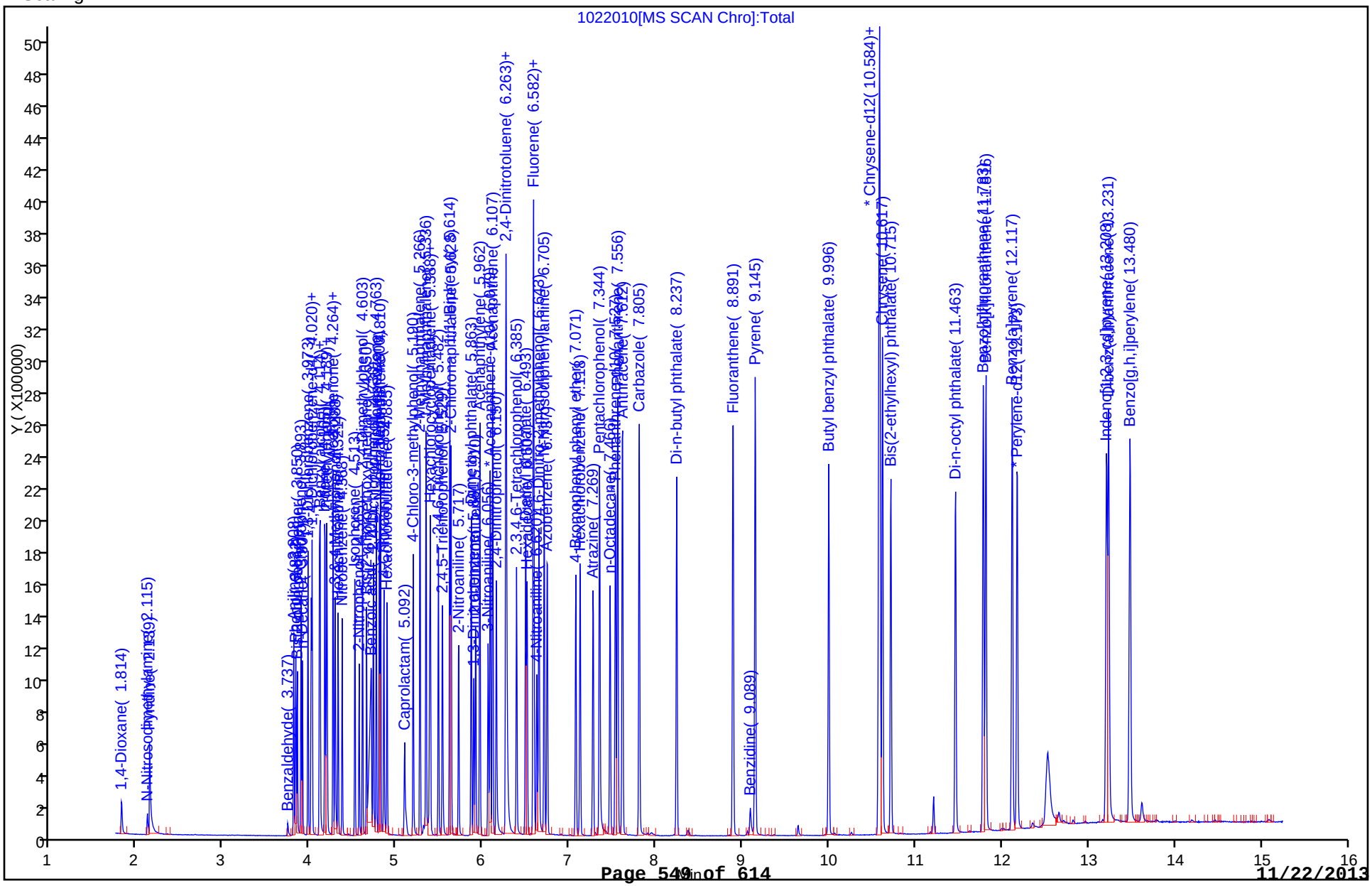
Report Date: 24-Oct-2013 12:55:12 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022010.D

Injection Date:	22-Oct-2013 19:45:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	12
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Manual Integration/User Assign Peak Report

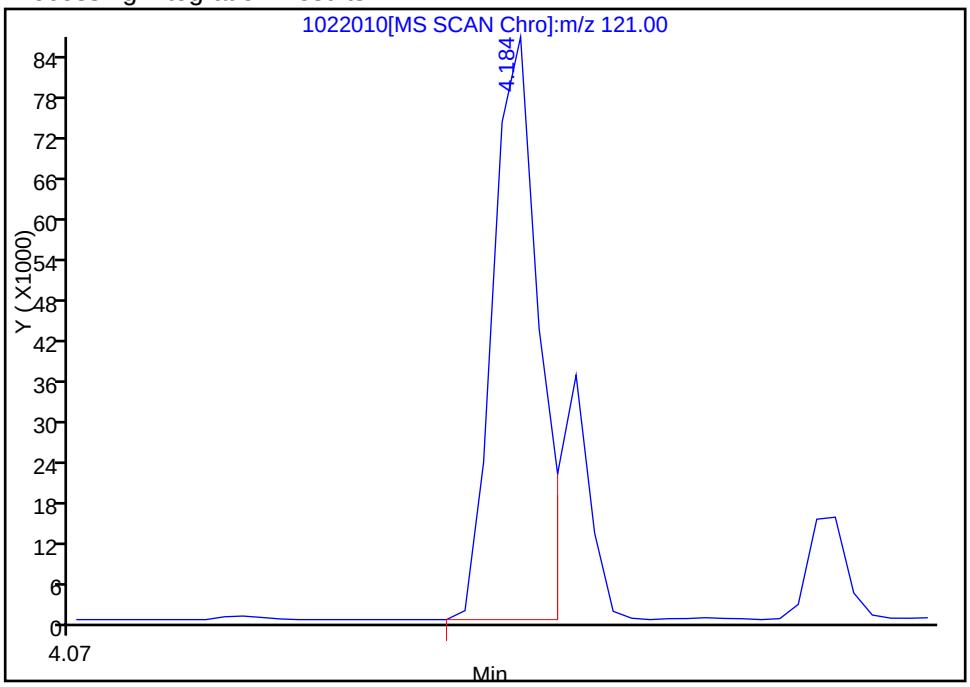
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022010.D		
Injection Date:	22-Oct-2013 19:45:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	12
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

27 2,2'-oxybis[1-chloropropane], Signal: 1, m/z: 121.0 Type: quant, RT: 4.18

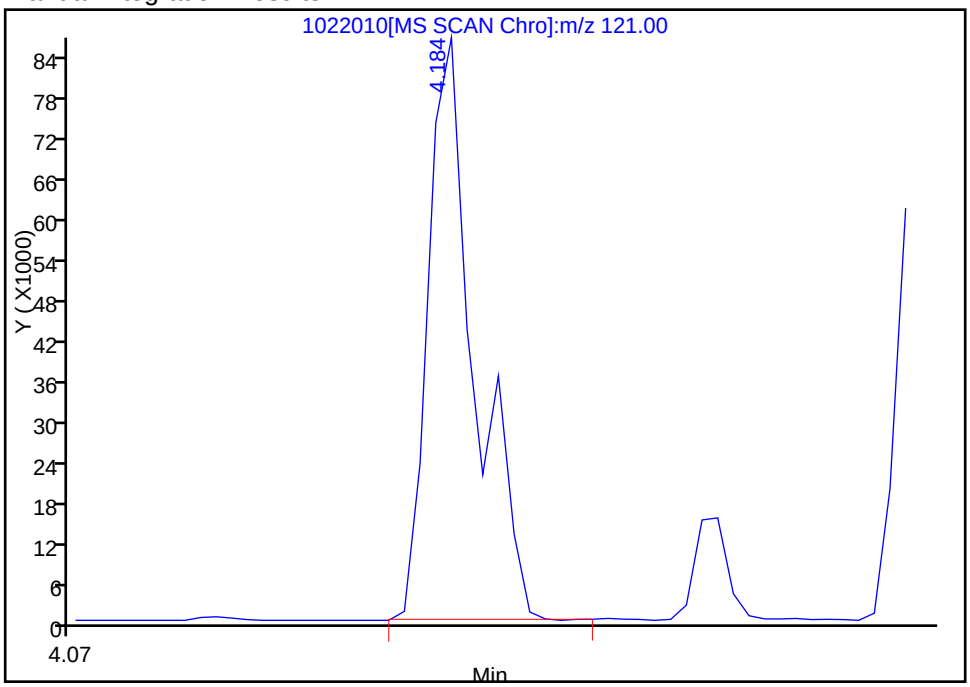
Processing Integration Results

RT: 4.18
Response: 70409
Amount: 35.991390



Manual Integration Results

RT: 4.18
Response: 84148
Amount: 43.014437



Reviewer: phelpsk, 23-Oct-2013 11:07:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

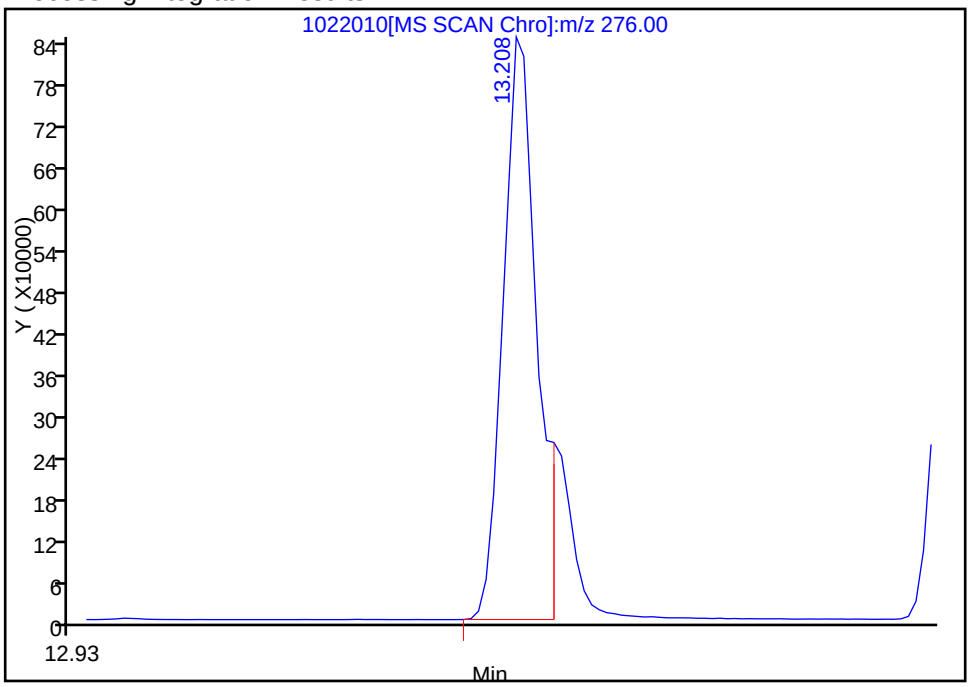
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022010.D		
Injection Date:	22-Oct-2013 19:45:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	12
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

164 Indeno[1,2,3-cd]pyrene, Signal: 1, m/z: 276.0 Type: quant, RT: 13.21

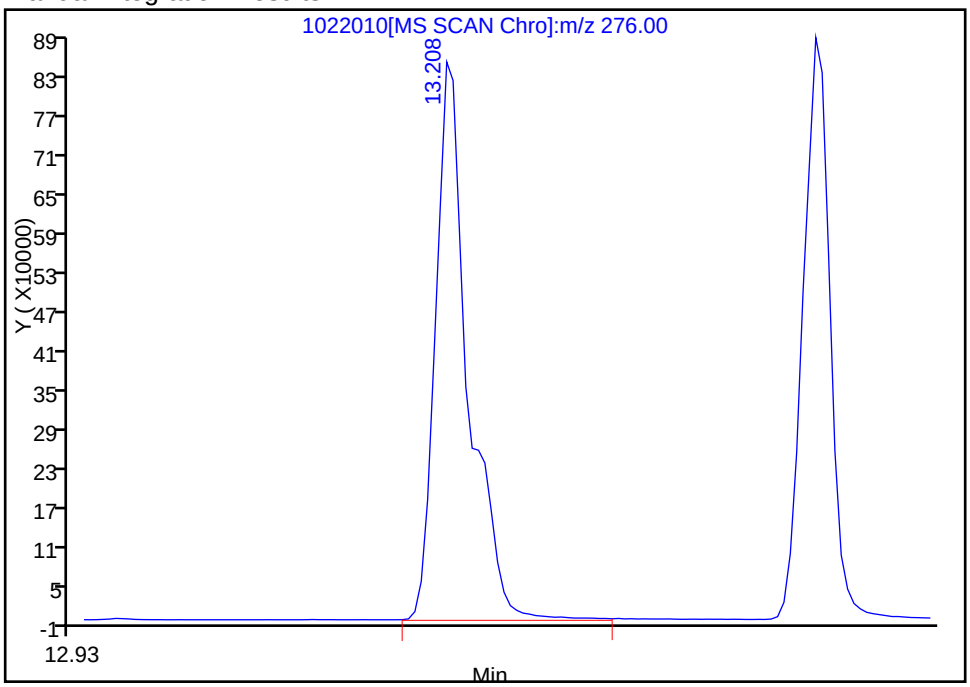
Processing Integration Results

RT: 13.21
Response: 1241226
Amount: 40.948658



Manual Integration Results

RT: 13.21
Response: 1427290
Amount: 47.087001



Reviewer: phelpsk, 23-Oct-2013 11:07:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Lab Sample ID: CCVIS 490-122300/3 Calibration Date: 11/15/2013 14:06

Instrument ID: HP31 Calib Start Date: 10/22/2013 17:06

GC Column: ZB-5MSi ID: 0.25(mm) Calib End Date: 10/22/2013 19:23

Lab File ID: 1115003.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4763	0.4792		50.3	50.0	0.6	20.0
N-Nitrosodimethylamine	Ave	0.6404	0.5553		43.4	50.0	-13.3	20.0
Pyridine	Ave	0.7751	0.7492		48.3	50.0	-3.3	20.0
Benzaldehyde	Ave	0.5490	0.4484		40.8	50.0	-18.3	20.0
Aniline	Ave	1.867	1.742		46.6	50.0	-6.7	20.0
Phenol	Ave	1.661	1.522		45.8	50.0	-8.4	20.0
Bis(2-chloroethyl)ether	Ave	1.220	1.120		45.9	50.0	-8.2	20.0
2-Chlorophenol	Ave	1.388	1.370		49.4	50.0	-1.3	20.0
n-Decane	Ave	1.115	1.008		45.2	50.0	-9.6	20.0
1,3-Dichlorobenzene	Ave	1.519	1.464		48.2	50.0	-3.6	20.0
1,4-Dichlorobenzene	Ave	1.525	1.495		49.0	50.0	-1.9	20.0
1,2-Dichlorobenzene	Ave	1.478	1.456		49.3	50.0	-1.5	20.0
Benzyl alcohol	Ave	0.9237	0.8616		46.6	50.0	-6.7	20.0
Indene	Ave	2.285	2.103		46.0	50.0	-7.9	20.0
bis (2-chloroisopropyl) ether	Ave	0.4803	0.4581		47.7	50.0	-4.6	20.0
2-Methylphenol	Ave	1.255	1.168		46.6	50.0	-6.9	20.0
Acetophenone	Ave	1.778	1.672		47.0	50.0	-6.0	20.0
N-Nitrosodi-n-propylamine	Ave	0.8835	0.8274	0.0500	46.8	50.0	-6.3	20.0
3 & 4 Methylphenol	Ave	1.334	1.239		46.4	50.0	-7.2	20.0
Hexachloroethane	Ave	0.5113	0.4982		48.7	50.0	-2.6	20.0
Nitrobenzene	Ave	0.3148	0.3191		50.7	50.0	1.4	20.0
Isophorone	Ave	0.6026	0.5934		49.2	50.0	-1.5	20.0
2-Nitrophenol	Ave	0.2008	0.2099		52.3	50.0	4.5	20.0
2,4-Dimethylphenol	Ave	0.3349	0.3351		50.0	50.0	0.0	20.0
Bis(2-chloroethoxy)methane	Ave	0.3607	0.3447		47.8	50.0	-4.4	20.0
Benzoic acid	Lin2		0.3243		53.3	50.0	6.6	20.0
2,4-Dichlorophenol	Ave	0.3024	0.3141		51.9	50.0	3.8	20.0
1,2,4-Trichlorobenzene	Ave	0.3099	0.3105		50.1	50.0	0.2	20.0
Naphthalene	Ave	1.016	0.9806		48.2	50.0	-3.5	20.0
4-Chloroaniline	Ave	0.4664	0.4883		52.4	50.0	4.7	20.0
Hexachlorobutadiene	Ave	0.1637	0.1757		53.7	50.0	7.4	20.0
Caprolactam	Ave	0.1535	0.1466		47.7	50.0	-4.5	20.0
4-Chloro-3-methylphenol	Ave	0.3186	0.3241		50.9	50.0	1.7	20.0
2-Methylnaphthalene	Ave	0.7590	0.7573		49.9	50.0	-0.2	20.0
1-Methylnaphthalene	Ave	0.7176	0.7137		49.7	50.0	-0.5	20.0
Hexachlorocyclopentadiene	Lin2		0.1558	0.0500	43.4	50.0	-13.3	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.3221	0.3348		52.0	50.0	4.0	20.0
2,4,6-Trichlorophenol	Ave	0.3366	0.3438		51.1	50.0	2.2	20.0
2,4,5-Trichlorophenol	Ave	0.3591	0.3645		50.8	50.0	1.5	20.0
Biphenyl	Ave	0.9141	0.9015		49.3	50.0	-1.4	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Lab Sample ID: CCVIS 490-122300/3 Calibration Date: 11/15/2013 14:06

Instrument ID: HP31 Calib Start Date: 10/22/2013 17:06

GC Column: ZB-5MSi ID: 0.25(mm) Calib End Date: 10/22/2013 19:23

Lab File ID: 1115003.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloronaphthalene	Ave	1.029	1.009		49.0	50.0	-2.0	20.0
2-Nitroaniline	Lin2		0.2914		48.2	50.0	-3.6	20.0
Dimethyl phthalate	Ave	1.286	1.268		49.3	50.0	-1.4	20.0
1,3-Dinitrobenzene	Ave	0.2578	0.2548		49.4	50.0	-1.2	20.0
2,6-Dinitrotoluene	Ave	0.3132	0.3245		51.8	50.0	3.6	20.0
Acenaphthylene	Ave	1.733	1.708		49.3	50.0	-1.4	20.0
3-Nitroaniline	Lin2		0.3900		47.7	50.0	-4.5	20.0
Acenaphthene	Ave	1.124	1.095		48.7	50.0	-2.6	20.0
2,4-Dinitrophenol	Lin2		0.2348	0.0500	102	100	2.0	20.0
Dibenzofuran	Ave	1.600	1.569		49.0	50.0	-1.9	20.0
2,4-Dinitrotoluene	Ave	0.4441	0.4523		50.9	50.0	1.8	20.0
4-Nitrophenol	Lin2		0.2293	0.0500	89.6	100	-10.4	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3153	0.3280		52.0	50.0	4.0	20.0
Diethyl phthalate	Ave	1.273	1.286		50.5	50.0	1.0	20.0
Hexadecane	Ave	0.5644	0.5296		46.9	50.0	-6.2	20.0
Fluorene	Ave	1.342	1.329		49.5	50.0	-0.9	20.0
4-Chlorophenyl phenyl ether	Ave	0.6140	0.6045		49.2	50.0	-1.5	20.0
4-Nitroaniline	Lin2		0.3981		47.2	50.0	-5.6	20.0
4,6-Dinitro-2-methylphenol	Lin2		0.1677		102	100	2.1	20.0
n-Nitrosodiphenylamine(as diphenylamine)	Ave	0.4646	0.4671		50.3	50.0	0.5	20.0
1,2-Diphenylhydrazine (as Azobenzene)	Ave	1.073	1.044		48.7	50.0	-2.7	20.0
4-Bromophenyl phenyl ether	Ave	0.2029	0.2126		52.4	50.0	4.8	20.0
Hexachlorobenzene	Ave	0.2327	0.2351		50.5	50.0	1.0	20.0
Atrazine	Ave	0.2090	0.1808		43.3	50.0	-13.5	20.0
Pentachlorophenol	Lin2		0.1391		97.8	100	-2.2	20.0
n-Octadecane	Ave	0.3289	0.3163		48.1	50.0	-3.8	20.0
Phenanthrene	Ave	1.064	1.039		48.8	50.0	-2.4	20.0
Anthracene	Ave	1.083	1.074		49.6	50.0	-0.8	20.0
Carbazole	Ave	1.113	1.091		49.0	50.0	-2.0	20.0
Di-n-butyl phthalate	Ave	1.177	1.193		50.7	50.0	1.4	20.0
Fluoranthene	Ave	1.210	1.211		50.0	50.0	0.0	20.0
Benzidine	Lin2		0.2282			50.0	-34.7*	20.0
Pyrene	Ave	1.047	1.016		48.6	50.0	-2.9	20.0
Butyl benzyl phthalate	Lin2		0.4939		47.9	50.0	-4.2	20.0
Benzo[a]anthracene	Ave	1.039	1.000		48.2	50.0	-3.7	20.0
3,3'-Dichlorobenzidine	Ave	0.3857	0.3760		48.7	50.0	-2.5	20.0
Chrysene	Ave	0.9950	0.9621		48.4	50.0	-3.3	20.0
Bis(2-ethylhexyl) phthalate	Lin2		0.6486		47.5	50.0	-5.0	20.0
Di-n-octyl phthalate	Lin2		1.079		46.6	50.0	-6.7	20.0
Benzo[b]fluoranthene	Ave	1.080	1.035		48.0	50.0	-4.1	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Lab Sample ID: CCVIS 490-122300/3 Calibration Date: 11/15/2013 14:06

Instrument ID: HP31 Calib Start Date: 10/22/2013 17:06

GC Column: ZB-5MSi ID: 0.25(mm) Calib End Date: 10/22/2013 19:23

Lab File ID: 1115003.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[k]fluoranthene	Ave	1.123	1.106		49.2	50.0	-1.5	20.0
Benzo[a]pyrene	Ave	1.025	1.010		49.3	50.0	-1.5	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.269	1.249		49.2	50.0	-1.6	20.0
Dibenz(a,h)anthracene	Ave	1.069	1.060		49.6	50.0	-0.8	20.0
Benzo[g,h,i]perylene	Ave	1.067	1.055		49.4	50.0	-1.2	20.0
2-Fluorophenol (Surr)	Ave	1.171	1.146		49.0	50.0	-2.1	20.0
Phenol-d5 (Surr)	Ave	1.576	1.515		48.1	50.0	-3.9	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3270	0.3325		50.8	50.0	1.7	20.0
2-Fluorobiphenyl (Surr)	Ave	1.214	1.193		49.1	50.0	-1.7	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1195	0.1240		51.9	50.0	3.8	20.0
Terphenyl-d14 (Surr)	Ave	0.7659	0.7579		49.5	50.0	-1.0	20.0

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\hp31\20131115-28515.b\1115003.D
Lims ID: CCVIS Lab Sample ID:
Client ID:
Sample Type: CCVIS
Inject. Date: 15-Nov-2013 14:06:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 490-0028515-003
Operator ID: HP-31 Instrument ID: HP31
Sublist: chrom-8270HP31*sub30

Method: \\Nvlchrom\ChromData\hp31\20131115-28515.b\8270HP31.m
Limit Group: MSS 8270C ICAL
Last Update: 15-Nov-2013 16:15:36 Calib Date: 04-Nov-2013 11:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\hp31\20131103-27806.b\1104019.D

Column 1 : Detector MS SCAN
Process Host: XAWRK027

First Level Reviewer: phelpsk Date: 15-Nov-2013 16:15:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.781	3.781	0.0	94	197054	40.0	
4 1,4-Dioxane	88	1.482	1.482	0.0	92	118041	50.3	
5 N-Nitrosodimethylamine	74	1.792	1.792	0.0	94	136788	43.4	
6 Pyridine	52	1.816	1.816	0.0	94	184532	48.3	
$ 11 2-Fluorophenol	112	2.977	2.977	0.0	89	282251	48.9	
21 Benzaldehyde	105	3.513	3.513	0.0	87	110436	40.8	
17 Aniline	93	3.584	3.584	0.0	98	429011	46.6	
$ 15 Phenol-d5	99	3.607	3.607	0.0	0	373252	48.1	
16 Phenol	94	3.617	3.617	0.0	99	374785	45.8	
18 Bis(2-chloroethyl)ether	93	3.631	3.631	0.0	94	275867	45.9	
19 2-Chlorophenol	128	3.664	3.664	0.0	94	337436	49.4	
20 n-Decane	57	3.687	3.687	0.0	97	248227	45.2	
22 1,3-Dichlorobenzene	146	3.744	3.744	0.0	98	360503	48.2	
23 1,4-Dichlorobenzene	146	3.796	3.796	0.0	96	368348	49.0	
25 1,2-Dichlorobenzene	146	3.885	3.885	0.0	97	358667	49.3	
24 Benzyl alcohol	108	3.890	3.890	0.0	92	212214	46.6	
2 Indene	115	3.941	3.941	0.0	75	518101	46.0	
27 2,2'-oxybis[1-chloropropane]	121	3.965	3.965	0.0	95	112840	47.7	
26 2-Methylphenol	108	3.979	3.979	0.0	91	287795	46.6	
30 Acetophenone	105	4.040	4.040	0.0	95	411877	47.0	
32 N-Nitrosodi-n-propylamine	70	4.049	4.049	0.0	93	203813	46.8	
28 3 & 4 Methylphenol	108	4.078	4.078	0.0	0	305107	46.4	
33 Hexachloroethane	117	4.092	4.092	0.0	94	122705	48.7	
* 37 Naphthalene-d8	136	4.571	4.571	0.0	99	754693	40.0	
$ 46 Nitrobenzene-d5	82	4.134	4.134	0.0	86	313629	50.8	
47 Nitrobenzene	77	4.148	4.148	0.0	76	301040	50.7	
48 Isophorone	82	4.294	4.294	0.0	96	559768	49.2	
49 2-Nitrophenol	139	4.341	4.341	0.0	93	197980	52.2	
50 2,4-Dimethylphenol	107	4.393	4.393	0.0	91	316131	50.0	
52 Bis(2-chloroethoxy)methane	93	4.435	4.435	0.0	98	325213	47.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
51 Benzoic acid	105	4.487	4.487	0.0	85	305956	53.3	
53 2,4-Dichlorophenol	162	4.506	4.506	0.0	89	296268	51.9	
55 1,2,4-Trichlorobenzene	180	4.538	4.538	0.0	95	292870	50.1	
56 Naphthalene	128	4.585	4.585	0.0	95	925019	48.2	
57 4-Chloroaniline	127	4.633	4.633	0.0	85	460612	52.3	
59 Hexachlorobutadiene	225	4.661	4.661	0.0	94	165790	53.7	
42 Caprolactam	113	4.858	4.858	0.0	87	138253	47.7	
62 4-Chloro-3-methylphenol	107	4.962	4.962	0.0	89	305724	50.9	
65 2-Methylnaphthalene	142	5.023	5.023	0.0	86	714387	49.9	
66 1-Methylnaphthalene	142	5.084	5.084	0.0	81	673282	49.7	
45 1,2,4,5-Tetrachlorobenzene	216	5.136	5.136	0.0	93	315847	52.0	
43 1,1'-Biphenyl	154	5.347	5.347	0.0	95	850445	49.3	
* 72 Acenaphthene-d10	164	5.789	5.789	0.0	90	519393	40.0	
76 Hexachlorocyclopentadiene	237	5.126	5.126	0.0	94	101161	43.4	
77 2,4,6-Trichlorophenol	196	5.230	5.230	0.0	89	223225	51.1	
78 2,4,5-Trichlorophenol	196	5.267	5.267	0.0	96	236665	50.7	
$ 79 2-Fluorobiphenyl (Surr)	172	5.277	5.277	0.0	99	774686	49.1	
83 2-Chloronaphthalene	162	5.361	5.361	0.0	95	655032	49.0	
84 2-Nitroaniline	65	5.451	5.451	0.0	93	189204	48.2	
85 Dimethyl phthalate	163	5.592	5.592	0.0	99	823155	49.3	
81 1,3-Dinitrobenzene	168	5.620	5.620	0.0	97	165428	49.4	
86 2,6-Dinitrotoluene	165	5.639	5.639	0.0	67	210678	51.8	
87 Acenaphthylene	152	5.672	5.672	0.0	90	1108988	49.3	
88 3-Nitroaniline	138	5.780	5.780	0.0	92	253189	47.7	
89 Acenaphthene	153	5.813	5.813	0.0	93	710960	48.7	
90 2,4-Dinitrophenol	184	5.869	5.869	0.0	83	304903	102.0	
92 Dibenzofuran	168	5.963	5.963	0.0	85	1018596	49.0	
93 2,4-Dinitrotoluene	165	5.973	5.973	0.0	92	293631	50.9	
91 4-Nitrophenol	65	5.982	5.982	0.0	90	297757	89.6	
96 2,3,4,6-Tetrachlorophenol	232	6.085	6.085	0.0	70	212950	52.0	
97 Diethyl phthalate	149	6.194	6.194	0.0	98	835085	50.5	
196 Hexadecane	57	6.212	6.212	0.0	0	343840	46.9	
99 Fluorene	166	6.264	6.264	0.0	84	862802	49.5	
98 4-Chlorophenyl phenyl ether	204	6.278	6.278	0.0	89	392464	49.2	
100 4-Nitroaniline	138	6.321	6.321	0.0	90	258428	47.2	
101 Azobenzene	77	6.424	6.424	0.0	96	677928	48.7	
* 106 Phenanthrene-d10	188	7.186	7.186	0.0	96	946517	40.0	
116 4,6-Dinitro-2-methylphenol	198	6.344	6.344	0.0	84	396712	102.1	
117 N-Nitrosodiphenylamine	169	6.396	6.396	0.0	57	552671	50.3	
$ 119 2,4,6-Tribromophenol	330	6.499	6.499	0.0	91	146734	51.9	
120 4-Bromophenyl phenyl ether	248	6.748	6.748	0.0	57	251538	52.4	
121 Hexachlorobenzene	284	6.791	6.791	0.0	93	278204	50.5	
112 Atrazine	200	6.955	6.955	0.0	92	213908	43.2	
124 Pentachlorophenol	266	7.012	7.012	0.0	87	329115	97.8	
115 n-Octadecane	57	7.143	7.143	0.0	96	374195	48.1	
126 Phenanthrene	178	7.209	7.209	0.0	97	1229118	48.8	
129 Anthracene	178	7.266	7.266	0.0	97	1270473	49.6	
131 Carbazole	167	7.463	7.463	0.0	82	1290490	49.0	
132 Di-n-butyl phthalate	149	7.900	7.900	0.0	100	1411630	50.7	
135 Fluoranthene	202	8.526	8.526	0.0	97	1432392	50.0	
* 140 Chrysene-d12	240	10.209	10.209	0.0	79	1145710	40.0	
145 Benzidine	184	8.733	8.733	0.0	99	326737	32.7	

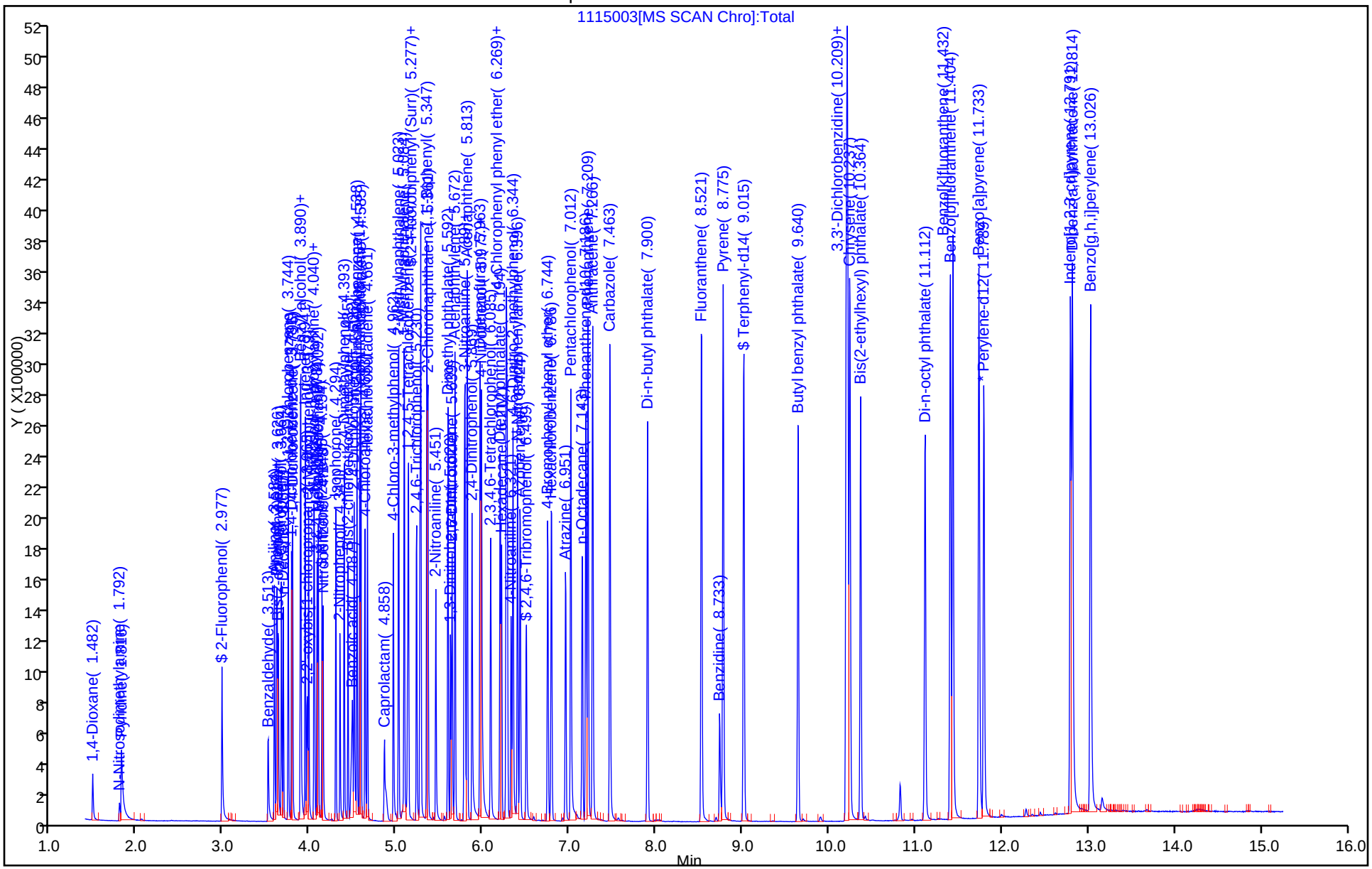
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
146 Pyrene	202	8.775	8.775	0.0	94	1455743	48.6	
$ 147 Terphenyl-d14	244	9.015	9.015	0.0	99	1085415	49.5	
150 Butyl benzyl phthalate	149	9.640	9.640	0.0	93	707350	47.9	
152 Benzo[a]anthracene	228	10.200	10.200	0.0	99	1432524	48.2	
151 3,3'-Dichlorobenzidine	252	10.219	10.219	0.0	73	538440	48.7	
153 Chrysene	228	10.237	10.237	0.0	86	1377834	48.3	
154 Bis(2-ethylhexyl) phthalate	149	10.364	10.364	0.0	94	928897	47.5	
* 156 Perylene-d12	264	11.789	11.789	0.0	82	1170023	40.0	
158 Di-n-octyl phthalate	149	11.112	11.112	0.0	99	1578106	46.6	
159 Benzo[b]fluoranthene	252	11.404	11.404	0.0	92	1514363	47.9	
161 Benzo[k]fluoranthene	252	11.432	11.432	0.0	94	1617581	49.2	
162 Benzo[a]pyrene	252	11.733	11.733	0.0	76	1477352	49.3	
164 Indeno[1,2,3-cd]pyrene	276	12.791	12.791	0.0	94	1827107	49.2	
165 Dibenz(a,h)anthracene	278	12.814	12.814	0.0	81	1550709	49.6	
166 Benzo[g,h,i]perylene	276	13.026	13.026	0.0	93	1542608	49.4	
S 167 Total Cresols	1				0		93.0	
S 172 Methyl Phenols,Total	1				0		93.0	

Report Date: 15-Nov-2013 16:15:37 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131115-28515.b\1115003.D

Injection Date:	15-Nov-2013 14:06:30	Instrument ID:	HP31	Operator ID:	HP-31
Lims ID:	CCVIS	Lab Sample ID:		Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8270HP31	Limit Group:	MSS 8270C ICAL		



TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022002.D		
Lims ID:	DFTPP	Client ID:	
Inject. Date:	22-Oct-2013 16:47:30	Dil. Factor:	1.0000
Sample Type:	DFTPP		
Sample ID:	DFTPP		
Misc. Info.:	490-0027160-002		
Operator:	HP-31	Instrument ID:	HP31
Injection Vol:	1.0 ul	ALS Bottle#:	2
Lims Batch ID:	116166	Lims Sample ID:	2
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\8270HP31.m		
Last Update:	24-Oct-2013 12:55:25	Calib Date:	22-Oct-2013 19:23:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022009.D		
Limit Group:	MSS 8270C ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK049		

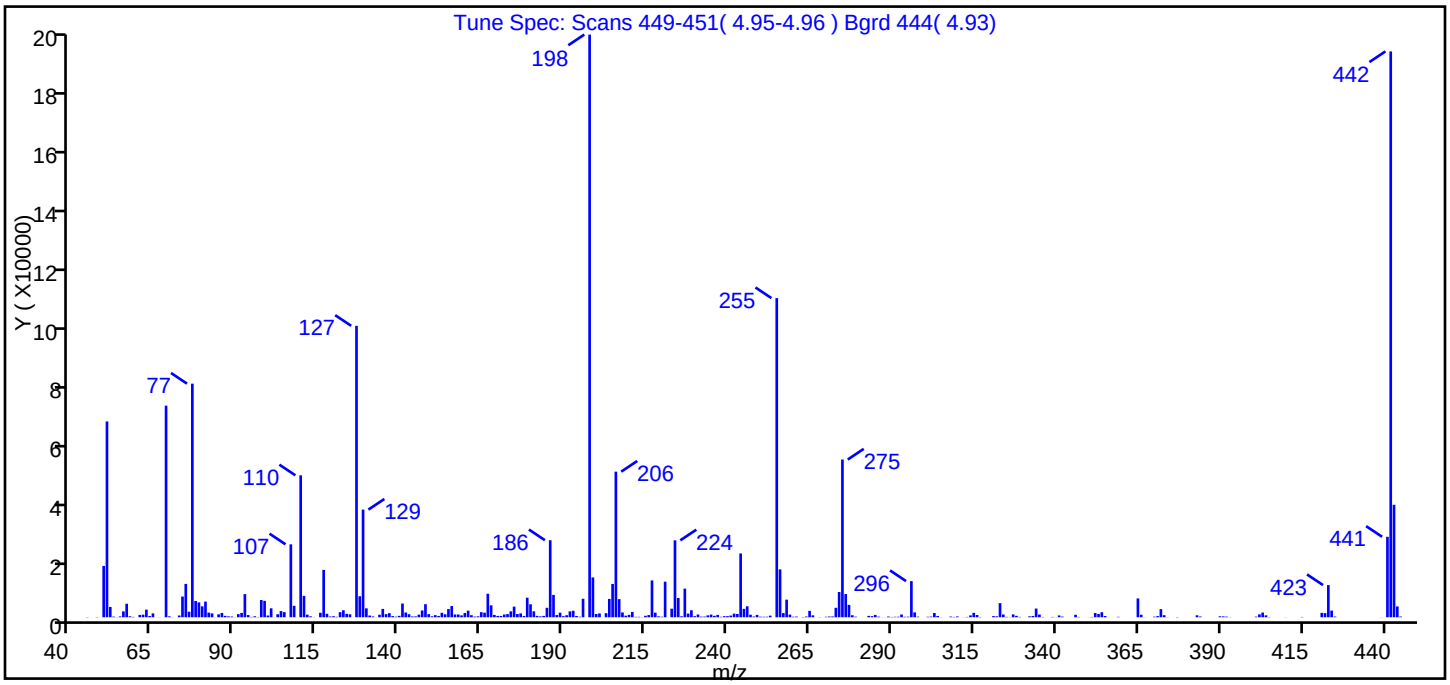
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
175 Pentachlorophenol_T	266	4.524	4.524	0.0	88	239929	0	
177 DFTPP								
178 Benzidine_T	184	6.316	6.316	0.0	99	1562881	0	
180 4,4'-DDD	235	7.416	7.416	0.0	1	182	0	
181 4,4'-DDT	235	7.708	7.708	0.0	98	592405	0	

MS Tune Report

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022002.D		
Injection Date:	22-Oct-2013 16:47:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	2
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	
Tune Method:	DFTPP Method 8270		

177 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	33.61
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Present	36.31
70	Less than 2.00% of mass 69	0.15 (0.43)
127	40.00 - 60.00% of mass 198	50.02
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.84
275	10.00 - 30.00% of mass 198	27.07
365	Greater than 1.00% of mass 198	3.23
441	Present, but less than mass 443%	13.81 (71.53)
442	Greater than 40.00% of mass 198	97.11
443	17.00 - 23.00% of mass 442	19.30 (19.88)

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022002.D\8270HP31.rslt\spectra.d
Injection Date: 22-Oct-2013 16:47:30
Spectrum: Tune Spec: Scans 449-451(4.95-4.96) Bgrd 444(4.93)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 307

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	75	133.00	36	212.00	142	297.00	1630
48.00	82	134.00	845	213.00	149	298.00	201
50.00	17184	135.00	2791	214.00	56	301.00	159
51.00	65560	136.00	1053	215.00	494	302.00	233
52.00	3455	137.00	1389	216.00	730	303.00	1427
53.00	214	138.00	388	217.00	12320	304.00	429
54.00	42	139.00	198	218.00	1537	305.00	35
55.00	280	140.00	470	219.00	310	308.00	228
56.00	1970	141.00	4594	220.00	180	309.00	114
57.00	4512	142.00	1591	221.00	11906	310.00	267
58.00	331	143.00	1010	223.00	2867	312.00	39
59.00	121	144.00	268	224.00	25752	313.00	115
61.00	792	145.00	292	225.00	6453	314.00	622
62.00	874	146.00	874	226.00	326	315.00	1477
63.00	2549	147.00	2279	227.00	9577	316.00	749
64.00	398	148.00	4382	228.00	1223	317.00	93
65.00	1298	149.00	1049	229.00	2343	321.00	390
67.00	43	150.00	326	230.00	356	322.00	312
69.00	70832	151.00	704	231.00	911	323.00	4724
70.00	302	152.00	438	232.00	217	324.00	918
71.00	37	153.00	1498	233.00	226	325.00	131
73.00	587	154.00	991	234.00	629	326.00	53
74.00	6936	155.00	2733	235.00	893	327.00	961
75.00	11169	156.00	3758	236.00	475	328.00	476
76.00	1862	157.00	928	237.00	795	329.00	126
77.00	78208	158.00	925	238.00	156	332.00	318
78.00	5454	159.00	627	239.00	359	333.00	440
79.00	4971	160.00	1434	240.00	379	334.00	2910
80.00	3656	161.00	2214	241.00	559	335.00	912
81.00	5248	162.00	694	242.00	1208	336.00	100
82.00	1556	163.00	222	243.00	1091	339.00	113
83.00	1292	164.00	319	244.00	21360	340.00	45
84.00	39	165.00	1699	245.00	2819	341.00	609

Report Date: 24-Oct-2013 12:55:25 Chrom Revision: 2.0 01-Apr-2013 21:16:10
Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022002.D\8270HP31.rslt\spectra.d
Injection Date: 22-Oct-2013 16:47:30
Spectrum: Tune Spec: Scans 449-451(4.95-4.96) Bgrd 444(4.93)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 307

m/z	Y	m/z	Y	m/z	Y	m/z	Y
85.00	982	166.00	1528	246.00	3674	342.00	217
86.00	1435	167.00	7869	247.00	844	346.00	832
87.00	464	168.00	4000	248.00	245	347.00	120
88.00	306	169.00	779	249.00	796	350.00	41
89.00	239	170.00	438	250.00	195	351.00	113
90.00	39	171.00	431	251.00	164	352.00	1417
91.00	1045	172.00	910	252.00	179	353.00	1087
92.00	1461	173.00	1057	253.00	539	354.00	1698
93.00	7750	174.00	1973	255.00	106848	355.00	418
94.00	732	175.00	3563	256.00	16032	359.00	153
95.00	123	176.00	1090	257.00	1396	365.00	6304
96.00	333	177.00	1288	258.00	5892	366.00	834
97.00	102	178.00	411	259.00	895	367.00	41
98.00	5784	179.00	6557	260.00	179	370.00	188
99.00	5495	180.00	4348	261.00	233	371.00	388
100.00	573	181.00	1997	263.00	94	372.00	2721
101.00	3001	182.00	462	264.00	247	373.00	691
102.00	34	183.00	298	265.00	2144	374.00	53
103.00	1003	184.00	453	266.00	638	377.00	89
104.00	2067	185.00	3170	268.00	62	383.00	656
105.00	1712	186.00	25800	270.00	160	384.00	252
107.00	24416	187.00	7476	271.00	251	390.00	324
108.00	3837	188.00	743	272.00	270	391.00	285
110.00	47520	189.00	1530	273.00	3170	392.00	213
111.00	7174	190.00	362	274.00	8453	393.00	43
112.00	872	191.00	681	275.00	52808	401.00	203
113.00	317	192.00	1977	276.00	7769	402.00	969
114.00	42	193.00	2173	277.00	4146	403.00	1568
116.00	1501	194.00	431	278.00	677	404.00	646
117.00	15853	195.00	175	279.00	199	405.00	72
118.00	1160	196.00	6188	283.00	462	410.00	37
119.00	258	198.00	195072	284.00	377	415.00	107
120.00	348	199.00	13337	285.00	771	421.00	1456
121.00	148	200.00	1084	286.00	214	422.00	1391

Report Date: 24-Oct-2013 12:55:25 Chrom Revision: 2.0 01-Apr-2013 21:16:10
Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022002.D\8270HP31.rslt\spectra.d
Injection Date: 22-Oct-2013 16:47:30
Spectrum: Tune Spec: Scans 449-451(4.95-4.96) Bgrd 444(4.93)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 307

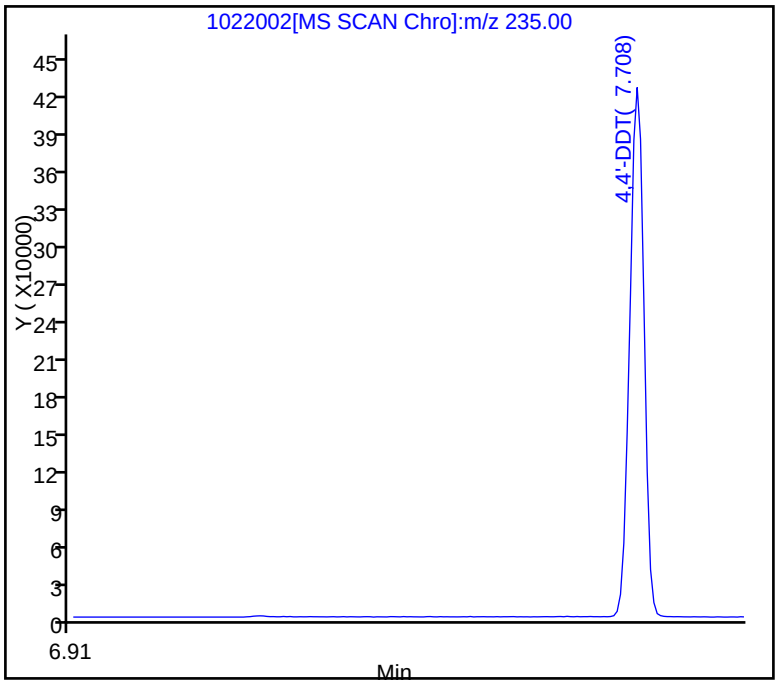
m/z	Y	m/z	Y	m/z	Y	m/z	Y
122.00	1698	201.00	1286	287.00	35	423.00	10770
123.00	2353	203.00	1359	288.00	34	424.00	2233
124.00	1145	204.00	6143	289.00	254	425.00	236
125.00	996	205.00	11149	290.00	106	439.00	37
127.00	97568	206.00	48744	291.00	160	441.00	26936
128.00	7032	207.00	6078	292.00	171	442.00	189440
129.00	36032	208.00	1614	293.00	917	443.00	37656
130.00	2986	209.00	520	294.00	160	444.00	3635
131.00	585	210.00	812	295.00	197	445.00	236
132.00	279	211.00	1787	296.00	12105		

Breakdown Report

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022002.D		
Injection Date:	22-Oct-2013 16:47:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	2
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

181 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

181 4,4'-DDT, Area = 592405
180 4,4'-DDD, Area = 182
179 4,4'-DDE, Area = 0

%Breakdown: 0.03%, Max Limit: 30.00%
Passed

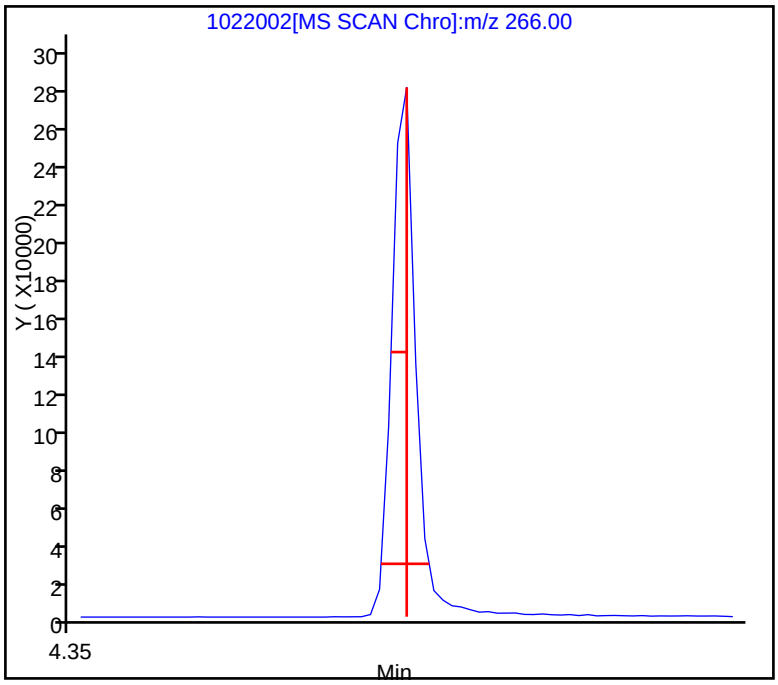
Peak Tailing Report

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022002.D

Injection Date:	22-Oct-2013 16:47:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	2
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

175 Pentachlorophenol_T, Detector: MS SCAN



Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.012 (min.)
Front Width = 0.013 (min.)

Tailing Factor = 0.9, Max. Tailing < 5.00
Passed

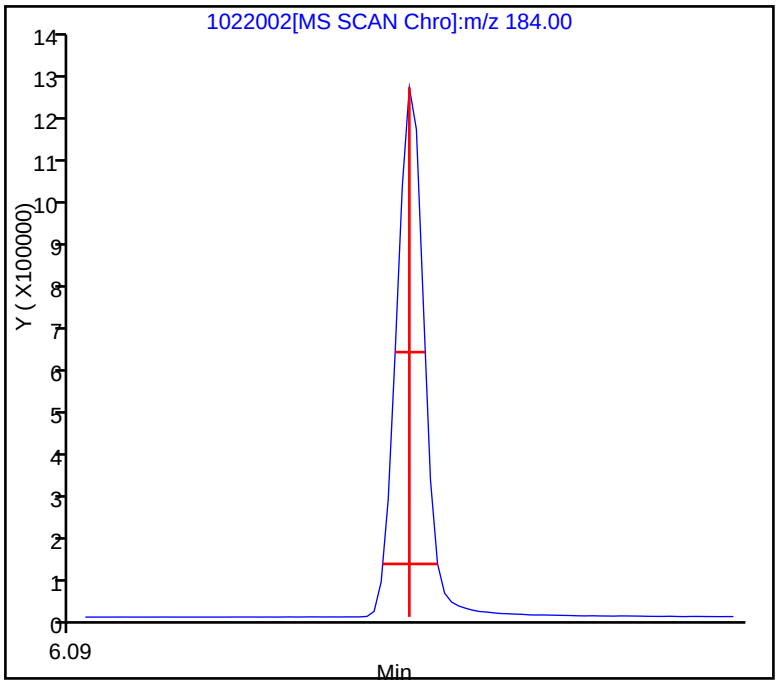
Peak Tailing Report

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022002.D

Injection Date:	22-Oct-2013 16:47:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	2
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

178 Benzidine_T, Detector: MS SCAN



Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.019 (min.)
Front Width = 0.018 (min.)

Tailing Factor = 1.1, Max. Tailing < 3.00
Passed

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\hp31\20131115-28515.b\1115002.D
Lims ID: DFTPP Lab Sample ID:
Client ID:
Sample Type: DFTPP
Inject. Date: 15-Nov-2013 13:48:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 490-0028515-002
Operator ID: HP-31 Instrument ID: HP31

Method: \\Nvlchrom\ChromData\hp31\20131115-28515.b\8270HP31.m
Limit Group: MSS 8270C ICAL
Last Update: 15-Nov-2013 16:14:23 Calib Date: 04-Nov-2013 11:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\hp31\20131103-27806.b\1104019.D

Column 1 : Detector MS SCAN
Process Host: XAWRK027

First Level Reviewer: phelpsk Date: 15-Nov-2013 16:14:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
175 Pentachlorophenol_T	266	4.208	4.208	0.0	86	191974	0	7
177 DFTPP								
178 Benzidine_T	184	5.858	5.858	0.0	98	1111373	0	7
180 4,4'-DDD	235	6.667	6.667	0.0	1	676	0	7
181 4,4'-DDT	235	7.165	7.165	0.0	98	433395	0	7

QC Flag Legend

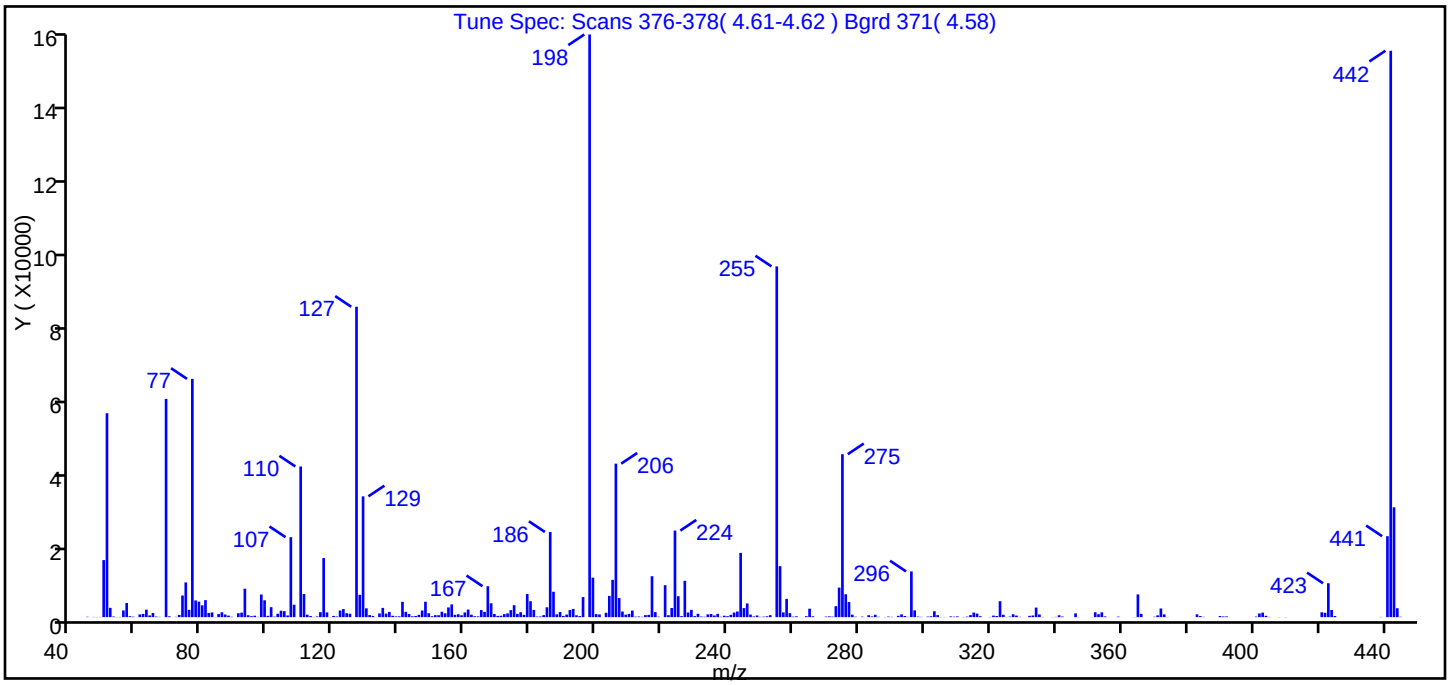
Processing Flags
7 - Failed Limit of Detection

MS Tune Report

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131115-28515.b\1115002.D
Injection Date: 15-Nov-2013 13:48:30 Instrument ID: HP31
Lims ID: DFTPP Lab Sample ID:
Client ID:
Operator ID: HP-31 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270HP31 Limit Group: MSS 8270C ICAL
Tune Method: DFTPP Method 8270

177 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	35.00
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Present	37.50
70	Less than 2.00% of mass 69	0.10 (0.40)
127	40.00 - 60.00% of mass 198	53.30
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.80
275	10.00 - 30.00% of mass 198	28.00
365	Greater than 1.00% of mass 198	3.90
441	Present, but less than mass 443%	13.90 (73.70)
442	Greater than 40.00% of mass 198	97.20
443	17.00 - 23.00% of mass 442	18.90 (19.40)

Data File: \\Nvlchrom\ChromData\hp31\20131115-28515.b\1115002.D\8270HP31.rslt\spectra.d
Injection Date: 15-Nov-2013 13:48:30
Spectrum: Tune Spec: Scans 376-378(4.61-4.62) Bgrd 371(4.58)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 310

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	94	130.00	2286	210.00	848	298.00	139
47.00	59	131.00	539	211.00	1696	299.00	79
48.00	46	132.00	315	212.00	123	301.00	141
49.00	49	133.00	15	213.00	171	302.00	224
50.00	14800	134.00	964	214.00	83	303.00	1526
51.00	52880	135.00	2396	215.00	538	304.00	527
52.00	2406	136.00	908	216.00	607	305.00	39
53.00	159	137.00	1359	217.00	10613	306.00	41
54.00	45	138.00	353	218.00	1307	308.00	192
55.00	50	139.00	191	219.00	119	309.00	116
56.00	1734	140.00	215	221.00	8285	310.00	190
57.00	3668	141.00	3969	222.00	504	312.00	45
58.00	243	142.00	1371	223.00	2377	313.00	140
59.00	122	143.00	817	224.00	22448	314.00	533
61.00	704	144.00	217	225.00	5432	315.00	1181
62.00	838	145.00	302	226.00	265	316.00	916
63.00	1941	146.00	600	227.00	9425	317.00	242
64.00	442	147.00	1720	228.00	1206	320.00	56
65.00	1093	148.00	3998	229.00	1888	321.00	393
66.00	147	149.00	1014	230.00	275	322.00	286
67.00	73	150.00	240	231.00	868	323.00	4137
69.00	56592	151.00	511	232.00	155	324.00	619
70.00	208	152.00	499	233.00	100	325.00	41
72.00	77	153.00	1397	234.00	709	326.00	145
73.00	576	154.00	992	235.00	816	327.00	750
74.00	5612	155.00	2520	236.00	424	328.00	409
75.00	8998	156.00	3309	237.00	854	329.00	65
76.00	1897	157.00	597	238.00	95	332.00	339
77.00	61792	158.00	754	239.00	370	333.00	427
78.00	4340	159.00	482	240.00	245	334.00	2484
79.00	4017	160.00	1210	241.00	595	335.00	693
80.00	3069	161.00	1965	242.00	1193	336.00	51
81.00	4411	162.00	632	243.00	1460	339.00	39

Report Date: 15-Nov-2013 16:14:24 Chrom Revision: 2.1 15-Oct-2013 07:52:24
Data File: \\Nvlchrom\ChromData\hp31\20131115-28515.b\1115002.D\8270HP31.rslt\spectra.d
Injection Date: 15-Nov-2013 13:48:30
Spectrum: Tune Spec: Scans 376-378(4.61-4.62) Bgrd 371(4.58)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 310

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	1092	163.00	239	244.00	16664	340.00	63
83.00	1221	164.00	197	245.00	2348	341.00	492
84.00	37	165.00	1846	246.00	3556	342.00	154
85.00	815	166.00	1361	247.00	674	346.00	983
86.00	1271	167.00	8020	248.00	179	347.00	40
87.00	688	168.00	3591	249.00	431	351.00	35
88.00	400	169.00	809	250.00	76	352.00	1263
89.00	91	170.00	318	251.00	127	353.00	758
91.00	1011	171.00	360	252.00	220	354.00	1247
92.00	1167	172.00	781	253.00	514	355.00	183
93.00	7379	173.00	976	255.00	90960	359.00	139
94.00	497	174.00	1825	256.00	13230	364.00	37
95.00	254	175.00	3099	257.00	1235	365.00	5901
96.00	376	176.00	855	258.00	4736	366.00	855
97.00	70	177.00	1280	259.00	1025	370.00	103
98.00	5883	178.00	596	260.00	123	371.00	463
99.00	4373	179.00	5992	261.00	218	372.00	2247
100.00	341	180.00	4123	264.00	252	373.00	719
101.00	2586	181.00	1874	265.00	2190	374.00	46
102.00	129	182.00	156	266.00	220	383.00	733
103.00	883	183.00	166	270.00	145	384.00	279
104.00	1662	184.00	523	271.00	201	385.00	74
105.00	1556	185.00	2555	272.00	124	390.00	295
106.00	435	186.00	22088	273.00	2850	391.00	178
107.00	20744	187.00	6580	274.00	7659	392.00	190
108.00	3215	188.00	730	275.00	42256	401.00	143
110.00	39072	189.00	1324	276.00	5940	402.00	957
111.00	6001	190.00	312	277.00	3912	403.00	1174
112.00	638	191.00	671	278.00	639	404.00	346
113.00	299	192.00	1849	279.00	116	405.00	54
114.00	56	193.00	2131	281.00	133	408.00	36
115.00	182	194.00	486	282.00	16	410.00	36
116.00	1284	195.00	285	283.00	498	421.00	1260
117.00	15324	196.00	5214	284.00	186	422.00	1129

Report Date: 15-Nov-2013 16:14:24 Chrom Revision: 2.1 15-Oct-2013 07:52:24
Data File: \\Nvlchrom\ChromData\hp31\20131115-28515.b\1115002.D\8270HP31.rslt\spectra.d
Injection Date: 15-Nov-2013 13:48:30
Spectrum: Tune Spec: Scans 376-378(4.61-4.62) Bgrd 371(4.58)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 310

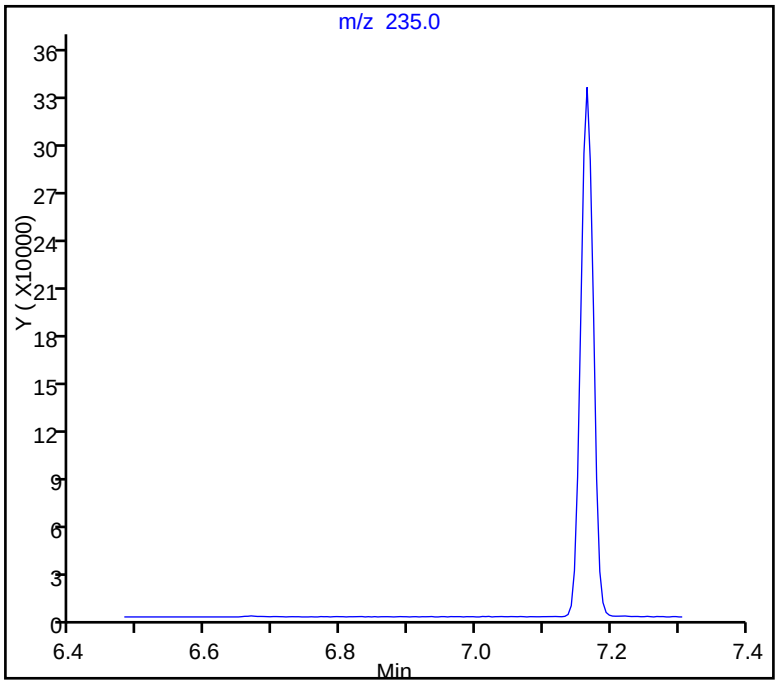
m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	1225	198.00	151104	285.00	619	423.00	8785
119.00	37	199.00	10238	286.00	101	424.00	1862
120.00	314	200.00	786	288.00	43	425.00	294
121.00	169	201.00	703	289.00	137	439.00	53
122.00	1717	203.00	1133	290.00	80	441.00	20992
123.00	2089	204.00	5516	292.00	346	442.00	146880
124.00	1022	205.00	9670	293.00	716	443.00	28488
125.00	892	206.00	39808	294.00	298	444.00	2313
127.00	80496	207.00	4953	295.00	72	445.00	93
128.00	5798	208.00	1450	296.00	11855		
129.00	31328	209.00	647	297.00	1749		

Breakdown Report

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131115-28515.b\1115002.D
Injection Date: 15-Nov-2013 13:48:30 Instrument ID: HP31
Lims ID: DFTPP Lab Sample ID:
Client ID:
Operator ID: HP-31 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270HP31 Limit Group: MSS 8270C ICAL

181 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

181 4,4'-DDT, Area = 433395
180 4,4'-DDD, Area = 676
179 4,4'-DDE, Area = 0

%Breakdown: 0.16%, Max Limit: 30.00%
Passed

Peak Tailing Report

TestAmerica Nashville

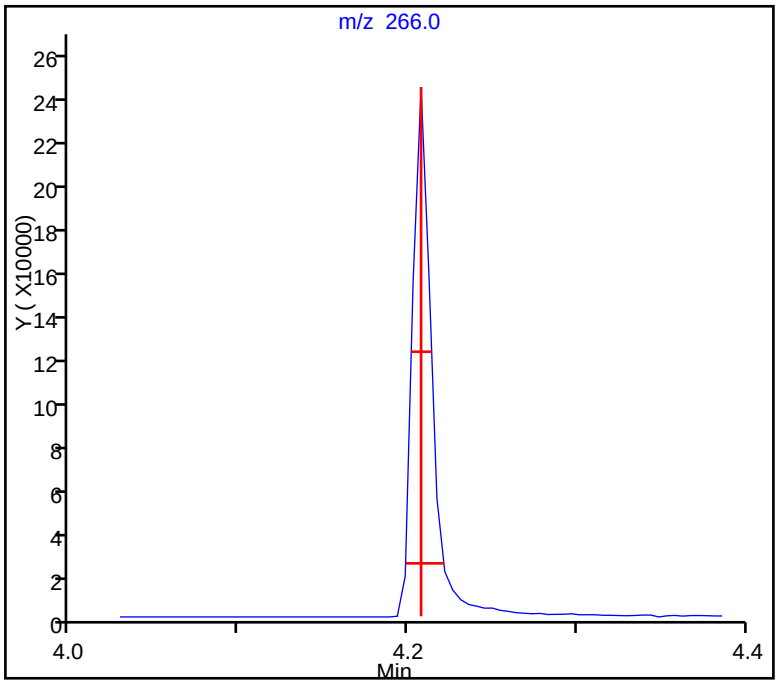
Data File: \\Nvlchrom\ChromData\hp31\20131115-28515.b\1115002.D
Injection Date: 15-Nov-2013 13:48:30 Instrument ID: HP31
Lims ID: DFTPP Lab Sample ID:
Client ID:
Operator ID: HP-31 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270HP31 Limit Group: MSS 8270C ICAL

175 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.014 (min.)
Front Width = 0.009 (min.)

Tailing Factor = 1.5, Max. Tailing < 5.00
Passed



Peak Tailing Report

TestAmerica Nashville

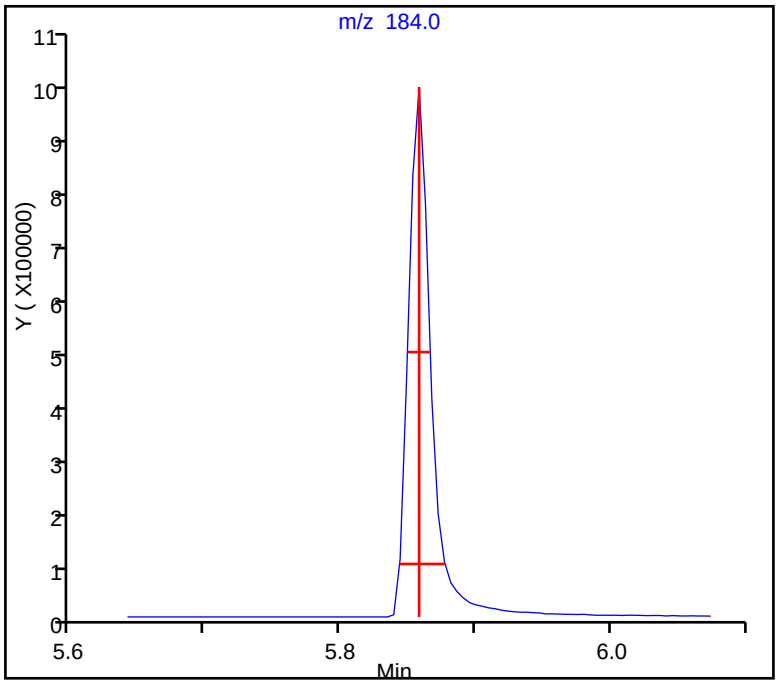
Data File: \\Nvlchrom\ChromData\hp31\20131115-28515.b\1115002.D
Injection Date: 15-Nov-2013 13:48:30 Instrument ID: HP31
Lims ID: DFTPP Lab Sample ID:
Client ID:
Operator ID: HP-31 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270HP31 Limit Group: MSS 8270C ICAL

178 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.019 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 1.3, Max. Tailing < 3.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-121926/1-A

Matrix: Water | Lab File ID: 1115006.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/14/2013 11:54

Sample wt/vol: 1000(mL) | Date Analyzed: 11/15/2013 15:24

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122300 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		2.00	0.366
208-96-8	Acenaphthylene	ND		2.00	0.330
98-86-2	Acetophenone	ND		10.0	1.90
120-12-7	Anthracene	ND		2.00	0.883
1912-24-9	Atrazine	ND		10.0	3.70
100-52-7	Benzaldehyde	ND		10.0	2.15
56-55-3	Benzo[a]anthracene	ND		2.00	0.324
50-32-8	Benzo[a]pyrene	ND		2.00	0.330
205-99-2	Benzo[b]fluoranthene	ND		2.00	0.422
191-24-2	Benzo[g,h,i]perylene	ND		2.00	0.287
207-08-9	Benzo[k]fluoranthene	ND		2.00	0.364
92-52-4	Biphenyl	ND		10.0	3.33
111-91-1	Bis(2-chloroethoxy)methane	ND		10.0	1.36
111-44-4	Bis(2-chloroethyl)ether	ND		10.0	1.39
108-60-1	bis (2-chloroisopropyl) ether	ND		10.0	1.96
117-81-7	Bis(2-ethylhexyl) phthalate	ND		10.0	2.06
101-55-3	4-Bromophenyl phenyl ether	ND		10.0	1.37
85-68-7	Butyl benzyl phthalate	ND		10.0	1.74
105-60-2	Caprolactam	ND		10.0	3.33
86-74-8	Carbazole	ND		10.0	0.299
106-47-8	4-Chloroaniline	ND		10.0	1.17
59-50-7	4-Chloro-3-methylphenol	ND		10.0	3.33
91-58-7	2-Chloronaphthalene	ND		10.0	1.64
95-57-8	2-Chlorophenol	ND		10.0	1.59
7005-72-3	4-Chlorophenyl phenyl ether	ND		10.0	1.75
218-01-9	Chrysene	ND		2.00	1.09
53-70-3	Dibenz(a,h)anthracene	ND		2.00	0.644
132-64-9	Dibenzofuran	ND		10.0	0.339
91-94-1	3,3'-Dichlorobenzidine	ND		10.0	1.52
120-83-2	2,4-Dichlorophenol	ND		10.0	1.02
84-66-2	Diethyl phthalate	ND		10.0	1.62
105-67-9	2,4-Dimethylphenol	ND		10.0	0.996
131-11-3	Dimethyl phthalate	ND		10.0	1.81
84-74-2	Di-n-butyl phthalate	ND		10.0	1.50

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-121926/1-A

Matrix: Water | Lab File ID: 1115006.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/14/2013 11:54

Sample wt/vol: 1000(mL) | Date Analyzed: 11/15/2013 15:24

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122300 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
534-52-1	4,6-Dinitro-2-methylphenol	ND		25.0	2.07
51-28-5	2,4-Dinitrophenol	ND		25.0	2.46
121-14-2	2,4-Dinitrotoluene	ND		10.0	3.33
606-20-2	2,6-Dinitrotoluene	ND		10.0	1.94
117-84-0	Di-n-octyl phthalate	ND		10.0	2.31
206-44-0	Fluoranthene	ND		2.00	0.347
86-73-7	Fluorene	ND		2.00	0.316
118-74-1	Hexachlorobenzene	ND		10.0	1.69
87-68-3	Hexachlorobutadiene	ND		10.0	3.33
77-47-4	Hexachlorocyclopentadiene	ND		10.0	3.33
67-72-1	Hexachloroethane	ND		10.0	3.33
193-39-5	Indeno[1,2,3-cd]pyrene	ND		2.00	0.381
78-59-1	Isophorone	ND		10.0	1.24
91-57-6	2-Methylnaphthalene	ND		2.00	0.311
95-48-7	2-Methylphenol	ND		10.0	3.33
15831-10-4	3 & 4 Methylphenol	ND		10.0	3.33
91-20-3	Naphthalene	ND		2.00	0.398
88-74-4	2-Nitroaniline	ND		25.0	1.04
99-09-2	3-Nitroaniline	ND		25.0	1.85
100-01-6	4-Nitroaniline	ND		25.0	2.39
98-95-3	Nitrobenzene	ND		10.0	1.24
88-75-5	2-Nitrophenol	ND		10.0	1.57
100-02-7	4-Nitrophenol	ND		25.0	3.33
621-64-7	N-Nitrosodi-n-propylamine	ND		10.0	1.42
86-30-6	n-Nitrosodiphenylamine(as diphenylamine)	ND		10.0	1.44
87-86-5	Pentachlorophenol	ND		25.0	1.65
85-01-8	Phenanthrene	ND		2.00	0.343
108-95-2	Phenol	ND		10.0	3.45
129-00-0	Pyrene	ND		2.00	0.331
95-95-4	2,4,5-Trichlorophenol	ND		25.0	2.03
88-06-2	2,4,6-Trichlorophenol	ND		10.0	1.76

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-121926/1-A

Matrix: Water | Lab File ID: 1115006.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/14/2013 11:54

Sample wt/vol: 1000(mL) | Date Analyzed: 11/15/2013 15:24

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122300 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	76		29-120
367-12-4	2-Fluorophenol (Surr)	34		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	71		27-120
4165-62-2	Phenol-d5 (Surr)	18		10-120
1718-51-0	Terphenyl-d14 (Surr)	86		13-120
118-79-6	2,4,6-Tribromophenol (Surr)	75		10-120

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\hp31\20131115-28515.b\1115006.D
Lims ID: MB 490-121926/1-A Lab Sample ID: MB 490-121926/1-A
Client ID:
Sample Type: MB
Inject. Date: 15-Nov-2013 15:24:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 490-121926/1-A
Misc. Info.: 490-0028515-006
Operator ID: HP-31 Instrument ID: HP31

Method: \\Nvlchrom\ChromData\hp31\20131115-28515.b\8270HP31.m
Limit Group: MSS 8270C ICAL
Last Update: 18-Nov-2013 09:36:44 Calib Date: 04-Nov-2013 11:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\hp31\20131103-27806.b\1104019.D

Column 1 : Detector MS SCAN
Process Host: XAWRK006

First Level Reviewer: phelpsk Date: 18-Nov-2013 09:36:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.785	3.782	0.003	93	183128	40.0	
$ 11 2-Fluorophenol	112	2.981	2.977	0.004	90	90085	16.8	
$ 15 Phenol-d5	99	3.616	3.607	0.009	0	63398	8.78	
* 37 Naphthalene-d8	136	4.571	4.572	-0.001	99	721840	40.0	
$ 46 Nitrobenzene-d5	82	4.133	4.134	-0.001	86	208980	35.4	
* 72 Acenaphthene-d10	164	5.784	5.785	-0.001	87	466951	40.0	
$ 79 2-Fluorobiphenyl (Surr)	172	5.276	5.277	-0.001	99	540546	38.1	
A 75 C10-C28	1	6.000	2.000 -	10.000	0	12383994	0	
* 106 Phenanthrene-d10	188	7.185	7.186	-0.001	96	827249	40.0	
$ 119 2,4,6-Tribromophenol	330	6.499	6.499	0.0	91	92931	37.6	
* 140 Chrysene-d12	240	10.204	10.205	-0.001	79	1016118	40.0	
$ 147 Terphenyl-d14	244	9.014	9.015	-0.001	96	832741	42.8	
154 Bis(2-ethylhexyl) phthalate	149	10.364	10.364	0.0	94	14636	1.55	
* 156 Perylene-d12	264	11.788	11.789	-0.001	86	1075227	40.0	
A 176 C10-C21	1	6.000	4.000 -	8.000	0	8358241	0	7
A 182 C21-C35	1	10.000	8.000 -	12.000	0	8101235	0	7

QC Flag Legend

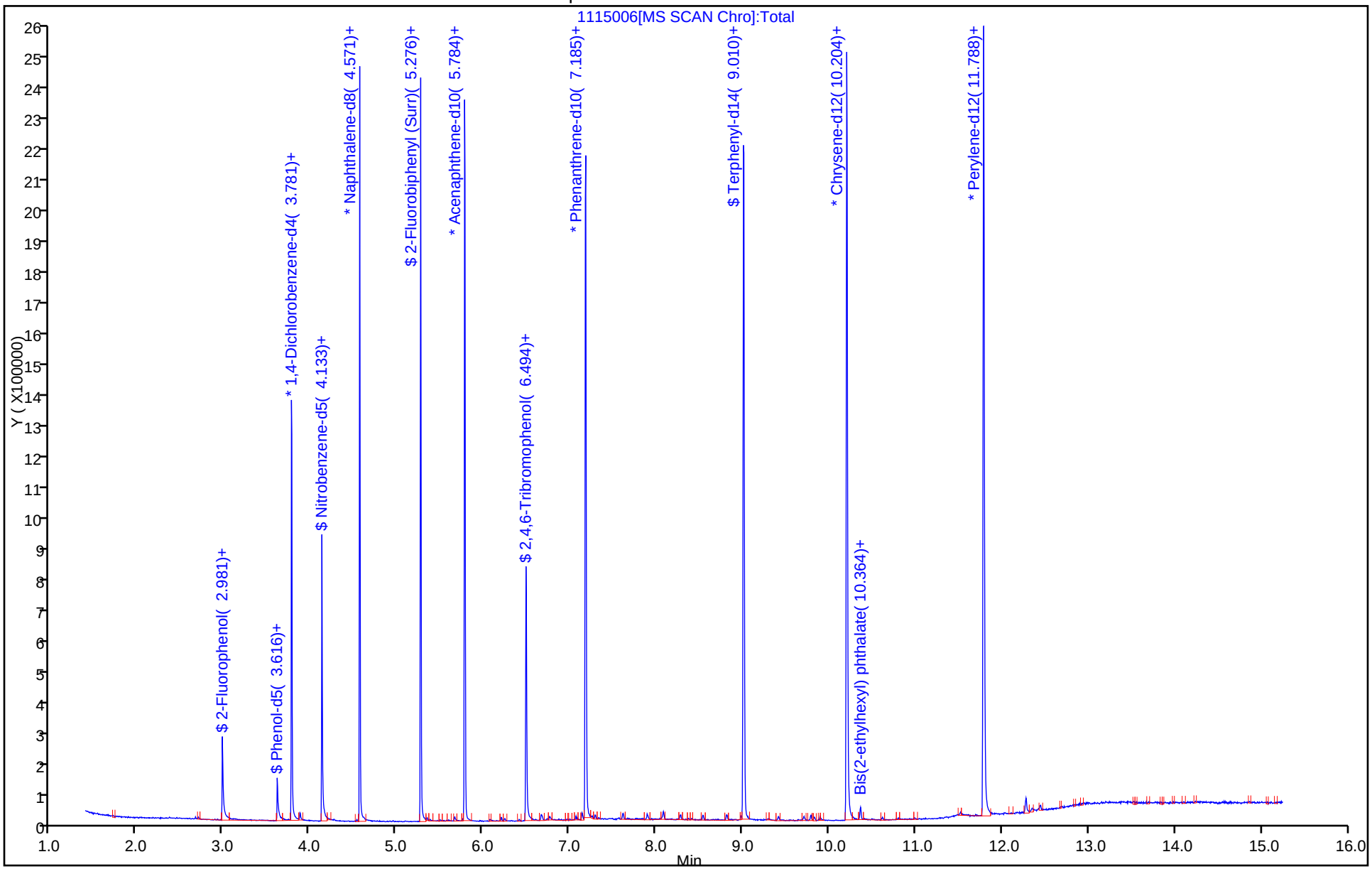
Processing Flags
7 - Failed Limit of Detection

Report Date: 18-Nov-2013 09:36:45 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131115-28515.b\1115006.D

Injection Date:	15-Nov-2013 15:24:30	Instrument ID:	HP31	Operator ID:	HP-31
Lims ID:	MB 490-121926/1-A	Lab Sample ID:	MB 490-121926/1-A	Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8270HP31	Limit Group:	MSS 8270C ICAL		



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-121926/2-A

Matrix: Water | Lab File ID: 1115007.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/14/2013 11:54

Sample wt/vol: 1000(mL) | Date Analyzed: 11/15/2013 15:47

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122300 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	47.24		2.00	0.366
208-96-8	Acenaphthylene	46.86		2.00	0.330
98-86-2	Acetophenone	46.09		10.0	1.90
120-12-7	Anthracene	48.09		2.00	0.883
1912-24-9	Atrazine	51.11		10.0	3.70
100-52-7	Benzaldehyde	75.01		10.0	2.15
56-55-3	Benzo[a]anthracene	48.37		2.00	0.324
50-32-8	Benzo[a]pyrene	47.40		2.00	0.330
205-99-2	Benzo[b]fluoranthene	45.81		2.00	0.422
191-24-2	Benzo[g,h,i]perylene	47.95		2.00	0.287
207-08-9	Benzo[k]fluoranthene	49.46		2.00	0.364
92-52-4	Biphenyl	45.75		10.0	3.33
111-91-1	Bis(2-chloroethoxy)methane	44.77		10.0	1.36
111-44-4	Bis(2-chloroethyl)ether	41.97		10.0	1.39
108-60-1	bis (2-chloroisopropyl) ether	39.45		10.0	1.96
117-81-7	Bis(2-ethylhexyl) phthalate	48.35		10.0	2.06
101-55-3	4-Bromophenyl phenyl ether	51.05		10.0	1.37
85-68-7	Butyl benzyl phthalate	49.08		10.0	1.74
105-60-2	Caprolactam	11.45		10.0	3.33
86-74-8	Carbazole	48.49		10.0	0.299
106-47-8	4-Chloroaniline	46.82		10.0	1.17
59-50-7	4-Chloro-3-methylphenol	50.21		10.0	3.33
91-58-7	2-Chloronaphthalene	44.84		10.0	1.64
95-57-8	2-Chlorophenol	43.55		10.0	1.59
7005-72-3	4-Chlorophenyl phenyl ether	48.33		10.0	1.75
218-01-9	Chrysene	49.82		2.00	1.09
53-70-3	Dibenz(a,h)anthracene	48.67		2.00	0.644
132-64-9	Dibenzofuran	47.62		10.0	0.339
91-94-1	3,3'-Dichlorobenzidine	47.73		10.0	1.52
120-83-2	2,4-Dichlorophenol	48.88		10.0	1.02
84-66-2	Diethyl phthalate	49.88		10.0	1.62
105-67-9	2,4-Dimethylphenol	39.98		10.0	0.996
131-11-3	Dimethyl phthalate	47.98		10.0	1.81
84-74-2	Di-n-butyl phthalate	50.61		10.0	1.50

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-121926/2-A

Matrix: Water | Lab File ID: 1115007.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/14/2013 11:54

Sample wt/vol: 1000(mL) | Date Analyzed: 11/15/2013 15:47

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122300 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
534-52-1	4,6-Dinitro-2-methylphenol	101.5		25.0	2.07
51-28-5	2,4-Dinitrophenol	97.76		25.0	2.46
121-14-2	2,4-Dinitrotoluene	50.51		10.0	3.33
606-20-2	2,6-Dinitrotoluene	51.60		10.0	1.94
117-84-0	Di-n-octyl phthalate	48.83		10.0	2.31
206-44-0	Fluoranthene	49.41		2.00	0.347
86-73-7	Fluorene	49.55		2.00	0.316
118-74-1	Hexachlorobenzene	49.65		10.0	1.69
87-68-3	Hexachlorobutadiene	35.28		10.0	3.33
77-47-4	Hexachlorocyclopentadiene	32.09		10.0	3.33
67-72-1	Hexachloroethane	28.80		10.0	3.33
193-39-5	Indeno[1,2,3-cd]pyrene	46.74		2.00	0.381
78-59-1	Isophorone	48.75		10.0	1.24
91-57-6	2-Methylnaphthalene	42.53		2.00	0.311
95-48-7	2-Methylphenol	38.16		10.0	3.33
15831-10-4	3 & 4 Methylphenol	34.14		10.0	3.33
91-20-3	Naphthalene	39.79		2.00	0.398
88-74-4	2-Nitroaniline	49.60		25.0	1.04
99-09-2	3-Nitroaniline	44.77		25.0	1.85
100-01-6	4-Nitroaniline	46.64		25.0	2.39
98-95-3	Nitrobenzene	47.70		10.0	1.24
88-75-5	2-Nitrophenol	49.12		10.0	1.57
100-02-7	4-Nitrophenol	37.56		25.0	3.33
621-64-7	N-Nitrosodi-n-propylamine	46.19		10.0	1.42
86-30-6	n-Nitrosodiphenylamine(as diphenylamine)	59.84		10.0	1.44
87-86-5	Pentachlorophenol	101.4		25.0	1.65
85-01-8	Phenanthrene	48.07		2.00	0.343
108-95-2	Phenol	15.98		10.0	3.45
129-00-0	Pyrene	48.14		2.00	0.331
95-95-4	2,4,5-Trichlorophenol	51.77		25.0	2.03
88-06-2	2,4,6-Trichlorophenol	50.63		10.0	1.76

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-121926/2-A

Matrix: Water | Lab File ID: 1115007.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/14/2013 11:54

Sample wt/vol: 1000(mL) | Date Analyzed: 11/15/2013 15:47

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122300 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	89		29-120
367-12-4	2-Fluorophenol (Surr)	45		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	92		27-120
4165-62-2	Phenol-d5 (Surr)	30		10-120
1718-51-0	Terphenyl-d14 (Surr)	95		13-120
118-79-6	2,4,6-Tribromophenol (Surr)	97		10-120

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\hp31\20131115-28515.b\1115007.D
Lims ID: LCS 490-121926/2-A Lab Sample ID: LCS 490-121926/2-A
Client ID:
Sample Type: LCS
Inject. Date: 15-Nov-2013 15:47:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 490-121926/2-A
Misc. Info.: 490-0028515-007
Operator ID: HP-31 Instrument ID: HP31

Method: \\Nvlchrom\ChromData\hp31\20131115-28515.b\8270HP31.m
Limit Group: MSS 8270C ICAL
Last Update: 18-Nov-2013 09:38:16 Calib Date: 04-Nov-2013 11:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\hp31\20131103-27806.b\1104019.D

Column 1 : Detector MS SCAN
Process Host: XAWRK006

First Level Reviewer: phelpsk Date: 18-Nov-2013 09:38:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.784	3.782	0.002	93	201589	40.0	
4 1,4-Dioxane	88	1.485	1.482	0.003	94	62495	26.0	
5 N-Nitrosodimethylamine	74	1.800	1.792	0.008	84	76081	23.6	
6 Pyridine	52	1.833	1.833	0.017	95	58183	14.9	M
$ 11 2-Fluorophenol	112	2.980	2.977	0.003	90	134032	22.7	
21 Benzaldehyde	105	3.511	3.513	-0.002	89	207525	75.0	
17 Aniline	93	3.582	3.584	-0.002	98	323909	34.4	
$ 15 Phenol-d5	99	3.615	3.607	0.008	0	119131	15.0	
16 Phenol	94	3.619	3.617	0.002	97	133786	16.0	
18 Bis(2-chloroethyl)ether	93	3.629	3.631	-0.002	99	257969	42.0	
19 2-Chlorophenol	128	3.666	3.664	0.002	94	304583	43.5	
20 n-Decane	57	3.685	3.685	-0.002	88	133974	23.8	
22 1,3-Dichlorobenzene	146	3.746	3.744	0.002	98	228346	29.8	
23 1,4-Dichlorobenzene	146	3.793	3.796	-0.003	94	239982	31.2	
25 1,2-Dichlorobenzene	146	3.887	3.885	0.002	95	239883	32.2	
24 Benzyl alcohol	108	3.892	3.890	0.002	93	180573	38.8	
2 Indene	115	3.939	3.941	-0.002	75	386349	33.5	
27 2,2'-oxybis[1-chloropropane]	121	3.963	3.963	-0.002	94	95503	39.5	M
26 2-Methylphenol	108	3.981	3.979	0.002	96	241325	38.2	
30 Acetophenone	105	4.043	4.040	0.003	95	413003	46.1	
32 N-Nitrosodi-n-propylamine	70	4.047	4.047	-0.002	91	205645	46.2	
28 3 & 4 Methylphenol	108	4.075	4.078	-0.003	0	229548	34.1	
33 Hexachloroethane	117	4.090	4.092	-0.002	97	74211	28.8	
* 37 Naphthalene-d8	136	4.569	4.572	-0.003	99	790736	40.0	
$ 46 Nitrobenzene-d5	82	4.137	4.134	0.003	85	298836	46.2	
47 Nitrobenzene	77	4.146	4.148	-0.002	82	296901	47.7	
48 Isophorone	82	4.296	4.294	0.002	95	580788	48.8	
49 2-Nitrophenol	139	4.343	4.341	0.002	88	195036	49.1	
50 2,4-Dimethylphenol	107	4.391	4.393	-0.003	93	264682	40.0	
52 Bis(2-chloroethoxy)methane	93	4.438	4.435	0.003	97	319294	44.8	
51 Benzoic acid	105	4.480	4.487	-0.007	87	189705	32.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
53 2,4-Dichlorophenol	162	4.508	4.506	0.002	90	292255	48.9	
55 1,2,4-Trichlorobenzene	180	4.541	4.538	0.003	95	230041	37.6	
56 Naphthalene	128	4.583	4.585	-0.002	97	799529	39.8	
57 4-Chloroaniline	127	4.630	4.633	-0.002	84	431704	46.8	
59 Hexachlorobutadiene	225	4.663	4.661	0.002	90	114135	35.3	
42 Caprolactam	113	4.851	4.858	-0.007	82	34757	11.5	
62 4-Chloro-3-methylphenol	107	4.955	4.962	-0.007	94	316279	50.2	
65 2-Methylnaphthalene	142	5.021	5.023	-0.002	86	638077	42.5	
66 1-Methylnaphthalene	142	5.086	5.084	0.002	81	607015	42.8	
45 1,2,4,5-Tetrachlorobenzene	216	5.133	5.136	-0.003	94	289021	45.4	
43 1,1'-Biphenyl	154	5.345	5.347	-0.002	95	826653	45.7	
* 72 Acenaphthene-d10	164	5.787	5.785	0.002	85	545982	40.0	
76 Hexachlorocyclopentadiene	237	5.124	5.126	-0.002	89	73777	32.1	
77 2,4,6-Trichlorophenol	196	5.227	5.230	-0.003	89	232579	50.6	
78 2,4,5-Trichlorophenol	196	5.265	5.267	-0.002	96	253780	51.8	
$ 79 2-Fluorobiphenyl (Surr)	172	5.279	5.277	0.002	99	741423	44.7	
83 2-Chloronaphthalene	162	5.359	5.361	-0.002	91	630007	44.8	
84 2-Nitroaniline	65	5.448	5.451	-0.003	90	204747	49.6	
85 Dimethyl phthalate	163	5.594	5.592	0.002	99	842033	48.0	
81 1,3-Dinitrobenzene	168	5.622	5.620	0.002	98	164823	46.8	
86 2,6-Dinitrotoluene	165	5.641	5.639	0.002	68	220563	51.6	
87 Acenaphthylene	152	5.674	5.672	0.002	90	1108200	46.9	
88 3-Nitroaniline	138	5.778	5.780	-0.002	95	249297	44.8	
89 Acenaphthene	153	5.815	5.813	0.002	93	724883	47.2	
90 2,4-Dinitrophenol	184	5.872	5.869	0.003	83	306473	97.8	
92 Dibenzofuran	168	5.961	5.963	-0.002	84	1039738	47.6	
93 2,4-Dinitrotoluene	165	5.975	5.973	0.002	78	306160	50.5	
91 4-Nitrophenol	65	5.985	5.982	0.003	86	127113	37.6	
96 2,3,4,6-Tetrachlorophenol	232	6.083	6.085	-0.002	70	217901	50.6	
97 Diethyl phthalate	149	6.196	6.194	0.002	99	866968	49.9	
196 Hexadecane	57	6.210	6.212	-0.002	0	352020	45.7	
99 Fluorene	166	6.267	6.264	0.003	84	907398	49.6	
98 4-Chlorophenyl phenyl ether	204	6.276	6.278	-0.002	91	405056	48.3	
100 4-Nitroaniline	138	6.323	6.321	0.002	92	268387	46.6	
101 Azobenzene	77	6.427	6.424	0.003	96	712563	48.7	
* 106 Phenanthrene-d10	188	7.188	7.186	0.002	96	1000821	40.0	
116 4,6-Dinitro-2-methylphenol	198	6.347	6.344	0.003	88	417066	101.5	
117 N-Nitrosodiphenylamine	169	6.398	6.396	0.002	57	695677	59.8	
$ 119 2,4,6-Tribromophenol	330	6.497	6.499	-0.002	92	144827	48.4	
120 4-Bromophenyl phenyl ether	248	6.746	6.748	-0.002	59	259200	51.0	
121 Hexachlorobenzene	284	6.789	6.791	-0.002	92	289059	49.6	
112 Atrazine	200	6.953	6.955	-0.002	92	267289	51.1	
124 Pentachlorophenol	266	7.014	7.012	0.002	87	360798	101.4	
115 n-Octadecane	57	7.146	7.146	0.003	97	398252	48.4	
126 Phenanthrene	178	7.212	7.209	0.003	97	1280126	48.1	
129 Anthracene	178	7.264	7.266	-0.002	97	1302812	48.1	
131 Carbazole	167	7.466	7.463	0.003	82	1350240	48.5	
132 Di-n-butyl phthalate	149	7.898	7.900	-0.002	100	1490051	50.6	
135 Fluoranthene	202	8.524	8.526	-0.002	98	1495880	49.4	
* 140 Chrysene-d12	240	10.212	10.205	0.007	80	1212007	40.0	
145 Benzidine	184	8.735	8.733	0.002	97	105661	10.2	
146 Pyrene	202	8.773	8.775	-0.002	94	1526478	48.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
$ 147 Terphenyl-d14	244	9.013	9.015	-0.002	96	1101375	47.5	
150 Butyl benzyl phthalate	149	9.643	9.640	0.003	94	767353	49.1	
152 Benzo[a]anthracene	228	10.198	10.200	-0.002	99	1522191	48.4	
151 3,3'-Dichlorobenzidine	252	10.216	10.219	-0.003	75	557777	47.7	
153 Chrysene	228	10.240	10.237	0.003	91	1501894	49.8	
154 Bis(2-ethylhexyl) phthalate	149	10.362	10.364	-0.002	95	1000782	48.4	
* 156 Perylene-d12	264	11.792	11.789	0.003	86	1232183	40.0	
158 Di-n-octyl phthalate	149	11.110	11.112	-0.002	99	1741029	48.8	
159 Benzo[b]fluoranthene	252	11.401	11.404	-0.003	92	1523810	45.8	
161 Benzo[k]fluoranthene	252	11.434	11.432	0.002	92	1711015	49.5	
162 Benzo[a]pyrene	252	11.735	11.733	0.002	77	1496538	47.4	
164 Indeno[1,2,3-cd]pyrene	276	12.793	12.791	0.002	91	1827362	46.7	
165 Dibenz(a,h)anthracene	278	12.812	12.814	-0.002	79	1602327	48.7	
166 Benzo[g,h,i]perylene	276	13.024	13.026	-0.002	92	1576320	48.0	

QC Flag Legend

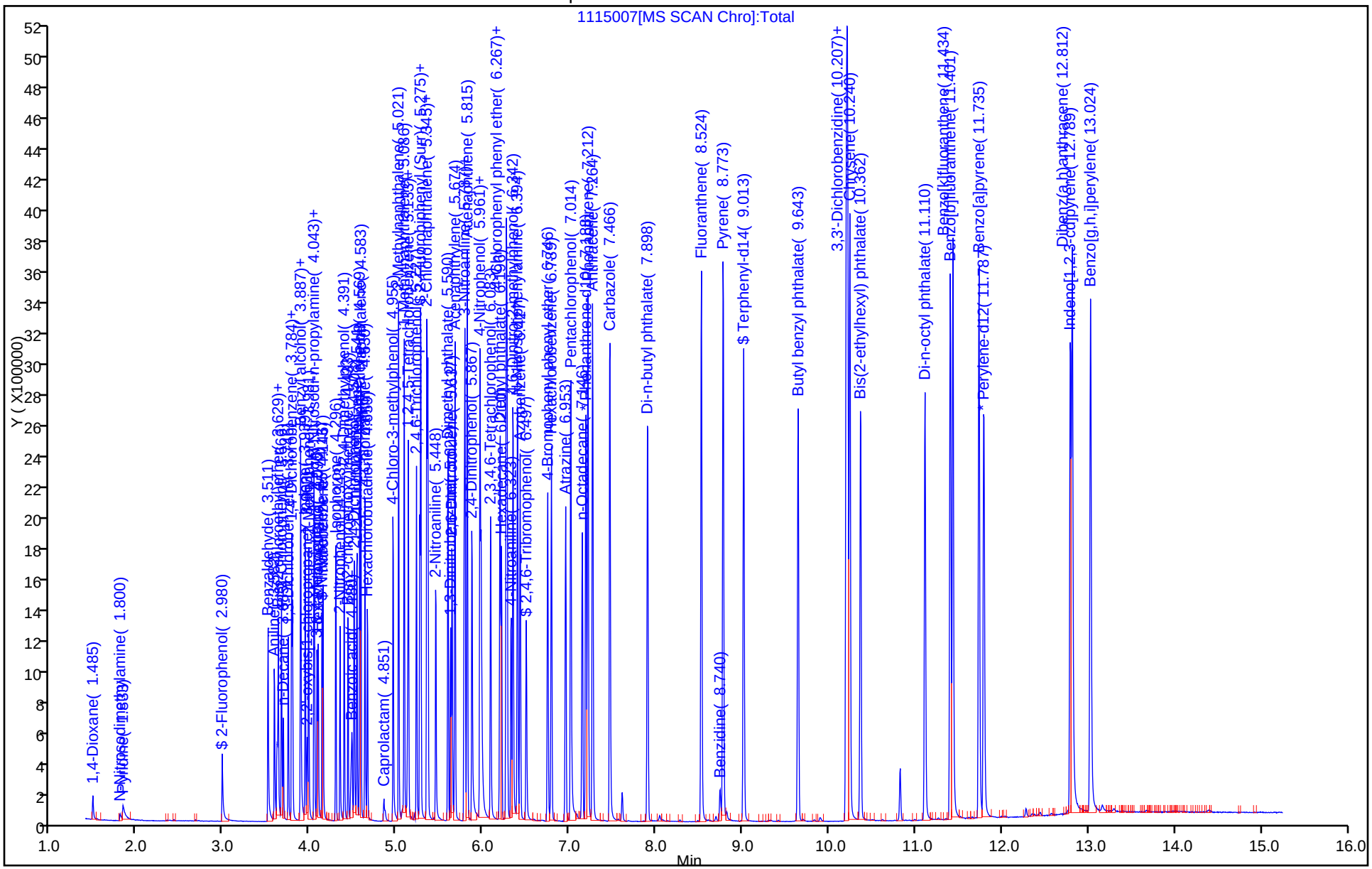
Review Flags
M - Manually Integrated

Report Date: 18-Nov-2013 09:38:16 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131115-28515.b\1115007.D

Injection Date:	15-Nov-2013 15:47:30	Instrument ID:	HP31	Operator ID:	HP-31
Lims ID:	LCS 490-121926/2-A	Lab Sample ID:	LCS 490-121926/2-A	Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8270HP31	Limit Group:	MSS 8270C ICAL		



Manual Integration/User Assign Peak Report

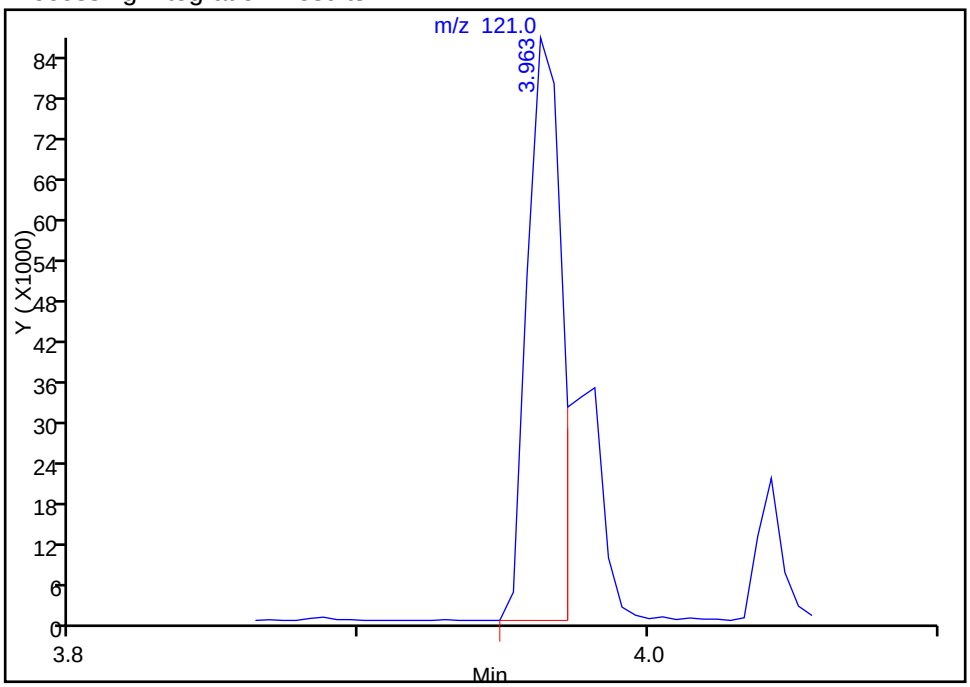
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131115-28515.b\1115007.D				
Injection Date:	15-Nov-2013 15:47:30	Instrument ID:	HP31		
Lims ID:	LCS 490-121926/2-A	Lab Sample ID:	LCS 490-121926/2-A		
Client ID:					
Operator ID:	HP-31	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270HP31	Limit Group:	MSS 8270C ICAL		
Column:		Detector	MS SCAN		

27 2,2'-oxybis[1-chloropropane], CAS: 108-60-1

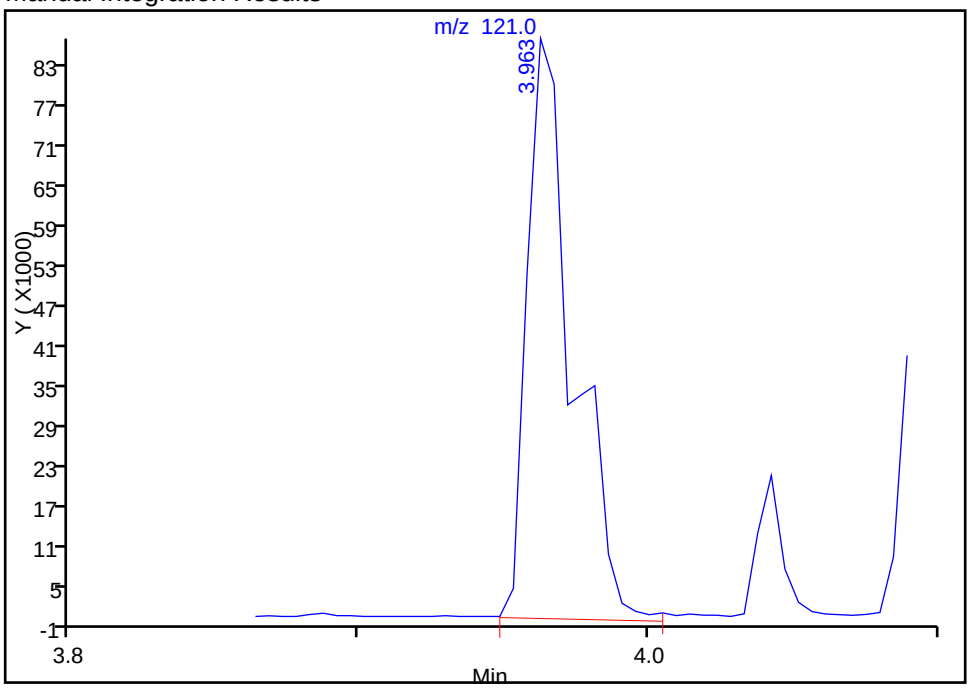
Processing Integration Results

RT: 3.96
Response: 71230
Amount: 29.426659



Manual Integration Results

RT: 3.96
Response: 95503
Amount: 39.454362



Reviewer: phelpsk, 18-Nov-2013 09:38:16
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: MW-03B-GW-001 MS | Lab Sample ID: 490-39837-2 MS

Matrix: Water | Lab File ID: 1115010.D

Analysis Method: 8270C | Date Collected: 11/07/2013 13:19

Extract. Method: 3510C | Date Extracted: 11/14/2013 11:54

Sample wt/vol: 1070(mL) | Date Analyzed: 11/15/2013 17:42

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122300 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	41.71		1.87	0.342
208-96-8	Acenaphthylene	41.05		1.87	0.308
98-86-2	Acetophenone	40.13		9.35	1.78
120-12-7	Anthracene	43.35		1.87	0.825
1912-24-9	Atrazine	44.78		9.35	3.46
100-52-7	Benzaldehyde	46.71		9.35	2.01
56-55-3	Benzo[a]anthracene	42.87		1.87	0.303
50-32-8	Benzo[a]pyrene	42.33		1.87	0.308
205-99-2	Benzo[b]fluoranthene	42.85		1.87	0.394
191-24-2	Benzo[g,h,i]perylene	42.58		1.87	0.268
207-08-9	Benzo[k]fluoranthene	41.63		1.87	0.340
92-52-4	Biphenyl	40.33		9.35	3.11
111-91-1	Bis(2-chloroethoxy)methane	39.13		9.35	1.27
111-44-4	Bis(2-chloroethyl)ether	37.84		9.35	1.30
108-60-1	bis (2-chloroisopropyl) ether	34.82		9.35	1.83
117-81-7	Bis(2-ethylhexyl) phthalate	191.7		9.35	1.93
101-55-3	4-Bromophenyl phenyl ether	45.06		9.35	1.28
85-68-7	Butyl benzyl phthalate	44.92		9.35	1.63
105-60-2	Caprolactam	9.372		9.35	3.11
86-74-8	Carbazole	43.31		9.35	0.279
106-47-8	4-Chloroaniline	40.05		9.35	1.09
59-50-7	4-Chloro-3-methylphenol	42.70		9.35	3.11
91-58-7	2-Chloronaphthalene	39.60		9.35	1.53
95-57-8	2-Chlorophenol	37.67		9.35	1.49
7005-72-3	4-Chlorophenyl phenyl ether	41.92		9.35	1.64
218-01-9	Chrysene	43.95		1.87	1.02
53-70-3	Dibenz(a,h)anthracene	42.70		1.87	0.602
132-64-9	Dibenzofuran	41.32		9.35	0.317
91-94-1	3,3'-Dichlorobenzidine	44.13		9.35	1.42
120-83-2	2,4-Dichlorophenol	41.85		9.35	0.953
84-66-2	Diethyl phthalate	44.26		9.35	1.51
105-67-9	2,4-Dimethylphenol	38.79		9.35	0.931
131-11-3	Dimethyl phthalate	42.81		9.35	1.69
84-74-2	Di-n-butyl phthalate	46.06		9.35	1.40

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: MW-03B-GW-001 MS | Lab Sample ID: 490-39837-2 MS

Matrix: Water | Lab File ID: 1115010.D

Analysis Method: 8270C | Date Collected: 11/07/2013 13:19

Extract. Method: 3510C | Date Extracted: 11/14/2013 11:54

Sample wt/vol: 1070(mL) | Date Analyzed: 11/15/2013 17:42

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122300 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
534-52-1	4,6-Dinitro-2-methylphenol	89.33		23.4	1.93
51-28-5	2,4-Dinitrophenol	83.28		23.4	2.30
121-14-2	2,4-Dinitrotoluene	43.41		9.35	3.11
606-20-2	2,6-Dinitrotoluene	44.79		9.35	1.81
117-84-0	Di-n-octyl phthalate	45.23		9.35	2.16
206-44-0	Fluoranthene	43.42		1.87	0.324
86-73-7	Fluorene	42.69		1.87	0.295
118-74-1	Hexachlorobenzene	43.80		9.35	1.58
87-68-3	Hexachlorobutadiene	33.80		9.35	3.11
77-47-4	Hexachlorocyclopentadiene	29.05		9.35	3.11
67-72-1	Hexachloroethane	29.33		9.35	3.11
193-39-5	Indeno[1,2,3-cd]pyrene	41.47		1.87	0.356
78-59-1	Isophorone	42.73		9.35	1.16
91-57-6	2-Methylnaphthalene	38.79		1.87	0.291
95-48-7	2-Methylphenol	32.59		9.35	3.11
15831-10-4	3 & 4 Methylphenol	29.59		9.35	3.11
91-20-3	Naphthalene	35.78		1.87	0.372
88-74-4	2-Nitroaniline	43.13		23.4	0.972
99-09-2	3-Nitroaniline	38.96		23.4	1.73
100-01-6	4-Nitroaniline	39.83		23.4	2.23
98-95-3	Nitrobenzene	40.41		9.35	1.16
88-75-5	2-Nitrophenol	42.32		9.35	1.47
100-02-7	4-Nitrophenol	30.48		23.4	3.11
621-64-7	N-Nitrosodi-n-propylamine	40.80		9.35	1.33
86-30-6	n-Nitrosodiphenylamine(as diphenylamine)	54.71		9.35	1.35
87-86-5	Pentachlorophenol	89.54		23.4	1.54
85-01-8	Phenanthrene	43.06		1.87	0.321
108-95-2	Phenol	14.46		9.35	3.22
129-00-0	Pyrene	43.60		1.87	0.309
95-95-4	2,4,5-Trichlorophenol	44.85		23.4	1.90
88-06-2	2,4,6-Trichlorophenol	43.81		9.35	1.64

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: MW-03B-GW-001 MS | Lab Sample ID: 490-39837-2 MS

Matrix: Water | Lab File ID: 1115010.D

Analysis Method: 8270C | Date Collected: 11/07/2013 13:19

Extract. Method: 3510C | Date Extracted: 11/14/2013 11:54

Sample wt/vol: 1070(mL) | Date Analyzed: 11/15/2013 17:42

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122300 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	82		29-120
367-12-4	2-Fluorophenol (Surr)	39		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	84		27-120
4165-62-2	Phenol-d5 (Surr)	26		10-120
1718-51-0	Terphenyl-d14 (Surr)	71		13-120
118-79-6	2,4,6-Tribromophenol (Surr)	90		10-120

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\hp31\20131115-28515.b\1115010.D
Lims ID: 490-39837-V-2-A MS Lab Sample ID: 490-39837-2
Client ID: MW-03B-GW-001
Sample Type: MS
Inject. Date: 15-Nov-2013 17:42:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 490-39837-V-2-A MS
Misc. Info.: 490-0028515-010
Operator ID: HP-31 Instrument ID: HP31

Method: \\Nvlchrom\ChromData\hp31\20131115-28515.b\8270HP31.m
Limit Group: MSS 8270C ICAL
Last Update: 18-Nov-2013 09:44:39 Calib Date: 04-Nov-2013 11:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\hp31\20131103-27806.b\1104019.D

Column 1 : Detector MS SCAN
Process Host: XAWRK006

First Level Reviewer: phelpsk Date: 18-Nov-2013 09:44:39

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
*	1 1,4-Dichlorobenzene-d4	152	3.782	3.782	0.0	95	197706	40.0	
	4 1,4-Dioxane	88	1.487	1.482	0.005	94	52099	22.1	
	5 N-Nitrosodimethylamine	74	1.802	1.792	0.010	93	68739	21.7	
	6 Pyridine	52	1.821	1.821	0.005	96	102051	26.6	M
$	11 2-Fluorophenol	112	2.982	2.977	0.005	89	111541	19.3	
	21 Benzaldehyde	105	3.509	3.513	-0.004	87	135629	50.0	
	17 Aniline	93	3.584	3.584	0.0	96	336338	36.4	
$	15 Phenol-d5	99	3.612	3.607	0.005	0	100061	12.8	
	16 Phenol	94	3.622	3.617	0.005	98	127078	15.5	
	18 Bis(2-chloroethyl)ether	93	3.631	3.631	0.0	99	244063	40.5	
	19 2-Chlorophenol	128	3.664	3.664	0.0	94	276514	40.3	
	20 n-Decane	57	3.688	3.688	0.001	98	143836	26.1	
	22 1,3-Dichlorobenzene	146	3.744	3.744	0.0	98	229975	30.6	
	23 1,4-Dichlorobenzene	146	3.796	3.796	0.0	96	242882	32.2	
	25 1,2-Dichlorobenzene	146	3.885	3.885	0.0	96	238130	32.6	
	24 Benzyl alcohol	108	3.890	3.890	0.0	93	160432	35.1	
	2 Indene	115	3.942	3.941	0.001	72	382258	33.8	
	27 2,2'-oxybis[1-chloropropane]	121	3.965	3.965	0.0	95	88458	37.3	M
	26 2-Methylphenol	108	3.979	3.979	0.0	94	216298	34.9	
	30 Acetophenone	105	4.040	4.040	0.0	95	377322	42.9	
	32 N-Nitrosodi-n-propylamine	70	4.045	4.045	-0.004	86	190628	43.7	
	28 3 & 4 Methylphenol	108	4.078	4.078	0.0	0	208800	31.7	
	33 Hexachloroethane	117	4.092	4.092	0.0	95	79315	31.4	
	12 2-Butoxyethanol	57	8.691	8.656	0.035	10	136	0	
*	37 Naphthalene-d8	136	4.572	4.572	0.0	99	786072	40.0	
$	46 Nitrobenzene-d5	82	4.134	4.134	0.0	85	269837	42.0	
	47 Nitrobenzene	77	4.144	4.148	-0.004	85	267556	43.2	
	48 Isophorone	82	4.294	4.294	0.0	95	541482	45.7	
	49 2-Nitrophenol	139	4.341	4.341	0.0	91	178715	45.3	
	50 2,4-Dimethylphenol	107	4.388	4.393	-0.005	94	273161	41.5	
	52 Bis(2-chloroethoxy)methane	93	4.435	4.435	0.0	98	296843	41.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
51 Benzoic acid	105	4.478	4.487	-0.009	81	142410	25.1	
53 2,4-Dichlorophenol	162	4.506	4.506	0.0	90	266140	44.8	
55 1,2,4-Trichlorobenzene	180	4.539	4.538	0.001	92	226782	37.2	
56 Naphthalene	128	4.586	4.585	0.001	95	764671	38.3	
57 4-Chloroaniline	127	4.633	4.633	0.001	85	392757	42.9	
59 Hexachlorobutadiene	225	4.661	4.661	0.0	92	116300	36.2	
42 Caprolactam	113	4.849	4.858	-0.009	84	30250	10.0	
62 4-Chloro-3-methylphenol	107	4.957	4.962	-0.005	91	286069	45.7	
65 2-Methylnaphthalene	142	5.018	5.023	-0.005	86	618982	41.5	
66 1-Methylnaphthalene	142	5.084	5.084	0.0	81	592867	42.0	
45 1,2,4,5-Tetrachlorobenzene	216	5.136	5.136	0.0	92	272420	43.0	
43 1,1'-Biphenyl	154	5.348	5.347	0.001	95	775146	43.2	
* 72 Acenaphthene-d10	164	5.785	5.785	0.0	91	539348	40.0	
76 Hexachlorocyclopentadiene	237	5.122	5.126	-0.004	92	70014	31.1	
77 2,4,6-Trichlorophenol	196	5.225	5.230	-0.005	90	212710	46.9	
78 2,4,5-Trichlorophenol	196	5.263	5.267	-0.004	96	232373	48.0	
$ 79 2-Fluorobiphenyl (Surr)	172	5.277	5.277	0.0	99	669320	40.9	
83 2-Chloronaphthalene	162	5.357	5.361	-0.004	96	588142	42.4	
84 2-Nitroaniline	65	5.451	5.451	0.0	90	187987	46.1	
85 Dimethyl phthalate	163	5.592	5.592	0.0	99	794003	45.8	
81 1,3-Dinitrobenzene	168	5.620	5.620	0.0	94	148005	42.6	
86 2,6-Dinitrotoluene	165	5.639	5.639	0.0	77	202362	47.9	
87 Acenaphthylene	152	5.672	5.672	0.0	90	1026190	43.9	
88 3-Nitroaniline	138	5.775	5.780	-0.005	96	229032	41.7	
89 Acenaphthene	153	5.813	5.813	0.0	93	676543	44.6	
90 2,4-Dinitrophenol	184	5.870	5.869	0.001	82	274639	89.1	
92 Dibenzofuran	168	5.964	5.963	0.001	85	953657	44.2	
93 2,4-Dinitrotoluene	165	5.973	5.973	0.0	81	278106	46.4	
91 4-Nitrophenol	65	5.982	5.982	0.0	85	108125	32.6	
A 75 C10-C28	1	6.000	2.000 -	10.000	0	113787842	0	
96 2,3,4,6-Tetrachlorophenol	232	6.086	6.085	0.001	68	201351	47.4	
97 Diethyl phthalate	149	6.194	6.194	0.0	98	813202	47.4	
196 Hexadecane	57	6.208	6.212	-0.004	0	336047	44.2	
99 Fluorene	166	6.264	6.264	0.0	83	826238	45.7	
98 4-Chlorophenyl phenyl ether	204	6.274	6.278	-0.004	91	371357	44.9	
100 4-Nitroaniline	138	6.321	6.321	0.0	91	241806	42.6	
101 Azobenzene	77	6.424	6.424	0.0	96	675030	46.7	
* 106 Phenanthrene-d10	188	7.186	7.186	0.0	96	970280	40.0	
116 4,6-Dinitro-2-methylphenol	198	6.344	6.344	0.0	88	380313	95.6	
190 Diphenylamine	169	6.396	6.395	0.001	0	659838	36.7	
117 N-Nitrosodiphenylamine	169	6.396	6.396	0.0	58	659838	58.5	
$ 119 2,4,6-Tribromophenol	330	6.500	6.499	0.001	92	129840	44.8	
120 4-Bromophenyl phenyl ether	248	6.744	6.748	-0.004	60	237336	48.2	
121 Hexachlorobenzene	284	6.786	6.791	-0.005	93	264563	46.9	
112 Atrazine	200	6.951	6.955	-0.004	92	242925	47.9	
124 Pentachlorophenol	266	7.012	7.012	0.0	89	330275	95.8	
115 n-Octadecane	57	7.144	7.144	0.001	97	384290	48.2	
126 Phenanthrene	178	7.210	7.209	0.001	97	1189591	46.1	
129 Anthracene	178	7.261	7.266	-0.005	97	1218160	46.4	
131 Carbazole	167	7.464	7.463	0.001	82	1251199	46.3	
132 Di-n-butyl phthalate	149	7.901	7.900	0.001	100	1406886	49.3	
135 Fluoranthene	202	8.522	8.526	-0.004	98	1363624	46.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
* 140 Chrysene-d12	240	10.210	10.205	0.005	79	1155087	40.0	
145 Benzidine	184	8.733	8.733	0.0	99	229370	22.8	
146 Pyrene	202	8.775	8.775	0.0	95	1409979	46.7	
$ 147 Terphenyl-d14	244	9.011	9.015	-0.004	82	786017	35.5	
150 Butyl benzyl phthalate	149	9.641	9.640	0.001	94	715875	48.1	
152 Benzo[a]anthracene	228	10.195	10.200	-0.005	99	1375900	45.9	
151 3,3'-Dichlorobenzidine	252	10.219	10.219	0.0	74	525876	47.2	
153 Chrysene	228	10.238	10.237	0.001	89	1351258	47.0	
154 Bis(2-ethylhexyl) phthalate	149	10.374	10.364	0.010	93	4091423	205.1	E
* 156 Perylene-d12	264	11.789	11.789	0.0	83	1176913	40.0	
158 Di-n-octyl phthalate	149	11.108	11.112	-0.004	99	1648203	48.4	
159 Benzo[b]fluoranthene	252	11.404	11.404	0.0	91	1456632	45.8	
161 Benzo[k]fluoranthene	252	11.432	11.432	0.0	94	1472004	44.5	
162 Benzo[a]pyrene	252	11.733	11.733	0.0	74	1366051	45.3	
164 Indeno[1,2,3-cd]pyrene	276	12.791	12.791	0.0	91	1657041	44.4	
165 Dibenz(a,h)anthracene	278	12.810	12.814	-0.004	90	1436803	45.7	
166 Benzo[g,h,i]perylene	276	13.021	13.026	-0.005	89	1430510	45.6	
S 172 Methyl Phenols,Total	1				0		66.5	
S 167 Total Cresols	1				0		66.5	
178 Benzidine_T	184	5.870	5.858	0.012	56	274639	0	7
A 176 C10-C21	1	6.000	4.000 -	8.000	0	91407926	0	7
A 182 C21-C35	1	10.000	8.000 -	12.000	0	56965388	0	7

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount
7 - Failed Limit of Detection

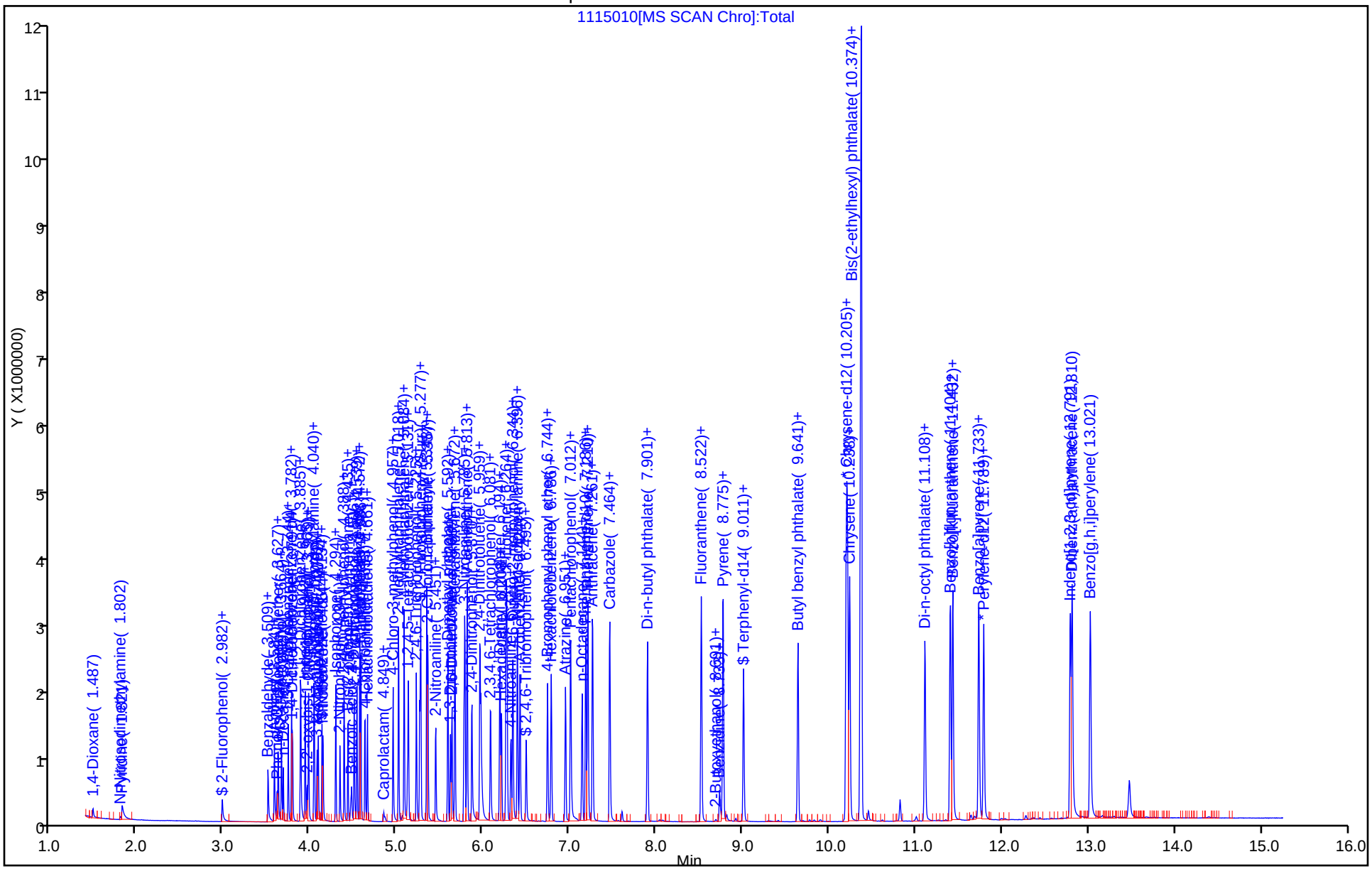
Review Flags
M - Manually Integrated

Report Date: 18-Nov-2013 09:44:39 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131115-28515.b\1115010.D

Injection Date:	15-Nov-2013 17:42:30	Instrument ID:	HP31	Operator ID:	HP-31
Lims ID:	490-39837-V-2-A MS	Lab Sample ID:	490-39837-2	Worklist Smp#:	10
Client ID:	MW-03B-GW-001				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8270HP31	Limit Group:	MSS 8270C ICAL		



Manual Integration/User Assign Peak Report

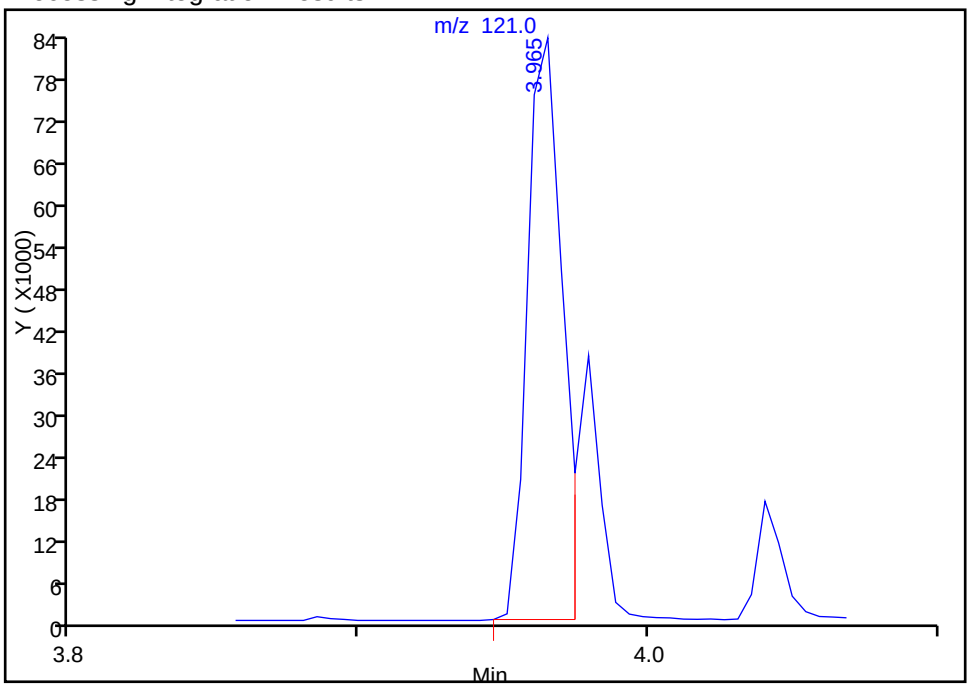
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131115-28515.b\1115010.D				
Injection Date:	15-Nov-2013 17:42:30	Instrument ID:	HP31		
Lims ID:	490-39837-V-2-A MS	Lab Sample ID:	490-39837-2		
Client ID:	MW-03B-GW-001				
Operator ID:	HP-31	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270HP31	Limit Group:	MSS 8270C ICAL		
Column:		Detector	MS SCAN		

27 2,2'-oxybis[1-chloropropane], CAS: 108-60-1

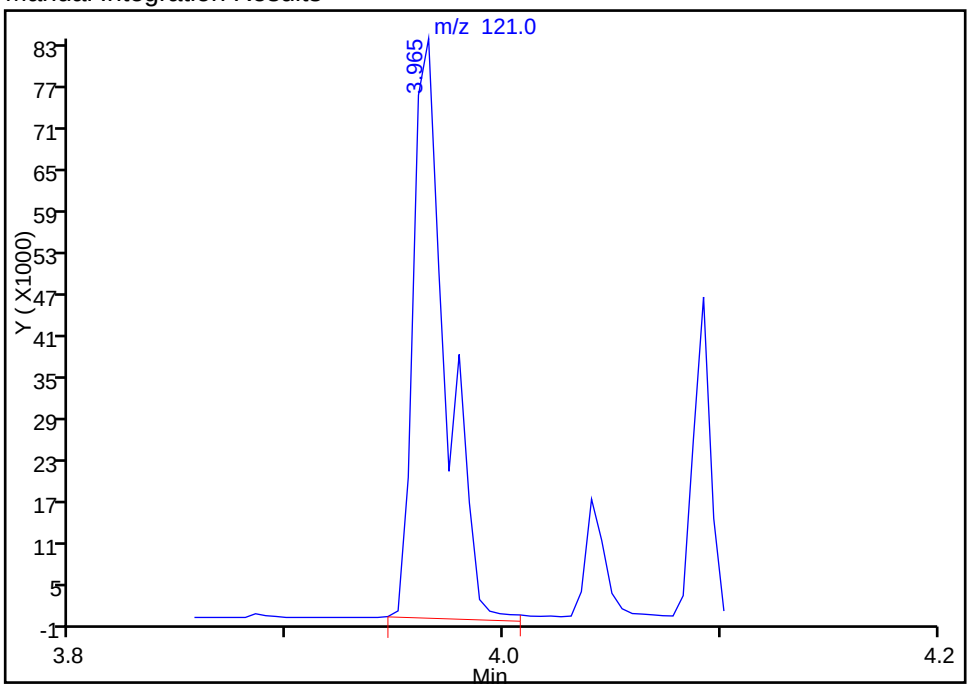
Processing Integration Results

RT: 3.97
Response: 70582
Amount: 29.731646



Manual Integration Results

RT: 3.97
Response: 88458
Amount: 37.261652



Reviewer: phelpsk, 18-Nov-2013 09:44:39
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: MW-03B-GW-001 MSD | Lab Sample ID: 490-39837-2 MSD

Matrix: Water | Lab File ID: 1115011.D

Analysis Method: 8270C | Date Collected: 11/07/2013 13:19

Extract. Method: 3510C | Date Extracted: 11/14/2013 11:54

Sample wt/vol: 1070(mL) | Date Analyzed: 11/15/2013 18:06

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122300 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	39.60		1.87	0.342
208-96-8	Acenaphthylene	38.61		1.87	0.308
98-86-2	Acetophenone	37.01		9.35	1.78
120-12-7	Anthracene	40.38		1.87	0.825
1912-24-9	Atrazine	42.81		9.35	3.46
100-52-7	Benzaldehyde	57.04		9.35	2.01
56-55-3	Benzo[a]anthracene	39.24		1.87	0.303
50-32-8	Benzo[a]pyrene	38.98		1.87	0.308
205-99-2	Benzo[b]fluoranthene	39.30		1.87	0.394
191-24-2	Benzo[g,h,i]perylene	39.58		1.87	0.268
207-08-9	Benzo[k]fluoranthene	38.54		1.87	0.340
92-52-4	Biphenyl	37.13		9.35	3.11
111-91-1	Bis(2-chloroethoxy)methane	36.48		9.35	1.27
111-44-4	Bis(2-chloroethyl)ether	34.26		9.35	1.30
108-60-1	bis (2-chloroisopropyl) ether	32.25		9.35	1.83
117-81-7	Bis(2-ethylhexyl) phthalate	45.00		9.35	1.93
101-55-3	4-Bromophenyl phenyl ether	41.63		9.35	1.28
85-68-7	Butyl benzyl phthalate	40.30		9.35	1.63
105-60-2	Caprolactam	8.910	J	9.35	3.11
86-74-8	Carbazole	40.00		9.35	0.279
106-47-8	4-Chloroaniline	36.91		9.35	1.09
59-50-7	4-Chloro-3-methylphenol	40.30		9.35	3.11
91-58-7	2-Chloronaphthalene	37.74		9.35	1.53
95-57-8	2-Chlorophenol	34.92		9.35	1.49
7005-72-3	4-Chlorophenyl phenyl ether	39.01		9.35	1.64
218-01-9	Chrysene	40.69		1.87	1.02
53-70-3	Dibenz(a,h)anthracene	39.51		1.87	0.602
132-64-9	Dibenzofuran	39.01		9.35	0.317
91-94-1	3,3'-Dichlorobenzidine	32.60		9.35	1.42
120-83-2	2,4-Dichlorophenol	39.03		9.35	0.953
84-66-2	Diethyl phthalate	41.54		9.35	1.51
105-67-9	2,4-Dimethylphenol	35.44		9.35	0.931
131-11-3	Dimethyl phthalate	40.43		9.35	1.69
84-74-2	Di-n-butyl phthalate	42.34		9.35	1.40

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: MW-03B-GW-001 MSD | Lab Sample ID: 490-39837-2 MSD

Matrix: Water | Lab File ID: 1115011.D

Analysis Method: 8270C | Date Collected: 11/07/2013 13:19

Extract. Method: 3510C | Date Extracted: 11/14/2013 11:54

Sample wt/vol: 1070(mL) | Date Analyzed: 11/15/2013 18:06

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122300 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
534-52-1	4,6-Dinitro-2-methylphenol	82.82		23.4	1.93
51-28-5	2,4-Dinitrophenol	80.64		23.4	2.30
121-14-2	2,4-Dinitrotoluene	41.33		9.35	3.11
606-20-2	2,6-Dinitrotoluene	42.53		9.35	1.81
117-84-0	Di-n-octyl phthalate	40.50		9.35	2.16
206-44-0	Fluoranthene	40.82		1.87	0.324
86-73-7	Fluorene	40.41		1.87	0.295
118-74-1	Hexachlorobenzene	40.63		9.35	1.58
87-68-3	Hexachlorobutadiene	29.91		9.35	3.11
77-47-4	Hexachlorocyclopentadiene	27.31		9.35	3.11
67-72-1	Hexachloroethane	27.42		9.35	3.11
193-39-5	Indeno[1,2,3-cd]pyrene	38.37		1.87	0.356
78-59-1	Isophorone	40.08		9.35	1.16
91-57-6	2-Methylnaphthalene	35.23		1.87	0.291
95-48-7	2-Methylphenol	30.11		9.35	3.11
15831-10-4	3 & 4 Methylphenol	26.92		9.35	3.11
91-20-3	Naphthalene	33.35		1.87	0.372
88-74-4	2-Nitroaniline	42.16		23.4	0.972
99-09-2	3-Nitroaniline	36.07		23.4	1.73
100-01-6	4-Nitroaniline	37.73		23.4	2.23
98-95-3	Nitrobenzene	37.64		9.35	1.16
88-75-5	2-Nitrophenol	39.28		9.35	1.47
100-02-7	4-Nitrophenol	28.72		23.4	3.11
621-64-7	N-Nitrosodi-n-propylamine	37.30		9.35	1.33
86-30-6	n-Nitrosodiphenylamine(as diphenylamine)	51.25		9.35	1.35
87-86-5	Pentachlorophenol	85.33		23.4	1.54
85-01-8	Phenanthrene	39.86		1.87	0.321
108-95-2	Phenol	13.50		9.35	3.22
129-00-0	Pyrene	40.02		1.87	0.309
95-95-4	2,4,5-Trichlorophenol	42.47		23.4	1.90
88-06-2	2,4,6-Trichlorophenol	41.48		9.35	1.64

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39837-2

SDG No.:

Client Sample ID: MW-03B-GW-001 MSD | Lab Sample ID: 490-39837-2 MSD

Matrix: Water | Lab File ID: 1115011.D

Analysis Method: 8270C | Date Collected: 11/07/2013 13:19

Extract. Method: 3510C | Date Extracted: 11/14/2013 11:54

Sample wt/vol: 1070(mL) | Date Analyzed: 11/15/2013 18:06

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122300 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	77		29-120
367-12-4	2-Fluorophenol (Surr)	36		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	77		27-120
4165-62-2	Phenol-d5 (Surr)	24		10-120
1718-51-0	Terphenyl-d14 (Surr)	50		13-120
118-79-6	2,4,6-Tribromophenol (Surr)	85		10-120

Report Date: 18-Nov-2013 13:14:34 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\hp31\20131115-28515.b\1115011.D
Lims ID: 490-39837-U-2-B MSD Lab Sample ID: 490-39837-2
Client ID: MW-03B-GW-001
Sample Type: MSD
Inject. Date: 15-Nov-2013 18:06:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 490-39837-U-2-B MSD
Misc. Info.: 490-0028515-011
Operator ID: HP-31 Instrument ID: HP31

Method: \\Nvlchrom\ChromData\hp31\20131115-28515.b\8270HP31.m
Limit Group: MSS 8270C ICAL
Last Update: 18-Nov-2013 13:14:33 Calib Date: 04-Nov-2013 11:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\hp31\20131103-27806.b\1104019.D

Column 1 : Detector MS SCAN
Process Host: XAWRK006

First Level Reviewer: phelpsk Date: 18-Nov-2013 09:50:22

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
*	1 1,4-Dichlorobenzene-d4	152	3.784	3.782	0.002	93	202897	40.0	
	4 1,4-Dioxane	88	1.485	1.482	0.003	80	52397	21.7	
	5 N-Nitrosodimethylamine	74	1.805	1.792	0.013	79	68880	21.2	M
	6 Pyridine	52	1.852	1.816	0.036	91	27606	7.02	M
$	11 2-Fluorophenol	112	2.980	2.977	0.003	90	107877	18.2	
	21 Benzaldehyde	105	3.512	3.513	-0.001	90	169960	61.0	
	17 Aniline	93	3.582	3.584	-0.002	98	221341	23.4	
$	15 Phenol-d5	99	3.610	3.607	0.003	0	97899	12.2	
	16 Phenol	94	3.620	3.617	0.003	97	121711	14.4	
	18 Bis(2-chloroethyl)ether	93	3.629	3.631	-0.002	98	226772	36.7	
	19 2-Chlorophenol	128	3.667	3.664	0.003	94	263070	37.4	
	20 n-Decane	57	3.686	3.687	-0.001	97	139680	24.7	
	22 1,3-Dichlorobenzene	146	3.742	3.744	-0.002	98	226025	29.3	
	23 1,4-Dichlorobenzene	146	3.794	3.796	-0.002	95	230560	29.8	
	25 1,2-Dichlorobenzene	146	3.883	3.885	-0.002	96	230342	30.7	
	24 Benzyl alcohol	108	3.888	3.890	-0.002	88	146356	31.2	
	2 Indene	115	3.940	3.941	-0.001	75	374083	32.3	
	27 2,2'-oxybis[1-chloropropane]	121	3.963	3.965	-0.002	92	84077	34.5	M
	26 2-Methylphenol	108	3.977	3.979	-0.002	94	205081	32.2	
	30 Acetophenone	105	4.043	4.040	0.003	95	357163	39.6	
	32 N-Nitrosodi-n-propylamine	70	4.048	4.048	-0.001	90	178860	39.9	
	28 3 & 4 Methylphenol	108	4.076	4.078	-0.002	0	194952	28.8	
	33 Hexachloroethane	117	4.090	4.092	-0.002	98	76079	29.3	
	12 2-Butoxyethanol	57	8.665	8.656	0.009	11	335	0	
*	37 Naphthalene-d8	136	4.570	4.572	-0.002	99	803558	40.0	
$	46 Nitrobenzene-d5	82	4.132	4.134	-0.002	87	253056	38.5	
	47 Nitrobenzene	77	4.147	4.148	-0.001	77	254749	40.3	
	48 Isophorone	82	4.292	4.294	-0.002	96	519261	42.9	
	49 2-Nitrophenol	139	4.344	4.341	0.003	88	169570	42.0	
	50 2,4-Dimethylphenol	107	4.391	4.393	-0.002	92	255102	37.9	
	52 Bis(2-chloroethoxy)methane	93	4.433	4.435	-0.002	99	282861	39.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
51 Benzoic acid	105	4.480	4.487	-0.007	85	170877	29.0	
53 2,4-Dichlorophenol	162	4.504	4.506	-0.002	94	253731	41.8	
55 1,2,4-Trichlorobenzene	180	4.537	4.538	-0.001	94	215140	34.6	
56 Naphthalene	128	4.584	4.585	-0.001	95	728713	35.7	
57 4-Chloroaniline	127	4.631	4.633	-0.001	85	370058	39.5	
59 Hexachlorobutadiene	225	4.659	4.661	-0.002	93	105206	32.0	
42 Caprolactam	113	4.847	4.858	-0.011	83	29397	9.53	
62 4-Chloro-3-methylphenol	107	4.955	4.962	-0.007	93	275990	43.1	
65 2-Methylnaphthalene	142	5.021	5.023	-0.002	86	574772	37.7	
66 1-Methylnaphthalene	142	5.087	5.084	0.003	81	556897	38.6	
45 1,2,4,5-Tetrachlorobenzene	216	5.134	5.136	-0.002	93	256877	39.7	
43 1,1'-Biphenyl	154	5.346	5.347	-0.001	95	729581	39.7	
* 72 Acenaphthene-d10	164	5.788	5.785	0.003	91	542504	40.0	
76 Hexachlorocyclopentadiene	237	5.125	5.126	-0.001	96	65063	29.2	
77 2,4,6-Trichlorophenol	196	5.228	5.230	-0.002	89	202600	44.4	
78 2,4,5-Trichlorophenol	196	5.266	5.267	-0.001	96	221344	45.4	
$ 79 2-Fluorobiphenyl (Surr)	172	5.275	5.277	-0.002	99	633779	38.5	
83 2-Chloronaphthalene	162	5.360	5.361	-0.001	96	563709	40.4	
84 2-Nitroaniline	65	5.449	5.451	-0.002	91	184779	45.1	
85 Dimethyl phthalate	163	5.590	5.592	-0.002	99	754272	43.3	
81 1,3-Dinitrobenzene	168	5.623	5.620	0.003	98	146684	42.0	
86 2,6-Dinitrotoluene	165	5.637	5.639	-0.002	69	193284	45.5	
87 Acenaphthylene	152	5.670	5.672	-0.002	90	970739	41.3	
88 3-Nitroaniline	138	5.778	5.780	-0.002	95	212913	38.6	
89 Acenaphthene	153	5.811	5.813	-0.002	93	646055	42.4	
90 2,4-Dinitrophenol	184	5.868	5.869	-0.001	82	267032	86.3	
92 Dibenzofuran	168	5.962	5.963	-0.001	85	905613	41.7	
93 2,4-Dinitrotoluene	165	5.976	5.973	0.003	85	266323	44.2	
91 4-Nitrophenol	65	5.985	5.982	0.003	85	102059	30.7	
A 75 C10-C28	1	6.000	2.000 -	10.000	0	106985208	0	
96 2,3,4,6-Tetrachlorophenol	232	6.084	6.085	-0.001	69	194154	45.4	
97 Diethyl phthalate	149	6.192	6.194	-0.002	98	767664	44.4	
196 Hexadecane	57	6.211	6.212	-0.001	0	316680	41.4	
99 Fluorene	166	6.262	6.264	-0.002	84	786682	43.2	
98 4-Chlorophenyl phenyl ether	204	6.277	6.278	-0.001	90	347566	41.7	
100 4-Nitroaniline	138	6.319	6.321	-0.002	92	230144	40.4	
101 Azobenzene	77	6.422	6.424	-0.002	97	631019	43.4	
* 106 Phenanthrene-d10	188	7.184	7.186	-0.002	96	990167	40.0	
116 4,6-Dinitro-2-methylphenol	198	6.342	6.344	-0.002	83	359196	88.6	
190 Diphenylamine	169	6.394	6.395	-0.001	0	630732	34.4	
117 N-Nitrosodiphenylamine	169	6.394	6.396	-0.002	58	630732	54.8	
$ 119 2,4,6-Tribromophenol	330	6.498	6.499	-0.001	92	125651	42.5	
120 4-Bromophenyl phenyl ether	248	6.742	6.748	-0.006	62	223793	44.5	
121 Hexachlorobenzene	284	6.789	6.791	-0.002	93	250462	43.5	
112 Atrazine	200	6.954	6.955	-0.001	92	237030	45.8	
124 Pentachlorophenol	266	7.010	7.012	-0.002	86	320856	91.3	
126 Phenanthrene	178	7.208	7.209	-0.001	97	1123795	42.6	
129 Anthracene	178	7.264	7.266	-0.002	97	1157966	43.2	
131 Carbazole	167	7.462	7.463	-0.001	82	1179017	42.8	
132 Di-n-butyl phthalate	149	7.899	7.900	-0.001	100	1319593	45.3	
135 Fluoranthene	202	8.520	8.526	-0.006	98	1308151	43.7	
* 140 Chrysene-d12	240	10.208	10.205	0.003	80	1210335	40.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
146 Pyrene	202	8.773	8.775	-0.002	95	1356041	42.8	
$ 147 Terphenyl-d14	244	9.009	9.015	-0.006	82	581665	25.1	
150 Butyl benzyl phthalate	149	9.639	9.640	-0.001	94	671786	43.1	
152 Benzo[a]anthracene	228	10.198	10.200	-0.002	99	1319667	42.0	
151 3,3'-Dichlorobenzidine	252	10.217	10.219	-0.002	74	407076	34.9	
153 Chrysene	228	10.236	10.237	-0.001	91	1310838	43.5	
154 Bis(2-ethylhexyl) phthalate	149	10.363	10.364	-0.001	94	995196	48.2	
* 156 Perylene-d12	264	11.788	11.789	-0.001	82	1236569	40.0	
158 Di-n-octyl phthalate	149	11.106	11.112	-0.006	99	1548227	43.3	
159 Benzo[b]fluoranthene	252	11.397	11.404	-0.007	92	1403746	42.1	
161 Benzo[k]fluoranthene	252	11.430	11.432	-0.002	85	1431885	41.2	
162 Benzo[a]pyrene	252	11.731	11.733	-0.002	76	1321820	41.7	
164 Indeno[1,2,3-cd]pyrene	276	12.789	12.791	-0.002	95	1611101	41.1	
165 Dibenz(a,h)anthracene	278	12.813	12.814	-0.001	89	1396840	42.3	
166 Benzo[g,h,i]perylene	276	13.024	13.026	-0.002	95	1397174	42.4	
S 167 Total Cresols	1				0		61.0	
S 172 Methyl Phenols,Total	1				0		61.0	
178 Benzidine_T	184	5.868	5.858	0.010	50	267032	0	7
A 176 C10-C21	1	6.000	4.000 -	8.000	0	86850142	0	7
A 182 C21-C35	1	10.000	8.000 -	12.000	0	42529771	0	7

QC Flag Legend

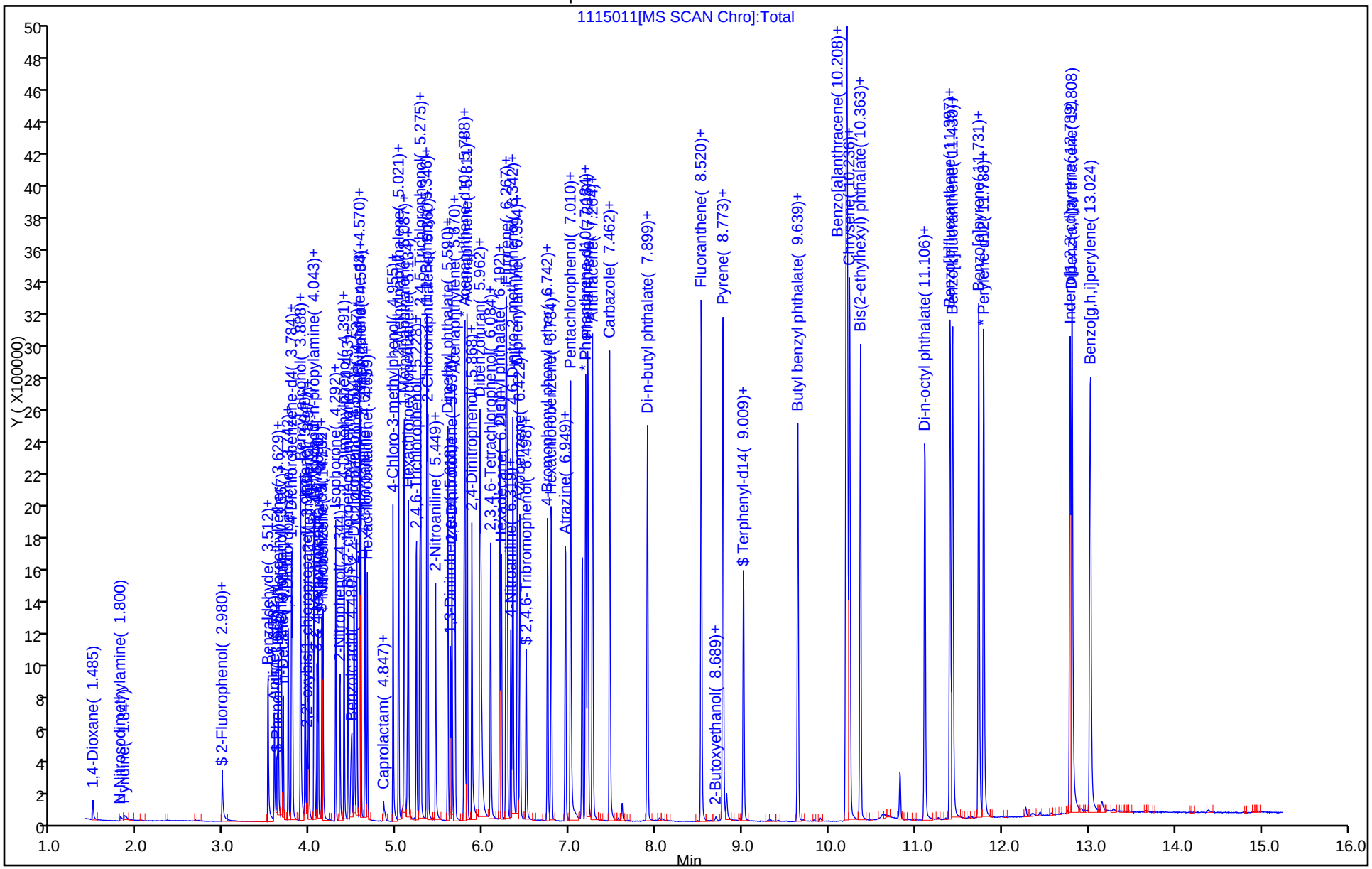
Processing Flags
7 - Failed Limit of Detection

Review Flags
M - Manually Integrated

Report Date: 18-Nov-2013 13:14:34 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131115-28515.b\1115011.D				
Injection Date:	15-Nov-2013 18:06:30	Instrument ID:	HP31	Operator ID:	HP-31
Lims ID:	490-39837-U-2-B MSD	Lab Sample ID:	490-39837-2	Worklist Smp#:	11
Client ID:	MW-03B-GW-001				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8270HP31	Limit Group:	MSS 8270C ICAL		



Manual Integration/User Assign Peak Report

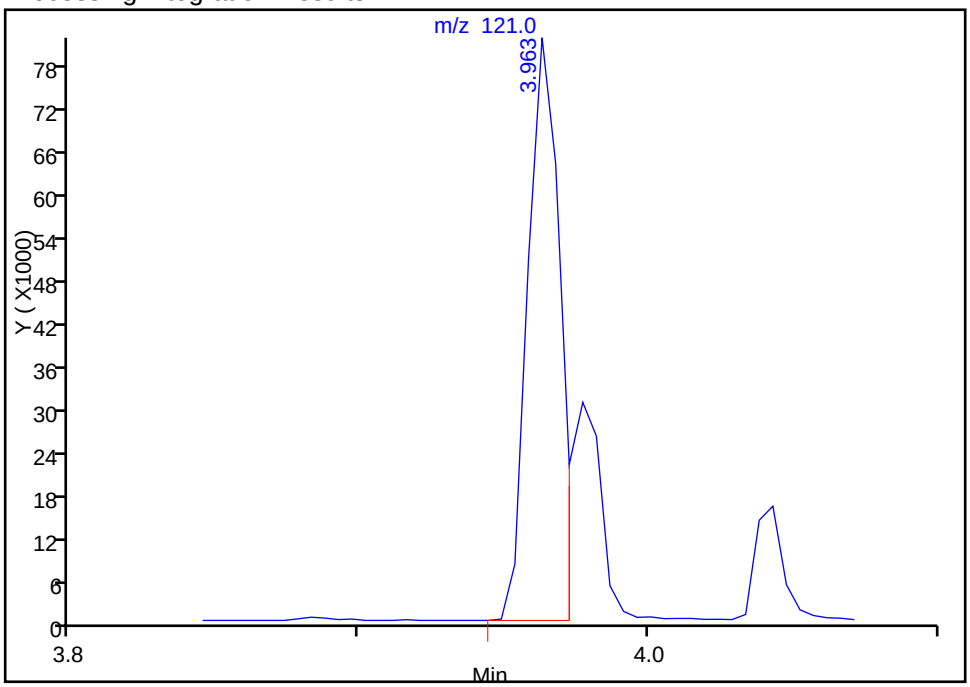
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131115-28515.b\1115011.D				
Injection Date:	15-Nov-2013 18:06:30	Instrument ID:	HP31		
Lims ID:	490-39837-U-2-B MSD	Lab Sample ID:	490-39837-2		
Client ID:	MW-03B-GW-001				
Operator ID:	HP-31	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270HP31	Limit Group:	MSS 8270C ICAL		
Column:		Detector	MS SCAN		

27 2,2'-oxybis[1-chloropropane], CAS: 108-60-1

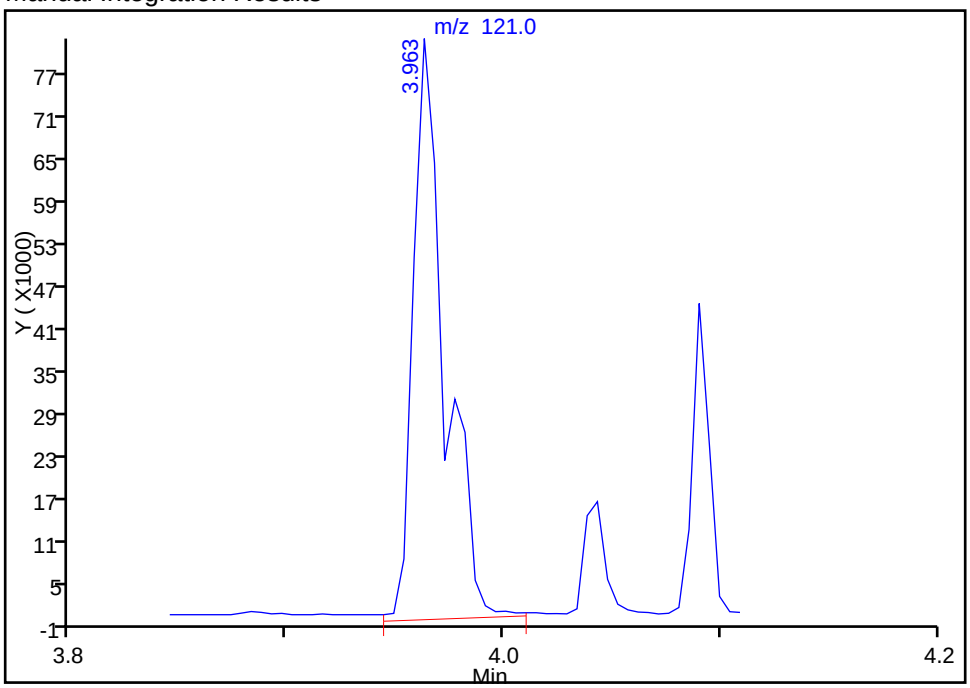
Processing Integration Results

RT: 3.96
Response: 63741
Amount: 26.163033



Manual Integration Results

RT: 3.96
Response: 84077
Amount: 34.510116



Reviewer: phelpsk, 18-Nov-2013 09:50:22
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Instrument ID: HP31 Start Date: 10/22/2013 16:47

Analysis Batch Number: 116166 End Date: 10/22/2013 20:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 490-116166/2		10/22/2013 16:47	1	1022002.D	ZB-5MSi 0.25(mm)
STD 490-116166/3 IC		10/22/2013 17:06	1	1022003.D	ZB-5MSi 0.25(mm)
STD 490-116166/6 IC		10/22/2013 17:28	1	1022004.D	ZB-5MSi 0.25(mm)
STD 490-116166/7 IC		10/22/2013 17:51	1	1022005.D	ZB-5MSi 0.25(mm)
STD 490-116166/8 IC		10/22/2013 18:14	1	1022006.D	ZB-5MSi 0.25(mm)
ICIS 490-116166/9		10/22/2013 18:37	1	1022007.D	ZB-5MSi 0.25(mm)
STD 490-116166/10 IC		10/22/2013 19:00	1	1022008.D	ZB-5MSi 0.25(mm)
STD 490-116166/11 IC		10/22/2013 19:23	1	1022009.D	ZB-5MSi 0.25(mm)
ICV 490-116166/12		10/22/2013 19:45	1	1022010.D	ZB-5MSi 0.25(mm)
ICB 490-116166/13		10/22/2013 20:08	1		ZB-5MSi 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Instrument ID: HP31 Start Date: 11/15/2013 13:48

Analysis Batch Number: 122300 End Date: 11/15/2013 23:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 490-122300/2		11/15/2013 13:48	1	1115002.D	ZB-5MSi 0.25(mm)
CCVIS 490-122300/3		11/15/2013 14:06	1	1115003.D	ZB-5MSi 0.25(mm)
CCV 490-122300/4		11/15/2013 14:38	1	1115004.D	ZB-5MSi 0.25(mm)
CCV 490-122300/5		11/15/2013 15:01	1	1115005.D	ZB-5MSi 0.25(mm)
MB 490-121926/1-A		11/15/2013 15:24	1	1115006.D	ZB-5MSi 0.25(mm)
LCS 490-121926/2-A		11/15/2013 15:47	1	1115007.D	ZB-5MSi 0.25(mm)
ZZZZZ		11/15/2013 16:10	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/15/2013 16:33	1		ZB-5MSi 0.25(mm)
490-39837-2	MW-03B-GW-001	11/15/2013 17:19	1	1115009.D	ZB-5MSi 0.25(mm)
490-39837-2 MS	MW-03B-GW-001 MS	11/15/2013 17:42	1	1115010.D	ZB-5MSi 0.25(mm)
490-39837-2 MSD	MW-03B-GW-001 MSD	11/15/2013 18:06	1	1115011.D	ZB-5MSi 0.25(mm)
490-39837-4	MW-03B-GW-002	11/15/2013 18:29	1	1115012.D	ZB-5MSi 0.25(mm)
490-39837-6	MW-05-GW-001	11/15/2013 18:52	1	1115013.D	ZB-5MSi 0.25(mm)
490-39837-7	Field Blank	11/15/2013 19:15	1	1115014.D	ZB-5MSi 0.25(mm)
490-39837-9	Equipment Blank	11/15/2013 19:38	1	1115015.D	ZB-5MSi 0.25(mm)
ZZZZZ		11/15/2013 20:01	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/15/2013 20:24	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/15/2013 20:47	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/15/2013 21:10	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/15/2013 21:33	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/15/2013 21:56	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/15/2013 22:19	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/15/2013 22:42	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/15/2013 23:05	1		ZB-5MSi 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Batch Number: 121926 Batch Start Date: 11/14/13 11:54 Batch Analyst: Hunt, Cherry

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	InitialAmount	FinalAmount	FirstAdjustpH	SecondAdjustpH	BNA ICV_MIX1 00009
MB 490-121926/1		3510C, 8270C		7	1000 mL	1 mL	2	14	
LCS 490-121926/2		3510C, 8270C		7	1000 mL	1 mL	2	14	0.5 mL
490-39837-U-2	MW-03B-GW-001	3510C, 8270C	T	7	1070 mL	1 mL	2	14	
490-39837-V-2 MS	MW-03B-GW-001	3510C, 8270C	T	7	1070 mL	1 mL	2	14	0.5 mL
490-39837-U-2 MSD	MW-03B-GW-001	3510C, 8270C	T	7	1070 mL	1 mL	2	14	0.5 mL
490-39837-U-4	MW-03B-GW-002	3510C, 8270C	T	7	1070 mL	1 mL	2	14	
490-39837-U-6	MW-05-GW-001	3510C, 8270C	T	7	1070 mL	1 mL	2	14	
490-39837-T-7	Field Blank	3510C, 8270C	T	7	1070 mL	1 mL	2	14	
490-39837-U-9	Equipment Blank	3510C, 8270C	T	7	1070 mL	1 mL	2	14	

Lab Sample ID	Client Sample ID	Method Chain	Basis	OP_1:1 Sulfur 00003	OP_BNA_Surr 00011	OP_MeCl2 00019	OP_NaOH 00006	OP_NaSO4 00016	
MB 490-121926/1		3510C, 8270C		3 mL	1 mL	360 mL	15 mL	25 g	
LCS 490-121926/2		3510C, 8270C		3 mL	1 mL	360 mL	15 mL	25 g	
490-39837-U-2	MW-03B-GW-001	3510C, 8270C	T	3 mL	1 mL	360 mL	15 mL	25 g	
490-39837-V-2 MS	MW-03B-GW-001	3510C, 8270C	T	3 mL	1 mL	360 mL	15 mL	25 g	
490-39837-U-2 MSD	MW-03B-GW-001	3510C, 8270C	T	3 mL	1 mL	360 mL	15 mL	25 g	
490-39837-U-4	MW-03B-GW-002	3510C, 8270C	T	3 mL	1 mL	360 mL	15 mL	25 g	
490-39837-U-6	MW-05-GW-001	3510C, 8270C	T	3 mL	1 mL	360 mL	15 mL	25 g	
490-39837-T-7	Field Blank	3510C, 8270C	T	3 mL	1 mL	360 mL	15 mL	25 g	
490-39837-U-9	Equipment Blank	3510C, 8270C	T	3 mL	1 mL	360 mL	15 mL	25 g	

Batch Notes	
Person's name who did the concentration	clh
Final Concentrator Volume	1 mL
Person's name who did the prep	clh
Person's name who witnessed reagent drop	fm

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Nashville Job No.: 490-39837-2

SDG No.:

Batch Number: 121926 Batch Start Date: 11/14/13 11:54 Batch Analyst: Hunt, Cherry

Batch Method: 3510C Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-39837 Chain of Custody

Cooler Received/Opened On 11/8/2013@ 0815

1. Tracking # 1672 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 96210146

2. Temperature of rep. sample or temp blank when opened: 2.1 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES NO NA

If yes, how many and where: Two front

5. Were the seals intact, signed, and dated correctly? YES NO NA

6. Were custody papers inside cooler? YES NO NA

I certify that I opened the cooler and answered questions 1-6 (intial) DA

7. Were custody seals on containers: YES NO and Intact YES NO NA

Were these signed and dated correctly? YES NO NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES NO NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES NO NA

12. Did all container labels and tags agree with custody papers? YES NO NA

13a. Were VOA vials received? YES NO NA

b. Was there any observable headspace present in any VOA vial? YES NO NA

14. Was there a Trip Blank in this cooler? YES NO NA If multiple coolers, sequence # 1

I certify that I unloaded the cooler and answered questions 7-14 (intial) DA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES NO NA

b. Did the bottle labels indicate that the correct preservatives were used YES NO NA

16. Was residual chlorine present? YES NO NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) DA

17. Were custody papers properly filled out (ink, signed, etc)? YES NO NA

18. Did you sign the custody papers in the appropriate place? YES NO NA

19. Were correct containers used for the analysis requested? YES NO NA

20. Was sufficient amount of sample sent in each container? YES NO NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) DA

I certify that I attached a label with the unique LIMS number to each container (intial) DA

21. Were there Non-Conformance issues at login? YES NO Was a NCM generated? YES NO # 90107, 90108

*Sample-0-7 has a pH of 5.

*Sample-0-9 has a pH of 5.

BIS = Broken in shipment

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

Loc: 490
39837

COOLER RECEIPT FORM

Cooler Received/Opened On 11/8/2013 @ 0815

1. Tracking # 1661 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 17960358

2. Temperature of rep. sample or temp blank when opened: 2.1 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO. NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 2 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) ELA

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #

I certify that I unloaded the cooler and answered questions 7-14 (intial) DA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) DA

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) DA

I certify that I attached a label with the unique LIMS number to each container (intial) DA

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# 90107, 90108

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
Effective 614

Revised 11/28/12
11/22/2013

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

Loc: 490
39837

COOLER RECEIPT FORM

Cooler Received/Opened On 11/8/2013 @ 0815

1. Tracking # 1650 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 17960358

2. Temperature of rep. sample or temp blank when opened: 3.4 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO..(NA)

4. Were custody seals on outside of cooler? (YES)...NO...NA

If yes, how many and where: 2 front

5. Were the seals intact, signed, and dated correctly? (YES)..NO...NA

6. Were custody papers inside cooler? YES...(NO)..NA

I certify that I opened the cooler and answered questions 1-6 (intial) ELA

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO..(NA)

8. Packing mat'l used? (Bubblewrap) (Plastic bag) Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)..NO...NA

13a. Were VOA vials received? (YES)...NO...NA

b. Was there any observable headspace present in any VOA vial? YES..(NO)..NA

14. Was there a Trip Blank in this cooler? (YES)...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) DA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? (YES)..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used (YES)..NO...NA

16. Was residual chlorine present? YES..(NO)..NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) DA

17. Were custody papers properly filled out (ink, signed, etc)? (YES)..NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)..NO...NA

19. Were correct containers used for the analysis requested? (YES)..NO...NA

20. Was sufficient amount of sample sent in each container? (YES)..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) DA

I certify that I attached a label with the unique LIMS number to each container (intial) DA

21. Were there Non-Conformance issues at login? (YES)..NO Was a NCM generated? (YES)..NO...# 90107, 90108

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 11/28/12
11/22/2013

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Loc: 490
39837

Chain of Custody Record

3 coolers

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

11/22/2013

Client Information
Client Contact: Mariruth Gruis
Company: Haley & Aldrich, Inc.
Address: 11020 King Street Suite 450
City: Overland Park
State, Zip: KS, 66210
Phone: 913-636-3497(Tel)
Email: mgruis@haleyaldrich.com
Project Name: Leeds Facility
Site:

Sampler: John Knightly
Phone: 913-522-0370
Lab PM: Connor, Roxanne
E-Mail: roxanne.connor@testamericainc.com
Carrier Tracking No(s): 5712-0302-1650, 5712-0302-1661, 5712-0302-1677
COC No: 490-16687-6964.1
Page: Page 1 of 7 — 1 of 2
Job #:

Due Date Requested:
TAT Requested (days):
PO #: Purchase Order Requested
WO #:
Project #: 49003847
SSOW#:

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B TCL	8270C TCL Semivolatiles List	Cr+6, SO4, Cl, NO3, NO2, CO2	6020A TCL metals + 7470A Hg	RSK_175 - Methane, Ethane, Ethylene	9060A TOC and DOC	9034 - Sulfide	9012B - Cyanide, Total	8016C_DAI_GLY - Ethylene Glycol	8082A - Standard PCBs (1016-1260)	1010A Flashpoint and 9040C pH	6020A Diss Mn (lab filtered)	6020A Fe & Mn	Total Number of containers	Special Instructions/Note:
				Preservation Code:																		
1	MW-03A-GW-001	11/7/13	0935	G	Water			X														
2	MW-03B-GW-001	11/7/13	1319	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X		
3	MW-03B-GW-001	11/7/13	1404	G	Water					X												Cr+06
4	MW-03B-GW-002	11/7/13	1319	G	Water			X	X	X	X	X	X	X	X	X	X		X	X		
5	MW-03B-GW-002	11/7/13	1404	G	Water					X												Cr+06
6	MW-05-GW-001	11/7/13	1617	G	Water			X	X	X	X	X	X	X	X	X	X		X	X		Cr+06
2S	MS/MSD-GW-001	11/7/13	1319	G	Water			X	X	X	X	X	X	X	X	X	X		X	X		From MW-03B
3S	MS/MSD-GW-001	11/7/13	1404	G	Water					X												Cr+06
7	Field Blank	11/7/13	0956	G	Water			X	X	X	X	X	X	X	X	X	X		X	X		
8	Field Blank	11/7/13	1400	G	Water					X												Cr+06
9	Equipment Blank	11/7/13	1038	G	Water			X	X	X	X	X	X	X	X	X	X		X	X		

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
DA 11-8-13	[signature]	11/7/13 1900		[signature]	11-8-13 0815	TAN
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.1, 2.1, 3.4

Page 612 of 614

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Loc: 490
39837

Chain of Custody Record

3 coolers

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

11/22/2013

Client Information	Sampler: John Knightly	Lab PM: Connor, Roxanne	Carrier Tracking No(s): 5712-0302-1650, 5712-0302-1661, 5712-0302-1672	COC No: 490-16687-6964.1
Client Contact: Mariruth Gruis	Phone: 913-522-0370	E-Mail: roxanne.connor@testamericainc.com		Page: Page 1 of 7 2 of 2
Company: Haley & Aldrich, Inc.				Job #:
Address: 11020 King Street Suite 450	Due Date Requested:			
City: Overland Park	TAT Requested (days):			
State, Zip: KS, 66210				
Phone: 913-636-3497(Tel)	PO #: Purchase Order Requested			
Email: mgruis@haleyaldrich.com	WO #:			
Project Name: Leeds Facility	Project #: 49003847			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B TCL	8270C TCL Semivolatiles List	Cr+6, SO4, Cl, NO3, NO2, CO2	6020A TCL metals + 7470A Hg	RSK_175 - Methane, Ethane, Ethylene	9060A TOC and DOC	9034 - Sulfide	9012B - Cyanide, Total	8015C_DAI_GLY - Ethylene Glycol	8082A - Standard PCBs (1016-1260)	1010A Flashpoint and 9040C pH	6020A Diss Mn (lab filtered)	6020A Fe & Mn	Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
10-12 Equipment Blank	11/7/13	1400	G	Water					X												Cr+06
7				Water																	
11-13 Trip Blank	—	—	—	Water			X														
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	

DA 11-8-13

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	John Knightly ~~11/13~~	11/7/13 1900			11-8-13 0815	TAN
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.1, 2.1, 3.4

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 490-39837-2

Login Number: 39837

List Source: TestAmerica Nashville

List Number: 1

Creator: Armstrong, Daniel

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1C, 2.1C, 3.4C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	False	Refer to Job Narrative for details.
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-39837-1
Client Project/Site: Former Leeds Assembly Plant

For:
Haley & Aldrich, Inc.
11020 King Street
Suite 450
Overland Park, Kansas 66210

Attn: Mariruth Gruis

Roxanne L Connor

Authorized for release by:
11/22/2013 10:30:25 AM

Roxanne Connor, Senior Project Manager
(615)301-5761
roxanne.connor@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39837-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-39837-2	MW-03B-GW-001	Water	11/07/13 13:19	11/08/13 08:15
490-39837-3	MW-03B-GW-001	Water	11/07/13 14:04	11/08/13 08:15
490-39837-4	MW-03B-GW-002	Water	11/07/13 13:19	11/08/13 08:15
490-39837-5	MW-03B-GW-002	Water	11/07/13 14:04	11/08/13 08:15
490-39837-6	MW-05-GW-001	Water	11/07/13 16:17	11/08/13 08:15
490-39837-7	Field Blank	Water	11/07/13 09:56	11/08/13 08:15
490-39837-8	Field Blank	Water	11/07/13 14:00	11/08/13 08:15
490-39837-9	Equipment Blank	Water	11/07/13 10:38	11/08/13 08:15
490-39837-10	Equipment Blank	Water	11/07/13 14:00	11/08/13 08:15

Job ID: 490-39837-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-39837-1

Comments
No additional comments.

Receipt
The samples were received on 11/8/2013 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.1º C, 2.1º C and 3.4º C.

Except:

The following sample(s) was received outside of holding time: Equipment Blank (490-39837-9), Field Blank (490-39837-7).

The following sample(s) were collected in properly preserved vials, however, the pH was outside the required criteria when verified by the laboratory: Equipment Blank (490-39837-9), Field Blank (490-39837-7).

HPLC
Method(s) 9056, 9056A: Due to the high concentration of Chloride, the matrix spike / matrix spike duplicate (MS/MSD) for batch 120636 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

GC Semi VOA
Method(s) 8015C: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) sample(s): MW-03B-GW-001 (490-39837-2 MS), MW-03B-GW-001 (490-39837-2 MSD). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

Method(s) RSK-175: The matrix spike recoveries for batch 123086 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

Metals
Method(s) 6020A: The matrix spike / matrix spike duplicate (MS/MSD) percent recoveries and %RPD for batch 490-122101 were outside control limits for Silver. This is attributed to: matrix interferences.

Method(s) 6020, 6020A: The following sample(s) was diluted to bring the concentration of Manganese within the calibration range: MW-03B-GW-001 (490-39837-2), MW-03B-GW-002 (490-39837-4), MW-05-GW-001 (490-39837-6). Elevated reporting limits (RLs) are provided.

Method(s) 6020A: The following sample(s) was diluted to bring the concentration of Manganese within the calibration range: MW-03B-GW-001 (490-39837-2), MW-03B-GW-002 (490-39837-4), MW-05-GW-001 (490-39837-6). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

General Chemistry
Method(s) 7196A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 120778 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 9012B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 123674 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

Job ID: 490-39837-1 (Continued)

Laboratory: TestAmerica Nashville (Continued)

Organic Prep

No analytical or quality issues were noted.

Qualifiers

GC VOA

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits
E	Result exceeded calibration range.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.
F	MS/MSD Recovery and/or RPD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F	MS/MSD Recovery and/or RPD exceeds the control limits

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes
F	MS/MSD Recovery and/or RPD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39837-1

Client Sample ID: MW-03B-GW-001
Date Collected: 11/07/13 13:19
Date Received: 11/08/13 08:15

Lab Sample ID: 490-39837-2
Matrix: Water

Method: 8015C - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND		10.0	0.500	mg/L			11/19/13 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-butyl alcohol (Surr)	*99*		*70 - 130*		*11/19/13 14:56*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		0.00500	0.00250	mg/L			11/19/13 14:20	1
Ethylene	**0.391**		0.00500	0.00250	mg/L			11/19/13 14:20	1
Methane	**0.552**		0.00500	0.00250	mg/L			11/19/13 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetylene (Surr)	*78*		*62 - 124*		*11/19/13 14:20*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.391	0.336	ug/L		11/13/13 09:20	11/14/13 15:49	1
PCB-1221	ND		0.391	0.266	ug/L		11/13/13 09:20	11/14/13 15:49	1
PCB-1232	ND		0.391	0.313	ug/L		11/13/13 09:20	11/14/13 15:49	1
PCB-1242	ND		0.391	0.172	ug/L		11/13/13 09:20	11/14/13 15:49	1
PCB-1248	ND		0.391	0.117	ug/L		11/13/13 09:20	11/14/13 15:49	1
PCB-1254	ND		0.391	0.133	ug/L		11/13/13 09:20	11/14/13 15:49	1
PCB-1260	ND		0.391	0.141	ug/L		11/13/13 09:20	11/14/13 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*60*		*10 - 150*	*11/13/13 09:20*	*11/14/13 15:49*	*1*
Tetrachloro-m-xylene	*23*	*p*	*10 - 150*	*11/13/13 09:20*	*11/14/13 15:49*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**223**		10.0	7.00	mg/L			11/20/13 14:21	10
Nitrite as N	ND		0.100	0.0500	mg/L			11/08/13 17:54	1
Nitrate as N	**0.0944**	**J**	0.100	0.0600	mg/L			11/08/13 17:54	1
Sulfate	**18.6**		1.00	0.600	mg/L			11/08/13 17:54	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:23	1
Arsenic	**0.110**		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:23	1
Barium	**0.647**		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:23	1
Beryllium	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:23	1
Cadmium	ND		0.00100	0.000400	mg/L		11/15/13 06:10	11/19/13 00:23	1
Chromium	**0.00653**		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:23	1
Cobalt	**0.00301**		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:23	1
Copper	**0.00505**		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:23	1
Iron	**22.9**		0.0250	0.0100	mg/L		11/15/13 06:10	11/19/13 00:23	1
Lead	**0.00368**		0.00200	0.000200	mg/L		11/15/13 06:10	11/19/13 00:23	1
Manganese	**4.65**		0.0200	0.0100	mg/L		11/15/13 06:10	11/19/13 20:01	10
Nickel	**0.00695**		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:23	1
Selenium	ND		0.00200	0.000600	mg/L		11/15/13 06:10	11/19/13 00:23	1
Silver	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:23	1

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39837-1

Client Sample ID: MW-03B-GW-001
Date Collected: 11/07/13 13:19
Date Received: 11/08/13 08:15

Lab Sample ID: 490-39837-2
Matrix: Water

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.00200	0.000200	mg/L		11/15/13 06:10	11/19/13 00:23	1
Vanadium	**0.00782**		0.00200	0.000100	mg/L		11/15/13 06:10	11/19/13 00:23	1
Zinc	**0.0197**	**J**	0.0250	0.0100	mg/L		11/15/13 06:10	11/19/13 00:23	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**4.29**		0.0200	0.0100	mg/L		11/19/13 09:34	11/20/13 20:05	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	0.000150	mg/L		11/21/13 08:21	11/21/13 10:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>200**		1.00	1.00	Degrees F			11/15/13 13:48	1
Cyanide, Total	ND		0.0100	0.00300	mg/L		11/20/13 11:45	11/20/13 19:27	1
Sulfide	ND		5.00	0.700	mg/L		11/13/13 13:50	11/13/13 15:10	1
pH	**7.51**		0.100	0.100	SU			11/08/13 13:25	1
Temperature	**21.1**		0.100	0.100	Degrees C			11/08/13 13:25	1
Total Organic Carbon	**2.03**		1.00	0.500	mg/L			11/18/13 18:15	1
Carbon Dioxide, Free	**35.6**	**HF**	20.0	10.0	mg/L			11/09/13 11:41	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	**2.22**		1.00	0.500	mg/L			11/15/13 16:31	1

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39837-1

Client Sample ID: MW-03B-GW-001
Date Collected: 11/07/13 14:04
Date Received: 11/08/13 08:15

Lab Sample ID: 490-39837-3
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	0.0900	J	0.100	0.0500	mg/L			11/08/13 13:48	10

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39837-1

Client Sample ID: MW-03B-GW-002
Date Collected: 11/07/13 13:19
Date Received: 11/08/13 08:15

Lab Sample ID: 490-39837-4
Matrix: Water

Method: 8015C - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND		10.0	0.500	mg/L			11/19/13 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-butyl alcohol (Surr)	*125*		*70 - 130*		*11/19/13 17:02*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		0.00500	0.00250	mg/L			11/19/13 15:53	1
Ethylene	**0.624**		0.00500	0.00250	mg/L			11/19/13 15:53	1
Methane	**0.902**		0.0100	0.00500	mg/L			11/19/13 15:55	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetylene (Surr)	*93*		*62 - 124*		*11/19/13 15:53*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.391	0.336	ug/L		11/13/13 09:20	11/14/13 16:27	1
PCB-1221	ND		0.391	0.266	ug/L		11/13/13 09:20	11/14/13 16:27	1
PCB-1232	ND		0.391	0.313	ug/L		11/13/13 09:20	11/14/13 16:27	1
PCB-1242	ND		0.391	0.172	ug/L		11/13/13 09:20	11/14/13 16:27	1
PCB-1248	ND		0.391	0.117	ug/L		11/13/13 09:20	11/14/13 16:27	1
PCB-1254	ND		0.391	0.133	ug/L		11/13/13 09:20	11/14/13 16:27	1
PCB-1260	ND		0.391	0.141	ug/L		11/13/13 09:20	11/14/13 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*43*		*10 - 150*	*11/13/13 09:20*	*11/14/13 16:27*	*1*
Tetrachloro-m-xylene	*49*		*10 - 150*	*11/13/13 09:20*	*11/14/13 16:27*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**249**		10.0	7.00	mg/L			11/20/13 14:41	10
Nitrite as N	ND		0.100	0.0500	mg/L			11/08/13 18:54	1
Nitrate as N	ND		0.100	0.0600	mg/L			11/08/13 18:54	1
Sulfate	**17.6**		1.00	0.600	mg/L			11/08/13 18:54	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:37	1
Arsenic	**0.110**		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:37	1
Barium	**0.672**		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:37	1
Beryllium	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:37	1
Cadmium	ND		0.00100	0.000400	mg/L		11/15/13 06:10	11/19/13 00:37	1
Chromium	**0.00471**		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:37	1
Cobalt	**0.00292**		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:37	1
Copper	**0.00527**		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:37	1
Iron	**23.0**		0.0250	0.0100	mg/L		11/15/13 06:10	11/19/13 00:37	1
Lead	**0.00461**		0.00200	0.000200	mg/L		11/15/13 06:10	11/19/13 00:37	1
Manganese	**4.40**		0.0200	0.0100	mg/L		11/15/13 06:10	11/19/13 20:06	10
Nickel	**0.00679**		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:37	1
Selenium	ND		0.00200	0.000600	mg/L		11/15/13 06:10	11/19/13 00:37	1
Silver	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:37	1

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39837-1

Client Sample ID: MW-03B-GW-002
Date Collected: 11/07/13 13:19
Date Received: 11/08/13 08:15

Lab Sample ID: 490-39837-4
Matrix: Water

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.00200	0.000200	mg/L		11/15/13 06:10	11/19/13 00:37	1
Vanadium	**0.00741**		0.00200	0.000100	mg/L		11/15/13 06:10	11/19/13 00:37	1
Zinc	**0.0200**	**J**	0.0250	0.0100	mg/L		11/15/13 06:10	11/19/13 00:37	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**4.16**		0.0200	0.0100	mg/L		11/19/13 09:34	11/20/13 20:29	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	0.000150	mg/L		11/21/13 08:21	11/21/13 11:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.00618**	**J**	0.0100	0.00300	mg/L		11/20/13 11:45	11/20/13 19:30	1
Sulfide	ND		5.00	0.700	mg/L		11/13/13 13:50	11/13/13 15:10	1
Total Organic Carbon	**2.01**		1.00	0.500	mg/L			11/18/13 18:15	1
Carbon Dioxide, Free	**40.4**	**HF**	20.0	10.0	mg/L			11/09/13 11:51	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	**2.76**		1.00	0.500	mg/L			11/15/13 16:31	1

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39837-1

Client Sample ID: MW-03B-GW-002
Date Collected: 11/07/13 14:04
Date Received: 11/08/13 08:15

Lab Sample ID: 490-39837-5
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	0.00700	J	0.0100	0.00500	mg/L			11/08/13 13:56	1

Client Sample ID: MW-05-GW-001

Lab Sample ID: 490-39837-6

Date Collected: 11/07/13 16:17

Matrix: Water

Date Received: 11/08/13 08:15

Method: 8015C - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND		10.0	0.500	mg/L			11/19/13 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-butyl alcohol (Surr)	*79*		*70 - 130*		*11/19/13 17:22*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		0.00500	0.00250	mg/L			11/19/13 15:57	1
Ethylene	ND		0.00500	0.00250	mg/L			11/19/13 15:57	1
Methane	**0.120**		0.00500	0.00250	mg/L			11/19/13 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetylene (Surr)	*85*		*62 - 124*		*11/19/13 15:57*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.391	0.336	ug/L		11/13/13 09:20	11/14/13 16:40	1
PCB-1221	ND		0.391	0.266	ug/L		11/13/13 09:20	11/14/13 16:40	1
PCB-1232	ND		0.391	0.313	ug/L		11/13/13 09:20	11/14/13 16:40	1
PCB-1242	ND		0.391	0.172	ug/L		11/13/13 09:20	11/14/13 16:40	1
PCB-1248	ND		0.391	0.117	ug/L		11/13/13 09:20	11/14/13 16:40	1
PCB-1254	ND		0.391	0.133	ug/L		11/13/13 09:20	11/14/13 16:40	1
PCB-1260	ND		0.391	0.141	ug/L		11/13/13 09:20	11/14/13 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*10 - 150*	*11/13/13 09:20*	*11/14/13 16:40*	*1*
Tetrachloro-m-xylene	*47*		*10 - 150*	*11/13/13 09:20*	*11/14/13 16:40*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.1**		1.00	0.700	mg/L			11/08/13 19:14	1
Nitrite as N	ND		0.100	0.0500	mg/L			11/08/13 19:14	1
Nitrate as N	ND		0.100	0.0600	mg/L			11/08/13 19:14	1
Sulfate	**15.8**		1.00	0.600	mg/L			11/08/13 19:14	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:52	1
Arsenic	**0.00586**		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:52	1
Barium	**0.346**		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:52	1
Beryllium	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:52	1
Cadmium	**0.000737**	**J**	0.00100	0.000400	mg/L		11/15/13 06:10	11/19/13 00:52	1
Chromium	**0.000726**	**J**	0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:52	1
Cobalt	**0.00582**		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:52	1
Copper	**0.00140**	**J**	0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:52	1
Iron	**0.648**		0.0250	0.0100	mg/L		11/15/13 06:10	11/19/13 00:52	1
Lead	**0.00501**		0.00200	0.000200	mg/L		11/15/13 06:10	11/19/13 00:52	1
Manganese	**12.0**		0.0400	0.0200	mg/L		11/15/13 06:10	11/19/13 20:11	20
Nickel	**0.0489**		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:52	1
Selenium	ND		0.00200	0.000600	mg/L		11/15/13 06:10	11/19/13 00:52	1
Silver	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:52	1

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39837-1

Client Sample ID: MW-05-GW-001
Date Collected: 11/07/13 16:17
Date Received: 11/08/13 08:15

Lab Sample ID: 490-39837-6
Matrix: Water

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.00200	0.000200	mg/L		11/15/13 06:10	11/19/13 00:52	1
Vanadium	**0.00211**		0.00200	0.000100	mg/L		11/15/13 06:10	11/19/13 00:52	1
Zinc	**0.0106**	**J**	0.0250	0.0100	mg/L		11/15/13 06:10	11/19/13 00:52	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**12.7**		0.0400	0.0200	mg/L		11/19/13 09:34	11/20/13 20:48	20

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	0.000150	mg/L		11/21/13 08:21	11/21/13 11:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	ND		0.0100	0.00500	mg/L			11/08/13 14:00	1
Cyanide, Total	ND		0.0100	0.00300	mg/L		11/20/13 11:45	11/20/13 19:31	1
Sulfide	ND		5.00	0.700	mg/L		11/13/13 13:50	11/13/13 15:10	1
Total Organic Carbon	**3.76**		1.00	0.500	mg/L			11/18/13 18:15	1
Carbon Dioxide, Free	**49.4**	**HF**	20.0	10.0	mg/L			11/09/13 11:55	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	**4.99**		1.00	0.500	mg/L			11/15/13 16:31	1

Client Sample ID: Field Blank
Date Collected: 11/07/13 09:56
Date Received: 11/08/13 08:15

Lab Sample ID: 490-39837-7
Matrix: Water

Method: 8015C - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND		10.0	0.500	mg/L			11/19/13 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-butyl alcohol (Surr)	*84*		*70 - 130*		*11/19/13 17:41*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		0.00500	0.00250	mg/L			11/19/13 16:00	1
Ethylene	ND		0.00500	0.00250	mg/L			11/19/13 16:00	1
Methane	ND		0.00500	0.00250	mg/L			11/19/13 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetylene (Surr)	*96*		*62 - 124*		*11/19/13 16:00*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.391	0.336	ug/L		11/13/13 09:20	11/14/13 16:52	1
PCB-1221	ND		0.391	0.266	ug/L		11/13/13 09:20	11/14/13 16:52	1
PCB-1232	ND		0.391	0.313	ug/L		11/13/13 09:20	11/14/13 16:52	1
PCB-1242	ND		0.391	0.172	ug/L		11/13/13 09:20	11/14/13 16:52	1
PCB-1248	ND		0.391	0.117	ug/L		11/13/13 09:20	11/14/13 16:52	1
PCB-1254	ND		0.391	0.133	ug/L		11/13/13 09:20	11/14/13 16:52	1
PCB-1260	ND		0.391	0.141	ug/L		11/13/13 09:20	11/14/13 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*53*		*10 - 150*	*11/13/13 09:20*	*11/14/13 16:52*	*1*
Tetrachloro-m-xylene	*48*		*10 - 150*	*11/13/13 09:20*	*11/14/13 16:52*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.00	0.700	mg/L			11/08/13 19:34	1
Nitrite as N	ND		0.100	0.0500	mg/L			11/08/13 19:34	1
Nitrate as N	ND		0.100	0.0600	mg/L			11/08/13 19:34	1
Sulfate	ND		1.00	0.600	mg/L			11/08/13 19:34	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:56	1
Arsenic	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:56	1
Barium	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:56	1
Beryllium	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:56	1
Cadmium	ND		0.00100	0.000400	mg/L		11/15/13 06:10	11/19/13 00:56	1
Chromium	**0.000608**	**J**	0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:56	1
Cobalt	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:56	1
Copper	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:56	1
Iron	ND		0.0250	0.0100	mg/L		11/15/13 06:10	11/19/13 00:56	1
Lead	ND		0.00200	0.000200	mg/L		11/15/13 06:10	11/19/13 00:56	1
Manganese	**0.00284**		0.00200	0.00100	mg/L		11/15/13 06:10	11/19/13 00:56	1
Nickel	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:56	1
Selenium	ND		0.00200	0.000600	mg/L		11/15/13 06:10	11/19/13 00:56	1
Silver	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 00:56	1

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39837-1

Client Sample ID: Field Blank
Date Collected: 11/07/13 09:56
Date Received: 11/08/13 08:15

Lab Sample ID: 490-39837-7
Matrix: Water

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.00200	0.000200	mg/L		11/15/13 06:10	11/19/13 00:56	1
Vanadium	ND		0.00200	0.000100	mg/L		11/15/13 06:10	11/19/13 00:56	1
Zinc	ND		0.0250	0.0100	mg/L		11/15/13 06:10	11/19/13 00:56	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.00121**	**J**	0.00200	0.00100	mg/L		11/19/13 09:34	11/21/13 13:52	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	0.000150	mg/L		11/21/13 08:21	11/21/13 11:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.0100	0.00300	mg/L		11/20/13 11:45	11/20/13 19:31	1
Sulfide	ND		5.00	0.700	mg/L		11/13/13 13:50	11/13/13 15:10	1
Total Organic Carbon	**0.989**	**J**	1.00	0.500	mg/L			11/18/13 18:15	1
Carbon Dioxide, Free	ND	HF	20.0	10.0	mg/L			11/09/13 11:59	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	ND		1.00	0.500	mg/L			11/15/13 16:31	1

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39837-1

Client Sample ID: Field Blank
Date Collected: 11/07/13 14:00
Date Received: 11/08/13 08:15

Lab Sample ID: 490-39837-8
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	ND		0.0100	0.00500	mg/L			11/08/13 13:38	1

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39837-1

Client Sample ID: Equipment Blank
Date Collected: 11/07/13 10:38
Date Received: 11/08/13 08:15

Lab Sample ID: 490-39837-9
Matrix: Water

Method: 8015C - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND		10.0	0.500	mg/L			11/19/13 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-butyl alcohol (Surr)	*87*		*70 - 130*		*11/19/13 18:01*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		0.00500	0.00250	mg/L			11/19/13 16:02	1
Ethylene	ND		0.00500	0.00250	mg/L			11/19/13 16:02	1
Methane	ND		0.00500	0.00250	mg/L			11/19/13 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetylene (Surr)	*96*		*62 - 124*		*11/19/13 16:02*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.391	0.336	ug/L		11/13/13 09:20	11/14/13 17:05	1
PCB-1221	ND		0.391	0.266	ug/L		11/13/13 09:20	11/14/13 17:05	1
PCB-1232	ND		0.391	0.313	ug/L		11/13/13 09:20	11/14/13 17:05	1
PCB-1242	ND		0.391	0.172	ug/L		11/13/13 09:20	11/14/13 17:05	1
PCB-1248	ND		0.391	0.117	ug/L		11/13/13 09:20	11/14/13 17:05	1
PCB-1254	ND		0.391	0.133	ug/L		11/13/13 09:20	11/14/13 17:05	1
PCB-1260	ND		0.391	0.141	ug/L		11/13/13 09:20	11/14/13 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*39*		*10 - 150*	*11/13/13 09:20*	*11/14/13 17:05*	*1*
Tetrachloro-m-xylene	*47*		*10 - 150*	*11/13/13 09:20*	*11/14/13 17:05*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.00	0.700	mg/L			11/08/13 19:54	1
Nitrite as N	ND		0.100	0.0500	mg/L			11/08/13 19:54	1
Nitrate as N	**0.0627**	**J**	0.100	0.0600	mg/L			11/08/13 19:54	1
Sulfate	ND		1.00	0.600	mg/L			11/08/13 19:54	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 01:01	1
Arsenic	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 01:01	1
Barium	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 01:01	1
Beryllium	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 01:01	1
Cadmium	ND		0.00100	0.000400	mg/L		11/15/13 06:10	11/19/13 01:01	1
Chromium	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 01:01	1
Cobalt	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 01:01	1
Copper	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 01:01	1
Iron	ND		0.0250	0.0100	mg/L		11/15/13 06:10	11/19/13 01:01	1
Lead	ND		0.00200	0.000200	mg/L		11/15/13 06:10	11/19/13 01:01	1
Manganese	ND		0.00200	0.00100	mg/L		11/15/13 06:10	11/19/13 01:01	1
Nickel	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 01:01	1
Selenium	ND		0.00200	0.000600	mg/L		11/15/13 06:10	11/19/13 01:01	1
Silver	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 01:01	1

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39837-1

Client Sample ID: Equipment Blank
Date Collected: 11/07/13 10:38
Date Received: 11/08/13 08:15

Lab Sample ID: 490-39837-9
Matrix: Water

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.00200	0.000200	mg/L		11/15/13 06:10	11/19/13 01:01	1
Vanadium	ND		0.00200	0.000100	mg/L		11/15/13 06:10	11/19/13 01:01	1
Zinc	ND		0.0250	0.0100	mg/L		11/15/13 06:10	11/19/13 01:01	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		0.00200	0.00100	mg/L		11/19/13 09:34	11/21/13 13:56	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	0.000150	mg/L		11/21/13 08:21	11/21/13 11:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.0100	0.00300	mg/L		11/20/13 11:45	11/20/13 19:32	1
Sulfide	ND		5.00	0.700	mg/L		11/13/13 13:50	11/13/13 15:10	1
Total Organic Carbon	ND		1.00	0.500	mg/L			11/18/13 18:15	1
Carbon Dioxide, Free	ND	HF	20.0	10.0	mg/L			11/09/13 12:02	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	ND		1.00	0.500	mg/L			11/15/13 16:31	1

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39837-1

Client Sample ID: Equipment Blank
Date Collected: 11/07/13 14:00
Date Received: 11/08/13 08:15

Lab Sample ID: 490-39837-10
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	ND		0.0100	0.00500	mg/L			11/08/13 13:43	1

Method: 8015C - Glycols- Direct Injection (GC/FID)

Lab Sample ID: MB 490-123108/3
Matrix: Water
Analysis Batch: 123108

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND		10.0	0.500	mg/L			11/19/13 13:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-butyl alcohol (Surr)	*77*		*70 - 130*		*11/19/13 13:38*	*1*

Lab Sample ID: LCS 490-123108/4
Matrix: Water
Analysis Batch: 123108

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylene glycol			50.0	52.70		mg/L		105	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-butyl alcohol (Surr)	*85*		*70 - 130*

Lab Sample ID: 490-39837-2 MS
Matrix: Water
Analysis Batch: 123108

Client Sample ID: MW-03B-GW-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylene glycol	ND		50.0	49.95		mg/L		100	41 - 139		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-butyl alcohol (Surr)	*228*	*X*	*70 - 130*

Lab Sample ID: 490-39837-2 MSD
Matrix: Water
Analysis Batch: 123108

Client Sample ID: MW-03B-GW-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene glycol	ND		50.0	53.61		mg/L		107	41 - 139	7	36

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-butyl alcohol (Surr)	*144*	*X*	*70 - 130*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 490-123086/34
Matrix: Water
Analysis Batch: 123086

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		0.00500	0.00250	mg/L			11/19/13 13:38	1
Ethylene	ND		0.00500	0.00250	mg/L			11/19/13 13:38	1
Methane	ND		0.00500	0.00250	mg/L			11/19/13 13:38	1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: MB 490-123086/34
Matrix: Water
Analysis Batch: 123086

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetylene (Surr)	81		62 - 124		11/19/13 13:38	1

Lab Sample ID: LCS 490-123086/35
Matrix: Water
Analysis Batch: 123086

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethane			0.513	0.4855		mg/L		95	80 - 120		
Ethylene			0.479	0.4099		mg/L		86	80 - 120		
Methane			0.273	0.2838		mg/L		104	80 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Acetylene (Surr)	92		62 - 124

Lab Sample ID: LCSD 490-123086/36
Matrix: Water
Analysis Batch: 123086

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane			0.513	0.4209		mg/L		82	80 - 120	14	30
Ethylene			0.479	0.3850		mg/L		80	80 - 120	6	29
Methane			0.273	0.2503		mg/L		92	80 - 120	13	33

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Acetylene (Surr)	77		62 - 124

Lab Sample ID: 490-39837-2 MS
Matrix: Water
Analysis Batch: 123086

Client Sample ID: MW-03B-GW-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethane	ND		0.513	0.3367	F	mg/L		66	71 - 120		
Ethylene	0.391		0.479	0.6208	F	mg/L		48	71 - 120		
Methane	0.552		0.273	0.6439	E F	mg/L		34	46 - 142		

Surrogate	MS %Recovery	MS Qualifier	Limits
Acetylene (Surr)	66		62 - 124

Lab Sample ID: 490-39837-2 MSD
Matrix: Water
Analysis Batch: 123086

Client Sample ID: MW-03B-GW-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	ND		0.513	0.4064		mg/L		79	71 - 120	19	30
Ethylene	0.391		0.479	0.7759		mg/L		80	71 - 120	22	30
Methane	0.552		0.273	0.8123	E	mg/L		95	46 - 142	23	30

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: 490-39837-2 MSD
Matrix: Water
Analysis Batch: 123086

Client Sample ID: MW-03B-GW-001
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Acetylene (Surr)	77		62 - 124

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 490-121501/1-A
Matrix: Water
Analysis Batch: 121889

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 121501

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.500	0.430	ug/L		11/13/13 09:20	11/14/13 13:43	1
PCB-1221	ND		0.500	0.340	ug/L		11/13/13 09:20	11/14/13 13:43	1
PCB-1232	ND		0.500	0.400	ug/L		11/13/13 09:20	11/14/13 13:43	1
PCB-1242	ND		0.500	0.220	ug/L		11/13/13 09:20	11/14/13 13:43	1
PCB-1248	ND		0.500	0.150	ug/L		11/13/13 09:20	11/14/13 13:43	1
PCB-1254	ND		0.500	0.170	ug/L		11/13/13 09:20	11/14/13 13:43	1
PCB-1260	ND		0.500	0.180	ug/L		11/13/13 09:20	11/14/13 13:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	59		10 - 150	11/13/13 09:20	11/14/13 13:43	1
Tetrachloro-m-xylene	44		10 - 150	11/13/13 09:20	11/14/13 13:43	1

Lab Sample ID: LCS 490-121501/2-A
Matrix: Water
Analysis Batch: 121889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 121501

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			8.00	5.829	p	ug/L		73	23 - 139		
PCB-1260			8.00	8.463		ug/L		106	36 - 144		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	67		10 - 150
Tetrachloro-m-xylene	41		10 - 150

Lab Sample ID: 490-39837-2 MS
Matrix: Water
Analysis Batch: 121889

Client Sample ID: MW-03B-GW-001
Prep Type: Total/NA
Prep Batch: 121501

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		6.25	4.626	p	ug/L		74	23 - 139		
PCB-1260	ND		6.25	7.090		ug/L		113	36 - 144		

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	40		10 - 150
Tetrachloro-m-xylene	45		10 - 150

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 490-39837-2 MSD
Matrix: Water
Analysis Batch: 121889

Client Sample ID: MW-03B-GW-001
Prep Type: Total/NA
Prep Batch: 121501

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		6.25	3.612	p	ug/L		58	23 - 139	25	
PCB-1260	ND		6.25	5.584		ug/L		89	36 - 144	24	

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*30*		*10 - 150*
Tetrachloro-m-xylene	*33*		*10 - 150*

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 490-120635/3
Matrix: Water
Analysis Batch: 120635

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.100	0.0500	mg/L			11/08/13 15:54	1
Nitrate as N	ND		0.100	0.0600	mg/L			11/08/13 15:54	1

Lab Sample ID: LCS 490-120635/4
Matrix: Water
Analysis Batch: 120635

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	5.00	4.997		mg/L		100	80 - 120
Nitrate as N	5.00	5.091		mg/L		102	80 - 120

Lab Sample ID: LCSD 490-120635/5
Matrix: Water
Analysis Batch: 120635

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	5.00	5.003		mg/L		100	80 - 120	0	20
Nitrate as N	5.00	5.048		mg/L		101	80 - 120	1	20

Lab Sample ID: 490-39837-2 MS
Matrix: Water
Analysis Batch: 120635

Client Sample ID: MW-03B-GW-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	ND		5.00	4.822		mg/L		96	80 - 120
Nitrate as N	0.0944	J	5.00	4.881		mg/L		96	80 - 120

Lab Sample ID: 490-39837-2 MSD
Matrix: Water
Analysis Batch: 120635

Client Sample ID: MW-03B-GW-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	ND		5.00	4.993		mg/L		100	80 - 120	3	20
Nitrate as N	0.0944	J	5.00	5.045		mg/L		99	80 - 120	3	20

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 490-120636/3
Matrix: Water
Analysis Batch: 120636

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.00	0.700	mg/L			11/08/13 15:54	1
Sulfate	ND		1.00	0.600	mg/L			11/08/13 15:54	1

Lab Sample ID: LCS 490-120636/4
Matrix: Water
Analysis Batch: 120636

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			50.0	50.38		mg/L		101	80 - 120		
Sulfate			50.0	49.26		mg/L		99	80 - 120		

Lab Sample ID: LCSD 490-120636/5
Matrix: Water
Analysis Batch: 120636

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			50.0	50.24		mg/L		100	80 - 120	0	20
Sulfate			50.0	49.25		mg/L		99	80 - 120	0	20

Lab Sample ID: 490-39837-2 MS
Matrix: Water
Analysis Batch: 120636

Client Sample ID: MW-03B-GW-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	198		50.0	221.1	E F	mg/L		46	80 - 120		
Sulfate	18.6		50.0	64.68		mg/L		92	80 - 120		

Lab Sample ID: 490-39837-2 MSD
Matrix: Water
Analysis Batch: 120636

Client Sample ID: MW-03B-GW-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	198		50.0	221.6	E F	mg/L		47	80 - 120	0	20
Sulfate	18.6		50.0	65.69		mg/L		94	80 - 120	2	20

Lab Sample ID: MB 490-123371/3
Matrix: Water
Analysis Batch: 123371

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.00	0.700	mg/L			11/20/13 13:40	1
Sulfate	ND		1.00	0.600	mg/L			11/20/13 13:40	1

Lab Sample ID: LCS 490-123371/4
Matrix: Water
Analysis Batch: 123371

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			50.0	49.51		mg/L		99	80 - 120		

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 490-123371/4
Matrix: Water
Analysis Batch: 123371

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			50.0	49.79		mg/L		100	80 - 120		

Lab Sample ID: LCSD 490-123371/11
Matrix: Water
Analysis Batch: 123371

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			50.0	50.98		mg/L		102	80 - 120	3	20
Sulfate			50.0	50.72		mg/L		101	80 - 120	2	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 490-122101/1-A
Matrix: Water
Analysis Batch: 123170

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 122101

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 22:57	1
Arsenic	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 22:57	1
Barium	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 22:57	1
Beryllium	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 22:57	1
Cadmium	ND		0.00100	0.000400	mg/L		11/15/13 06:10	11/18/13 22:57	1
Cobalt	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 22:57	1
Copper	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 22:57	1
Iron	ND		0.0250	0.0100	mg/L		11/15/13 06:10	11/18/13 22:57	1
Lead	ND		0.00200	0.000200	mg/L		11/15/13 06:10	11/18/13 22:57	1
Manganese	ND		0.00200	0.00100	mg/L		11/15/13 06:10	11/18/13 22:57	1
Nickel	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 22:57	1
Selenium	ND		0.00200	0.000600	mg/L		11/15/13 06:10	11/18/13 22:57	1
Silver	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/18/13 22:57	1
Thallium	ND		0.00200	0.000200	mg/L		11/15/13 06:10	11/18/13 22:57	1
Zinc	ND		0.0250	0.0100	mg/L		11/15/13 06:10	11/18/13 22:57	1

Lab Sample ID: MB 490-122101/1-A
Matrix: Water
Analysis Batch: 123296

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 122101

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.00200	0.000500	mg/L		11/15/13 06:10	11/19/13 18:45	1
Vanadium	ND		0.00200	0.000100	mg/L		11/15/13 06:10	11/19/13 18:45	1

Lab Sample ID: LCS 490-122101/2-A
Matrix: Water
Analysis Batch: 123170

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 122101

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Antimony			0.100	0.1028		mg/L		103	80 - 120		
Arsenic			0.100	0.09906		mg/L		99	80 - 120		
Barium			0.100	0.1002		mg/L		100	80 - 120		

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 490-122101/2-A
Matrix: Water
Analysis Batch: 123170

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 122101

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.100	0.09834		mg/L		98	80 - 120
Cadmium	0.100	0.1014		mg/L		101	80 - 120
Cobalt	0.100	0.09869		mg/L		99	80 - 120
Copper	0.100	0.09578		mg/L		96	80 - 120
Iron	1.00	1.001		mg/L		100	80 - 120
Lead	0.100	0.1010		mg/L		101	80 - 120
Manganese	0.100	0.09939		mg/L		99	80 - 120
Nickel	0.100	0.09859		mg/L		99	80 - 120
Selenium	0.100	0.09672		mg/L		97	80 - 120
Silver	0.100	0.1022		mg/L		102	80 - 120
Thallium	0.100	0.1025		mg/L		103	80 - 120
Zinc	0.100	0.09615		mg/L		96	80 - 120

Lab Sample ID: LCS 490-122101/2-A
Matrix: Water
Analysis Batch: 123296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 122101

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	0.100	0.09736		mg/L		97	80 - 120
Vanadium	0.100	0.09955		mg/L		100	80 - 120

Lab Sample ID: 490-39837-2 MS
Matrix: Water
Analysis Batch: 123170

Client Sample ID: MW-03B-GW-001
Prep Type: Total/NA
Prep Batch: 122101

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		0.100	0.08748		mg/L		87	75 - 125
Arsenic	0.110		0.100	0.2079		mg/L		98	75 - 125
Barium	0.647		0.100	0.7564	4	mg/L		109	75 - 125
Beryllium	ND		0.100	0.09566		mg/L		96	75 - 125
Cadmium	ND		0.100	0.1011		mg/L		101	75 - 125
Chromium	0.00653		0.100	0.1071		mg/L		101	75 - 125
Cobalt	0.00301		0.100	0.09837		mg/L		95	75 - 125
Copper	0.00505		0.100	0.09540		mg/L		90	75 - 125
Iron	22.9		1.00	24.03	4	mg/L		114	75 - 125
Lead	0.00368		0.100	0.1047		mg/L		101	75 - 125
Manganese	4.16		0.100	4.306	E 4	mg/L		151	75 - 125
Nickel	0.00695		0.100	0.1001		mg/L		93	75 - 125
Selenium	ND		0.100	0.09313		mg/L		93	75 - 125
Silver	ND		0.100	0.06297	F	mg/L		63	75 - 125
Thallium	ND		0.100	0.1024		mg/L		102	75 - 125
Vanadium	0.00782		0.100	0.1074		mg/L		100	75 - 125
Zinc	0.0197	J	0.100	0.1062		mg/L		87	75 - 125

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 490-39837-2 MSD — **Client Sample ID: MW-03B-GW-001**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 123170 — **Prep Batch: 122101**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		0.100	0.08678		mg/L		87	75 - 125	1	20
Arsenic	0.110		0.100	0.2059		mg/L		96	75 - 125	1	20
Barium	0.647		0.100	0.7425	4	mg/L		95	75 - 125	2	20
Beryllium	ND		0.100	0.09457		mg/L		95	75 - 125	1	20
Cadmium	ND		0.100	0.1008		mg/L		101	75 - 125	0	20
Chromium	0.00653		0.100	0.1011		mg/L		95	75 - 125	6	20
Cobalt	0.00301		0.100	0.09846		mg/L		95	75 - 125	0	20
Copper	0.00505		0.100	0.09562		mg/L		91	75 - 125	0	20
Iron	22.9		1.00	23.60	4	mg/L		71	75 - 125	2	20
Lead	0.00368		0.100	0.1051		mg/L		101	75 - 125	0	20
Manganese	4.16		0.100	4.205	E 4	mg/L		50	75 - 125	2	20
Nickel	0.00695		0.100	0.1004		mg/L		93	75 - 125	0	20
Selenium	ND		0.100	0.09553		mg/L		96	75 - 125	3	20
Silver	ND		0.100	0.02960	F	mg/L		30	75 - 125	72	20
Thallium	ND		0.100	0.1029		mg/L		103	75 - 125	0	20
Vanadium	0.00782		0.100	0.1074		mg/L		100	75 - 125	0	20
Zinc	0.0197	J	0.100	0.1073		mg/L		88	75 - 125	1	20

Lab Sample ID: MB 490-122938/1-B — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 123683 — **Prep Batch: 122964**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		0.00200	0.00100	mg/L		11/19/13 09:34	11/20/13 19:31	1

Lab Sample ID: LCS 490-122938/2-B — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 123683 — **Prep Batch: 122964**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	0.100	0.1053		mg/L		105	80 - 120

Lab Sample ID: LCSD 490-122938/3-B — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 123683 — **Prep Batch: 122964**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	0.100	0.1055		mg/L		106	80 - 120	0	20

Lab Sample ID: 490-39837-2 MS — **Client Sample ID: MW-03B-GW-001**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 123683 — **Prep Batch: 122964**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	4.29		0.100	4.424	4	mg/L		131	75 - 125

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 490-39837-2 MSD — **Client Sample ID: MW-03B-GW-001**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 123683 — **Prep Batch: 122964**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	4.29		0.100	4.345	4	mg/L		52	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 490-123607/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 123730 — **Prep Batch: 123607**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	0.000150	mg/L		11/21/13 08:21	11/21/13 10:51	1

Lab Sample ID: LCS 490-123607/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 123730 — **Prep Batch: 123607**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00100	0.001011		mg/L		101	80 - 120

Lab Sample ID: 490-39837-2 MS — **Client Sample ID: MW-03B-GW-001**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 123730 — **Prep Batch: 123607**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00100	0.001182		mg/L		118	75 - 125

Lab Sample ID: 490-39837-2 MSD — **Client Sample ID: MW-03B-GW-001**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 123730 — **Prep Batch: 123607**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00100	0.001199		mg/L		120	75 - 125	1	20

Method: 1010A - Ignitability,Pensky-Martens Closed Cup Method

Lab Sample ID: MB 490-122337/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 122337

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>200		1.00	1.00	Degrees F			11/15/13 13:48	1

Lab Sample ID: LCS 490-122337/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 122337

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	86.00		Degrees F		106	94 - 106

Method: 1010A - Ignitability,Pensky-Martens Closed Cup Method (Continued)

Lab Sample ID: LCSD 490-122337/19
Matrix: Water
Analysis Batch: 122337

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Flashpoint			81.0	81.00		Degrees F		100	94 - 106	6	20

Lab Sample ID: 490-39837-2 DU
Matrix: Water
Analysis Batch: 122337

Client Sample ID: MW-03B-GW-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Flashpoint	>200			>200		Degrees F				NC	10

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 490-120778/2
Matrix: Water
Analysis Batch: 120778

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	ND		0.0100	0.00500	mg/L			11/08/13 10:26	1

Lab Sample ID: LCS 490-120778/3
Matrix: Water
Analysis Batch: 120778

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chromium, hex			0.100	0.1000		mg/L		100	85 - 115		

Lab Sample ID: 490-39837-3 MS
Matrix: Water
Analysis Batch: 120778

Client Sample ID: MW-03B-GW-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chromium, hex	0.0900	J	1.00	0.5800	F	mg/L		49	85 - 115		

Lab Sample ID: 490-39837-3 MSD
Matrix: Water
Analysis Batch: 120778

Client Sample ID: MW-03B-GW-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hex	0.0900	J	1.00	0.6000	F	mg/L		51	85 - 115	3	10

Lab Sample ID: 490-39837-I-2 DU
Matrix: Water
Analysis Batch: 120778

Client Sample ID: 490-39837-I-2 DU
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chromium, hex	ND			ND		mg/L				NC	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 490-123543/1-A
Matrix: Water
Analysis Batch: 123674

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 123543

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.0100	0.00300	mg/L		11/20/13 11:45	11/20/13 19:24	1

Lab Sample ID: LCS 490-123543/2-A
Matrix: Water
Analysis Batch: 123674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 123543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.1070		mg/L		107	90 - 110

Lab Sample ID: 490-39837-2 MS
Matrix: Water
Analysis Batch: 123674

Client Sample ID: MW-03B-GW-001
Prep Type: Total/NA
Prep Batch: 123543

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	ND		0.100	0.05800	F	mg/L		58	70 - 130

Lab Sample ID: 490-39837-2 MSD
Matrix: Water
Analysis Batch: 123674

Client Sample ID: MW-03B-GW-001
Prep Type: Total/NA
Prep Batch: 123543

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	ND		0.100	0.05700	F	mg/L		57	70 - 130	2	46

Lab Sample ID: 490-39837-9 DU
Matrix: Water
Analysis Batch: 123674

Client Sample ID: Equipment Blank
Prep Type: Total/NA
Prep Batch: 123543

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cyanide, Total	ND		ND		mg/L		NC	20

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 490-121656/1-A
Matrix: Water
Analysis Batch: 122209

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 121656

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		5.00	0.700	mg/L		11/13/13 13:50	11/13/13 15:10	1

Lab Sample ID: LCS 490-121656/2-A
Matrix: Water
Analysis Batch: 122209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 121656

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	20.0	18.08		mg/L		90	80 - 120

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: 490-39837-2 MS — **Client Sample ID: MW-03B-GW-001**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 122209 — **Prep Batch: 121656**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	ND		20.0	16.69		mg/L		83	70 - 130

Lab Sample ID: 490-39837-2 MSD — **Client Sample ID: MW-03B-GW-001**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 122209 — **Prep Batch: 121656**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	ND		20.0	16.46		mg/L		82	70 - 130	1	10

Lab Sample ID: 490-39999-O-1-B DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 122209 — **Prep Batch: 121656**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	ND		ND		mg/L		NC	20

Method: 9040C - pH

Lab Sample ID: 490-39837-2 DU — **Client Sample ID: MW-03B-GW-001**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 120554

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.51		7.500		SU		0.1	20
Temperature	21.1		21.10		Degrees C		0	20

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 490-123071/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 123071

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.00	0.500	mg/L			11/18/13 18:15	1

Lab Sample ID: LCS 490-123071/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 123071

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	9.881		mg/L		99	90 - 110

Lab Sample ID: LCSD 490-123071/6 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 123071

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	10.0	9.867		mg/L		99	90 - 110	0	20

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 490-39837-2 MS — **Client Sample ID: MW-03B-GW-001**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 123071

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	2.03		20.0	21.06		mg/L		95	75 - 122

Lab Sample ID: 490-39837-2 MSD — **Client Sample ID: MW-03B-GW-001**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 123071

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	2.03		20.0	21.06		mg/L		95	75 - 122	0	20

Lab Sample ID: 490-39837-7 MS — **Client Sample ID: Field Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 123071

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	0.989	J	20.0	20.15		mg/L		96	75 - 122

Method: 9060A - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 490-122384/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 122516

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	ND		1.00	0.500	mg/L			11/15/13 16:31	1

Lab Sample ID: LCS 490-122384/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 122516

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	10.0	10.22		mg/L		102	90 - 110

Lab Sample ID: 490-39437-R-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 122516

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	2.25		20.0	21.40		mg/L		96	75 - 122

Lab Sample ID: 490-39837-2 MS — **Client Sample ID: MW-03B-GW-001**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 122516

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	2.22		20.0	23.06		mg/L		104	75 - 122

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39837-1

Method: SM 4500 CO2 C - Free Carbon Dioxide

Lab Sample ID: MB 490-121148/1
Matrix: Water
Analysis Batch: 121148

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide, Free	ND		20.0	10.0	mg/L			11/09/13 11:11	1

Lab Sample ID: LCS 490-121148/2
Matrix: Water
Analysis Batch: 121148

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Carbon Dioxide, Free			88.0	84.27		mg/L		96	90 - 110		

Lab Sample ID: LCSD 490-121148/16
Matrix: Water
Analysis Batch: 121148

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon Dioxide, Free			88.0	83.49		mg/L		95	90 - 110	1	20

Lab Sample ID: 490-39837-2 DU
Matrix: Water
Analysis Batch: 121148

Client Sample ID: MW-03B-GW-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Carbon Dioxide, Free	35.6	HF		33.90	HF	mg/L				5	20

GC VOA

Analysis Batch: 123086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39837-2	MW-03B-GW-001	Total/NA	Water	RSK-175	
490-39837-2 MS	MW-03B-GW-001	Total/NA	Water	RSK-175	
490-39837-2 MSD	MW-03B-GW-001	Total/NA	Water	RSK-175	
490-39837-4	MW-03B-GW-002	Total/NA	Water	RSK-175	
490-39837-4	MW-03B-GW-002	Total/NA	Water	RSK-175	
490-39837-6	MW-05-GW-001	Total/NA	Water	RSK-175	
490-39837-7	Field Blank	Total/NA	Water	RSK-175	
490-39837-9	Equipment Blank	Total/NA	Water	RSK-175	
LCS 490-123086/35	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 490-123086/36	Lab Control Sample Dup	Total/NA	Water	RSK-175	
MB 490-123086/34	Method Blank	Total/NA	Water	RSK-175	

Analysis Batch: 123108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39837-2	MW-03B-GW-001	Total/NA	Water	8015C	
490-39837-2 MS	MW-03B-GW-001	Total/NA	Water	8015C	
490-39837-2 MSD	MW-03B-GW-001	Total/NA	Water	8015C	
490-39837-4	MW-03B-GW-002	Total/NA	Water	8015C	
490-39837-6	MW-05-GW-001	Total/NA	Water	8015C	
490-39837-7	Field Blank	Total/NA	Water	8015C	
490-39837-9	Equipment Blank	Total/NA	Water	8015C	
LCS 490-123108/4	Lab Control Sample	Total/NA	Water	8015C	
MB 490-123108/3	Method Blank	Total/NA	Water	8015C	

GC Semi VOA

Prep Batch: 121501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39837-2	MW-03B-GW-001	Total/NA	Water	3510C	
490-39837-2 MS	MW-03B-GW-001	Total/NA	Water	3510C	
490-39837-2 MSD	MW-03B-GW-001	Total/NA	Water	3510C	
490-39837-4	MW-03B-GW-002	Total/NA	Water	3510C	
490-39837-6	MW-05-GW-001	Total/NA	Water	3510C	
490-39837-7	Field Blank	Total/NA	Water	3510C	
490-39837-9	Equipment Blank	Total/NA	Water	3510C	
LCS 490-121501/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 490-121501/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 121889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39837-2	MW-03B-GW-001	Total/NA	Water	8082A	121501
490-39837-2 MS	MW-03B-GW-001	Total/NA	Water	8082A	121501
490-39837-2 MSD	MW-03B-GW-001	Total/NA	Water	8082A	121501
490-39837-4	MW-03B-GW-002	Total/NA	Water	8082A	121501
490-39837-6	MW-05-GW-001	Total/NA	Water	8082A	121501
490-39837-7	Field Blank	Total/NA	Water	8082A	121501
490-39837-9	Equipment Blank	Total/NA	Water	8082A	121501
LCS 490-121501/2-A	Lab Control Sample	Total/NA	Water	8082A	121501
MB 490-121501/1-A	Method Blank	Total/NA	Water	8082A	121501

HPLC/IC

Analysis Batch: 120635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39837-2	MW-03B-GW-001	Total/NA	Water	9056A	
490-39837-2 MS	MW-03B-GW-001	Total/NA	Water	9056A	
490-39837-2 MSD	MW-03B-GW-001	Total/NA	Water	9056A	
490-39837-4	MW-03B-GW-002	Total/NA	Water	9056A	
490-39837-6	MW-05-GW-001	Total/NA	Water	9056A	
490-39837-7	Field Blank	Total/NA	Water	9056A	
490-39837-9	Equipment Blank	Total/NA	Water	9056A	
LCS 490-120635/4	Lab Control Sample	Total/NA	Water	9056A	
LCSD 490-120635/5	Lab Control Sample Dup	Total/NA	Water	9056A	
MB 490-120635/3	Method Blank	Total/NA	Water	9056A	

Analysis Batch: 120636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39837-2	MW-03B-GW-001	Total/NA	Water	9056A	
490-39837-2 MS	MW-03B-GW-001	Total/NA	Water	9056A	
490-39837-2 MSD	MW-03B-GW-001	Total/NA	Water	9056A	
490-39837-4	MW-03B-GW-002	Total/NA	Water	9056A	
490-39837-6	MW-05-GW-001	Total/NA	Water	9056A	
490-39837-7	Field Blank	Total/NA	Water	9056A	
490-39837-9	Equipment Blank	Total/NA	Water	9056A	
LCS 490-120636/4	Lab Control Sample	Total/NA	Water	9056A	
LCSD 490-120636/5	Lab Control Sample Dup	Total/NA	Water	9056A	
MB 490-120636/3	Method Blank	Total/NA	Water	9056A	

Analysis Batch: 123371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39837-2	MW-03B-GW-001	Total/NA	Water	9056A	
490-39837-4	MW-03B-GW-002	Total/NA	Water	9056A	
LCS 490-123371/4	Lab Control Sample	Total/NA	Water	9056A	
LCSD 490-123371/11	Lab Control Sample Dup	Total/NA	Water	9056A	
MB 490-123371/3	Method Blank	Total/NA	Water	9056A	

Metals

Prep Batch: 122101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39837-2	MW-03B-GW-001	Total/NA	Water	3010A	
490-39837-2 MS	MW-03B-GW-001	Total/NA	Water	3010A	
490-39837-2 MSD	MW-03B-GW-001	Total/NA	Water	3010A	
490-39837-4	MW-03B-GW-002	Total/NA	Water	3010A	
490-39837-6	MW-05-GW-001	Total/NA	Water	3010A	
490-39837-7	Field Blank	Total/NA	Water	3010A	
490-39837-9	Equipment Blank	Total/NA	Water	3010A	
LCS 490-122101/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 490-122101/1-A	Method Blank	Total/NA	Water	3010A	

Filtration Batch: 122938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39837-2	MW-03B-GW-001	Dissolved	Water	Filtration	
490-39837-2 MS	MW-03B-GW-001	Dissolved	Water	Filtration	

Metals (Continued)

Filtration Batch: 122938 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39837-2 MSD	MW-03B-GW-001	Dissolved	Water	Filtration	
490-39837-4	MW-03B-GW-002	Dissolved	Water	Filtration	
490-39837-6	MW-05-GW-001	Dissolved	Water	Filtration	
490-39837-7	Field Blank	Dissolved	Water	Filtration	
490-39837-9	Equipment Blank	Dissolved	Water	Filtration	
LCS 490-122938/2-B	Lab Control Sample	Dissolved	Water	Filtration	
LCSD 490-122938/3-B	Lab Control Sample Dup	Dissolved	Water	Filtration	
MB 490-122938/1-B	Method Blank	Dissolved	Water	Filtration	

Prep Batch: 122964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39837-2	MW-03B-GW-001	Dissolved	Water	3005A	122938
490-39837-2 MS	MW-03B-GW-001	Dissolved	Water	3005A	122938
490-39837-2 MSD	MW-03B-GW-001	Dissolved	Water	3005A	122938
490-39837-4	MW-03B-GW-002	Dissolved	Water	3005A	122938
490-39837-6	MW-05-GW-001	Dissolved	Water	3005A	122938
490-39837-7	Field Blank	Dissolved	Water	3005A	122938
490-39837-9	Equipment Blank	Dissolved	Water	3005A	122938
LCS 490-122938/2-B	Lab Control Sample	Dissolved	Water	3005A	122938
LCSD 490-122938/3-B	Lab Control Sample Dup	Dissolved	Water	3005A	122938
MB 490-122938/1-B	Method Blank	Dissolved	Water	3005A	122938

Analysis Batch: 123170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39837-2	MW-03B-GW-001	Total/NA	Water	6020A	122101
490-39837-2 MS	MW-03B-GW-001	Total/NA	Water	6020A	122101
490-39837-2 MSD	MW-03B-GW-001	Total/NA	Water	6020A	122101
490-39837-4	MW-03B-GW-002	Total/NA	Water	6020A	122101
490-39837-6	MW-05-GW-001	Total/NA	Water	6020A	122101
490-39837-7	Field Blank	Total/NA	Water	6020A	122101
490-39837-9	Equipment Blank	Total/NA	Water	6020A	122101
LCS 490-122101/2-A	Lab Control Sample	Total/NA	Water	6020A	122101
MB 490-122101/1-A	Method Blank	Total/NA	Water	6020A	122101

Analysis Batch: 123296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39837-2	MW-03B-GW-001	Total/NA	Water	6020A	122101
490-39837-4	MW-03B-GW-002	Total/NA	Water	6020A	122101
490-39837-6	MW-05-GW-001	Total/NA	Water	6020A	122101
LCS 490-122101/2-A	Lab Control Sample	Total/NA	Water	6020A	122101
MB 490-122101/1-A	Method Blank	Total/NA	Water	6020A	122101

Prep Batch: 123607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39837-2	MW-03B-GW-001	Total/NA	Water	7470A	
490-39837-2 MS	MW-03B-GW-001	Total/NA	Water	7470A	
490-39837-2 MSD	MW-03B-GW-001	Total/NA	Water	7470A	
490-39837-4	MW-03B-GW-002	Total/NA	Water	7470A	
490-39837-6	MW-05-GW-001	Total/NA	Water	7470A	
490-39837-7	Field Blank	Total/NA	Water	7470A	
490-39837-9	Equipment Blank	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 123607 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 490-123607/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 490-123607/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 123683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39837-2	MW-03B-GW-001	Dissolved	Water	6020A	122964
490-39837-2 MS	MW-03B-GW-001	Dissolved	Water	6020A	122964
490-39837-2 MSD	MW-03B-GW-001	Dissolved	Water	6020A	122964
490-39837-4	MW-03B-GW-002	Dissolved	Water	6020A	122964
490-39837-6	MW-05-GW-001	Dissolved	Water	6020A	122964
LCS 490-122938/2-B	Lab Control Sample	Dissolved	Water	6020A	122964
LCSD 490-122938/3-B	Lab Control Sample Dup	Dissolved	Water	6020A	122964
MB 490-122938/1-B	Method Blank	Dissolved	Water	6020A	122964

Analysis Batch: 123730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39837-2	MW-03B-GW-001	Total/NA	Water	7470A	123607
490-39837-2 MS	MW-03B-GW-001	Total/NA	Water	7470A	123607
490-39837-2 MSD	MW-03B-GW-001	Total/NA	Water	7470A	123607
490-39837-4	MW-03B-GW-002	Total/NA	Water	7470A	123607
490-39837-6	MW-05-GW-001	Total/NA	Water	7470A	123607
490-39837-7	Field Blank	Total/NA	Water	7470A	123607
490-39837-9	Equipment Blank	Total/NA	Water	7470A	123607
LCS 490-123607/2-A	Lab Control Sample	Total/NA	Water	7470A	123607
MB 490-123607/1-A	Method Blank	Total/NA	Water	7470A	123607

Analysis Batch: 123806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39837-7	Field Blank	Dissolved	Water	6020A	122964
490-39837-9	Equipment Blank	Dissolved	Water	6020A	122964

General Chemistry

Analysis Batch: 120554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39837-2	MW-03B-GW-001	Total/NA	Water	9040C	
490-39837-2 DU	MW-03B-GW-001	Total/NA	Water	9040C	
LCS 490-120554/7	Lab Control Sample	Total/NA	Water	9040C	

Analysis Batch: 120778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39837-3	MW-03B-GW-001	Total/NA	Water	7196A	
490-39837-3 MS	MW-03B-GW-001	Total/NA	Water	7196A	
490-39837-3 MSD	MW-03B-GW-001	Total/NA	Water	7196A	
490-39837-5	MW-03B-GW-002	Total/NA	Water	7196A	
490-39837-6	MW-05-GW-001	Total/NA	Water	7196A	
490-39837-8	Field Blank	Total/NA	Water	7196A	
490-39837-10	Equipment Blank	Total/NA	Water	7196A	
490-39837-I-2 DU	490-39837-I-2 DU	Total/NA	Water	7196A	
LCS 490-120778/3	Lab Control Sample	Total/NA	Water	7196A	

General Chemistry (Continued)

Analysis Batch: 120778 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 490-120778/2	Method Blank	Total/NA	Water	7196A	

Analysis Batch: 121148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39837-2	MW-03B-GW-001	Total/NA	Water	SM 4500 CO2 C	
490-39837-2 DU	MW-03B-GW-001	Total/NA	Water	SM 4500 CO2 C	
490-39837-4	MW-03B-GW-002	Total/NA	Water	SM 4500 CO2 C	
490-39837-6	MW-05-GW-001	Total/NA	Water	SM 4500 CO2 C	
490-39837-7	Field Blank	Total/NA	Water	SM 4500 CO2 C	
490-39837-9	Equipment Blank	Total/NA	Water	SM 4500 CO2 C	
LCS 490-121148/2	Lab Control Sample	Total/NA	Water	SM 4500 CO2 C	
LCSD 490-121148/16	Lab Control Sample Dup	Total/NA	Water	SM 4500 CO2 C	
MB 490-121148/1	Method Blank	Total/NA	Water	SM 4500 CO2 C	

Prep Batch: 121656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39837-2	MW-03B-GW-001	Total/NA	Water	9030B	
490-39837-2 MS	MW-03B-GW-001	Total/NA	Water	9030B	
490-39837-2 MSD	MW-03B-GW-001	Total/NA	Water	9030B	
490-39837-4	MW-03B-GW-002	Total/NA	Water	9030B	
490-39837-6	MW-05-GW-001	Total/NA	Water	9030B	
490-39837-7	Field Blank	Total/NA	Water	9030B	
490-39837-9	Equipment Blank	Total/NA	Water	9030B	
490-39999-O-1-B DU	Duplicate	Total/NA	Water	9030B	
LCS 490-121656/2-A	Lab Control Sample	Total/NA	Water	9030B	
MB 490-121656/1-A	Method Blank	Total/NA	Water	9030B	

Analysis Batch: 122209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39837-2	MW-03B-GW-001	Total/NA	Water	9034	121656
490-39837-2 MS	MW-03B-GW-001	Total/NA	Water	9034	121656
490-39837-2 MSD	MW-03B-GW-001	Total/NA	Water	9034	121656
490-39837-4	MW-03B-GW-002	Total/NA	Water	9034	121656
490-39837-6	MW-05-GW-001	Total/NA	Water	9034	121656
490-39837-7	Field Blank	Total/NA	Water	9034	121656
490-39837-9	Equipment Blank	Total/NA	Water	9034	121656
490-39999-O-1-B DU	Duplicate	Total/NA	Water	9034	121656
LCS 490-121656/2-A	Lab Control Sample	Total/NA	Water	9034	121656
MB 490-121656/1-A	Method Blank	Total/NA	Water	9034	121656

Analysis Batch: 122337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39837-2	MW-03B-GW-001	Total/NA	Water	1010A	
490-39837-2 DU	MW-03B-GW-001	Total/NA	Water	1010A	
LCS 490-122337/2	Lab Control Sample	Total/NA	Water	1010A	
LCSD 490-122337/19	Lab Control Sample Dup	Total/NA	Water	1010A	
MB 490-122337/1	Method Blank	Total/NA	Water	1010A	

Filtration Batch: 122384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39437-R-1-B MS	Matrix Spike	Dissolved	Water	Filtration	

General Chemistry (Continued)

Filtration Batch: 122384 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39837-2	MW-03B-GW-001	Dissolved	Water	Filtration	
490-39837-2 MS	MW-03B-GW-001	Dissolved	Water	Filtration	
490-39837-4	MW-03B-GW-002	Dissolved	Water	Filtration	
490-39837-6	MW-05-GW-001	Dissolved	Water	Filtration	
490-39837-7	Field Blank	Dissolved	Water	Filtration	
490-39837-9	Equipment Blank	Dissolved	Water	Filtration	
LCS 490-122384/2-A	Lab Control Sample	Dissolved	Water	Filtration	
MB 490-122384/1-A	Method Blank	Dissolved	Water	Filtration	

Analysis Batch: 122516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39437-R-1-B MS	Matrix Spike	Dissolved	Water	9060A	122384
490-39837-2	MW-03B-GW-001	Dissolved	Water	9060A	122384
490-39837-2 MS	MW-03B-GW-001	Dissolved	Water	9060A	122384
490-39837-4	MW-03B-GW-002	Dissolved	Water	9060A	122384
490-39837-6	MW-05-GW-001	Dissolved	Water	9060A	122384
490-39837-7	Field Blank	Dissolved	Water	9060A	122384
490-39837-9	Equipment Blank	Dissolved	Water	9060A	122384
LCS 490-122384/2-A	Lab Control Sample	Dissolved	Water	9060A	122384
MB 490-122384/1-A	Method Blank	Dissolved	Water	9060A	122384

Analysis Batch: 123071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39837-2	MW-03B-GW-001	Total/NA	Water	9060A	
490-39837-2 MS	MW-03B-GW-001	Total/NA	Water	9060A	
490-39837-2 MSD	MW-03B-GW-001	Total/NA	Water	9060A	
490-39837-4	MW-03B-GW-002	Total/NA	Water	9060A	
490-39837-6	MW-05-GW-001	Total/NA	Water	9060A	
490-39837-7	Field Blank	Total/NA	Water	9060A	
490-39837-7 MS	Field Blank	Total/NA	Water	9060A	
490-39837-9	Equipment Blank	Total/NA	Water	9060A	
LCS 490-123071/5	Lab Control Sample	Total/NA	Water	9060A	
LCSD 490-123071/6	Lab Control Sample Dup	Total/NA	Water	9060A	
MB 490-123071/1	Method Blank	Total/NA	Water	9060A	

Prep Batch: 123543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39837-2	MW-03B-GW-001	Total/NA	Water	9012B	
490-39837-2 MS	MW-03B-GW-001	Total/NA	Water	9012B	
490-39837-2 MSD	MW-03B-GW-001	Total/NA	Water	9012B	
490-39837-4	MW-03B-GW-002	Total/NA	Water	9012B	
490-39837-6	MW-05-GW-001	Total/NA	Water	9012B	
490-39837-7	Field Blank	Total/NA	Water	9012B	
490-39837-9	Equipment Blank	Total/NA	Water	9012B	
490-39837-9 DU	Equipment Blank	Total/NA	Water	9012B	
LCS 490-123543/2-A	Lab Control Sample	Total/NA	Water	9012B	
MB 490-123543/1-A	Method Blank	Total/NA	Water	9012B	

Analysis Batch: 123674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39837-2	MW-03B-GW-001	Total/NA	Water	9012B	123543

General Chemistry (Continued)

Analysis Batch: 123674 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39837-2 MS	MW-03B-GW-001	Total/NA	Water	9012B	123543
490-39837-2 MSD	MW-03B-GW-001	Total/NA	Water	9012B	123543
490-39837-4	MW-03B-GW-002	Total/NA	Water	9012B	123543
490-39837-6	MW-05-GW-001	Total/NA	Water	9012B	123543
490-39837-7	Field Blank	Total/NA	Water	9012B	123543
490-39837-9	Equipment Blank	Total/NA	Water	9012B	123543
490-39837-9 DU	Equipment Blank	Total/NA	Water	9012B	123543
LCS 490-123543/2-A	Lab Control Sample	Total/NA	Water	9012B	123543
MB 490-123543/1-A	Method Blank	Total/NA	Water	9012B	123543

Client Sample ID: MW-03B-GW-001

Lab Sample ID: 490-39837-2

Date Collected: 11/07/13 13:19

Matrix: Water

Date Received: 11/08/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	123086	11/19/13 14:20	MGH	TAL NSH
Total/NA	Analysis	8015C		1	123108	11/19/13 14:56	JPS	TAL NSH
Total/NA	Prep	3510C			121501	11/13/13 09:20	FXM	TAL NSH
Total/NA	Analysis	8082A		1	121889	11/14/13 15:49	WAM	TAL NSH
Total/NA	Analysis	9056A		1	120635	11/08/13 17:54	JHS	TAL NSH
Total/NA	Analysis	9056A		1	120636	11/08/13 17:54	JHS	TAL NSH
Total/NA	Analysis	9056A		10	123371	11/20/13 14:21	HMT	TAL NSH
Total/NA	Analysis	6020A		1	123170	11/19/13 00:23	BWW	TAL NSH
Total/NA	Prep	3010A			122101	11/15/13 06:10	NLI	TAL NSH
Total/NA	Analysis	6020A		10	123296	11/19/13 20:01	BWW	TAL NSH
Dissolved	Filtration	Filtration			122938	11/19/13 08:50	NLI	TAL NSH
Dissolved	Prep	3005A			122964	11/19/13 09:34	NLI	TAL NSH
Dissolved	Analysis	6020A		10	123683	11/20/13 20:05	BWW	TAL NSH
Total/NA	Prep	7470A			123607	11/21/13 08:21	LTB	TAL NSH
Total/NA	Analysis	7470A		1	123730	11/21/13 10:58	LTB	TAL NSH
Total/NA	Analysis	9040C		1	120554	11/08/13 13:25	SJM	TAL NSH
Total/NA	Analysis	SM 4500 CO2 C		1	121148	11/09/13 11:41	BLM	TAL NSH
Total/NA	Prep	9030B			121656	11/13/13 13:50	SDJ	TAL NSH
Total/NA	Analysis	9034		1	122209	11/13/13 15:10	SDJ	TAL NSH
Total/NA	Analysis	1010A		1	122337	11/15/13 13:48	RKG	TAL NSH
Dissolved	Filtration	Filtration			122384	11/15/13 10:00	CLJ	TAL NSH
Dissolved	Analysis	9060A		1	122516	11/15/13 16:31	JKF	TAL NSH
Total/NA	Analysis	9060A		1	123071	11/18/13 18:15	JKF	TAL NSH
Total/NA	Prep	9012B			123543	11/20/13 11:45	REM	TAL NSH
Total/NA	Analysis	9012B		1	123674	11/20/13 19:27	TEM	TAL NSH

Client Sample ID: MW-03B-GW-001

Lab Sample ID: 490-39837-3

Date Collected: 11/07/13 14:04

Matrix: Water

Date Received: 11/08/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		10	120778	11/08/13 13:48	BLM	TAL NSH

Client Sample ID: MW-03B-GW-002

Lab Sample ID: 490-39837-4

Date Collected: 11/07/13 13:19

Matrix: Water

Date Received: 11/08/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	123086	11/19/13 15:53	MGH	TAL NSH
Total/NA	Analysis	RSK-175		2	123086	11/19/13 15:55	MGH	TAL NSH
Total/NA	Analysis	8015C		1	123108	11/19/13 17:02	JPS	TAL NSH
Total/NA	Analysis	8082A		1	121889	11/14/13 16:27	WAM	TAL NSH

Client Sample ID: MW-03B-GW-002

Lab Sample ID: 490-39837-4

Date Collected: 11/07/13 13:19

Matrix: Water

Date Received: 11/08/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			121501	11/13/13 09:20	FXM	TAL NSH
Total/NA	Analysis	9056A		1	120635	11/08/13 18:54	JHS	TAL NSH
Total/NA	Analysis	9056A		1	120636	11/08/13 18:54	JHS	TAL NSH
Total/NA	Analysis	9056A		10	123371	11/20/13 14:41	HMT	TAL NSH
Total/NA	Analysis	6020A		1	123170	11/19/13 00:37	BWW	TAL NSH
Total/NA	Prep	3010A			122101	11/15/13 06:10	NLI	TAL NSH
Total/NA	Analysis	6020A		10	123296	11/19/13 20:06	BWW	TAL NSH
Dissolved	Filtration	Filtration			122938	11/19/13 08:50	NLI	TAL NSH
Dissolved	Prep	3005A			122964	11/19/13 09:34	NLI	TAL NSH
Dissolved	Analysis	6020A		10	123683	11/20/13 20:29	BWW	TAL NSH
Total/NA	Prep	7470A			123607	11/21/13 08:21	LTB	TAL NSH
Total/NA	Analysis	7470A		1	123730	11/21/13 11:03	LTB	TAL NSH
Total/NA	Analysis	SM 4500 CO2 C		1	121148	11/09/13 11:51	BLM	TAL NSH
Total/NA	Prep	9030B			121656	11/13/13 13:50	SDJ	TAL NSH
Total/NA	Analysis	9034		1	122209	11/13/13 15:10	SDJ	TAL NSH
Dissolved	Filtration	Filtration			122384	11/15/13 10:00	CLJ	TAL NSH
Dissolved	Analysis	9060A		1	122516	11/15/13 16:31	JKF	TAL NSH
Total/NA	Analysis	9060A		1	123071	11/18/13 18:15	JKF	TAL NSH
Total/NA	Prep	9012B			123543	11/20/13 11:45	REM	TAL NSH
Total/NA	Analysis	9012B		1	123674	11/20/13 19:30	TEM	TAL NSH

Client Sample ID: MW-03B-GW-002

Lab Sample ID: 490-39837-5

Date Collected: 11/07/13 14:04

Matrix: Water

Date Received: 11/08/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1	120778	11/08/13 13:56	BLM	TAL NSH

Client Sample ID: MW-05-GW-001

Lab Sample ID: 490-39837-6

Date Collected: 11/07/13 16:17

Matrix: Water

Date Received: 11/08/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	123086	11/19/13 15:57	MGH	TAL NSH
Total/NA	Analysis	8015C		1	123108	11/19/13 17:22	JPS	TAL NSH
Total/NA	Analysis	8082A		1	121889	11/14/13 16:40	WAM	TAL NSH
Total/NA	Prep	3510C			121501	11/13/13 09:20	FXM	TAL NSH
Total/NA	Analysis	9056A		1	120635	11/08/13 19:14	JHS	TAL NSH
Total/NA	Analysis	9056A		1	120636	11/08/13 19:14	JHS	TAL NSH
Total/NA	Analysis	6020A		1	123170	11/19/13 00:52	BWW	TAL NSH
Total/NA	Prep	3010A			122101	11/15/13 06:10	NLI	TAL NSH
Total/NA	Analysis	6020A		20	123296	11/19/13 20:11	BWW	TAL NSH

Client Sample ID: MW-05-GW-001

Lab Sample ID: 490-39837-6

Date Collected: 11/07/13 16:17

Matrix: Water

Date Received: 11/08/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			122938	11/19/13 08:50	NLI	TAL NSH
Dissolved	Prep	3005A			122964	11/19/13 09:34	NLI	TAL NSH
Dissolved	Analysis	6020A		20	123683	11/20/13 20:48	BWW	TAL NSH
Total/NA	Prep	7470A			123607	11/21/13 08:21	LTB	TAL NSH
Total/NA	Analysis	7470A		1	123730	11/21/13 11:05	LTB	TAL NSH
Total/NA	Analysis	7196A		1	120778	11/08/13 14:00	BLM	TAL NSH
Total/NA	Analysis	SM 4500 CO2 C		1	121148	11/09/13 11:55	BLM	TAL NSH
Total/NA	Prep	9030B			121656	11/13/13 13:50	SDJ	TAL NSH
Total/NA	Analysis	9034		1	122209	11/13/13 15:10	SDJ	TAL NSH
Dissolved	Filtration	Filtration			122384	11/15/13 10:00	CLJ	TAL NSH
Dissolved	Analysis	9060A		1	122516	11/15/13 16:31	JKF	TAL NSH
Total/NA	Analysis	9060A		1	123071	11/18/13 18:15	JKF	TAL NSH
Total/NA	Prep	9012B			123543	11/20/13 11:45	REM	TAL NSH
Total/NA	Analysis	9012B		1	123674	11/20/13 19:31	TEM	TAL NSH

Client Sample ID: Field Blank

Lab Sample ID: 490-39837-7

Date Collected: 11/07/13 09:56

Matrix: Water

Date Received: 11/08/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	123086	11/19/13 16:00	MGH	TAL NSH
Total/NA	Analysis	8015C		1	123108	11/19/13 17:41	JPS	TAL NSH
Total/NA	Prep	3510C			121501	11/13/13 09:20	FXM	TAL NSH
Total/NA	Analysis	8082A		1	121889	11/14/13 16:52	WAM	TAL NSH
Total/NA	Analysis	9056A		1	120635	11/08/13 19:34	JHS	TAL NSH
Total/NA	Analysis	9056A		1	120636	11/08/13 19:34	JHS	TAL NSH
Total/NA	Prep	3010A			122101	11/15/13 06:10	NLI	TAL NSH
Total/NA	Analysis	6020A		1	123170	11/19/13 00:56	BWW	TAL NSH
Total/NA	Prep	7470A			123607	11/21/13 08:21	LTB	TAL NSH
Total/NA	Analysis	7470A		1	123730	11/21/13 11:06	LTB	TAL NSH
Dissolved	Filtration	Filtration			122938	11/19/13 08:50	NLI	TAL NSH
Dissolved	Prep	3005A			122964	11/19/13 09:34	NLI	TAL NSH
Dissolved	Analysis	6020A		1	123806	11/21/13 13:52	BWW	TAL NSH
Total/NA	Analysis	SM 4500 CO2 C		1	121148	11/09/13 11:59	BLM	TAL NSH
Total/NA	Prep	9030B			121656	11/13/13 13:50	SDJ	TAL NSH
Total/NA	Analysis	9034		1	122209	11/13/13 15:10	SDJ	TAL NSH
Dissolved	Filtration	Filtration			122384	11/15/13 10:00	CLJ	TAL NSH
Dissolved	Analysis	9060A		1	122516	11/15/13 16:31	JKF	TAL NSH
Total/NA	Analysis	9060A		1	123071	11/18/13 18:15	JKF	TAL NSH
Total/NA	Prep	9012B			123543	11/20/13 11:45	REM	TAL NSH
Total/NA	Analysis	9012B		1	123674	11/20/13 19:31	TEM	TAL NSH

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39837-1

Client Sample ID: Field Blank

Lab Sample ID: 490-39837-8

Date Collected: 11/07/13 14:00
Matrix: Water
Date Received: 11/08/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1	120778	11/08/13 13:38	BLM	TAL NSH

Client Sample ID: Equipment Blank

Lab Sample ID: 490-39837-9

Date Collected: 11/07/13 10:38
Matrix: Water
Date Received: 11/08/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	123086	11/19/13 16:02	MGH	TAL NSH
Total/NA	Analysis	8015C		1	123108	11/19/13 18:01	JPS	TAL NSH
Total/NA	Prep	3510C			121501	11/13/13 09:20	FXM	TAL NSH
Total/NA	Analysis	8082A		1	121889	11/14/13 17:05	WAM	TAL NSH
Total/NA	Analysis	9056A		1	120635	11/08/13 19:54	JHS	TAL NSH
Total/NA	Analysis	9056A		1	120636	11/08/13 19:54	JHS	TAL NSH
Total/NA	Prep	3010A			122101	11/15/13 06:10	NLI	TAL NSH
Total/NA	Analysis	6020A		1	123170	11/19/13 01:01	BWW	TAL NSH
Total/NA	Prep	7470A			123607	11/21/13 08:21	LTB	TAL NSH
Total/NA	Analysis	7470A		1	123730	11/21/13 11:08	LTB	TAL NSH
Dissolved	Filtration	Filtration			122938	11/19/13 08:50	NLI	TAL NSH
Dissolved	Prep	3005A			122964	11/19/13 09:34	NLI	TAL NSH
Dissolved	Analysis	6020A		1	123806	11/21/13 13:56	BWW	TAL NSH
Total/NA	Analysis	SM 4500 CO2 C		1	121148	11/09/13 12:02	BLM	TAL NSH
Total/NA	Prep	9030B			121656	11/13/13 13:50	SDJ	TAL NSH
Total/NA	Analysis	9034		1	122209	11/13/13 15:10	SDJ	TAL NSH
Dissolved	Filtration	Filtration			122384	11/15/13 10:00	CLJ	TAL NSH
Dissolved	Analysis	9060A		1	122516	11/15/13 16:31	JKF	TAL NSH
Total/NA	Analysis	9060A		1	123071	11/18/13 18:15	JKF	TAL NSH
Total/NA	Prep	9012B			123543	11/20/13 11:45	REM	TAL NSH
Total/NA	Analysis	9012B		1	123674	11/20/13 19:32	TEM	TAL NSH

Client Sample ID: Equipment Blank

Lab Sample ID: 490-39837-10

Date Collected: 11/07/13 14:00
Matrix: Water
Date Received: 11/08/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1	120778	11/08/13 13:43	BLM	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39837-1

Method	Method Description	Protocol	Laboratory
8015C	Glycols- Direct Injection (GC/FID)	SW846	TAL NSH
RSK-175	Dissolved Gases (GC)	RSK	TAL NSH
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL NSH
9056A	Anions, Ion Chromatography	SW846	TAL NSH
6020A	Metals (ICP/MS)	SW846	TAL NSH
7470A	Mercury (CVAA)	SW846	TAL NSH
1010A	Ignitability,Pensky-Martens Closed Cup Method	SW846	TAL NSH
7196A	Chromium, Hexavalent	SW846	TAL NSH
9012B	Cyanide, Total andor Amenable	SW846	TAL NSH
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL NSH
9040C	pH	SW846	TAL NSH
9060A	Organic Carbon, Dissolved (DOC)	SW846	TAL NSH
9060A	Organic Carbon, Total (TOC)	SW846	TAL NSH
SM 4500 CO2 C	Free Carbon Dioxide	SM	TAL NSH

Protocol References:

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39837-1

Laboratory: TestAmerica Nashville

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alaska (UST)	State Program	10	UST-087	07-24-14
Arizona	State Program	9	AZ0473	05-05-14
Arizona	State Program	9	AZ0473	05-05-14 *
Arkansas DEQ	State Program	6	88-0737	04-25-14
California	NELAP	9	1168CA	10-31-14
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-14
Illinois	NELAP	5	200010	12-09-14
Iowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-14
Kentucky (UST)	State Program	4	19	06-30-14
Louisiana	NELAP	6	30613	06-30-14
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	1	M-TN032	06-30-14
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-14
Montana (UST)	State Program	8	NA	01-01-20
Nevada	State Program	9	TN00032	07-31-14
New Hampshire	NELAP	1	2963	10-10-14
New Jersey	NELAP	2	TN965	06-30-14
New York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-13
North Dakota	State Program	8	R-146	06-30-14
Ohio VAP	State Program	5	CL0033	10-16-15
Oklahoma	State Program	6	9412	08-31-14
Oregon	NELAP	10	TN200001	04-29-14
Pennsylvania	NELAP	3	68-00585	06-30-14
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	02-28-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-14
USDA	Federal		S-48469	10-30-16
Utah	NELAP	8	TN00032	07-31-14
Virginia	NELAP	3	460152	06-14-14
Washington	State Program	10	C789	07-19-14
West Virginia DEP	State Program	3	219	02-28-14
Wisconsin	State Program	5	998020430	08-31-14
Wyoming (UST)	A2LA	8	453.07	12-31-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-39837 Chain of Custody

Cooler Received/Opened On 11/8/2013@ 0815

1. Tracking # 1672 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 96210146

2. Temperature of rep. sample or temp blank when opened: 2.1 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: Two front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) DA

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 1

I certify that I unloaded the cooler and answered questions 7-14 (intial) DA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) DA

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) DA

I certify that I attached a label with the unique LIMS number to each container (intial) DA

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# 90107, 90108

*Sample-0-7 has a pH of 5.

*Sample-0-9 has a pH of 5.

BIS = Broken in shipment

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Loc: 490
39837

Cooler Received/Opened On 11/8/2013 @ 0815

1. Tracking # 1661 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 17960358

2. Temperature of rep. sample or temp blank when opened: 2.1 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? (YES)...NO...NA

If yes, how many and where: 2 Front

5. Were the seals intact, signed, and dated correctly? (YES)...NO...NA

6. Were custody papers inside cooler? YES...(NO)...NA

I certify that I opened the cooler and answered questions 1-6 (intial) ELA

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) (Plastic bag) Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? (YES)...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...(NO)...NA

14. Was there a Trip Blank in this cooler? YES...(NO)...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) DA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? (YES)...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used (YES)...NO...NA

16. Was residual chlorine present? YES...(NO)...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) DA

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) DA

I certify that I attached a label with the unique LIMS number to each container (intial) DA

21. Were there Non-Conformance issues at login? (YES)...NO Was a NCM generated? (YES)...NO...# 90107, 90108

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

Loc: 490
39837

COOLER RECEIPT FORM

Cooler Received/Opened On 11/8/2013 @ 0815

1. Tracking # 1650 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 17960358

2. Temperature of rep. sample or temp blank when opened: 3.4 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO..(NA)

4. Were custody seals on outside of cooler? (YES)...NO...NA

If yes, how many and where: 2 front

5. Were the seals intact, signed, and dated correctly? (YES)..NO...NA

6. Were custody papers inside cooler? YES...(NO)..NA

I certify that I opened the cooler and answered questions 1-6 (intial) ELA

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO..(NA)

8. Packing mat'l used? (Bubblewrap) (Plastic bag) Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)..NO...NA

13a. Were VOA vials received? (YES)..NO...NA

b. Was there any observable headspace present in any VOA vial? YES..(NO)..NA

14. Was there a Trip Blank in this cooler? (YES)...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) DA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? (YES)..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used (YES)..NO...NA

16. Was residual chlorine present? YES..(NO)..NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) DA

17. Were custody papers properly filled out (ink, signed, etc)? (YES)..NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)..NO...NA

19. Were correct containers used for the analysis requested? (YES)..NO...NA

20. Was sufficient amount of sample sent in each container? (YES)..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) DA

I certify that I attached a label with the unique LIMS number to each container (intial) DA

21. Were there Non-Conformance issues at login? (YES)..NO Was a NCM generated? (YES)..NO...# 90107, 90108

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 11/28/12

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Loc: 490
39837

Chain of Custody Record

3 coolers

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: John Knightly	Lab PM: Connor, Roxanne	Carrier Tracking No(s): 5712-0302-1650, 5712-0302-1661, 5712-0302-1677	COC No: 490-16687-6964.1
Client Contact: Mariruth Gruis	Phone: 913-522-0370	E-Mail: roxanne.connor@testamericainc.com		Page: Page 1 of 7 — 1 of 2
Company: Haley & Aldrich, Inc.				Job #:
Address: 11020 King Street Suite 450	Due Date Requested:			
City: Overland Park	TAT Requested (days):			
State, Zip: KS, 66210				
Phone: 913-636-3497(Tel)	PO #: Purchase Order Requested			
Email: mgruis@haleyaldrich.com	WO #:			
Project Name: Leeds Facility	Project #: 49003847			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B TCL	8270C TCL Semivolatiles List	Cr+6, SO4, Cl, NO3, NO2, CO2	6020A TCL metals + 7470A Hg	RSK_175 - Methane, Ethane, Ethylene	90060A TOC and DOC	9034 - Sulfide	9012B - Cyanide, Total	8015C_DAI_GLY - Ethylene Glycol	8082A - Standard PCBs (1016-1260)	1010A Flashpoint and 9040C pH	6020A Diss Mn (lab filtered)	6020A Fe & Mn	Total Number of containers	Special Instructions/Note:
				Preservation Code:																		
1	MW-03A-GW-001	11/7/13	0935	G	Water			X														
2	MW-03B-GW-001	11/7/13	1319	G	Water			X	X	X	X	X	X	X	X	X	X	X	X	X		
3	MW-03B-GW-001	11/7/13	1404	G	Water					X												Cr+06
4	MW-03B-GW-002	11/7/13	1319	G	Water			X	X	X	X	X	X	X	X	X	X		X	X		
5	MW-03B-GW-002	11/7/13	1404	G	Water					X												Cr+06
6	MW-05-GW-001	11/7/13	1617	G	Water			X	X	X	X	X	X	X	X	X	X		X	X		Cr+06
2	MS/MSD-GW-001	11/7/13	1319	G	Water			X	X	X	X	X	X	X	X	X	X		X	X		From MW-03B
3	MS/MSD-GW-001	11/7/13	1404	G	Water					X												Cr+06
7	Field Blank	11/7/13	0956	G	Water			X	X	X	X	X	X	X	X	X	X		X	X		
8	Field Blank	11/7/13	1400	G	Water					X												Cr+06
9	Equipment Blank	11/7/13	1038	G	Water			X	X	X	X	X	X	X	X	X	X		X	X		

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		11/7/13 1900			11-8-13 0815	TAN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.1, 2.1, 3.4

DA 11-8-13

11/22/2013

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Loc: 490
39837

Chain of Custody Record

3 coolers

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

11/22/2013

Client Information	Sampler: John Knightly	Lab PM: Connor, Roxanne	Carrier Tracking No(s): 5712-0302-1650, 5712-0302-1661, 5712-0302-1672	COC No: 490-16687-6964.1
Client Contact: Mariruth Gruis	Phone: 913-522-0370	E-Mail: roxanne.connor@testamericainc.com		Page: Page 1 of 7 2 of 2
Company: Haley & Aldrich, Inc.				Job #:
Address: 11020 King Street Suite 450	Due Date Requested:			
City: Overland Park	TAT Requested (days):			
State, Zip: KS, 66210				
Phone: 913-636-3497(Tel)	PO #: Purchase Order Requested			
Email: mgruis@haleyaldrich.com	WO #:			
Project Name: Leeds Facility	Project #: 49003847			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B TCL	8270C TCL Semivolatiles List	Cr+6, SO4, Cl, NO3, NO2, CO2	6020A TCL metals + 7470A Hg	RSK_176 - Methane, Ethane, Ethylene	9060A TOC and DOC	9034 - Sulfide	9012B - Cyanide, Total	8015C_DAI_GLY - Ethylene Glycol	8082A - Standard PCBs (1016-1260)	1010A Flashpoint and 9040C pH	6020A Diss Mn (lab filtered)	6020A Fe & Mn	Total Number of containers	Special Instructions/Note:
			Preservation Code:																	
10+2 Equipment Blank	11/7/13	1400	G	Water					X											Cr+06
T				Water																
11+3 Trip Blank	—	—	—	Water			X													
				Water																
				Water																
				Water																
DA 11-8-13				Water																
				Water																
				Water																
				Water																
				Water																
				Water																

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	John Knightly ~~11/7/13~~	11/7/13 1900			11-8-13 0815	TAN
2						
3						

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.1, 2.1, 3.4

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 490-39837-1

Login Number: 39837

List Source: TestAmerica Nashville

List Number: 1

Creator: Armstrong, Daniel

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1C, 2.1C, 3.4C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	False	Refer to Job Narrative for details.
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

ANALYTICAL REPORT

Job Number: 490-39686-2

Job Description: Former Leeds Assembly Plant

For:
Haley & Aldrich, Inc.
11020 King Street
Suite 450
Overland Park, KS 66210

Attention: Mariruth Gruis

Approved for release.
Roxanne Connor
Senior Project Manager
11/21/2013 11:23 AM

Roxanne Connor, Senior Project Manager
2960 Foster Creighton Drive, Nashville, TN, 37204
(615)301-5761
roxanne.connor@testamericainc.com
11/21/2013

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CASE NARRATIVE

Client: Haley & Aldrich, Inc.

Project: Former Leeds Assembly Plant

Report Number: 490-39686-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Nashville attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 11/7/2013 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.9º C and 3.1º C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-04B-GW-001 (490-39686-1), MW-04B-GW-002 (490-39686-2), MW-08-GW-001 (490-39686-3), MW-09-GW-001 (490-39686-5) and Trip Blank (490-39686-7) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 11/16/2013 and 11/17/2013.

Chloroform was detected in method blank MB 490-122545/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the VOCs analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-04B-GW-001 (490-39686-1), MW-04B-GW-002 (490-39686-2), MW-08-GW-001 (490-39686-3) and MW-09-GW-001 (490-39686-5) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared and analyzed on 11/12/2013.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

Benzaldehyde failed the recovery criteria high for LCS 490-121117/2-A. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 121117.

No other difficulties were encountered during the SVOCs analysis.

All other quality control parameters were within the acceptance limits.

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Instrument ID: HP34 Analysis Batch Number: 101606

Lab Sample ID: STD0005 490-101606/2 IC Client Sample ID:

Date Analyzed: 08/21/13 12:03 Lab File ID: 08211308.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.01	Split Peak	redmondj	08/22/13 09:30
Ethanol	2.33	Split Peak	redmondj	08/22/13 09:30
Acetonitrile	2.77	Split Peak	redmondj	08/22/13 09:30
tert-Butyl alcohol (TBA)	2.91	Split Peak	redmondj	08/22/13 09:30
cis-1,2-Dichloroethene	3.67	Split Peak	redmondj	08/22/13 09:30
1,3,5-Trichlorobenzene	10.50	Split Peak	redmondj	08/22/13 09:30

Lab Sample ID: STD001 490-101606/3 IC Client Sample ID:

Date Analyzed: 08/21/13 12:30 Lab File ID: 08211309.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.35	Split Peak	redmondj	08/22/13 09:34
Acrolein	2.50	Split Peak	redmondj	08/22/13 09:34
Acetone	2.61	Split Peak	redmondj	08/22/13 09:34
trans-1,4-Dichloro-2-butene	8.08	Split Peak	redmondj	08/22/13 09:32

Lab Sample ID: STD002 490-101606/4 IC Client Sample ID:

Date Analyzed: 08/21/13 12:57 Lab File ID: 08211310.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
tert-Butyl alcohol (TBA)	2.91	Split Peak	redmondj	08/22/13 09:37
n-Butanol	4.61	Split Peak	redmondj	08/22/13 09:37
Dibromomethane	4.96	Split Peak	redmondj	08/22/13 09:37
Cyclohexanone	7.88	Split Peak	redmondj	08/22/13 09:37
1,2-Dibromo-3-Chloropropane	10.26	Split Peak	redmondj	08/22/13 09:37
1-Methylnaphthalene	12.74	Split Peak	redmondj	08/22/13 09:37

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Instrument ID: HP83 Analysis Batch Number: 116774

Lab Sample ID: STD2 490-116774/4 IC Client Sample ID:

Date Analyzed: 10/24/13 14:14 Lab File ID: 1022004.D GC Column: ZB-5MSi ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	4.46	Poor chromatography	salomonb	10/24/13 16:25

Lab Sample ID: ICIS 490-116774/6 Client Sample ID:

Date Analyzed: 10/24/13 14:59 Lab File ID: 1022006.D GC Column: ZB-5MSi ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Caprolactam	4.87	Poor chromatography	salomonb	10/24/13 16:23

Lab Sample ID: STD5 490-116774/7 IC Client Sample ID:

Date Analyzed: 10/24/13 15:21 Lab File ID: 1022007.D GC Column: ZB-5MSi ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Caprolactam	4.88	Poor chromatography	salomonb	10/24/13 16:24

Lab Sample ID: STD6 490-116774/8 IC Client Sample ID:

Date Analyzed: 10/24/13 15:44 Lab File ID: 1022008.D GC Column: ZB-5MSi ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	4.50	Poor chromatography	salomonb	10/24/13 16:26
Caprolactam	4.89	Poor chromatography	salomonb	10/24/13 16:24

SAMPLE SUMMARY

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
490-39686-1	MW-04B-GW-001	Water	11/06/2013 1542	11/07/2013 0830
490-39686-2	MW-04B-GW-002	Water	11/06/2013 1542	11/07/2013 0830
490-39686-3	MW-08-GW-001	Water	11/06/2013 1108	11/07/2013 0830
490-39686-5	MW-09-GW-001	Water	11/06/2013 1326	11/07/2013 0830
490-39686-7TB	Trip Blank	Water	11/06/2013 0001	11/07/2013 0830

EXECUTIVE SUMMARY - Detections

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-39686-1	**MW-04B-GW-001**					
cis-1,2-Dichloroethene		0.942	J	1.00	ug/L	8260B
Vinyl chloride		18.5		1.00	ug/L	8260B
490-39686-2	**MW-04B-GW-002**					
cis-1,2-Dichloroethene		0.804	J	1.00	ug/L	8260B
Vinyl chloride		14.1		1.00	ug/L	8260B
Bis(2-ethylhexyl) phthalate		14.1		9.43	ug/L	8270C
490-39686-3	**MW-08-GW-001**					
Bis(2-ethylhexyl) phthalate		3.96	J	9.43	ug/L	8270C
Caprolactam		6.38	J	9.43	ug/L	8270C
490-39686-7TB	**TRIP BLANK**					
Methylene Chloride		0.478	J	5.00	ug/L	8260B

METHOD SUMMARY

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL NSH	SW846 8260B	
Purge and Trap	TAL NSH		SW846 5030B
Semivolatile Organic Compounds (GC/MS)	TAL NSH	SW846 8270C	
Liquid-Liquid Extraction (Separatory Funnel)	TAL NSH		SW846 3510C

Lab References:

TAL NSH = TestAmerica Nashville

Method References:

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

METHOD / ANALYST SUMMARY

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Method	Analyst	Analyst ID
SW846 8260B	Redmond, Jamilla	JJR
SW846 8270C	Salomon, Bret	BES

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Client Sample ID: **MW-04B-GW-001**

Lab Sample ID: 490-39686-1 Date Sampled: 11/06/2013 1542
Client Matrix: Water Date Received: 11/07/2013 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-122545	Instrument ID:	HP34
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	11161322.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2013 2243			Final Weight/Volume:	5 mL
Prep Date:	11/16/2013 2243				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND		0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	0.942	J	0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND		2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00
1,1,2-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Client Sample ID: **MW-04B-GW-001**

Lab Sample ID: 490-39686-1 Date Sampled: 11/06/2013 1542
Client Matrix: Water Date Received: 11/07/2013 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-122545	Instrument ID:	HP34
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	11161322.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2013 2243			Final Weight/Volume:	5 mL
Prep Date:	11/16/2013 2243				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	ND		0.200	1.00
Trichlorofluoromethane	ND		0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	18.5		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	109		70 - 130
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
Toluene-d8 (Surr)	92		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Client Sample ID: **MW-04B-GW-002**

Lab Sample ID: 490-39686-2 Date Sampled: 11/06/2013 1542
Client Matrix: Water Date Received: 11/07/2013 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-122545	Instrument ID:	HP34
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	11161323.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2013 2309			Final Weight/Volume:	5 mL
Prep Date:	11/16/2013 2309				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND		0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	0.804	J	0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND		2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00
1,1,2-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Client Sample ID: **MW-04B-GW-002**

Lab Sample ID: 490-39686-2 Date Sampled: 11/06/2013 1542
Client Matrix: Water Date Received: 11/07/2013 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-122545	Instrument ID:	HP34
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	11161323.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2013 2309			Final Weight/Volume:	5 mL
Prep Date:	11/16/2013 2309				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	ND		0.200	1.00
Trichlorofluoromethane	ND		0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	14.1		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	110		70 - 130
1,2-Dichloroethane-d4 (Surr)	92		70 - 130
Toluene-d8 (Surr)	95		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Client Sample ID: **MW-08-GW-001**

Lab Sample ID: 490-39686-3 Date Sampled: 11/06/2013 1108
Client Matrix: Water Date Received: 11/07/2013 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-122545	Instrument ID:	HP34
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	11161324.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2013 2336			Final Weight/Volume:	5 mL
Prep Date:	11/16/2013 2336				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND		0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	ND		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND		2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00
1,1,2-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Client Sample ID: **MW-08-GW-001**

Lab Sample ID: 490-39686-3 Date Sampled: 11/06/2013 1108
Client Matrix: Water Date Received: 11/07/2013 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-122545	Instrument ID:	HP34
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	11161324.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2013 2336			Final Weight/Volume:	5 mL
Prep Date:	11/16/2013 2336				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	ND		0.200	1.00
Trichlorofluoromethane	ND		0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	ND		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
Dibromofluoromethane (Surr)	110		70 - 130
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
Toluene-d8 (Surr)	94		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Client Sample ID: **MW-09-GW-001**

Lab Sample ID: 490-39686-5 Date Sampled: 11/06/2013 1326
Client Matrix: Water Date Received: 11/07/2013 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-122545	Instrument ID:	HP34
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	11161325.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/17/2013 0003			Final Weight/Volume:	5 mL
Prep Date:	11/17/2013 0003				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND		0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	ND		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND		2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00
1,1,2-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Client Sample ID: **MW-09-GW-001**

Lab Sample ID: 490-39686-5 Date Sampled: 11/06/2013 1326
Client Matrix: Water Date Received: 11/07/2013 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-122545	Instrument ID:	HP34
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	11161325.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/17/2013 0003			Final Weight/Volume:	5 mL
Prep Date:	11/17/2013 0003				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	ND		0.200	1.00
Trichlorofluoromethane	ND		0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	ND		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	108		70 - 130
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
Toluene-d8 (Surr)	91		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Client Sample ID: **Trip Blank**

Lab Sample ID: 490-39686-7TB
Client Matrix: Water

Date Sampled: 11/06/2013 0001
Date Received: 11/07/2013 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-122545	Instrument ID:	HP34
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	11161317.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2013 2028			Final Weight/Volume:	5 mL
Prep Date:	11/16/2013 2028				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND		0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	ND		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	0.478	J	0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND		2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00
1,1,2-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Client Sample ID: **Trip Blank**

Lab Sample ID: 490-39686-7TB Date Sampled: 11/06/2013 0001
Client Matrix: Water Date Received: 11/07/2013 0830

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-122545	Instrument ID:	HP34
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	11161317.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2013 2028			Final Weight/Volume:	5 mL
Prep Date:	11/16/2013 2028				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	ND		0.200	1.00
Trichlorofluoromethane	ND		0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	ND		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	107		70 - 130
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
Toluene-d8 (Surr)	92		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Client Sample ID: **MW-04B-GW-001**

Lab Sample ID: 490-39686-1 Date Sampled: 11/06/2013 1542
Client Matrix: Water Date Received: 11/07/2013 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	490-121257	Instrument ID:	HP83
Prep Method:	3510C	Prep Batch:	490-121117	Lab File ID:	1112010.D
Dilution:	1.0			Initial Weight/Volume:	1060 mL
Analysis Date:	11/12/2013 2025			Final Weight/Volume:	1 mL
Prep Date:	11/12/2013 0720			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.345	1.89
Acenaphthylene	ND		0.311	1.89
Acetophenone	ND		1.79	9.43
Anthracene	ND		0.833	1.89
Atrazine	ND		3.49	9.43
Benzaldehyde	ND	*	2.03	9.43
Benzo[a]anthracene	ND		0.306	1.89
Benzo[a]pyrene	ND		0.311	1.89
Benzo[b]fluoranthene	ND		0.398	1.89
Benzo[g,h,i]perylene	ND		0.271	1.89
Benzo[k]fluoranthene	ND		0.343	1.89
Biphenyl	ND		3.14	9.43
Bis(2-chloroethoxy)methane	ND		1.28	9.43
Bis(2-chloroethyl)ether	ND		1.31	9.43
bis (2-chloroisopropyl) ether	ND		1.85	9.43
Bis(2-ethylhexyl) phthalate	ND		1.94	9.43
4-Bromophenyl phenyl ether	ND		1.29	9.43
Butyl benzyl phthalate	ND		1.64	9.43
Caprolactam	ND		3.14	9.43
Carbazole	ND		0.282	9.43
4-Chloroaniline	ND		1.10	9.43
4-Chloro-3-methylphenol	ND		3.14	9.43
2-Chloronaphthalene	ND		1.55	9.43
2-Chlorophenol	ND		1.50	9.43
4-Chlorophenyl phenyl ether	ND		1.65	9.43
Chrysene	ND		1.03	1.89
Dibenz(a,h)anthracene	ND		0.608	1.89
Dibenzofuran	ND		0.320	9.43
3,3'-Dichlorobenzidine	ND		1.43	9.43
2,4-Dichlorophenol	ND		0.962	9.43
Diethyl phthalate	ND		1.53	9.43
2,4-Dimethylphenol	ND		0.940	9.43
Dimethyl phthalate	ND		1.71	9.43
Di-n-butyl phthalate	ND		1.42	9.43
4,6-Dinitro-2-methylphenol	ND		1.95	23.6
2,4-Dinitrophenol	ND		2.32	23.6
2,4-Dinitrotoluene	ND		3.14	9.43
2,6-Dinitrotoluene	ND		1.83	9.43
Di-n-octyl phthalate	ND		2.18	9.43
Fluoranthene	ND		0.327	1.89
Fluorene	ND		0.298	1.89
Hexachlorobenzene	ND		1.59	9.43
Hexachlorobutadiene	ND		3.14	9.43
Hexachlorocyclopentadiene	ND		3.14	9.43
Hexachloroethane	ND		3.14	9.43
Indeno[1,2,3-cd]pyrene	ND		0.359	1.89

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Client Sample ID: **MW-04B-GW-001**

Lab Sample ID: 490-39686-1 Date Sampled: 11/06/2013 1542
Client Matrix: Water Date Received: 11/07/2013 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	490-121257	Instrument ID:	HP83
Prep Method:	3510C	Prep Batch:	490-121117	Lab File ID:	1112010.D
Dilution:	1.0			Initial Weight/Volume:	1060 mL
Analysis Date:	11/12/2013 2025			Final Weight/Volume:	1 mL
Prep Date:	11/12/2013 0720			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isophorone	ND		1.17	9.43
2-Methylnaphthalene	ND		0.293	1.89
2-Methylphenol	ND		3.14	9.43
3 & 4 Methylphenol	ND		3.14	9.43
Naphthalene	ND		0.375	1.89
2-Nitroaniline	ND		0.981	23.6
3-Nitroaniline	ND		1.75	23.6
4-Nitroaniline	ND		2.25	23.6
Nitrobenzene	ND		1.17	9.43
2-Nitrophenol	ND		1.48	9.43
4-Nitrophenol	ND		3.14	23.6
N-Nitrosodi-n-propylamine	ND		1.34	9.43
n-Nitrosodiphenylamine(as diphenylamine)	ND		1.36	9.43
Pentachlorophenol	ND		1.56	23.6
Phenanthrene	ND		0.324	1.89
Phenol	ND		3.25	9.43
Pyrene	ND		0.312	1.89
2,4,5-Trichlorophenol	ND		1.92	23.6
2,4,6-Trichlorophenol	ND		1.66	9.43

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	77		29 - 120
2-Fluorophenol (Surr)	36		10 - 120
Nitrobenzene-d5 (Surr)	79		27 - 120
Phenol-d5 (Surr)	21		10 - 120
Terphenyl-d14 (Surr)	63		13 - 120
2,4,6-Tribromophenol (Surr)	91		10 - 120

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Client Sample ID: **MW-04B-GW-002**

Lab Sample ID: 490-39686-2 Date Sampled: 11/06/2013 1542
Client Matrix: Water Date Received: 11/07/2013 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	490-121257	Instrument ID:	HP83
Prep Method:	3510C	Prep Batch:	490-121117	Lab File ID:	1112011.D
Dilution:	1.0			Initial Weight/Volume:	1060 mL
Analysis Date:	11/12/2013 2047			Final Weight/Volume:	1 mL
Prep Date:	11/12/2013 0720			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.345	1.89
Acenaphthylene	ND		0.311	1.89
Acetophenone	ND		1.79	9.43
Anthracene	ND		0.833	1.89
Atrazine	ND		3.49	9.43
Benzaldehyde	ND	*	2.03	9.43
Benzo[a]anthracene	ND		0.306	1.89
Benzo[a]pyrene	ND		0.311	1.89
Benzo[b]fluoranthene	ND		0.398	1.89
Benzo[g,h,i]perylene	ND		0.271	1.89
Benzo[k]fluoranthene	ND		0.343	1.89
Biphenyl	ND		3.14	9.43
Bis(2-chloroethoxy)methane	ND		1.28	9.43
Bis(2-chloroethyl)ether	ND		1.31	9.43
bis (2-chloroisopropyl) ether	ND		1.85	9.43
Bis(2-ethylhexyl) phthalate	14.1		1.94	9.43
4-Bromophenyl phenyl ether	ND		1.29	9.43
Butyl benzyl phthalate	ND		1.64	9.43
Caprolactam	ND		3.14	9.43
Carbazole	ND		0.282	9.43
4-Chloroaniline	ND		1.10	9.43
4-Chloro-3-methylphenol	ND		3.14	9.43
2-Chloronaphthalene	ND		1.55	9.43
2-Chlorophenol	ND		1.50	9.43
4-Chlorophenyl phenyl ether	ND		1.65	9.43
Chrysene	ND		1.03	1.89
Dibenz(a,h)anthracene	ND		0.608	1.89
Dibenzofuran	ND		0.320	9.43
3,3'-Dichlorobenzidine	ND		1.43	9.43
2,4-Dichlorophenol	ND		0.962	9.43
Diethyl phthalate	ND		1.53	9.43
2,4-Dimethylphenol	ND		0.940	9.43
Dimethyl phthalate	ND		1.71	9.43
Di-n-butyl phthalate	ND		1.42	9.43
4,6-Dinitro-2-methylphenol	ND		1.95	23.6
2,4-Dinitrophenol	ND		2.32	23.6
2,4-Dinitrotoluene	ND		3.14	9.43
2,6-Dinitrotoluene	ND		1.83	9.43
Di-n-octyl phthalate	ND		2.18	9.43
Fluoranthene	ND		0.327	1.89
Fluorene	ND		0.298	1.89
Hexachlorobenzene	ND		1.59	9.43
Hexachlorobutadiene	ND		3.14	9.43
Hexachlorocyclopentadiene	ND		3.14	9.43
Hexachloroethane	ND		3.14	9.43
Indeno[1,2,3-cd]pyrene	ND		0.359	1.89

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Client Sample ID: **MW-04B-GW-002**

Lab Sample ID: 490-39686-2 Date Sampled: 11/06/2013 1542
Client Matrix: Water Date Received: 11/07/2013 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	490-121257	Instrument ID:	HP83
Prep Method:	3510C	Prep Batch:	490-121117	Lab File ID:	1112011.D
Dilution:	1.0			Initial Weight/Volume:	1060 mL
Analysis Date:	11/12/2013 2047			Final Weight/Volume:	1 mL
Prep Date:	11/12/2013 0720			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isophorone	ND		1.17	9.43
2-Methylnaphthalene	ND		0.293	1.89
2-Methylphenol	ND		3.14	9.43
3 & 4 Methylphenol	ND		3.14	9.43
Naphthalene	ND		0.375	1.89
2-Nitroaniline	ND		0.981	23.6
3-Nitroaniline	ND		1.75	23.6
4-Nitroaniline	ND		2.25	23.6
Nitrobenzene	ND		1.17	9.43
2-Nitrophenol	ND		1.48	9.43
4-Nitrophenol	ND		3.14	23.6
N-Nitrosodi-n-propylamine	ND		1.34	9.43
n-Nitrosodiphenylamine(as diphenylamine)	ND		1.36	9.43
Pentachlorophenol	ND		1.56	23.6
Phenanthrene	ND		0.324	1.89
Phenol	ND		3.25	9.43
Pyrene	ND		0.312	1.89
2,4,5-Trichlorophenol	ND		1.92	23.6
2,4,6-Trichlorophenol	ND		1.66	9.43

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	78		29 - 120
2-Fluorophenol (Surr)	40		10 - 120
Nitrobenzene-d5 (Surr)	81		27 - 120
Phenol-d5 (Surr)	23		10 - 120
Terphenyl-d14 (Surr)	57		13 - 120
2,4,6-Tribromophenol (Surr)	89		10 - 120

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Client Sample ID: **MW-08-GW-001**

Lab Sample ID: 490-39686-3 Date Sampled: 11/06/2013 1108
Client Matrix: Water Date Received: 11/07/2013 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	490-121257	Instrument ID:	HP83
Prep Method:	3510C	Prep Batch:	490-121117	Lab File ID:	1112012.D
Dilution:	1.0			Initial Weight/Volume:	1060 mL
Analysis Date:	11/12/2013 2110			Final Weight/Volume:	1 mL
Prep Date:	11/12/2013 0720			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.345	1.89
Acenaphthylene	ND		0.311	1.89
Acetophenone	ND		1.79	9.43
Anthracene	ND		0.833	1.89
Atrazine	ND		3.49	9.43
Benzaldehyde	ND	*	2.03	9.43
Benzo[a]anthracene	ND		0.306	1.89
Benzo[a]pyrene	ND		0.311	1.89
Benzo[b]fluoranthene	ND		0.398	1.89
Benzo[g,h,i]perylene	ND		0.271	1.89
Benzo[k]fluoranthene	ND		0.343	1.89
Biphenyl	ND		3.14	9.43
Bis(2-chloroethoxy)methane	ND		1.28	9.43
Bis(2-chloroethyl)ether	ND		1.31	9.43
bis (2-chloroisopropyl) ether	ND		1.85	9.43
Bis(2-ethylhexyl) phthalate	3.96	J	1.94	9.43
4-Bromophenyl phenyl ether	ND		1.29	9.43
Butyl benzyl phthalate	ND		1.64	9.43
Caprolactam	6.38	J	3.14	9.43
Carbazole	ND		0.282	9.43
4-Chloroaniline	ND		1.10	9.43
4-Chloro-3-methylphenol	ND		3.14	9.43
2-Chloronaphthalene	ND		1.55	9.43
2-Chlorophenol	ND		1.50	9.43
4-Chlorophenyl phenyl ether	ND		1.65	9.43
Chrysene	ND		1.03	1.89
Dibenz(a,h)anthracene	ND		0.608	1.89
Dibenzofuran	ND		0.320	9.43
3,3'-Dichlorobenzidine	ND		1.43	9.43
2,4-Dichlorophenol	ND		0.962	9.43
Diethyl phthalate	ND		1.53	9.43
2,4-Dimethylphenol	ND		0.940	9.43
Dimethyl phthalate	ND		1.71	9.43
Di-n-butyl phthalate	ND		1.42	9.43
4,6-Dinitro-2-methylphenol	ND		1.95	23.6
2,4-Dinitrophenol	ND		2.32	23.6
2,4-Dinitrotoluene	ND		3.14	9.43
2,6-Dinitrotoluene	ND		1.83	9.43
Di-n-octyl phthalate	ND		2.18	9.43
Fluoranthene	ND		0.327	1.89
Fluorene	ND		0.298	1.89
Hexachlorobenzene	ND		1.59	9.43
Hexachlorobutadiene	ND		3.14	9.43
Hexachlorocyclopentadiene	ND		3.14	9.43
Hexachloroethane	ND		3.14	9.43
Indeno[1,2,3-cd]pyrene	ND		0.359	1.89

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Client Sample ID: **MW-08-GW-001**

Lab Sample ID: 490-39686-3 Date Sampled: 11/06/2013 1108
Client Matrix: Water Date Received: 11/07/2013 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	490-121257	Instrument ID:	HP83
Prep Method:	3510C	Prep Batch:	490-121117	Lab File ID:	1112012.D
Dilution:	1.0			Initial Weight/Volume:	1060 mL
Analysis Date:	11/12/2013 2110			Final Weight/Volume:	1 mL
Prep Date:	11/12/2013 0720			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isophorone	ND		1.17	9.43
2-Methylnaphthalene	ND		0.293	1.89
2-Methylphenol	ND		3.14	9.43
3 & 4 Methylphenol	ND		3.14	9.43
Naphthalene	ND		0.375	1.89
2-Nitroaniline	ND		0.981	23.6
3-Nitroaniline	ND		1.75	23.6
4-Nitroaniline	ND		2.25	23.6
Nitrobenzene	ND		1.17	9.43
2-Nitrophenol	ND		1.48	9.43
4-Nitrophenol	ND		3.14	23.6
N-Nitrosodi-n-propylamine	ND		1.34	9.43
n-Nitrosodiphenylamine(as diphenylamine)	ND		1.36	9.43
Pentachlorophenol	ND		1.56	23.6
Phenanthrene	ND		0.324	1.89
Phenol	ND		3.25	9.43
Pyrene	ND		0.312	1.89
2,4,5-Trichlorophenol	ND		1.92	23.6
2,4,6-Trichlorophenol	ND		1.66	9.43

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	73		29 - 120
2-Fluorophenol (Surr)	33		10 - 120
Nitrobenzene-d5 (Surr)	69		27 - 120
Phenol-d5 (Surr)	20		10 - 120
Terphenyl-d14 (Surr)	57		13 - 120
2,4,6-Tribromophenol (Surr)	85		10 - 120

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Client Sample ID: **MW-09-GW-001**

Lab Sample ID: 490-39686-5 Date Sampled: 11/06/2013 1326
Client Matrix: Water Date Received: 11/07/2013 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	490-121257	Instrument ID:	HP83
Prep Method:	3510C	Prep Batch:	490-121117	Lab File ID:	1112013.D
Dilution:	1.0			Initial Weight/Volume:	1060 mL
Analysis Date:	11/12/2013 2132			Final Weight/Volume:	1 mL
Prep Date:	11/12/2013 0720			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.345	1.89
Acenaphthylene	ND		0.311	1.89
Acetophenone	ND		1.79	9.43
Anthracene	ND		0.833	1.89
Atrazine	ND		3.49	9.43
Benzaldehyde	ND	*	2.03	9.43
Benzo[a]anthracene	ND		0.306	1.89
Benzo[a]pyrene	ND		0.311	1.89
Benzo[b]fluoranthene	ND		0.398	1.89
Benzo[g,h,i]perylene	ND		0.271	1.89
Benzo[k]fluoranthene	ND		0.343	1.89
Biphenyl	ND		3.14	9.43
Bis(2-chloroethoxy)methane	ND		1.28	9.43
Bis(2-chloroethyl)ether	ND		1.31	9.43
bis (2-chloroisopropyl) ether	ND		1.85	9.43
Bis(2-ethylhexyl) phthalate	ND		1.94	9.43
4-Bromophenyl phenyl ether	ND		1.29	9.43
Butyl benzyl phthalate	ND		1.64	9.43
Caprolactam	ND		3.14	9.43
Carbazole	ND		0.282	9.43
4-Chloroaniline	ND		1.10	9.43
4-Chloro-3-methylphenol	ND		3.14	9.43
2-Chloronaphthalene	ND		1.55	9.43
2-Chlorophenol	ND		1.50	9.43
4-Chlorophenyl phenyl ether	ND		1.65	9.43
Chrysene	ND		1.03	1.89
Dibenz(a,h)anthracene	ND		0.608	1.89
Dibenzofuran	ND		0.320	9.43
3,3'-Dichlorobenzidine	ND		1.43	9.43
2,4-Dichlorophenol	ND		0.962	9.43
Diethyl phthalate	ND		1.53	9.43
2,4-Dimethylphenol	ND		0.940	9.43
Dimethyl phthalate	ND		1.71	9.43
Di-n-butyl phthalate	ND		1.42	9.43
4,6-Dinitro-2-methylphenol	ND		1.95	23.6
2,4-Dinitrophenol	ND		2.32	23.6
2,4-Dinitrotoluene	ND		3.14	9.43
2,6-Dinitrotoluene	ND		1.83	9.43
Di-n-octyl phthalate	ND		2.18	9.43
Fluoranthene	ND		0.327	1.89
Fluorene	ND		0.298	1.89
Hexachlorobenzene	ND		1.59	9.43
Hexachlorobutadiene	ND		3.14	9.43
Hexachlorocyclopentadiene	ND		3.14	9.43
Hexachloroethane	ND		3.14	9.43
Indeno[1,2,3-cd]pyrene	ND		0.359	1.89

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Client Sample ID: **MW-09-GW-001**

Lab Sample ID: 490-39686-5 Date Sampled: 11/06/2013 1326
Client Matrix: Water Date Received: 11/07/2013 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	490-121257	Instrument ID:	HP83
Prep Method:	3510C	Prep Batch:	490-121117	Lab File ID:	1112013.D
Dilution:	1.0			Initial Weight/Volume:	1060 mL
Analysis Date:	11/12/2013 2132			Final Weight/Volume:	1 mL
Prep Date:	11/12/2013 0720			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isophorone	ND		1.17	9.43
2-Methylnaphthalene	ND		0.293	1.89
2-Methylphenol	ND		3.14	9.43
3 & 4 Methylphenol	ND		3.14	9.43
Naphthalene	ND		0.375	1.89
2-Nitroaniline	ND		0.981	23.6
3-Nitroaniline	ND		1.75	23.6
4-Nitroaniline	ND		2.25	23.6
Nitrobenzene	ND		1.17	9.43
2-Nitrophenol	ND		1.48	9.43
4-Nitrophenol	ND		3.14	23.6
N-Nitrosodi-n-propylamine	ND		1.34	9.43
n-Nitrosodiphenylamine(as diphenylamine)	ND		1.36	9.43
Pentachlorophenol	ND		1.56	23.6
Phenanthrene	ND		0.324	1.89
Phenol	ND		3.25	9.43
Pyrene	ND		0.312	1.89
2,4,5-Trichlorophenol	ND		1.92	23.6
2,4,6-Trichlorophenol	ND		1.66	9.43

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	87		29 - 120
2-Fluorophenol (Surr)	41		10 - 120
Nitrobenzene-d5 (Surr)	86		27 - 120
Phenol-d5 (Surr)	24		10 - 120
Terphenyl-d14 (Surr)	62		13 - 120
2,4,6-Tribromophenol (Surr)	98		10 - 120

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
490-39686-1	MW-04B-GW-001	109	96	92	96
490-39686-2	MW-04B-GW-002	110	92	95	98
490-39686-3	MW-08-GW-001	110	94	94	95
490-39686-5	MW-09-GW-001	108	94	91	97
490-39686-7	Trip Blank	107	96	92	100
MB 490-122545/5		106	93	92	94
LCS 490-122545/3		107	88	90	97
490-39934-B-3 MS		106	89	92	94
490-39934-C-3 MSD		103	87	95	98

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Surrogate Recovery Report

8270C Semivolatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	2FP %Rec	PHL %Rec	NBZ %Rec	FBP %Rec	TBP %Rec	TPH %Rec
490-39686-1	MW-04B-GW-001	36	21	79	77	91	63
490-39686-2	MW-04B-GW-002	40	23	81	78	89	57
490-39686-3	MW-08-GW-001	33	20	69	73	85	57
490-39686-5	MW-09-GW-001	41	24	86	87	98	62
MB 490-121117/1-A		10	18	66	62	16	81
LCS 490-121117/2-A		41	27	69	71	82	78

Surrogate	Acceptance Limits
2FP = 2-Fluorophenol (Surr)	10-120
PHL = Phenol-d5 (Surr)	10-120
NBZ = Nitrobenzene-d5 (Surr)	27-120
FBP = 2-Fluorobiphenyl (Surr)	29-120
TBP = 2,4,6-Tribromophenol (Surr)	10-120
TPH = Terphenyl-d14 (Surr)	13-120

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Method Blank - Batch: 490-122545

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-122545/5	Analysis Batch:	490-122545	Instrument ID:	HP34
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11161306.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2013 1533	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/16/2013 1533				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND		0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	0.2630	J	0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	ND		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND		2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Method Blank - Batch: 490-122545

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-122545/5	Analysis Batch:	490-122545	Instrument ID:	HP34
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11161306.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2013 1533	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/16/2013 1533				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,2-Trichloroethane	ND		0.190	1.00
Trichloroethene	ND		0.200	1.00
Trichlorofluoromethane	ND		0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	ND		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	94	70 - 130
Dibromofluoromethane (Surr)	106	70 - 130
1,2-Dichloroethane-d4 (Surr)	93	70 - 130
Toluene-d8 (Surr)	92	70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Lab Control Sample - Batch: 490-122545

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 490-122545/3	Analysis Batch:	490-122545	Instrument ID:	HP34
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11161304.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2013 1420	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/16/2013 1420				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	100	80.86	81	54 - 145	
Benzene	20.0	19.23	96	80 - 121	
Bromochloromethane	20.0	21.56	108	78 - 129	
Bromodichloromethane	20.0	22.26	111	75 - 129	
Bromoform	20.0	21.82	109	46 - 145	
Bromomethane	20.0	27.12	136	41 - 150	
2-Butanone (MEK)	100	87.08	87	62 - 133	
Carbon disulfide	20.0	18.61	93	77 - 126	
Carbon tetrachloride	20.0	21.78	109	64 - 147	
Chlorobenzene	20.0	18.51	93	80 - 120	
Chlorodibromomethane	20.0	19.43	97	69 - 133	
Chloroethane	20.0	19.74	99	72 - 120	
Chloroform	20.0	18.91	95	73 - 129	
Chloromethane	20.0	19.45	97	12 - 150	
cis-1,2-Dichloroethene	20.0	19.77	99	76 - 125	
cis-1,3-Dichloropropene	20.0	18.96	95	74 - 140	
Cyclohexane	20.0	17.61	88	73 - 122	
1,2-Dibromo-3-Chloropropane	20.0	22.26	111	54 - 125	
1,2-Dibromoethane (EDB)	20.0	18.38	92	80 - 129	
1,2-Dichlorobenzene	20.0	18.76	94	80 - 121	
1,3-Dichlorobenzene	20.0	18.30	91	80 - 122	
1,4-Dichlorobenzene	20.0	17.51	88	80 - 120	
Dichlorodifluoromethane	20.0	16.12	81	37 - 127	
1,1-Dichloroethane	20.0	18.48	92	78 - 125	
1,2-Dichloroethane	20.0	17.46	87	77 - 121	
1,1-Dichloroethene	20.0	18.51	93	79 - 124	
1,2-Dichloropropane	20.0	19.38	97	75 - 120	
Ethylbenzene	20.0	18.10	90	80 - 130	
2-Hexanone	100	76.59	77	60 - 142	
Isopropylbenzene	20.0	18.71	94	80 - 141	
Methyl acetate	100	67.07	67	64 - 150	
Methylcyclohexane	20.0	19.71	99	71 - 129	
Methylene Chloride	20.0	17.42	87	79 - 123	
4-Methyl-2-pentanone (MIBK)	100	84.43	84	60 - 137	
Methyl tert-butyl ether	20.0	26.11	131	72 - 133	
N-Propylbenzene	20.0	16.85	84	75 - 129	
Styrene	20.0	18.89	94	80 - 127	
1,1,2,2-Tetrachloroethane	20.0	16.30	81	69 - 131	
Tetrachloroethene	20.0	17.66	88	80 - 126	
Tetrahydrofuran	40.0	26.76	67	51 - 124	
Toluene	20.0	17.72	89	80 - 126	
trans-1,2-Dichloroethene	20.0	18.31	92	79 - 126	
trans-1,3-Dichloropropene	20.0	19.61	98	63 - 134	
1,2,4-Trichlorobenzene	20.0	20.47	102	63 - 133	
1,1,1-Trichloroethane	20.0	23.50	117	78 - 135	
1,1,2-Trichloroethane	20.0	17.61	88	80 - 124	

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Lab Control Sample - Batch: 490-122545

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 490-122545/3	Analysis Batch:	490-122545	Instrument ID:	HP34
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11161304.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/16/2013 1420	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/16/2013 1420				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Trichloroethene	20.0	21.04	105	80 - 123	
Trichlorofluoromethane	20.0	19.09	95	65 - 124	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	18.93	95	77 - 129	
Vinyl chloride	20.0	16.99	85	68 - 120	
Xylenes, Total	40.0	36.33	91	80 - 132	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	97	70 - 130
Dibromofluoromethane (Surr)	107	70 - 130
1,2-Dichloroethane-d4 (Surr)	88	70 - 130
Toluene-d8 (Surr)	90	70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-122545

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-39934-B-3 MS	Analysis Batch:	490-122545	Instrument ID:	HP34
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11161326.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/17/2013 0030			Final Weight/Volume:	5 mL
Prep Date:	11/17/2013 0030				
Leach Date:	N/A				

MSD Lab Sample ID:	490-39934-C-3 MSD	Analysis Batch:	490-122545	Instrument ID:	HP34
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11161327.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/17/2013 0057			Final Weight/Volume:	5 mL
Prep Date:	11/17/2013 0057				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	70	79	45 - 141	12	21		
Benzene	93	93	75 - 133	0	17		
Bromochloromethane	107	103	67 - 139	4	17		
Bromodichloromethane	113	112	70 - 140	1	18		
Bromoform	107	108	42 - 147	1	16		
Bromomethane	121	130	16 - 163	7	50		
2-Butanone (MEK)	84	87	50 - 138	4	19		
Carbon disulfide	93	94	48 - 152	1	21		
Carbon tetrachloride	122	123	62 - 164	0	19		
Chlorobenzene	92	93	80 - 129	0	14		
Chlorodibromomethane	102	104	66 - 140	2	15		
Chloroethane	95	94	58 - 137	2	20		
Chloroform	94	92	66 - 138	2	18		
Chloromethane	96	94	10 - 169	2	31		
cis-1,2-Dichloroethene	95	96	68 - 138	1	17		
cis-1,3-Dichloropropene	91	95	71 - 141	4	15		
Cyclohexane	90	92	58 - 144	2	16		
1,2-Dibromo-3-Chloropropane	98	105	52 - 126	8	24		
1,2-Dibromoethane (EDB)	90	93	75 - 137	3	15		
1,2-Dichlorobenzene	89	91	79 - 128	2	15		
1,3-Dichlorobenzene	87	90	77 - 131	4	15		
1,4-Dichlorobenzene	84	87	78 - 126	3	15		
Dichlorodifluoromethane	80	79	40 - 127	0	18		
1,1-Dichloroethane	91	91	71 - 139	0	17		
1,2-Dichloroethane	83	84	64 - 136	2	17		
1,1-Dichloroethene	99	97	70 - 142	2	17		
1,2-Dichloropropane	92	91	67 - 131	1	17		
Ethylbenzene	89	92	79 - 139	3	15		
2-Hexanone	71	74	50 - 150	5	15		
Isopropylbenzene	96	98	80 - 153	2	16		
Methyl acetate	57	58	30 - 165	1	31		
Methylcyclohexane	103	103	59 - 151	0	19		
Methylene Chloride	85	86	64 - 139	1	17		

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-122545

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-39934-B-3 MS	Analysis Batch:	490-122545	Instrument ID:	HP34
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11161326.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/17/2013 0030			Final Weight/Volume:	5 mL
Prep Date:	11/17/2013 0030				
Leach Date:	N/A				

MSD Lab Sample ID:	490-39934-C-3 MSD	Analysis Batch:	490-122545	Instrument ID:	HP34
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11161327.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/17/2013 0057			Final Weight/Volume:	5 mL
Prep Date:	11/17/2013 0057				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
4-Methyl-2-pentanone (MIBK)	80	84	50 - 147	4	17		
Methyl tert-butyl ether	110	114	66 - 141	4	16		
N-Propylbenzene	84	87	69 - 142	4	17		
Styrene	93	96	61 - 148	3	24		
1,1,2,2-Tetrachloroethane	77	80	56 - 143	4	20		
Tetrachloroethene	93	94	72 - 145	1	16		
Tetrahydrofuran	68	69	34 - 133	1	18		
Toluene	87	90	75 - 136	3	15		
trans-1,2-Dichloroethene	90	89	66 - 143	1	16		
trans-1,3-Dichloropropene	91	96	59 - 135	5	14		
1,2,4-Trichlorobenzene	110	124	60 - 136	12	19		
1,1,1-Trichloroethane	125	125	76 - 149	0	17		
1,1,2-Trichloroethane	84	86	74 - 134	2	15		
Trichloroethene	108	108	73 - 144	0	17		
Trichlorofluoromethane	107	99	58 - 139	8	18		
1,1,2-Trichloro-1,2,2-trichfluoroethane	97	98	72 - 148	0	18		
Vinyl chloride	86	88	56 - 129	2	17		
Xylenes, Total	90	92	74 - 141	3	15		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	94	98	70 - 130
Dibromofluoromethane (Surr)	106	103	70 - 130
1,2-Dichloroethane-d4 (Surr)	89	87	70 - 130
Toluene-d8 (Surr)	92	95	70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-122545

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-39934-B-3 MS	Units: ug/L	MSD Lab Sample ID:	490-39934-C-3 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/17/2013 0030		Analysis Date:	11/17/2013 0057	
Prep Date:	11/17/2013 0030		Prep Date:	11/17/2013 0057	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Acetone	7.67		250	250	182.2	206.0
Benzene	ND		50.0	50.0	46.49	46.62
Bromochloromethane	ND		50.0	50.0	53.40	51.27
Bromodichloromethane	ND		50.0	50.0	56.61	55.82
Bromoform	ND		50.0	50.0	53.64	54.16
Bromomethane	ND		50.0	50.0	60.64	65.20
2-Butanone (MEK)	ND		250	250	210.1	217.6
Carbon disulfide	ND		50.0	50.0	46.49	46.83
Carbon tetrachloride	ND		50.0	50.0	61.23	61.50
Chlorobenzene	ND		50.0	50.0	46.22	46.44
Chlorodibromomethane	ND		50.0	50.0	50.88	51.93
Chloroethane	ND		50.0	50.0	47.63	46.91
Chloroform	0.489	J	50.0	50.0	47.59	46.41
Chloromethane	ND		50.0	50.0	48.25	47.23
cis-1,2-Dichloroethene	ND		50.0	50.0	47.41	48.12
cis-1,3-Dichloropropene	ND		50.0	50.0	45.62	47.49
Cyclohexane	ND		50.0	50.0	45.04	45.78
1,2-Dibromo-3-Chloropropane	ND		50.0	50.0	48.85	52.75
1,2-Dibromoethane (EDB)	ND		50.0	50.0	44.86	46.38
1,2-Dichlorobenzene	ND		50.0	50.0	44.62	45.66
1,3-Dichlorobenzene	ND		50.0	50.0	43.41	45.21
1,4-Dichlorobenzene	ND		50.0	50.0	42.14	43.58
Dichlorodifluoromethane	ND		50.0	50.0	39.77	39.73
1,1-Dichloroethane	ND		50.0	50.0	45.44	45.62
1,2-Dichloroethane	ND		50.0	50.0	41.26	41.91
1,1-Dichloroethene	ND		50.0	50.0	49.67	48.64
1,2-Dichloropropane	ND		50.0	50.0	45.78	45.54
Ethylbenzene	ND		50.0	50.0	44.72	46.16
2-Hexanone	ND		250	250	176.3	185.1
Isopropylbenzene	ND		50.0	50.0	48.21	49.23
Methyl acetate	ND		250	250	142.9	144.8
Methylcyclohexane	ND		50.0	50.0	51.42	51.43
Methylene Chloride	ND		50.0	50.0	42.48	42.83
4-Methyl-2-pentanone (MIBK)	ND		250	250	200.6	209.4
Methyl tert-butyl ether	ND		50.0	50.0	54.81	57.14
N-Propylbenzene	ND		50.0	50.0	41.83	43.69
Styrene	ND		50.0	50.0	46.60	48.12
1,1,2,2-Tetrachloroethane	ND		50.0	50.0	38.71	40.25
Tetrachloroethene	ND		50.0	50.0	46.54	47.14
Tetrahydrofuran	ND		100	100	68.17	68.59
Toluene	ND		50.0	50.0	43.62	44.79
trans-1,2-Dichloroethene	ND		50.0	50.0	44.97	44.37
trans-1,3-Dichloropropene	ND		50.0	50.0	45.68	47.84

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-122545

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-39934-B-3 MS	Units: ug/L	MSD Lab Sample ID:	490-39934-C-3 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/17/2013 0030		Analysis Date:	11/17/2013 0057	
Prep Date:	11/17/2013 0030		Prep Date:	11/17/2013 0057	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,2,4-Trichlorobenzene	ND	50.0	50.0	55.11	62.09
1,1,1-Trichloroethane	ND	50.0	50.0	62.31	62.30
1,1,2-Trichloroethane	ND	50.0	50.0	42.19	43.17
Trichloroethene	ND	50.0	50.0	53.95	53.94
Trichlorofluoromethane	ND	50.0	50.0	53.65	49.41
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND	50.0	50.0	48.71	48.82
Vinyl chloride	ND	50.0	50.0	43.23	44.05
Xylenes, Total	ND	100	100	89.73	92.18

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Method Blank - Batch: 490-121117

Method: 8270C
Preparation: 3510C

Lab Sample ID:	MB 490-121117/1-A	Analysis Batch:	490-121257	Instrument ID:	HP83
Client Matrix:	Water	Prep Batch:	490-121117	Lab File ID:	1112004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	11/12/2013 1812	Units:	ug/L	Final Weight/Volume:	1 mL
Prep Date:	11/12/2013 0714			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acenaphthene	ND		0.366	2.00
Acenaphthylene	ND		0.330	2.00
Acetophenone	ND		1.90	10.0
Anthracene	ND		0.883	2.00
Atrazine	ND		3.70	10.0
Benzaldehyde	ND		2.15	10.0
Benzo[a]anthracene	ND		0.324	2.00
Benzo[a]pyrene	ND		0.330	2.00
Benzo[b]fluoranthene	ND		0.422	2.00
Benzo[g,h,i]perylene	ND		0.287	2.00
Benzo[k]fluoranthene	ND		0.364	2.00
Biphenyl	ND		3.33	10.0
Bis(2-chloroethoxy)methane	ND		1.36	10.0
Bis(2-chloroethyl)ether	ND		1.39	10.0
bis (2-chloroisopropyl) ether	ND		1.96	10.0
Bis(2-ethylhexyl) phthalate	ND		2.06	10.0
4-Bromophenyl phenyl ether	ND		1.37	10.0
Butyl benzyl phthalate	ND		1.74	10.0
Caprolactam	ND		3.33	10.0
Carbazole	ND		0.299	10.0
4-Chloroaniline	ND		1.17	10.0
4-Chloro-3-methylphenol	ND		3.33	10.0
2-Chloronaphthalene	ND		1.64	10.0
2-Chlorophenol	ND		1.59	10.0
4-Chlorophenyl phenyl ether	ND		1.75	10.0
Chrysene	ND		1.09	2.00
Dibenz(a,h)anthracene	ND		0.644	2.00
Dibenzofuran	ND		0.339	10.0
3,3'-Dichlorobenzidine	ND		1.52	10.0
2,4-Dichlorophenol	ND		1.02	10.0
Diethyl phthalate	ND		1.62	10.0
2,4-Dimethylphenol	ND		0.996	10.0
Dimethyl phthalate	ND		1.81	10.0
Di-n-butyl phthalate	ND		1.50	10.0
4,6-Dinitro-2-methylphenol	ND		2.07	25.0
2,4-Dinitrophenol	ND		2.46	25.0
2,4-Dinitrotoluene	ND		3.33	10.0
2,6-Dinitrotoluene	ND		1.94	10.0
Di-n-octyl phthalate	ND		2.31	10.0
Fluoranthene	ND		0.347	2.00
Fluorene	ND		0.316	2.00
Hexachlorobenzene	ND		1.69	10.0
Hexachlorobutadiene	ND		3.33	10.0
Hexachlorocyclopentadiene	ND		3.33	10.0
Hexachloroethane	ND		3.33	10.0

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Method Blank - Batch: 490-121117

Method: 8270C
Preparation: 3510C

Lab Sample ID:	MB 490-121117/1-A	Analysis Batch:	490-121257	Instrument ID:	HP83
Client Matrix:	Water	Prep Batch:	490-121117	Lab File ID:	1112004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	11/12/2013 1812	Units:	ug/L	Final Weight/Volume:	1 mL
Prep Date:	11/12/2013 0714			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Indeno[1,2,3-cd]pyrene	ND		0.381	2.00
Isophorone	ND		1.24	10.0
2-Methylnaphthalene	ND		0.311	2.00
2-Methylphenol	ND		3.33	10.0
3 & 4 Methylphenol	ND		3.33	10.0
Naphthalene	ND		0.398	2.00
2-Nitroaniline	ND		1.04	25.0
3-Nitroaniline	ND		1.85	25.0
4-Nitroaniline	ND		2.39	25.0
Nitrobenzene	ND		1.24	10.0
2-Nitrophenol	ND		1.57	10.0
4-Nitrophenol	ND		3.33	25.0
N-Nitrosodi-n-propylamine	ND		1.42	10.0
n-Nitrosodiphenylamine(as diphenylamine)	ND		1.44	10.0
Pentachlorophenol	ND		1.65	25.0
Phenanthrene	ND		0.343	2.00
Phenol	ND		3.45	10.0
Pyrene	ND		0.331	2.00
2,4,5-Trichlorophenol	ND		2.03	25.0
2,4,6-Trichlorophenol	ND		1.76	10.0

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	62	29 - 120
2-Fluorophenol (Surr)	10	10 - 120
Nitrobenzene-d5 (Surr)	66	27 - 120
Phenol-d5 (Surr)	18	10 - 120
Terphenyl-d14 (Surr)	81	13 - 120
2,4,6-Tribromophenol (Surr)	16	10 - 120

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Lab Control Sample - Batch: 490-121117

Method: 8270C
Preparation: 3510C

Lab Sample ID:	LCS 490-121117/2-A	Analysis Batch:	490-121257	Instrument ID:	HP83
Client Matrix:	Water	Prep Batch:	490-121117	Lab File ID:	1112005.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	11/12/2013 1834	Units:	ug/L	Final Weight/Volume:	1 mL
Prep Date:	11/12/2013 0714			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	50.0	38.57	77	46 - 120	
Acenaphthylene	50.0	37.66	75	48 - 120	
Acetophenone	50.0	34.97	70	52 - 133	
Anthracene	50.0	39.10	78	58 - 130	
Atrazine	50.0	38.51	77	24 - 133	
Benzaldehyde	50.0	72.54	145	34 - 120	*
Benzo[a]anthracene	50.0	40.15	80	57 - 120	
Benzo[a]pyrene	50.0	39.50	79	57 - 124	
Benzo[b]fluoranthene	50.0	37.66	75	51 - 125	
Benzo[g,h,i]perylene	50.0	39.54	79	51 - 123	
Benzo[k]fluoranthene	50.0	41.78	84	51 - 120	
Biphenyl	50.0	34.23	68	10 - 146	
Bis(2-chloroethoxy)methane	50.0	34.07	68	44 - 120	
Bis(2-chloroethyl)ether	50.0	33.27	67	47 - 120	
bis (2-chloroisopropyl) ether	50.0	24.96	50	44 - 120	
Bis(2-ethylhexyl) phthalate	50.0	42.15	84	47 - 138	
4-Bromophenyl phenyl ether	50.0	39.47	79	47 - 127	
Butyl benzyl phthalate	50.0	42.65	85	51 - 146	
Caprolactam	50.0	11.47	23	10 - 120	
Carbazole	50.0	39.48	79	54 - 123	
4-Chloroaniline	50.0	31.54	63	44 - 120	
4-Chloro-3-methylphenol	50.0	37.43	75	44 - 120	
2-Chloronaphthalene	50.0	34.66	69	39 - 120	
2-Chlorophenol	50.0	31.23	62	40 - 120	
4-Chlorophenyl phenyl ether	50.0	38.44	77	50 - 120	
Chrysene	50.0	41.84	84	55 - 120	
Dibenz(a,h)anthracene	50.0	39.26	79	50 - 125	
Dibenzofuran	50.0	38.00	76	50 - 120	
3,3'-Dichlorobenzidine	50.0	33.04	66	46 - 129	
2,4-Dichlorophenol	50.0	36.86	74	38 - 120	
Diethyl phthalate	50.0	39.70	79	54 - 128	
2,4-Dimethylphenol	50.0	28.25	56	21 - 126	
Dimethyl phthalate	50.0	40.08	80	53 - 127	
Di-n-butyl phthalate	50.0	40.84	82	54 - 140	
4,6-Dinitro-2-methylphenol	100	80.88	81	19 - 150	
2,4-Dinitrophenol	100	84.66	85	20 - 150	
2,4-Dinitrotoluene	50.0	41.08	82	46 - 132	
2,6-Dinitrotoluene	50.0	42.78	86	54 - 128	
Di-n-octyl phthalate	50.0	43.70	87	50 - 142	
Fluoranthene	50.0	40.87	82	56 - 120	
Fluorene	50.0	38.94	78	52 - 120	
Hexachlorobenzene	50.0	40.13	80	48 - 131	
Hexachlorobutadiene	50.0	17.45	35	28 - 120	
Hexachlorocyclopentadiene	50.0	24.86	50	17 - 120	
Hexachloroethane	50.0	15.45	31	30 - 120	
Indeno[1,2,3-cd]pyrene	50.0	39.07	78	54 - 125	

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Lab Control Sample - Batch: 490-121117

Method: 8270C
Preparation: 3510C

Lab Sample ID:	LCS 490-121117/2-A	Analysis Batch:	490-121257	Instrument ID:	HP83
Client Matrix:	Water	Prep Batch:	490-121117	Lab File ID:	1112005.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	11/12/2013 1834	Units:	ug/L	Final Weight/Volume:	1 mL
Prep Date:	11/12/2013 0714			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Isophorone	50.0	38.46	77	47 - 120	
2-Methylnaphthalene	50.0	28.73	57	31 - 120	
2-Methylphenol	50.0	30.18	60	38 - 120	
3 & 4 Methylphenol	50.0	28.46	57	33 - 120	
Naphthalene	50.0	25.10	50	37 - 120	
2-Nitroaniline	50.0	43.70	87	46 - 131	
3-Nitroaniline	50.0	39.98	80	54 - 121	
4-Nitroaniline	50.0	41.75	83	55 - 123	
Nitrobenzene	50.0	33.77	68	36 - 120	
2-Nitrophenol	50.0	35.33	71	32 - 120	
4-Nitrophenol	100	32.71	33	10 - 120	
N-Nitrosodi-n-propylamine	50.0	36.53	73	51 - 120	
n-Nitrosodiphenylamine(as diphenylamine)	50.0	48.36	97	58 - 149	
Pentachlorophenol	100	82.42	82	21 - 150	
Phenanthrene	50.0	39.23	78	56 - 120	
Phenol	50.0	14.49	29	14 - 120	
Pyrene	50.0	40.64	81	53 - 129	
2,4,5-Trichlorophenol	50.0	40.28	81	40 - 129	
2,4,6-Trichlorophenol	50.0	40.52	81	39 - 135	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	71	29 - 120
2-Fluorophenol (Surr)	41	10 - 120
Nitrobenzene-d5 (Surr)	69	27 - 120
Phenol-d5 (Surr)	27	10 - 120
Terphenyl-d14 (Surr)	78	13 - 120
2,4,6-Tribromophenol (Surr)	82	10 - 120

DATA REPORTING QUALIFIERS

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Lab Section	Qualifier	Description
GC/MS VOA		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC/MS Semi VOA		
	*	LCS or LCSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:490-122545					
LCS 490-122545/3	Lab Control Sample	T	Water	8260B	
MB 490-122545/5	Method Blank	T	Water	8260B	
490-39686-1	MW-04B-GW-001	T	Water	8260B	
490-39686-2	MW-04B-GW-002	T	Water	8260B	
490-39686-3	MW-08-GW-001	T	Water	8260B	
490-39686-5	MW-09-GW-001	T	Water	8260B	
490-39686-7TB	Trip Blank	T	Water	8260B	
490-39934-B-3 MS	Matrix Spike	T	Water	8260B	
490-39934-C-3 MSD	Matrix Spike Duplicate	T	Water	8260B	

Report Basis
T = Total

GC/MS Semi VOA					
Prep Batch: 490-121117					
LCS 490-121117/2-A	Lab Control Sample	T	Water	3510C	
MB 490-121117/1-A	Method Blank	T	Water	3510C	
490-39686-1	MW-04B-GW-001	T	Water	3510C	
490-39686-2	MW-04B-GW-002	T	Water	3510C	
490-39686-3	MW-08-GW-001	T	Water	3510C	
490-39686-5	MW-09-GW-001	T	Water	3510C	
Analysis Batch:490-121257					
LCS 490-121117/2-A	Lab Control Sample	T	Water	8270C	490-121117
MB 490-121117/1-A	Method Blank	T	Water	8270C	490-121117
490-39686-1	MW-04B-GW-001	T	Water	8270C	490-121117
490-39686-2	MW-04B-GW-002	T	Water	8270C	490-121117
490-39686-3	MW-08-GW-001	T	Water	8270C	490-121117
490-39686-5	MW-09-GW-001	T	Water	8270C	490-121117

Report Basis
T = Total

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Laboratory Chronicle

Lab ID: 490-39686-1 **Client ID: MW-04B-GW-001**

Sample Date/Time: 11/06/2013 15:42 Received Date/Time: 11/07/2013 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39686-A-1		490-122545		11/16/2013 22:43	1	TAL NSH	JJR
A:8260B	490-39686-A-1		490-122545		11/16/2013 22:43	1	TAL NSH	JJR
P:3510C	490-39686-U-1-A		490-121257	490-121117	11/12/2013 07:20	1	TAL NSH	LSR
A:8270C	490-39686-U-1-A		490-121257	490-121117	11/12/2013 20:25	1	TAL NSH	BES

Lab ID: 490-39686-2 **Client ID: MW-04B-GW-002**

Sample Date/Time: 11/06/2013 15:42 Received Date/Time: 11/07/2013 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39686-A-2		490-122545		11/16/2013 23:09	1	TAL NSH	JJR
A:8260B	490-39686-A-2		490-122545		11/16/2013 23:09	1	TAL NSH	JJR
P:3510C	490-39686-U-2-A		490-121257	490-121117	11/12/2013 07:20	1	TAL NSH	LSR
A:8270C	490-39686-U-2-A		490-121257	490-121117	11/12/2013 20:47	1	TAL NSH	BES

Lab ID: 490-39686-3 **Client ID: MW-08-GW-001**

Sample Date/Time: 11/06/2013 11:08 Received Date/Time: 11/07/2013 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39686-A-3		490-122545		11/16/2013 23:36	1	TAL NSH	JJR
A:8260B	490-39686-A-3		490-122545		11/16/2013 23:36	1	TAL NSH	JJR
P:3510C	490-39686-V-3-A		490-121257	490-121117	11/12/2013 07:20	1	TAL NSH	LSR
A:8270C	490-39686-V-3-A		490-121257	490-121117	11/12/2013 21:10	1	TAL NSH	BES

Lab ID: 490-39686-5 **Client ID: MW-09-GW-001**

Sample Date/Time: 11/06/2013 13:26 Received Date/Time: 11/07/2013 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39686-A-5		490-122545		11/17/2013 00:03	1	TAL NSH	JJR
A:8260B	490-39686-A-5		490-122545		11/17/2013 00:03	1	TAL NSH	JJR
P:3510C	490-39686-V-5-A		490-121257	490-121117	11/12/2013 07:20	1	TAL NSH	LSR
A:8270C	490-39686-V-5-A		490-121257	490-121117	11/12/2013 21:32	1	TAL NSH	BES

Lab ID: 490-39686-7 **Client ID: Trip Blank**

Sample Date/Time: 11/06/2013 00:01 Received Date/Time: 11/07/2013 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39686-A-7		490-122545		11/16/2013 20:28	1	TAL NSH	JJR
A:8260B	490-39686-A-7		490-122545		11/16/2013 20:28	1	TAL NSH	JJR

Client: Haley & Aldrich, Inc. Job Number: 490-39686-2

Laboratory Chronicle

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 490-122545/5		490-122545		11/16/2013 15:33	1	TAL NSH	JJR
A:8260B	MB 490-122545/5		490-122545		11/16/2013 15:33	1	TAL NSH	JJR
P:3510C	MB 490-121117/1-A		490-121257	490-121117	11/12/2013 07:14	1	TAL NSH	LSR
A:8270C	MB 490-121117/1-A		490-121257	490-121117	11/12/2013 18:12	1	TAL NSH	BES

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 490-122545/3		490-122545		11/16/2013 14:20	1	TAL NSH	JJR
A:8260B	LCS 490-122545/3		490-122545		11/16/2013 14:20	1	TAL NSH	JJR
P:3510C	LCS 490-121117/2-A		490-121257	490-121117	11/12/2013 07:14	1	TAL NSH	LSR
A:8270C	LCS 490-121117/2-A		490-121257	490-121117	11/12/2013 18:34	1	TAL NSH	BES

Lab ID: MS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39934-B-3 MS		490-122545		11/17/2013 00:30	1	TAL NSH	JJR
A:8260B	490-39934-B-3 MS		490-122545		11/17/2013 00:30	1	TAL NSH	JJR

Lab ID: MSD **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39934-C-3 MSD		490-122545		11/17/2013 00:57	1	TAL NSH	JJR
A:8260B	490-39934-C-3 MSD		490-122545		11/17/2013 00:57	1	TAL NSH	JJR

Lab References:
TAL NSH = TestAmerica Nashville

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
BNA ICV_MIX1_00008	03/13/14	09/26/13	Methanol, Lot ust methanol 11	100 mL	BNA_List1Std1_00011	5 mL	2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Anthracene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Biphenyl	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
					BNA_List1Std2_00012	5 mL	3,3'-Dichlorobenzidine	100 ug/mL
							Atrazine	100 ug/mL
							Caprolactam	100 ug/mL
					BNA_List1Std5_00009	5 mL	n-Nitrosodiphenylamine(as diphenylamine)	100 ug/mL
					BNA_List1Std6_00010	5 mL	Benzaldehyde	100 ug/mL
.BNA_List1Std1_00011	09/30/14		Restek, Lot A094002		(Purchased Reagent)		2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
.BNA_List1Std2_00012	08/31/14		Restek, Lot A093775		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Caprolactam	2000 ug/mL
.BNA_List1Std5_00009	02/28/15		Restek, Lot A093671		(Purchased Reagent)		n-Nitrosodiphenylamine(as diphenylamine)	2000 ug/mL
.BNA_List1Std6_00010	08/31/14		Restek, Lot A093656		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
BNA ICV_MIX1_00009	03/13/14	10/31/13	Methanol, Lot ust methanol 11	100 mL	BNA_List1Std1_00011	5 mL	1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Biphenyl	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Hexadecane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					BNA_List1Std2_00012	5 mL	3,3'-Dichlorobenzidine	100 ug/mL
							Atrazine	100 ug/mL
							Benzidine	100 ug/mL
							Caprolactam	100 ug/mL
					BNA_List1Std3_00003	5 mL	Benzoic acid	200 ug/mL
					BNA_List1Std3_00007	5 mL	Benzoic acid	200 ug/mL
					BNA_List1Std4_00007	5 mL	Indene	100 ug/mL
					BNA_List1Std5_00009	5 mL	n-Nitrosodiphenylamine(as diphenylamine)	100 ug/mL
					BNA_List1Std6_00010	5 mL	Benzaldehyde	100 ug/mL
.BNA_List1Std1_00011	09/30/14		Restek, Lot A094002		(Purchased Reagent)		1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
.BNA_List1Std2_00012	08/31/14		Restek, Lot A093775		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
.BNA_List1Std3_00003	02/28/16		Restek, Lot A093654		(Purchased Reagent)		Benzoic acid	2000 ug/mL
.BNA_List1Std3_00007	02/28/16		Restek, Lot A093654		(Purchased Reagent)		Benzoic acid	2000 ug/mL
.BNA_List1Std4_00007	08/31/14		Restek, Lot A093668		(Purchased Reagent)		Indene	2000 ug/mL
.BNA_List1Std5_00009	02/28/15		Restek, Lot A093671		(Purchased Reagent)		n-Nitrosodiphenylamine(as diphenylamine)	2000 ug/mL
.BNA_List1Std6_00010	08/31/14		Restek, Lot A093656		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
BNA List 1cal_00001	10/24/13	04/24/13	MeCl2, Lot OP_MECL2_006	50 mL	BNA_List1Std1_00003	10 mL	1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	200 ug/mL
							Anthracene	200 ug/mL
							Azobenzene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Benzyl alcohol	200 ug/mL
							Biphenyl	200 ug/mL
							bis (2-chloroisopropyl) ether	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	200 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					BNA_List1Std2_00001	5 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Atrazine	200 ug/mL
							Benzidine	200 ug/mL
							Caprolactam	200 ug/mL
					BNA_List1Std3_00001	5 mL	Benzoic acid	200 ug/mL
					BNA_List1Std4_00001	5 mL	Indene	200 ug/mL
					BNA_List1Std5_00001	5 mL	n-Nitrosodiphenylamine(as diphenylamine)	200 ug/mL
					BNA_List1Std6_00001	5 mL	Benzaldehyde	200 ug/mL
					BNA_Surrogate_00001	2 mL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
.BNA_List1Std1_00003	08/31/14		Restek, Lot A093709		(Purchased Reagent)		1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
.BNA_List1Std2_00001	08/31/14		Restek, Lot A093755		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
.BNA_List1Std3_00001	02/28/16		Restek, Lot A093441		(Purchased Reagent)		Benzoic acid	2000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.BNA_List1Std4_00001	08/31/14		Restek, Lot A093730		(Purchased Reagent)		Indene	2000 ug/mL
.BNA_List1Std5_00001	02/28/15		Restek, Lot A093442		(Purchased Reagent)		n-Nitrosodiphenylamine(as diphenylamine)	2000 ug/mL
.BNA_List1Std6_00001	08/31/14		Restek, Lot A093445		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
.BNA_Surrogate_00001	02/28/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
BNA List 1cal_00002	04/17/14	10/17/13	MeCl2, Lot OP_MECL2_011	50 mL	BNA_List1Std1_00007	5 mL	2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Biphenyl	200 ug/mL
							bis (2-chloroisopropyl) ether	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
					BNA_List1Std2_00011	5 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Atrazine	200 ug/mL
							Caprolactam	200 ug/mL
					BNA_List1Std5_00008	5 mL	n-Nitrosodiphenylamine(as diphenylamine)	200 ug/mL
					BNA_List1Std6_00009	5 mL	Benzaldehyde	200 ug/mL
					BNA_Surrogate_00002	2 mL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
.BNA_List1Std1_00007	08/31/14		Restek, Lot A093709		(Purchased Reagent)		2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
.BNA_List1Std2_00011	01/31/15		Restek, Lot A097020		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Caprolactam	2000 ug/mL
.BNA_List1Std5_00008	02/28/15		Restek, Lot A093442		(Purchased Reagent)		n-Nitrosodiphenylamine(as diphenylamine)	2000 ug/mL
.BNA_List1Std6_00009	08/31/14		Restek, Lot A093445		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
.BNA_Surrogate_00002	02/28/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
BNA_W_IS_2000_00002	12/15/13	06/15/13	n/a, Lot n/a	5 mL	BNA_S_IS_2000_00003	5 mL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.BNA_S_IS_2000_00003	02/28/18		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
OP_1:1 Sulfur_00003	04/07/14		Macron, Lot 0000053267		(Purchased Reagent)		Stock Chemical	50 %
OP_BNA_Surr_00011	09/30/15		Ultra, Lot CK-2907		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	50 ug/mL
							2-Fluorobiphenyl (Surr)	50 ug/mL
							2-Fluorophenol (Surr)	50 ug/mL
							Nitrobenzene-d5 (Surr)	50 ug/mL
							Phenol-d5 (Surr)	50 ug/mL
							Terphenyl-d14 (Surr)	50 ug/mL
OP_MeCl2_00019	12/04/14		J.T. Baker, Lot 0000058238		(Purchased Reagent)		Methylene Chloride	0 %
OP_NaOH_00006	08/03/15		VWR, Lot 310803		(Purchased Reagent)		Sodium Hydroxide	0 mL/L
OP_NaSO4_00016	04/15/18		J.T. Baker, Lot 0000049016		(Purchased Reagent)		Stock Chemical	0 %
V1_gases_I_00014	08/21/13	08/14/13	Methanol, Lot 125253	25 mL	V1_Gases_00003	1.25 mL	Bromomethane	100 ug/mL
							Butadiene	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Dichlorofluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.V1_Gases_00003	02/28/15		Restek, Lot A093341		(Purchased Reagent)		Bromomethane	2000000 ug/L
							Butadiene	2000000 ug/L
							Chloroethane	2000000 ug/L
							Chloromethane	2000000 ug/L
							Dichlorodifluoromethane	2000000 ug/L
							Dichlorofluoromethane	2000000 ug/L

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichlorofluoromethane	2000000 ug/L
							Vinyl chloride	2000000 ug/L
V1_gases_I_00028	11/16/13	11/09/13	Methanol, Lot 0000038701	25 mL	V1_Gases_00003	1.25 mL	Bromomethane	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.V1_Gases_00003	02/28/15	Restek, Lot A093341			(Purchased Reagent)		Bromomethane	2000000 ug/L
							Chloroethane	2000000 ug/L
							Chloromethane	2000000 ug/L
							Dichlorodifluoromethane	2000000 ug/L
							Trichlorofluoromethane	2000000 ug/L
							Vinyl chloride	2000000 ug/L
V1_Mega_I_00006	08/30/13	07/30/13	Methanol, Lot 123279	50 mL	V1_2-CEVE_00002	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					V1_Acrolein_00006	2.5 mL	Acrolein	250 ug/mL
					V1_Additions_00003	2.5 mL	1,2,3-Trimethylbenzene	100 ug/mL
							1,3,5-Trichlorobenzene	100 ug/mL
							2-Chloro-1,3-butadiene	100 ug/mL
							2-Nitropropane	200 ug/mL
							Acetonitrile	1000 ug/mL
							Benzyl chloride	100 ug/mL
							Ethanol	5000 ug/mL
							Ethyl acetate	200 ug/mL
							Ethyl acrylate	100 ug/mL
							Isopropyl alcohol	1000 ug/mL
							Isopropyl ether	100 ug/mL
							Methacrylonitrile	1000 ug/mL
							Methyl methacrylate	200 ug/mL
							n-Butanol	2500 ug/mL
							n-Butyl acetate	100 ug/mL
							Propionitrile	1000 ug/mL
							Tert-amyl methyl ether	100 ug/mL
							Tert-butyl ethyl ether	100 ug/mL
					V1_cyclohxnon_00003	2.5 mL	Cyclohexanone	1000 ug/mL
					V1_Keytones_00002	2.5 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					V1_List 2_00002	2.5 mL	2-Methylnaphthalene	100 ug/mL
							Pentachloroethane	100 ug/mL
					V1_Megamix_00004	2.5 mL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	100 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane (EDB)	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromochloromethane	100 ug/mL
							Bromodichloromethane	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	1000 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
					V1_vnl acetat_00003	2.5 mL	Vinyl acetate	200 ug/mL
					VO1_1menap_S_00002	1 mL	1-Methylnaphthalene	20 ug/mL
.V1_2-CEVE_00002	02/28/16		Restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000000 ug/L
.V1_Acrolein_00006	09/30/13		Restek, Lot A095604		(Purchased Reagent)		Acrolein	5000000 ug/L
.V1_Additions_00003	08/30/14		Restek, Lot A093634		(Purchased Reagent)		1,2,3-Trimethylbenzene	2000000 ug/L
							1,3,5-Trichlorobenzene	2000000 ug/L
							2-Chloro-1,3-butadiene	2000000 ug/L
							2-Nitropropane	4000000 ug/L
							Acetonitrile	20000000 ug/L
							Benzyl chloride	2000000 ug/L
							Ethanol	100000000 ug/L
							Ethyl acetate	4000000 ug/L
							Ethyl acrylate	2000000 ug/L
							Isopropyl alcohol	20000000 ug/L
							Isopropyl ether	2000000 ug/L
							Methacrylonitrile	20000000 ug/L
							Methyl methacrylate	4000000 ug/L
							n-Butanol	50000000 ug/L
							n-Butyl acetate	2000000 ug/L
							Propionitrile	20000000 ug/L
							Tert-amyl methyl ether	2000000 ug/L
							Tert-butyl ethyl ether	2000000 ug/L
.V1_cyclohxnon_00003	02/28/16		Restek, Lot A093361		(Purchased Reagent)		Cyclohexanone	20000000 ug/L
.V1_Keytones_00002	02/28/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000000 ug/L
							2-Hexanone	10000000 ug/L
							4-Methyl-2-pentanone (MIBK)	10000000 ug/L
							Acetone	10000000 ug/L
.V1_List 2_00002	02/28/15		Restek, Lot A093359		(Purchased Reagent)		2-Methylnaphthalene	2000000 ug/L

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pentachloroethane	2000000 ug/L
.V1_Megamix_00004	02/28/16		Restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000000 ug/L
							1,1,1-Trichloroethane	2000000 ug/L
							1,1,2,2-Tetrachloroethane	2000000 ug/L
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2000000 ug/L
							1,1,2-Trichloroethane	2000000 ug/L
							1,1-Dichloroethane	2000000 ug/L
							1,1-Dichloroethene	2000000 ug/L
							1,1-Dichloropropene	2000000 ug/L
							1,2,3-Trichlorobenzene	2000000 ug/L
							1,2,3-Trichloropropane	2000000 ug/L
							1,2,4-Trichlorobenzene	2000000 ug/L
							1,2,4-Trimethylbenzene	2000000 ug/L
							1,2-Dibromo-3-Chloropropane	2000000 ug/L
							1,2-Dibromoethane (EDB)	2000000 ug/L
							1,2-Dichlorobenzene	2000000 ug/L
							1,2-Dichloroethane	2000000 ug/L
							1,2-Dichloropropane	2000000 ug/L
							1,3,5-Trimethylbenzene	2000000 ug/L
							1,3-Dichlorobenzene	2000000 ug/L
							1,3-Dichloropropane	2000000 ug/L
							1,4-Dichlorobenzene	2000000 ug/L
							1,4-Dioxane	40000000 ug/L
							2,2-Dichloropropane	2000000 ug/L
							2-Chlorotoluene	2000000 ug/L
							2-Methyl-2-propanol	20000000 ug/L
							3-Chloro-1-propene	2000000 ug/L
							4-Chlorotoluene	2000000 ug/L
							4-Isopropyltoluene	2000000 ug/L
							Acrylonitrile	20000000 ug/L
							Benzene	2000000 ug/L
							Bromobenzene	2000000 ug/L
							Bromochloromethane	2000000 ug/L
							Bromodichloromethane	2000000 ug/L
							Bromoform	2000000 ug/L
							Carbon disulfide	2000000 ug/L
							Carbon tetrachloride	2000000 ug/L
							Chlorobenzene	2000000 ug/L
							Chlorodibromomethane	2000000 ug/L
							Chloroform	2000000 ug/L
							cis-1,2-Dichloroethene	2000000 ug/L
							cis-1,3-Dichloropropene	2000000 ug/L
							Cyclohexane	2000000 ug/L
							Dibromomethane	2000000 ug/L
							Ethyl ether	2000000 ug/L
							Ethyl methacrylate	2000000 ug/L
							Ethylbenzene	2000000 ug/L

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	2000000 ug/L
							Hexane	2000000 ug/L
							Iodomethane	2000000 ug/L
							Isobutyl alcohol	20000000 ug/L
							Isopropylbenzene	2000000 ug/L
							m-Xylene & p-Xylene	2000000 ug/L
							Methyl acetate	10000000 ug/L
							Methyl tert-butyl ether	2000000 ug/L
							Methylcyclohexane	2000000 ug/L
							Methylene Chloride	2000000 ug/L
							n-Butylbenzene	2000000 ug/L
							n-Heptane	2000000 ug/L
							N-Propylbenzene	2000000 ug/L
							Naphthalene	2000000 ug/L
							o-Xylene	2000000 ug/L
							sec-Butylbenzene	2000000 ug/L
							Styrene	2000000 ug/L
							tert-Butylbenzene	2000000 ug/L
							Tetrachloroethene	2000000 ug/L
							Tetrahydrofuran	4000000 ug/L
							Toluene	2000000 ug/L
							trans-1,2-Dichloroethene	2000000 ug/L
							trans-1,3-Dichloropropene	2000000 ug/L
							trans-1,4-Dichloro-2-butene	2000000 ug/L
							Trichloroethene	2000000 ug/L
.V1_vnl acetat_00003	12/31/13		Restek, Lot A096198		(Purchased Reagent)		Vinyl acetate	4000000 ug/L
.VO1_1menap_S_00002	10/31/18		Restek, Lot A084039		(Purchased Reagent)		1-Methylnaphthalene	1000000 ug/L
V1_Mega_I_00010	11/26/13	10/26/13	Methanol, Lot 0000049909	50 mL	V1_Keytones_00003	2.5 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					V1_Megamix_00005	2.5 mL	1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane (EDB)	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							Benzene	100 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromochloromethane	100 ug/mL
							Bromodichloromethane	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Ethylbenzene	100 ug/mL
							Isopropylbenzene	100 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Styrene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							Trichloroethene	100 ug/mL
							Xylenes, Total	200 ug/mL
.V1_Keytones_00003	02/28/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000000 ug/L
							2-Hexanone	10000000 ug/L
							4-Methyl-2-pentanone (MIBK)	10000000 ug/L
							Acetone	10000000 ug/L
.V1_Megamix_00005	02/28/16		Restek, Lot A093581		(Purchased Reagent)		1,1,1-Trichloroethane	2000000 ug/L
							1,1,2,2-Tetrachloroethane	2000000 ug/L
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2000000 ug/L
							1,1,2-Trichloroethane	2000000 ug/L
							1,1-Dichloroethane	2000000 ug/L
							1,1-Dichloroethene	2000000 ug/L
							1,2,4-Trichlorobenzene	2000000 ug/L
							1,2-Dibromo-3-Chloropropane	2000000 ug/L
							1,2-Dibromoethane (EDB)	2000000 ug/L
							1,2-Dichlorobenzene	2000000 ug/L
							1,2-Dichloroethane	2000000 ug/L
							1,2-Dichloropropane	2000000 ug/L
							1,3-Dichlorobenzene	2000000 ug/L
							1,4-Dichlorobenzene	2000000 ug/L
							Benzene	2000000 ug/L
							Bromochloromethane	2000000 ug/L
							Bromodichloromethane	2000000 ug/L

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	2000000 ug/L
							Carbon disulfide	2000000 ug/L
							Carbon tetrachloride	2000000 ug/L
							Chlorobenzene	2000000 ug/L
							Chlorodibromomethane	2000000 ug/L
							Chloroform	2000000 ug/L
							cis-1,2-Dichloroethene	2000000 ug/L
							cis-1,3-Dichloropropene	2000000 ug/L
							Cyclohexane	2000000 ug/L
							Ethylbenzene	2000000 ug/L
							Isopropylbenzene	2000000 ug/L
							Methyl acetate	10000000 ug/L
							Methyl tert-butyl ether	2000000 ug/L
							Methylcyclohexane	2000000 ug/L
							Methylene Chloride	2000000 ug/L
							N-Propylbenzene	2000000 ug/L
							Styrene	2000000 ug/L
							Tetrachloroethene	2000000 ug/L
							Tetrahydrofuran	4000000 ug/L
							Toluene	2000000 ug/L
							trans-1,2-Dichloroethene	2000000 ug/L
							trans-1,3-Dichloropropene	2000000 ug/L
							Trichloroethene	2000000 ug/L
							Xylenes, Total	4000000 ug/L
V2_gases_I_00006	08/28/13	08/21/13	Methanol, Lot 124454	25 mL	V2_Gases_00003	1.25 mL	Bromomethane	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.V2_Gases_00003	02/28/15		Restek, Lot A093618		(Purchased Reagent)		Bromomethane	2000000 ug/L
							Chloroethane	2000000 ug/L
							Chloromethane	2000000 ug/L
							Dichlorodifluoromethane	2000000 ug/L
							Trichlorofluoromethane	2000000 ug/L
							Vinyl chloride	2000000 ug/L
V2_Mega_I_00002	08/30/13	08/06/13	Methanol, Lot 124454	25 mL	V2_Keytones_00001	1.25 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					V2_Megamix_00001	1.25 mL	1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane (EDB)	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							Benzene	100 ug/mL
							Bromochloromethane	100 ug/mL
							Bromodichloromethane	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Ethylbenzene	100 ug/mL
							Isopropylbenzene	100 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Styrene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							Trichloroethene	100 ug/mL
							Xylenes, Total	200 ug/mL
.V2_Keytones_00001	02/28/16		Restek, Lot A093472		(Purchased Reagent)		2-Butanone (MEK)	10000000 ug/L
							2-Hexanone	10000000 ug/L
							4-Methyl-2-pentanone (MIBK)	10000000 ug/L
							Acetone	10000000 ug/L
.V2_Megamix_00001	02/28/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1-Trichloroethane	2000000 ug/L
							1,1,2,2-Tetrachloroethane	2000000 ug/L
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2000000 ug/L
							1,1,2-Trichloroethane	2000000 ug/L
							1,1-Dichloroethane	2000000 ug/L
							1,1-Dichloroethene	2000000 ug/L
							1,2,4-Trichlorobenzene	2000000 ug/L
							1,2-Dibromo-3-Chloropropane	2000000 ug/L

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromoethane (EDB)	2000000 ug/L
							1,2-Dichlorobenzene	2000000 ug/L
							1,2-Dichloroethane	2000000 ug/L
							1,2-Dichloropropane	2000000 ug/L
							1,3-Dichlorobenzene	2000000 ug/L
							1,4-Dichlorobenzene	2000000 ug/L
							Benzene	2000000 ug/L
							Bromochloromethane	2000000 ug/L
							Bromodichloromethane	2000000 ug/L
							Bromoform	2000000 ug/L
							Carbon disulfide	2000000 ug/L
							Carbon tetrachloride	2000000 ug/L
							Chlorobenzene	2000000 ug/L
							Chlorodibromomethane	2000000 ug/L
							Chloroform	2000000 ug/L
							cis-1,2-Dichloroethene	2000000 ug/L
							cis-1,3-Dichloropropene	2000000 ug/L
							Cyclohexane	2000000 ug/L
							Ethylbenzene	2000000 ug/L
							Isopropylbenzene	2000000 ug/L
							Methyl acetate	10000000 ug/L
							Methyl tert-butyl ether	2000000 ug/L
							Methylcyclohexane	2000000 ug/L
							Methylene Chloride	2000000 ug/L
							N-Propylbenzene	2000000 ug/L
							Styrene	2000000 ug/L
							Tetrachloroethene	2000000 ug/L
							Tetrahydrofuran	4000000 ug/L
							Toluene	2000000 ug/L
							trans-1,2-Dichloroethene	2000000 ug/L
							trans-1,3-Dichloropropene	2000000 ug/L
							Trichloroethene	2000000 ug/L
							Xylenes, Total	4000000 ug/L
VOA_ISSS150_W_00004	11/01/13	05/01/13	Methanol, Lot 124454	75 mL	VOA_IS Mix_S_00004	4.5 mL	1,4-Dichlorobenzene-d4	150 ug/mL
							Chlorobenzene-d5	150 ug/mL
							Fluorobenzene (IS)	150 ug/mL
					VOA_SS Mix_S_00003	4.5 mL	1,2-Dichloroethane-d4 (Surr)	150 ug/mL
							4-Bromofluorobenzene (Surr)	150 ug/mL
							Dibromofluoromethane (Surr)	150 ug/mL
							Toluene-d8 (Surr)	150 ug/mL
.VOA_IS Mix_S_00004	03/31/14	Ultra Scientific, Lot CJ-0470			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500000 ug/L
							Chlorobenzene-d5	2500000 ug/L
							Fluorobenzene (IS)	2500000 ug/L
.VOA_SS Mix_S_00003	09/30/14	Ultra Scientific, Lot CJ-3029			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500000 ug/L
							4-Bromofluorobenzene (Surr)	2500000 ug/L
							Dibromofluoromethane (Surr)	2500000 ug/L
							Toluene-d8 (Surr)	2500000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VOA_ISSS150_W_00006	11/19/13	05/01/13	Methanol, Lot 124454	75 mL	VOA_SS Mix_S_00003	4.5 mL	1,2-Dichloroethane-d4 (Surr)	150 ug/mL
							4-Bromofluorobenzene (Surr)	150 ug/mL
							Dibromofluoromethane (Surr)	150 ug/mL
							Toluene-d8 (Surr)	150 ug/mL
.VOA_SS Mix_S_00003	09/30/14	Ultra Scientific, Lot CJ-3029			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500000 ug/L
							4-Bromofluorobenzene (Surr)	2500000 ug/L
							Dibromofluoromethane (Surr)	2500000 ug/L
							Toluene-d8 (Surr)	2500000 ug/L

10	1,2-Dichlorobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 95-50-1.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
11	Benzyl alcohol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 100-51-6.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
12	Bis(2-chloroisopropyl)ether	720.0	µg/mL	+/-	4.1861	µg/mL	Gravimetric
	CAS # 108-60-1.SEC			+/-	6.3329	µg/mL	Unstressed
	Purity 72%			+/-	12.5198	µg/mL	Stressed
13	2-Methylphenol (o-cresol)	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 95-48-7.SEC			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
14	Acetophenone	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 98-86-2.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
15	Hexachloroethane	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 67-72-1.SEC			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
16	N-Nitroso-di-n-propylamine	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 621-64-7.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
17	4-Methylphenol (p-cresol)	500.0	µg/mL	+/-	2.9138	µg/mL	Gravimetric
	CAS # 106-44-5.SEC			+/-	4.4023	µg/mL	Unstressed
	Purity 99%			+/-	8.6966	µg/mL	Stressed
18	3-Methylphenol (m-cresol)	500.0	µg/mL	+/-	2.9138	µg/mL	Gravimetric
	CAS # 108-39-4.SEC			+/-	4.4023	µg/mL	Unstressed
	Purity 99%			+/-	8.6966	µg/mL	Stressed
19	n-Decane (C10)	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 124-18-5.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
20	n-Octadecane (C18)	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 593-45-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
21	Nitrobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 98-95-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
22	Isophorone	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 78-59-1.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
23	2-Nitrophenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 88-75-5.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
24	2,4-Dimethylphenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 105-67-9.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
25	Bis(2-chloroethoxy)methane	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 111-91-1			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
26	2,4-Dichlorophenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 120-83-2.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
27	1,2,4-Trichlorobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 120-82-1.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
28	Naphthalene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 91-20-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed

29	4-Chloroaniline	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 106-47-8.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
30	Hexachlorobutadiene	1,000.0	µg/mL	+/-	5.8139	µg/mL	Gravimetric
	CAS # 87-68-3.SEC			+/-	8.7954	µg/mL	Unstressed
	Purity 97%			+/-	17.3881	µg/mL	Stressed
31	2-Methylnaphthalene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 91-57-6.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
32	4-Chloro-3-methylphenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 59-50-7.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
33	1-Methylnaphthalene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 90-12-0.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
34	1,2,4,5-Tetrachlorobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 95-94-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
35	Hexachlorocyclopentadiene	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 77-47-4.SEC			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
36	2,4,6-Trichlorophenol	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 88-06-2.SEC			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
37	2,4,5-Trichlorophenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 95-95-4.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
38	2-Chloronaphthalene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 91-58-7.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
39	Biphenyl	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 92-52-4.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
40	2-Nitroaniline	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 88-74-4.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
41	Acenaphthylene	1,000.0	µg/mL	+/-	5.8139	µg/mL	Gravimetric
	CAS # 208-96-8.SEC			+/-	8.7954	µg/mL	Unstressed
	Purity 97%			+/-	17.3881	µg/mL	Stressed
42	1,3-Dinitrobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 99-65-0.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
43	Dimethylphthalate	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 131-11-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
44	2,6-Dinitrotoluene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 606-20-2.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
45	Acenaphthene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 83-32-9.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
46	3-Nitroaniline	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 99-09-2.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
47	2,4-Dinitrophenol	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 51-28-5.SEC			+/-	17.5913	µg/mL	Unstressed
	Purity 99%			+/-	34.7772	µg/mL	Stressed

BNA List 1 Std 2 00001
Rec 4/5/13
JLS

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567673 **Lot No.:** A093755

Description : 8270 List 1 / Std #2 Amines

8270 List 1 / Std #2 Amines 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : August 2014 **Storage:** 10°C or colder

Handling: Contains carcinogen

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	epsilon-Caprolactam	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 105-60-2		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed
2	Atrazine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 1912-24-9		+/- 17.5914	µg/mL	Unstressed
	Purity 98%		+/- 34.7774	µg/mL	Stressed
3	Benzidine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 92-87-5		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed
4	3,3'-Dichlorobenzidine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 91-94-1		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

RESTEK CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
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Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567673 **Lot No.:** A097020

Description : 8270 List 1 / Std #2 Amines

8270 List 1 / Std #2 Amines 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : January 31, 2015 **Storage:** 10°C or colder

Handling: Contains carcinogen

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)	
1	epsilon-Caprolactam	2,001.2 µg/mL	+/- 11.6351 µg/mL	Gravimetric
	CAS # 105-60-2 (Lot 10000218)		+/- 13.3830 µg/mL	Unstressed
	Purity 99%		+/- 32.8662 µg/mL	Stressed
2	Atrazine	2,003.0 µg/mL	+/- 11.6457 µg/mL	Gravimetric
	CAS # 1912-24-9 (Lot TZ8ED)		+/- 13.3952 µg/mL	Unstressed
	Purity 98%		+/- 32.8961 µg/mL	Stressed
3	Benzidine	2,005.0 µg/mL	+/- 11.6572 µg/mL	Gravimetric
	CAS # 92-87-5 (Lot 130627JLM)		+/- 13.4085 µg/mL	Unstressed
	Purity 99%		+/- 32.9286 µg/mL	Stressed
4	3,3'-Dichlorobenzidine	2,012.0 µg/mL	+/- 11.6979 µg/mL	Gravimetric
	CAS # 91-94-1 (Lot 130701JLM)		+/- 13.4553 µg/mL	Unstressed
	Purity 99%		+/- 33.0436 µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

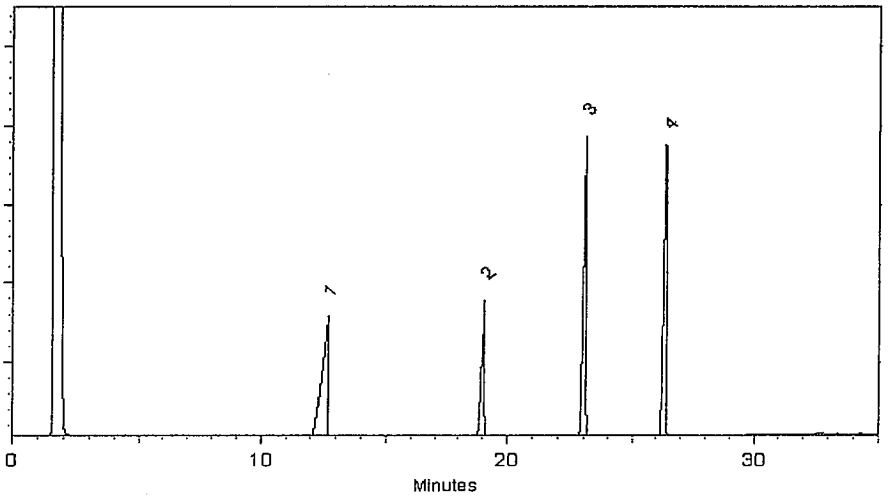
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Kendra Swope - Mix Technician

Date Mixed: 30-Jul-2013 **Balance:** 1128360905

Jodi E. Breon - QA Analyst

Date Passed: 12-Aug-2013

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567673.sec **Lot No.:** A093775

Description : 8270 List 1 / Std #2 Amines

8270 List 1 / Std #2 Amines 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : August 2014 **Storage:** 10°C or colder

Handling: Contains carcinogen

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	epsilon-Caprolactam	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 105-60-2.SEC		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed
2	Atrazine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 1912-24-9.SEC		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed
3	Benzidine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 92-87-5.SEC		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed
4	3,3'-Dichlorobenzidine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 91-94-1.SEC		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

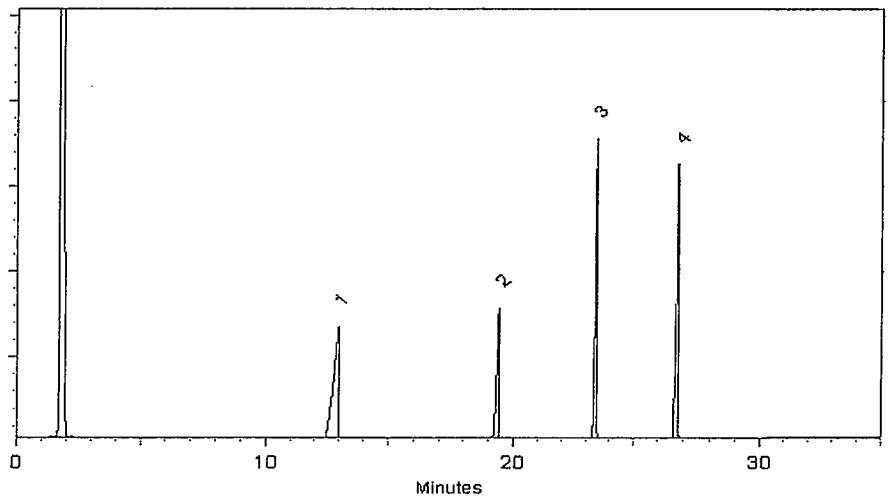
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 11-Mar-2013 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Rec 4/5/13
JLS

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Certificate #3222.02

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

Catalog No. : 567674 **Lot No.:** A093441

Description : 8270 List 1 / Std #3 Benzoic Acid

8270 List 1 / Std #3 Benzoic Acid 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : February 2016 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Benzoic acid	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 65-85-0		+/- 96.5249	µg/mL	Unstressed
	Purity 99%		+/- 96.6077	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

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854550
ID: BNA_List1Std3_00003
Exp:02/28/16 Prpd:JLS Opn:07/13/13
S_2000PPM_2ndSource_Benzo

JLS Rec 7/13/13

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

Catalog No. : 567674.sec **Lot No.:** A093654

Description : 8270 List 1 / Std #3 Benzoic Acid

8270 List 1 / Std #3 Benzoic Acid 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : February 2016 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Benzoic acid	2,000.0	µg/mL	+/- 11.6284	µg/mL	Gravimetric
	CAS # 65-85-0.SEC			+/- 96.5270	µg/mL	Unstressed
	Purity 97%			+/- 96.6098	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

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

Catalog No. : 567674.sec **Lot No.:** A093654

Description : 8270 List 1 / Std #3 Benzoic Acid

8270 List 1 / Std #3 Benzoic Acid 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : February 2016 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)		
1	Benzoic acid	2,000.0 µg/mL	+/- 11.6284	µg/mL	Gravimetric
	CAS # 65-85-0.SEC		+/- 96.5270	µg/mL	Unstressed
	Purity 97%		+/- 96.6098	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

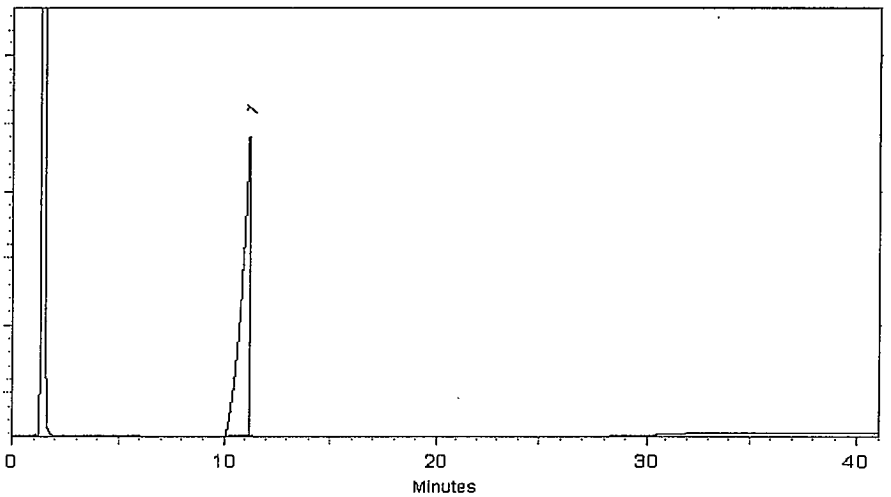
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 22-Feb-2013 Balance: 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567675 **Lot No.:** A093730

Description : 8270 List 1 / Std #4 Indene

8270 List 1 / Std #4 Indene 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : August 2014 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Indene	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 95-13-6		+/- 24.1076	µg/mL	Unstressed
	Purity 99%		+/- 27.2017	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

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

Catalog No. : 567675.sec **Lot No.:** A093668

Description : 8270 List 1 / Std #4 Indene

8270 List 1 / Std #4 Indene 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : August 2014 **Storage:** 10°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Indene	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 95-13-6.SEC		+/- 24.1076	µg/mL	Unstressed
	Purity 99%		+/- 27.2017	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

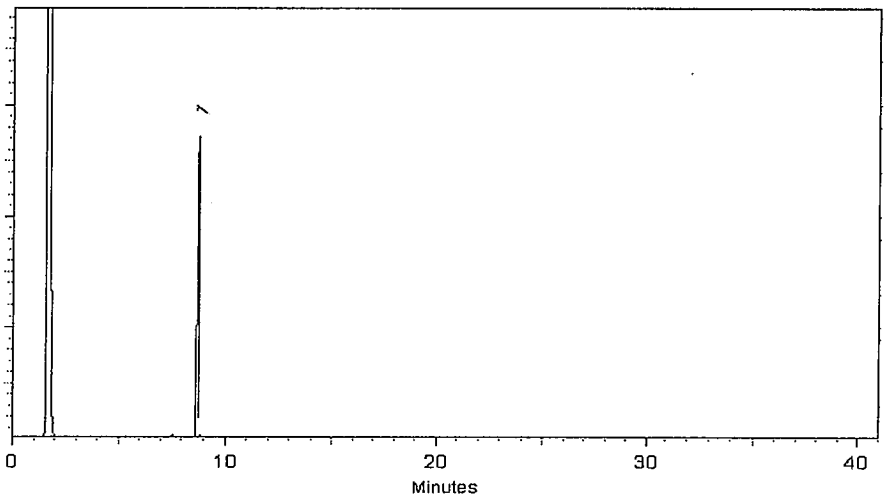
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 27-Feb-2013 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

BNA List 1 Std 5_00001
Rec 4/5/13
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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567676 **Lot No.:** A093442

Description : 8270 List 1 / Std #5 N-Nitrosodiphenylamine

8270 List 1 / Std #5 N-Nitrosodiphenylamine 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : February 2015 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	N-Nitrosodiphenylamine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 86-30-6		+/- 17.5914	µg/mL	Unstressed
	Purity 97%		+/- 34.7774	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567676 **Lot No.:** A093442

Description : 8270 List 1 / Std #5 N-Nitrosodiphenylamine

8270 List 1 / Std #5 N-Nitrosodiphenylamine 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : February 2015 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)	
1	N-Nitrosodiphenylamine	2,000.0 µg/mL	+/- 11.6282 µg/mL	Gravimetric
	CAS # 86-30-6		+/- 17.5914 µg/mL	Unstressed
	Purity 97%		+/- 34.7774 µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

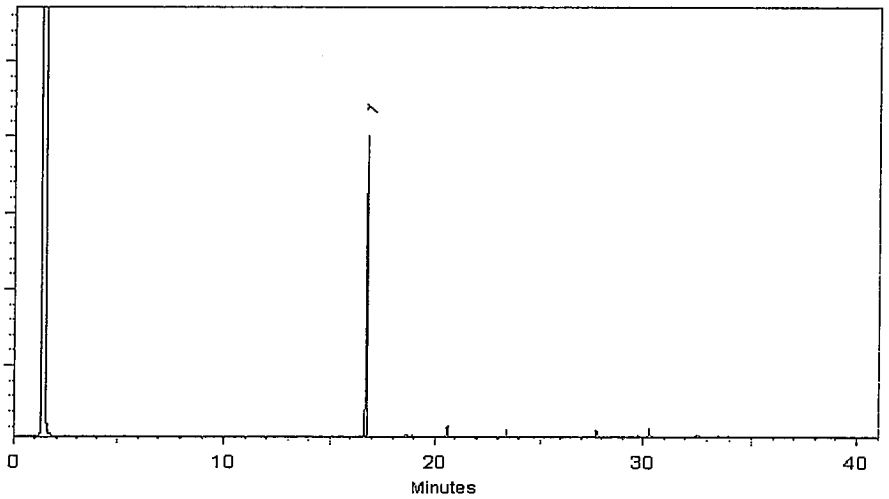
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 25-Feb-2013 Balance: 1128342313

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567676.sec **Lot No.:** A093671

Description : 8270 List 1 / Std #5 N-Nitrosodiphenylamine

8270 List 1 / Std #5 N-Nitrosodiphenylamine 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : February 2015 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	N-Nitrosodiphenylamine	1,999.9 µg/mL	+/- 11.6278	µg/mL	Gravimetric
	CAS # 86-30-6.SEC		+/- 17.5908	µg/mL	Unstressed
	Purity 95%		+/- 34.7762	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

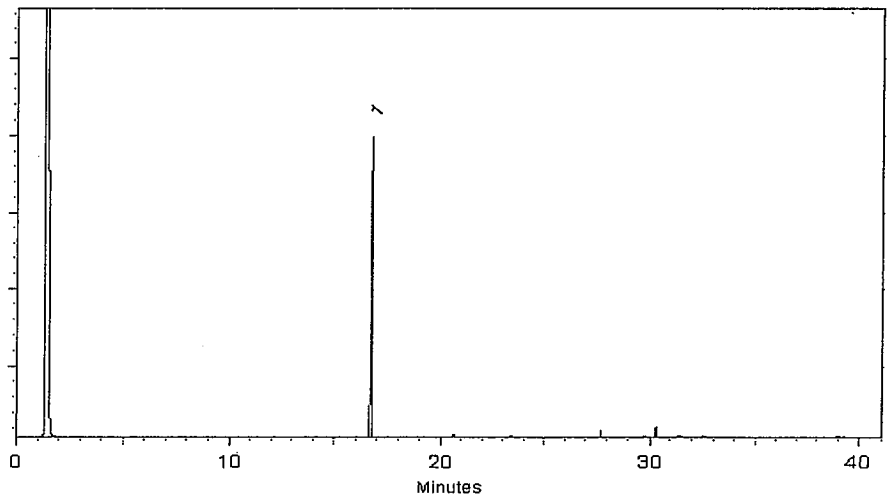
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 25-Feb-2013 Balance: 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

BNA_List1Std6-000001
Rec 4/5/13
JLS

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567677 **Lot No.:** A093445

Description : 8270 List 1 / Std #6 Benzaldehyde

8270 List 1 / Std #6 Benzaldehyde 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : August 2014 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Benzaldehyde	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 100-52-7		+/- 53.7239	µg/mL	Unstressed
	Purity 99%		+/- 66.9795	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

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Certificate of Analysis

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

Catalog No. : 567677 **Lot No.:** A093445

Description : 8270 List 1 / Std #6 Benzaldehyde

8270 List 1 / Std #6 Benzaldehyde 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : August 2014 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Benzaldehyde	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 100-52-7		+/- 53.7239	µg/mL	Unstressed
	Purity 99%		+/- 66.9795	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

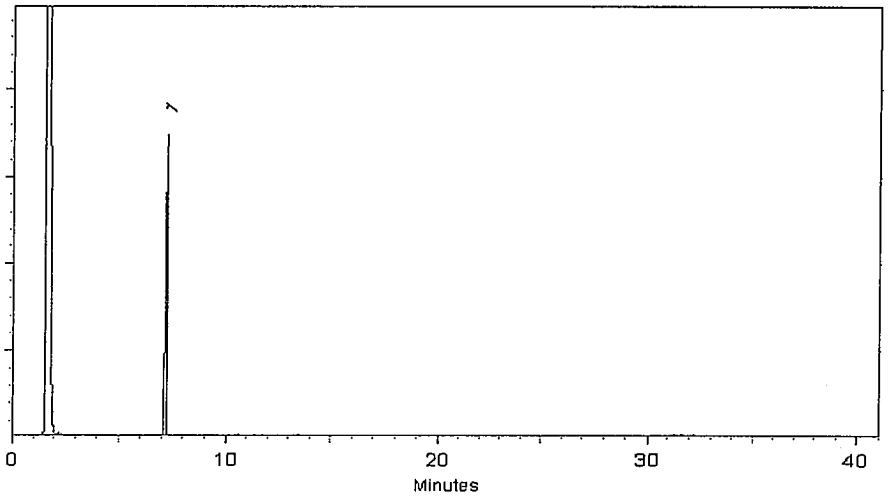
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 25-Feb-2013 Balance: 1128342313

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

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Catalog No. : 567677.sec **Lot No.:** A093656

Description : 8270 List 1 / Std #6 Benzaldehyde

8270 List 1 / Std #6 Benzaldehyde 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : August 2014 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)	
1	Benzaldehyde	2,000.0 µg/mL	+/- 11.6282 µg/mL	Gravimetric
	CAS # 100-52-7.SEC		+/- 53.7239 µg/mL	Unstressed
	Purity 99%		+/- 66.9795 µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

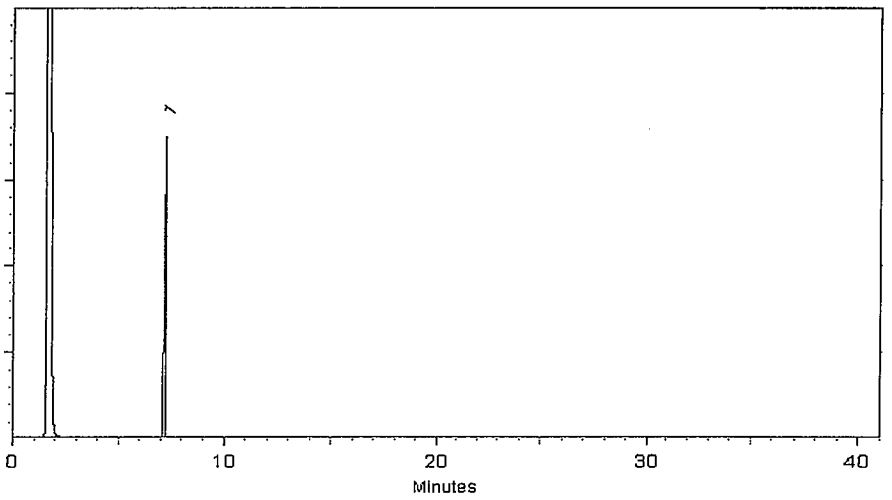
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 25-Feb-2013 Balance: 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\,stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\,stability} + U^2_{shipping\,stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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854605
ID: BNA_Surrogate_00002
Exp:02/28/18 Prpd:JLS Opn:07/13/13
S5000PPM BNA Surrogate ST

Rec 7/13/13
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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567685 **Lot No.:** A093638

Description : 8270 Surrogate Standard

8270 Surrogate Standard 5,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : February 2018 **Storage:** 10°C or colder

Handling: Sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol	5,000.0 µg/mL	+/- 29.0689 µg/mL	Gravimetric
	CAS # 367-12-4		+/- 132.9492 µg/mL	Unstressed
	Purity 99%		+/- 163.4029 µg/mL	Stressed
2	Phenol-d5	5,000.0 µg/mL	+/- 29.0689 µg/mL	Gravimetric
	CAS # 4165-62-2		+/- 132.9492 µg/mL	Unstressed
	Purity 99%		+/- 163.4029 µg/mL	Stressed
3	Nitrobenzene-d5	5,000.0 µg/mL	+/- 29.0689 µg/mL	Gravimetric
	CAS # 4165-60-0		+/- 132.9492 µg/mL	Unstressed
	Purity 99%		+/- 163.4029 µg/mL	Stressed
4	2-Fluorobiphenyl	5,000.0 µg/mL	+/- 29.0689 µg/mL	Gravimetric
	CAS # 321-60-8		+/- 132.9492 µg/mL	Unstressed
	Purity 99%		+/- 163.4029 µg/mL	Stressed
5	2,4,6-Tribromophenol	5,000.0 µg/mL	+/- 29.0689 µg/mL	Gravimetric
	CAS # 118-79-6		+/- 132.9492 µg/mL	Unstressed
	Purity 99%		+/- 163.4029 µg/mL	Stressed
6	p-Terphenyl-d14	5,000.0 µg/mL	+/- 29.0689 µg/mL	Gravimetric
	CAS # 1718-51-0		+/- 132.9492 µg/mL	Unstressed
	Purity 99%		+/- 163.4029 µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

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Certificate of Analysis

Custom Standard

Product Number: TAM-201 **Page:** 1 of 1

Lot Number: CK-2907 **Lot Issue Date:** 29-Aug-2013 **Expiration Date:** 30-Sep-2015

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
2-fluorobiphenyl	000321-60-8	RM06546	50.2 ± 0.3 µg/mL
nitrobenzene-d5	004165-60-0	RM01699	50.2 ± 0.3 µg/mL
p-terphenyl-d14	001718-51-0	RM06589	50.1 ± 0.3 µg/mL
2,4,6-tribromophenol	000118-79-6	RM01307	50.2 ± 0.3 µg/mL
2-fluorophenol	000367-12-4	RM03347	50.2 ± 0.3 µg/mL
phenol-d5	004165-62-2	RM06760	50.1 ± 0.3 µg/mL

Matrix: methanol/pH indicator (red-yellow 3.2-4.4)

Storage: Store at Room Temperature (15-30°C)

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ACCREDITED

ISO 17025 Accredited A2LA Cert. No. 0851-01

ISO 9001 Registered TUV USA, Inc. Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 401-295-2330
www.ultrasci.com

William J Leahy
Quality Assurance Manager

RESTEK

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Fax: (814)353-1309

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639985
ID: V1_2-CEVE_00002
Exp: 02/28/16 Prpd: JH
Primary 2-chloroethylviny

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567643 **Lot No.:** A093368

Description : 8260 List 1 / Std #4 2-Chloroethylvinyl Ether

8260 List 1 / Std #4 2-Chloroethylvinyl Ether 2,000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Chloroethyl vinyl ether	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 110-75-8		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed

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

Tech Tips:

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

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

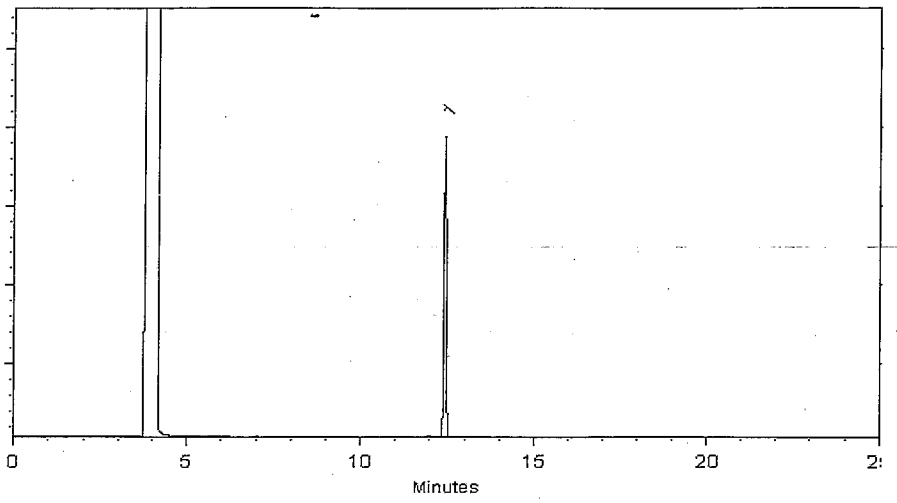
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 15-Feb-2013 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK CERTIFIED REFERENCE MATERIAL

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Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567644 **Lot No.:** A095604

Description : 8260 List 1 / Std # 5 Acrolein

8260 List 1 / Std # 5 Acrolein 5000 ug/ml, Water, 1 ml/ampul

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

Expiration Date : September 30, 2013 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	Acrolein		5,000.0	µg/mL	+/- 29.2761	µg/mL	Gravimetric
	CAS # 107-02-8	(Lot 130301JLM)			+/- 134.3543	µg/mL	Unstressed
	Purity 99%				+/- 167.4846	µg/mL	Stressed

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

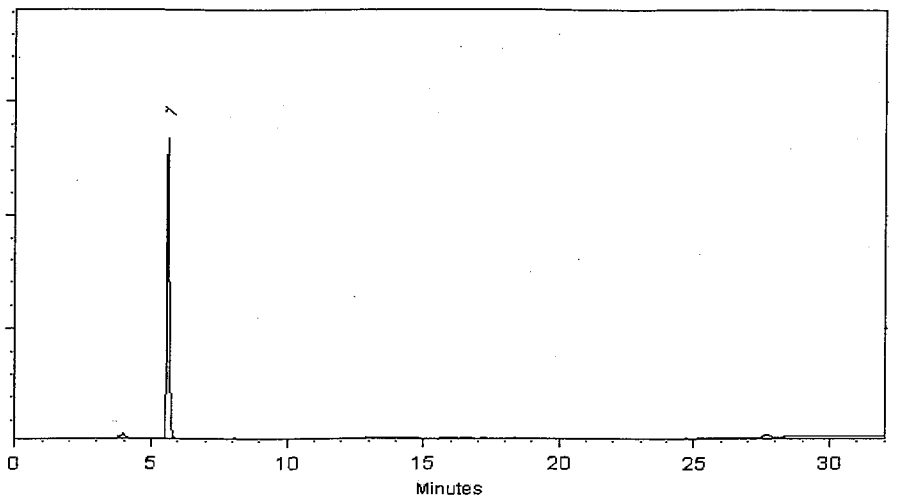
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

F. Joseph Fallon - Mix Technician

Date Mixed: 24-May-2013 **Balance:** B251644995

Jennifer L. Pollino - QC Analyst

Date Passed: 29-May-2013

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

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861513
ID: V1_cyclohxnon_00003
Exp: 02/28/16 Prpd: JPH
Primary cyclohexanone @ 2

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ISO/IEC 17025 Accredited
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Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567648 **Lot No.:** A093361

Description : 8260 List 2 / Std #3 Cyclohexanone

8260 List 2 / Std #3 Cyclohexanone 20,000 ug/ml, Water, 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Cyclohexanone	20,000.0 µg/mL	+/- 116.2756	µg/mL	Gravimetric
	CAS # 108-94-1		+/- 1,597.3791	µg/mL	Unstressed
	Purity 99%		+/- 1,598.1615	µg/mL	Stressed

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

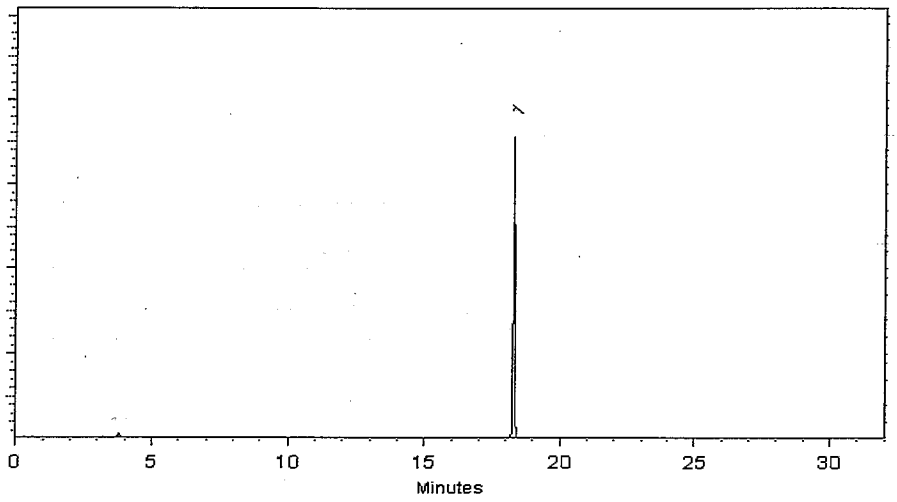
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 14-Feb-2013 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

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861418
ID: V1_Gases_00003
Exp: 02/28/15 Prpd: JPH
Primary Gases @ 2000ppm

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Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567645 **Lot No.:** A093341

Description : 8260 List 1 / Std #3 Gases

8260 List 1 / Std #3 Gases 2,000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)	2,000.0 µg/mL	+/- 13.8716	µg/mL	Gravimetric
	CAS # 75-71-8		+/- 25.2661	µg/mL	Unstressed
	Purity 99%		+/- 28.2336	µg/mL	Stressed
2	Chloromethane (methyl chloride)	1,999.8 µg/mL	+/- 13.9993	µg/mL	Gravimetric
	CAS # 74-87-3		+/- 25.3348	µg/mL	Unstressed
	Purity 99%		+/- 28.2945	µg/mL	Stressed
3	Vinyl chloride	2,000.1 µg/mL	+/- 13.9625	µg/mL	Gravimetric
	CAS # 75-01-4		+/- 25.3168	µg/mL	Unstressed
	Purity 99%		+/- 28.2792	µg/mL	Stressed
4	1,3-Butadiene	2,000.0 µg/mL	+/- 13.3773	µg/mL	Gravimetric
	CAS # 106-99-0		+/- 24.9981	µg/mL	Unstressed
	Purity 99%		+/- 27.9940	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,000.1 µg/mL	+/- 14.2856	µg/mL	Gravimetric
	CAS # 74-83-9		+/- 25.4963	µg/mL	Unstressed
	Purity 99%		+/- 28.4399	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,000.0 µg/mL	+/- 13.2200	µg/mL	Gravimetric
	CAS # 75-00-3		+/- 24.9143	µg/mL	Unstressed
	Purity 99%		+/- 27.9191	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,000.0 µg/mL	+/- 13.5174	µg/mL	Gravimetric
	CAS # 75-43-4		+/- 25.0735	µg/mL	Unstressed
	Purity 99%		+/- 28.0614	µg/mL	Stressed
8	Trichlorofluoromethane (CFC-11)	1,999.9 µg/mL	+/- 13.1170	µg/mL	Gravimetric
	CAS # 75-69-4		+/- 24.8590	µg/mL	Unstressed
	Purity 99%		+/- 27.8696	µg/mL	Stressed

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

Column:
60m x .25mm x 1.4um
Rtx-502.2 (cat.#10916)

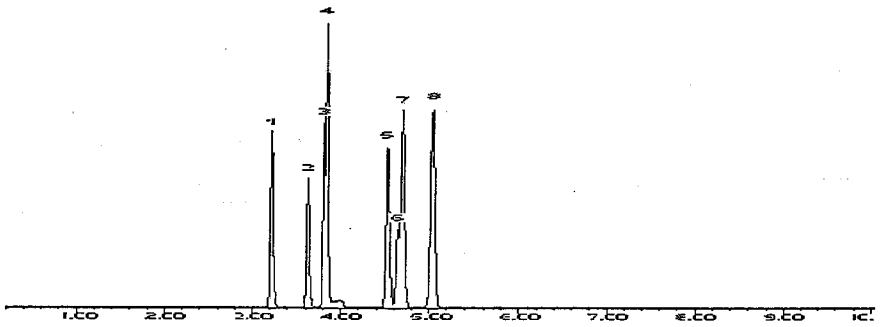
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



Jodi E. Breon
Jodi E. Breon - QA Analyst

Date Passed: 25-Feb-2013 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

RESTEK

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640590
ID: V1_Keytones_00002
Exp: 02/28/16 Prpd: JH
Primary Keytones @ 10000p

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Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567642 **Lot No.:** A093365

Description : 8260 List 1 / Std #2 Ketones

8260 List 1 / Std #2 Ketones 10,000 ug/ml, P&T Methanol/Water (90:10), 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 67-64-1		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
2	2-Butanone (MEK)	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 78-93-3		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 108-10-1		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
4	2-Hexanone	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 591-78-6		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

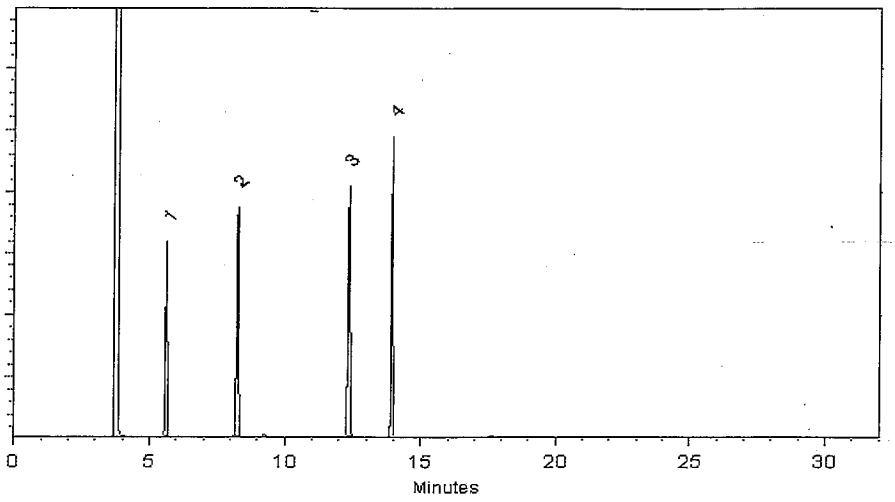
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 14-Feb-2013 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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861274
ID: V1_Keytones_00003
Exp: 02/28/16 Prpd: JPH
Primary Keytones @ 10000p

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ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567642 **Lot No.:** A093365

Description : 8260 List 1 / Std #2 Ketones

8260 List 1 / Std #2 Ketones 10,000 ug/ml, P&T Methanol/Water (90:10), 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	10,000.0 µg/mL	+/- 58.1378 µg/mL	Gravimetric
	CAS # 67-64-1		+/- 798.6896 µg/mL	Unstressed
	Purity 99%		+/- 799.0807 µg/mL	Stressed
2	2-Butanone (MEK)	10,000.0 µg/mL	+/- 58.1378 µg/mL	Gravimetric
	CAS # 78-93-3		+/- 798.6896 µg/mL	Unstressed
	Purity 99%		+/- 799.0807 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	10,000.0 µg/mL	+/- 58.1378 µg/mL	Gravimetric
	CAS # 108-10-1		+/- 798.6896 µg/mL	Unstressed
	Purity 99%		+/- 799.0807 µg/mL	Stressed
4	2-Hexanone	10,000.0 µg/mL	+/- 58.1378 µg/mL	Gravimetric
	CAS # 591-78-6		+/- 798.6896 µg/mL	Unstressed
	Purity 99%		+/- 799.0807 µg/mL	Stressed

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

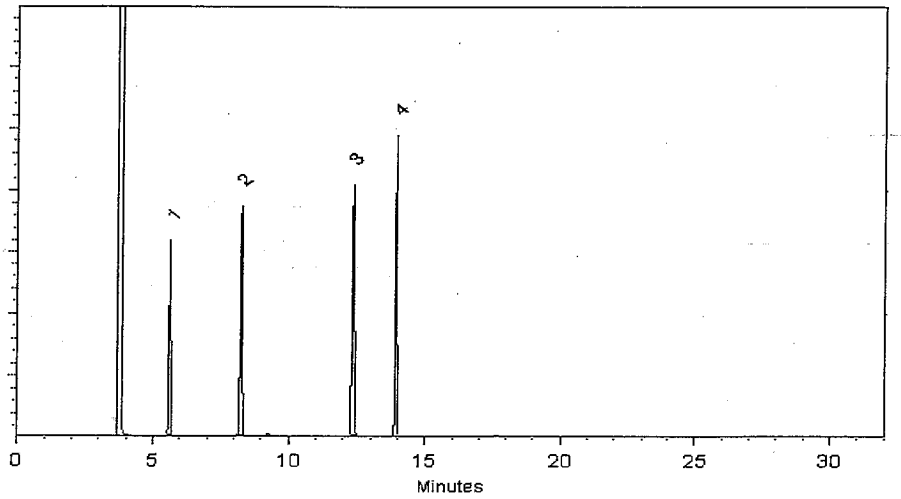
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 14-Feb-2013 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

RESTEK

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Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

842240
ID: V1_List 2_00002
Exp: 02/28/15 Prpd: JPH
Primary List2 @ 2000 ppm

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567719 **Lot No.:** A093359

Description : 8260 List 2 / Std #2

8260 List 2 / Std #2 2,000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Pentachloroethane	2,000.0 µg/mL	+/- 11.6550	µg/mL	Gravimetric
	CAS # 76-01-7		+/- 24.1205	µg/mL	Unstressed
	Purity 99%		+/- 27.2132	µg/mL	Stressed
2	2-Methylnaphthalene	1,999.9 µg/mL	+/- 11.6546	µg/mL	Gravimetric
	CAS # 91-57-6		+/- 24.1196	µg/mL	Unstressed
	Purity 96%		+/- 27.2121	µg/mL	Stressed

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

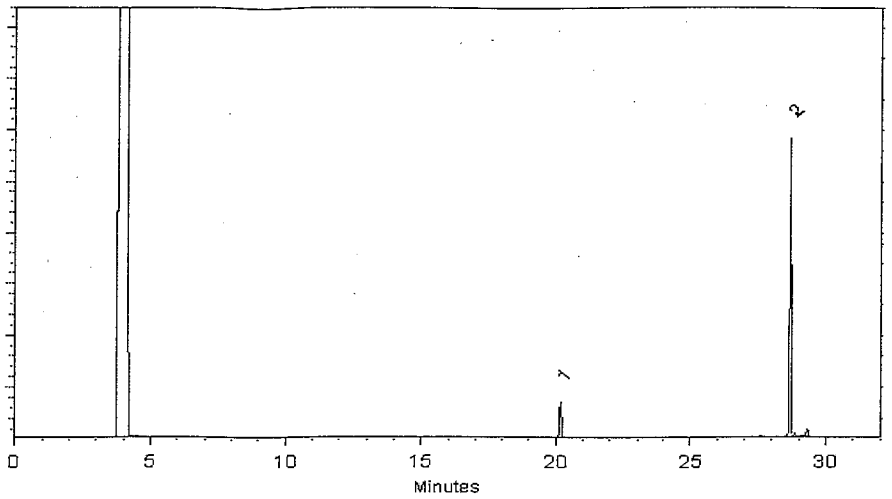
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 28-Feb-2013 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

861133
ID: V1_Megamix_00004
Exp: 02/28/16 Prpd: JPH
Primary Megamix @ 2000 pp

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567641 **Lot No.:** A093581

Description : 8260 List 1 / Std #1 MegaMix

8260 List 1 / Std #1 MegaMix 1000-50,000 µg/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Diethyl ether (ethyl ether)	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 60-29-7		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113)	1,999.9 µg/mL	+/- 11.6279	µg/mL	Gravimetric
	CAS # 76-13-1		+/- 44.2519	µg/mL	Unstressed
	Purity 97%		+/- 44.4323	µg/mL	Stressed
3	1,1-dichloroethene	2,000.0 µg/mL	+/- 11.6281	µg/mL	Gravimetric
	CAS # 75-35-4		+/- 44.2527	µg/mL	Unstressed
	Purity 98%		+/- 44.4331	µg/mL	Stressed
4	tert-Butanol (TBA)	20,000.0 µg/mL	+/- 116.2756	µg/mL	Gravimetric
	CAS # 75-65-0		+/- 442.5291	µg/mL	Unstressed
	Purity 99%		+/- 444.3332	µg/mL	Stressed
5	Iodomethane (methyl iodide)	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 74-88-4		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed
6	Allyl chloride (3-chloropropene)	2,000.0 µg/mL	+/- 11.6281	µg/mL	Gravimetric
	CAS # 107-05-1		+/- 44.2527	µg/mL	Unstressed
	Purity 98%		+/- 44.4331	µg/mL	Stressed
7	Methyl acetate	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 79-20-9		+/- 221.2646	µg/mL	Unstressed
	Purity 99%		+/- 222.1666	µg/mL	Stressed
8	Carbon disulfide	2,000.0 µg/mL	+/- 11.6281	µg/mL	Gravimetric
	CAS # 75-15-0		+/- 44.2527	µg/mL	Unstressed
	Purity 98%		+/- 44.4331	µg/mL	Stressed
9	Methylene chloride (dichloromethane)	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 75-09-2		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed

10	Acrylonitrile	20,000.0	µg/mL	+/-	116.2756	µg/mL	Gravimetric
	CAS # 107-13-1			+/-	442.5291	µg/mL	Unstressed
	Purity 99%			+/-	444.3332	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 1634-04-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
12	cis-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-59-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
13	n-Hexane (C6)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 110-54-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
14	1,1-Dichloroethane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 75-34-3			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
15	2,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 594-20-7			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
16	trans-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-60-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
17	chloroform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 67-66-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
18	Isobutanol (2-Methyl-1-propanol)	50,000.0	µg/mL	+/-	290.6891	µg/mL	Gravimetric
	CAS # 78-83-1			+/-	1,106.3228	µg/mL	Unstressed
	Purity 99%			+/-	1,110.8331	µg/mL	Stressed
19	Bromochloromethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-97-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
20	Tetrahydrofuran	4,000.0	µg/mL	+/-	23.2563	µg/mL	Gravimetric
	CAS # 109-99-9			+/-	88.5061	µg/mL	Unstressed
	Purity 99%			+/-	88.8670	µg/mL	Stressed
21	1,1,1-trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-55-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
22	Cyclohexane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 110-82-7			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
23	1,1-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 563-58-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
24	carbon tetrachloride	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 56-23-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
25	n-Heptane (C7)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-82-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
26	Benzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-43-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
27	1,2-Dichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 107-06-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
28	Trichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-01-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

29	Methylcyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-87-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
30	1,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 78-87-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
31	1,4-Dioxane	40,000.0	µg/mL	+/-	232.5513	µg/mL	Gravimetric
	CAS # 123-91-1			+/-	885.0582	µg/mL	Unstressed
	Purity 99%			+/-	888.6665	µg/mL	Stressed
32	Dibromomethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-95-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
33	bromodichloromethane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 75-27-4			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
34	cis-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 10061-01-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
35	Toluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-88-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
36	Ethyl methacrylate	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 97-63-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
37	trans-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 10061-02-6			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
38	1,1,2-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-00-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
39	1,3-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-28-9			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
40	Tetrachloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 127-18-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
41	dibromochloromethane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 124-48-1			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
42	1,2-Dibromoethane (EDB)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-93-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
43	Chlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-90-7			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
44	1,1,1,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 630-20-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
45	m-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 108-38-3			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
46	p-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 106-42-3			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
47	o-Xylene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-47-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

48	Ethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-41-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
49	Styrene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-42-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
50	Isopropylbenzene (cumene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-82-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
51	bromoform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-25-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-34-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
53	1,2,3-Trichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 96-18-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
54	trans-1,4-dichloro-2-butene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 110-57-6			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
55	n-Propylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 103-65-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
56	Bromobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-86-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
57	1,3,5-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-67-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
58	2-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-49-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
59	4-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-43-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
60	tert-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-06-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
61	1,2,4-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 95-63-6			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
62	sec-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 135-98-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
63	4-Isopropyltoluene (p-Cymene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 99-87-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
64	1,3-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 541-73-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
65	1,4-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-46-7			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
66	n-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 104-51-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

67	1,2-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-50-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 96-12-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
69	1,2,4-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 120-82-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
70	Hexachlorobutadiene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 87-68-3			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
71	Naphthalene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 91-20-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
72	1,2,3-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 87-61-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

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

Column:
60m x .25mm x 1.4um
Rtx-502.2 (cat.#10916)

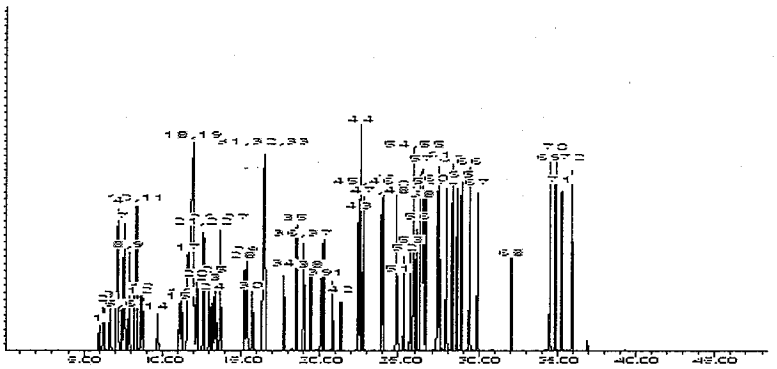
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



Jennifer L. Pollino - QC Analyst

Date Passed: 01-Mar-2013 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

RESTEK CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

861448
ID: V1_vnl acetat_00003
Exp: 12/31/13 Prpd: JPH
Primary Vinyl Acetate @ 4

Catalog No. : 567646 **Lot No.:** A096198

Description : 8260 List 1 / Std #6 Vinyl Acetate

8260 List 1 / Std #6 Vinyl Acetate 4000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : December 31, 2013 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Vinyl acetate	4,000.0 µg/mL	+/- 23.2563 µg/mL	Gravimetric
	CAS # 108-05-4 (Lot STBC7746V)		+/- 319.4759 µg/mL	Unstressed
	Purity 99%		+/- 319.6324 µg/mL	Stressed

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

Tech Tips:

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

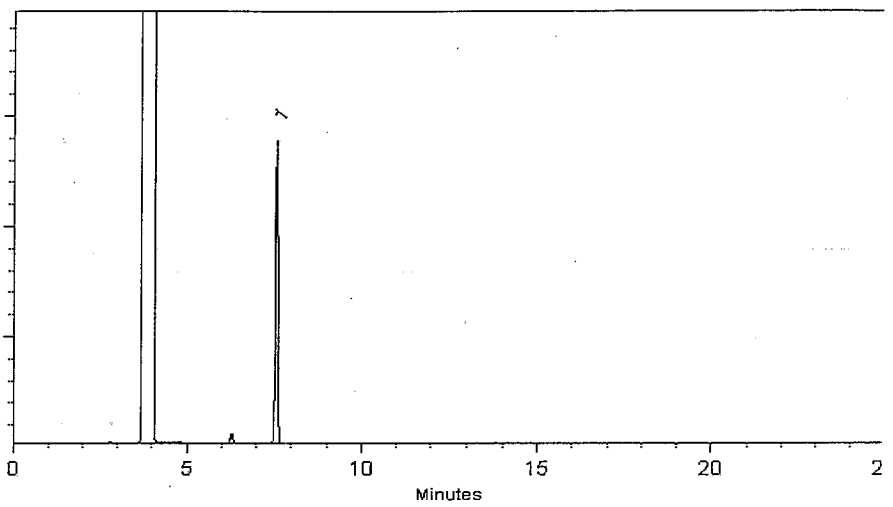
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

F. Joseph Fallon - Mix Technician

Date Mixed: 24-Jun-2013 **Balance:** B251644995

Diane Shaffer - QA Analyst

Date Passed: 25-Jun-2013

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

899313
ID: V2_Gases_00003
Exp: 02/28/15 Prpd: JPH
Secondary Gases @ 2000pp

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567645.sec **Lot No.:** A093618

Description : 8260 List 1 / Std #3 Gases

8260 List 1 / Std #3 Gases 2,000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12)	2,001.8 µg/mL	+/- 11.3948 µg/mL	Gravimetric
	CAS # 75-71-8.SEC		+/- 24.0125 µg/mL	Unstressed
	Purity 99%		+/- 27.1228 µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,000.6 µg/mL	+/- 11.1434 µg/mL	Gravimetric
	CAS # 74-87-3.SEC		+/- 23.8835 µg/mL	Unstressed
	Purity 99%		+/- 27.0052 µg/mL	Stressed
3	Vinyl chloride	1,996.5 µg/mL	+/- 13.5847 µg/mL	Gravimetric
	CAS # 75-01-4.SEC		+/- 25.0789 µg/mL	Unstressed
	Purity 99%		+/- 28.0563 µg/mL	Stressed
4	1,3-Butadiene	2,003.5 µg/mL	+/- 10.3715 µg/mL	Gravimetric
	CAS # 106-99-0.SEC		+/- 23.5601 µg/mL	Unstressed
	Purity 99%		+/- 26.7280 µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,001.5 µg/mL	+/- 12.1569 µg/mL	Gravimetric
	CAS # 74-83-9.SEC		+/- 24.3811 µg/mL	Unstressed
	Purity 99%		+/- 27.4489 µg/mL	Stressed
6	Chloroethane (ethyl chloride)	1,997.2 µg/mL	+/- 13.6408 µg/mL	Gravimetric
	CAS # 75-00-3.SEC		+/- 25.1155 µg/mL	Unstressed
	Purity 99%		+/- 28.0910 µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,004.9 µg/mL	+/- 12.2390 µg/mL	Gravimetric
	CAS # 75-43-4.SEC		+/- 24.4529 µg/mL	Unstressed
	Purity 99%		+/- 27.5224 µg/mL	Stressed
8	Trichlorofluoromethane (CFC-11)	2,001.9 µg/mL	+/- 16.1788 µg/mL	Gravimetric
	CAS # 75-69-4.SEC		+/- 26.6190 µg/mL	Unstressed
	Purity 99%		+/- 29.4557 µg/mL	Stressed

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

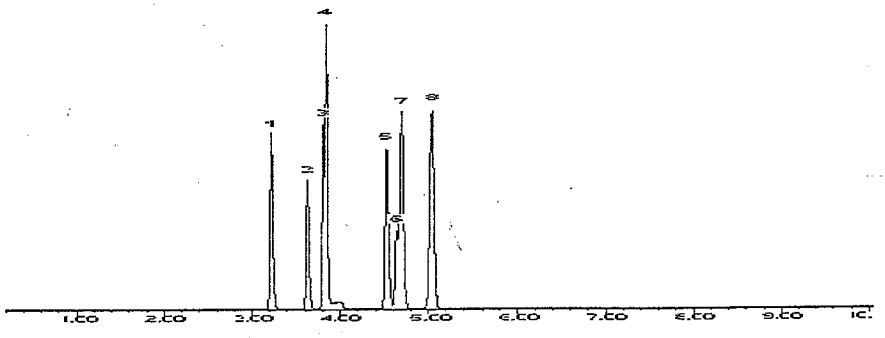
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Jodi E. Breon
Jodi E. Breon - QA Analyst

Date Passed: 25-Feb-2013 **Balance:** 1125113331

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
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648812
ID: V2_Keytones_00001
Exp: 02/28/16 Prpd: JH
Secondary Keytones @ 1000

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ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Composition

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567642.sec **Lot No.:** A093472

Description : 8260 List 1 / Std #2 Ketones

8260/624 Ketones Standard 10,000 ug/ml, P&T Methanol/Water (90:10), 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone	10,000.0 µg/mL	+/- 58.1409	µg/mL	Gravimetric
	CAS # 67-64-1.SEC		+/- 798.6898	µg/mL	Unstressed
	Purity 99%		+/- 799.0809	µg/mL	Stressed
2	2-Butanone (MEK)	10,000.0 µg/mL	+/- 58.1409	µg/mL	Gravimetric
	CAS # 78-93-3.SEC		+/- 798.6898	µg/mL	Unstressed
	Purity 99%		+/- 799.0809	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	10,000.0 µg/mL	+/- 58.1409	µg/mL	Gravimetric
	CAS # 108-10-1.SEC		+/- 798.6898	µg/mL	Unstressed
	Purity 99%		+/- 799.0809	µg/mL	Stressed
4	2-Hexanone	10,000.0 µg/mL	+/- 58.1409	µg/mL	Gravimetric
	CAS # 591-78-6.SEC		+/- 798.6898	µg/mL	Unstressed
	Purity 99%		+/- 799.0809	µg/mL	Stressed

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

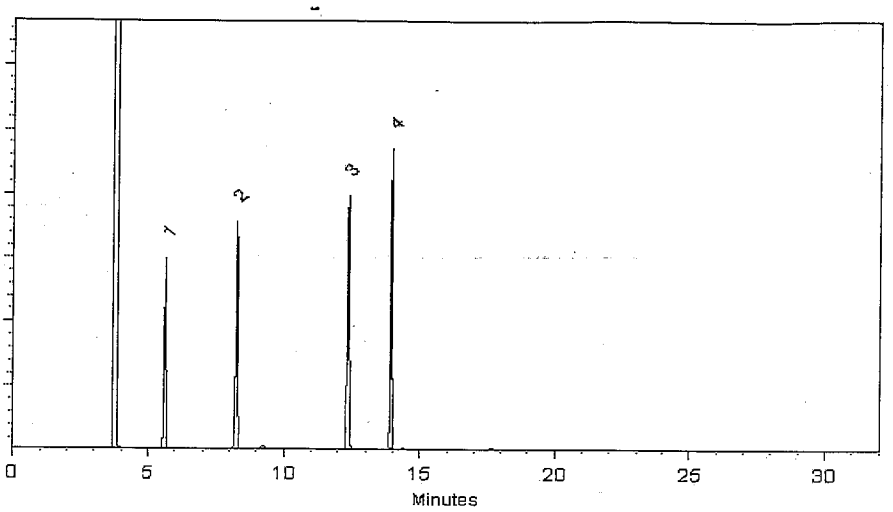
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 14-Feb-2013 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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649510
ID: V2_Megamix_00001
Exp: 02/28/16 Prpd: JH
Secondary Megamix @ 2000

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ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567641.sec **Lot No.:** A093733

Description : 8260 List 1 / Std #1 MegaMix

8260 List 1 / Std #1 MegaMix 1,000-50,000 µg/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Diethyl ether (ethyl ether)	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 60-29-7.SEC		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113)	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 76-13-1.SEC		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed
3	1,1-Dichloroethene	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 75-35-4.SEC		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed
4	tert-Butanol (TBA)	20,000.0 µg/mL	+/- 116.2756	µg/mL	Gravimetric
	CAS # 75-65-0.SEC		+/- 442.5291	µg/mL	Unstressed
	Purity 99%		+/- 444.3332	µg/mL	Stressed
5	Iodomethane (methyl iodide)	2,000.0 µg/mL	+/- 11.6284	µg/mL	Gravimetric
	CAS # 74-88-4.SEC		+/- 44.2540	µg/mL	Unstressed
	Purity 97%		+/- 44.4344	µg/mL	Stressed
6	Allyl chloride (3-chloropropene)	2,000.0 µg/mL	+/- 11.6281	µg/mL	Gravimetric
	CAS # 107-05-1.SEC		+/- 44.2527	µg/mL	Unstressed
	Purity 98%		+/- 44.4331	µg/mL	Stressed
7	Methyl acetate	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 79-20-9.SEC		+/- 221.2646	µg/mL	Unstressed
	Purity 99%		+/- 222.1666	µg/mL	Stressed
8	Carbon disulfide	2,000.0 µg/mL	+/- 11.6281	µg/mL	Gravimetric
	CAS # 75-15-0.SEC		+/- 44.2527	µg/mL	Unstressed
	Purity 98%		+/- 44.4331	µg/mL	Stressed
9	Methylene chloride (dichloromethane)	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 75-09-2.SEC		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed

10	Acrylonitrile	20,000.0	µg/mL	+/-	116.2756	µg/mL	Gravimetric
	CAS # 107-13-1.SEC			+/-	442.5291	µg/mL	Unstressed
	Purity 99%			+/-	444.3332	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
12	cis-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-59-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
13	n-Hexane (C6)	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 110-54-3.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed
14	1,1-Dichloroethane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 75-34-3.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
15	2,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 594-20-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
16	trans-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 156-60-5.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
17	Chloroform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 67-66-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
18	Isobutanol (2-Methyl-1-propanol)	50,000.0	µg/mL	+/-	290.6891	µg/mL	Gravimetric
	CAS # 78-83-1.SEC			+/-	1,106.3228	µg/mL	Unstressed
	Purity 99%			+/-	1,110.8331	µg/mL	Stressed
19	Bromochloromethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-97-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
20	Tetrahydrofuran	4,000.0	µg/mL	+/-	23.2563	µg/mL	Gravimetric
	CAS # 109-99-9.SEC			+/-	88.5061	µg/mL	Unstressed
	Purity 99%			+/-	88.8670	µg/mL	Stressed
21	1,1,1-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-55-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
22	Cyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 110-82-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
23	1,1-Dichloropropene	2,010.5	µg/mL	+/-	11.6890	µg/mL	Gravimetric
	CAS # 563-58-6.SEC			+/-	44.4847	µg/mL	Unstressed
	Purity 98%			+/-	44.6661	µg/mL	Stressed
24	Carbon tetrachloride	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 56-23-5.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed
25	n-Heptane (C7)	2,000.1	µg/mL	+/-	11.6288	µg/mL	Gravimetric
	CAS # 142-82-5.SEC			+/-	44.2553	µg/mL	Unstressed
	Purity 99%			+/-	44.4357	µg/mL	Stressed
26	Benzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-43-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
27	1,2-Dichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 107-06-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
28	Trichloroethene	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 79-01-6.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed

29	Methylcyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-87-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
30	1,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 78-87-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
31	1,4-Dioxane	40,000.0	µg/mL	+/-	232.5513	µg/mL	Gravimetric
	CAS # 123-91-1.SEC			+/-	885.0582	µg/mL	Unstressed
	Purity 99%			+/-	888.6665	µg/mL	Stressed
32	Dibromomethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-95-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
33	Bromodichloromethane	2,000.1	µg/mL	+/-	11.6290	µg/mL	Gravimetric
	CAS # 75-27-4.SEC			+/-	44.2562	µg/mL	Unstressed
	Purity 97%			+/-	44.4366	µg/mL	Stressed
34	cis-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
35	Toluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-88-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
36	Ethyl methacrylate	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 97-63-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
37	trans-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
38	1,1,2-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-00-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
39	1,3-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-28-9.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
40	Tetrachloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 127-18-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
41	Dibromochloromethane	2,000.1	µg/mL	+/-	11.6290	µg/mL	Gravimetric
	CAS # 124-48-1.SEC			+/-	44.2562	µg/mL	Unstressed
	Purity 97%			+/-	44.4366	µg/mL	Stressed
42	1,2-Dibromoethane (EDB)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-93-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
43	Chlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-90-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
44	1,1,1,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 630-20-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
45	m-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 108-38-3.SEC			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
46	p-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 106-42-3.SEC			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
47	o-Xylene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-47-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

48	Ethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-41-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
49	Styrene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-42-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
50	Isopropylbenzene (cumene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-82-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
51	Bromoform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-25-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-34-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
53	1,2,3-Trichloropropane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 96-18-4.SEC			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
54	trans-1,4-Dichloro-2-butene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 110-57-6.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
55	n-Propylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 103-65-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
56	Bromobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-86-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
57	1,3,5-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-67-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
58	2-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-49-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
59	4-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-43-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
60	tert-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-06-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
61	1,2,4-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-63-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
62	sec-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 135-98-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
63	4-Isopropyltoluene (p-cymene)	2,000.1	µg/mL	+/-	11.6285	µg/mL	Gravimetric
	CAS # 99-87-6.SEC			+/-	44.2545	µg/mL	Unstressed
	Purity 96%			+/-	44.4349	µg/mL	Stressed
64	1,3-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 541-73-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
65	1,4-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-46-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
66	n-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 104-51-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

67	1,2-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-50-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 96-12-8.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
69	1,2,4-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 120-82-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
70	Hexachlorobutadiene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 87-68-3.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
71	Naphthalene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 91-20-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
72	1,2,3-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 87-61-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

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

Column:
60m x .25mm x 1.4um
Rtx-502.2 (cat.#10916)

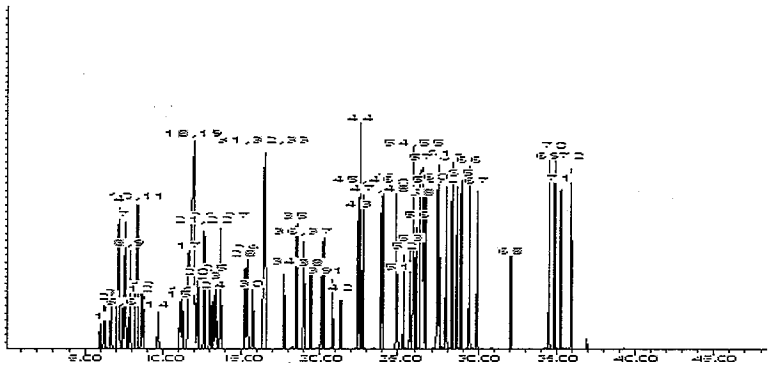
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



Jennifer L. Poilino - QC Analyst

Date Passed: 01-Mar-2013 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended-storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

NV02082

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.Restek.com

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 31283 **Lot No.:** A084039

Description : 1-Methylnaphthalene Standard

SV Mix, 1-methylnaphthalene, 1,000µg/ml, Methanol, 1ml/ampule

Container Size : [5] 2 mL **Pkg Amt:** [5] > 1 mL

Expiration Date : [1] October 2018 **Storage:** 25°C nominal

Handling: Sonicate prior to use.

Elution Order	Compound	CAS #	Percent Purity [2]	Grav. Conc. (weight/volume) [3]	Grav.Uncert. (95% C.L.; K=2) [4]
1	1-Methylnaphthalene	90-12-0	99%	1,000.0 ug/mL	+/- 5.8686 ug/mL
Solvent:	Methanol	67-56-1	99%		

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

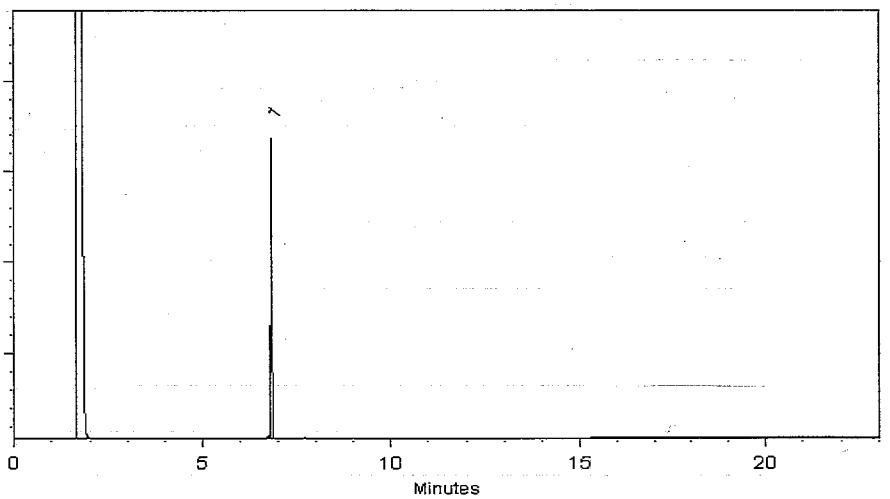
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 5 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

573199
ID: VOA_IS Mix_S_00004
Exp: 03/31/14 Prpd: JH
Internal Standard Mix at

Custom Standard

Product Number: TAM-104 **Page:** 1 of 1

Lot Number: CJ-0470 **Lot Issue Date:** 14-Feb-2012 **Expiration Date:** 31-Mar-2014

This Certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
fluorobenzene	000462-06-6	RM03366-01	2513 ± 13 µg/mL
chlorobenzene-d5	003114-55-4	RM01430-04	2512 ± 13 µg/mL
1,4-dichlorobenzene-d4	003855-82-1	RM01700-02	2507 ± 13 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at Room Temperature (18-25° C)

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

A2LA ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0851-01
ISO 9001:2008 Registered TUV USA, Inc. Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
wwww.ultrasci.com

William J. Leary
Quality Assurance Manager

11/21/2013

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

573188
ID: VOA_SS Mix_S_00003
Exp: 09/30/14 Prpd: JH
Surrogate Standard Mix at

Custom Standard

Product Number: TAM-100 **Page:** 1 of 1

Lot Number: CJ-3029 **Lot Issue Date:** 06-Aug-2012 **Expiration Date:** 30-Sep-2014

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
4-bromofluorobenzene	000460-00-4	RM03365	2509 ± 13 µg/mL
dibromofluoromethane	001868-53-7	RM04871	2511 ± 13 µg/mL
1,2-dichloroethane-d4	017060-07-0	RM05260	2506 ± 13 µg/mL
toluene-d8	002037-26-5	RM01741	2507 ± 13 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ACCREDITED

ISO 17025 Accredited A2LA Cert. No. 0851-01

ISO 9001 Registered TUV USA, Inc. Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 401-295-2330
www.ultrasci.com

William J. Leary
Quality Assurance Manager

11/21/2013

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39686-2

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	Alaska (UST)	State Program	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas DEQ	State Program	6	88-0737
TestAmerica Nashville	California	NELAP	9	1168CA
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAP	4	E87358
TestAmerica Nashville	Illinois	NELAP	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAP	7	E-10229
TestAmerica Nashville	Kentucky (UST)	State Program	4	19
TestAmerica Nashville	Louisiana	NELAP	6	30613
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAP	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana (UST)	State Program	8	NA
TestAmerica Nashville	Nevada	State Program	9	TN00032
TestAmerica Nashville	New Hampshire	NELAP	1	2963
TestAmerica Nashville	New Jersey	NELAP	2	TN965
TestAmerica Nashville	New York	NELAP	2	11342
TestAmerica Nashville	North Carolina DENR	State Program	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio VAP	State Program	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAP	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAP	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009 (001)
TestAmerica Nashville	South Carolina	State Program	4	84009 (002)
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAP	6	T104704077-09-TX
TestAmerica Nashville	USDA	Federal		S-48469
TestAmerica Nashville	Utah	NELAP	8	TN00032
TestAmerica Nashville	Virginia	NELAP	3	460152
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia DEP	State Program	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430
TestAmerica Nashville	Wyoming (UST)	A2LA	8	453.07

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260B

Volatile Organic Compounds (GC/MS) by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
MW-04B-GW-001	490-39686-1	109	96	92	96
MW-04B-GW-002	490-39686-2	110	92	95	98
MW-08-GW-001	490-39686-3	110	94	94	95
MW-09-GW-001	490-39686-5	108	94	91	97
Trip Blank	490-39686-7	107	96	92	100
	MB 490-122545/5	106	93	92	94
	LCS 490-122545/3	107	88	90	97
	490-39934-B-3 MS	106	89	92	94
	490-39934-C-3 MSD	103	87	95	98

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 11161304.D

Lab ID: LCS 490-122545/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	100	80.86	81	54-145	
Benzene	20.0	19.23	96	80-121	
Bromochloromethane	20.0	21.56	108	78-129	
Bromodichloromethane	20.0	22.26	111	75-129	
Bromoform	20.0	21.82	109	46-145	
Bromomethane	20.0	27.12	136	41-150	
2-Butanone (MEK)	100	87.08	87	62-133	
Carbon disulfide	20.0	18.61	93	77-126	
Carbon tetrachloride	20.0	21.78	109	64-147	
Chlorobenzene	20.0	18.51	93	80-120	
Chlorodibromomethane	20.0	19.43	97	69-133	
Chloroethane	20.0	19.74	99	72-120	
Chloroform	20.0	18.91	95	73-129	
Chloromethane	20.0	19.45	97	12-150	
cis-1,2-Dichloroethene	20.0	19.77	99	76-125	
cis-1,3-Dichloropropene	20.0	18.96	95	74-140	
Cyclohexane	20.0	17.61	88	73-122	
1,2-Dibromo-3-Chloropropane	20.0	22.26	111	54-125	
1,2-Dibromoethane (EDB)	20.0	18.38	92	80-129	
1,2-Dichlorobenzene	20.0	18.76	94	80-121	
1,3-Dichlorobenzene	20.0	18.30	91	80-122	
1,4-Dichlorobenzene	20.0	17.51	88	80-120	
Dichlorodifluoromethane	20.0	16.12	81	37-127	
1,1-Dichloroethane	20.0	18.48	92	78-125	
1,2-Dichloroethane	20.0	17.46	87	77-121	
1,1-Dichloroethene	20.0	18.51	93	79-124	
1,2-Dichloropropane	20.0	19.38	97	75-120	
Ethylbenzene	20.0	18.10	90	80-130	
2-Hexanone	100	76.59	77	60-142	
Isopropylbenzene	20.0	18.71	94	80-141	
Methyl acetate	100	67.07	67	64-150	
Methylcyclohexane	20.0	19.71	99	71-129	
Methylene Chloride	20.0	17.42	87	79-123	
4-Methyl-2-pentanone (MIBK)	100	84.43	84	60-137	
Methyl tert-butyl ether	20.0	26.11	131	72-133	
N-Propylbenzene	20.0	16.85	84	75-129	
Styrene	20.0	18.89	94	80-127	
1,1,2,2-Tetrachloroethane	20.0	16.30	81	69-131	
Tetrachloroethene	20.0	17.66	88	80-126	
Tetrahydrofuran	40.0	26.76	67	51-124	
Toluene	20.0	17.72	89	80-126	
trans-1,2-Dichloroethene	20.0	18.31	92	79-126	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 11161304.D

Lab ID: LCS 490-122545/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	19.61	98	63-134	
1,2,4-Trichlorobenzene	20.0	20.47	102	63-133	
1,1,1-Trichloroethane	20.0	23.50	117	78-135	
1,1,2-Trichloroethane	20.0	17.61	88	80-124	
Trichloroethene	20.0	21.04	105	80-123	
Trichlorofluoromethane	20.0	19.09	95	65-124	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	18.93	95	77-129	
Vinyl chloride	20.0	16.99	85	68-120	
Xylenes, Total	40.0	36.33	91	80-132	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 11161326.D

Lab ID: 490-39934-B-3 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acetone	250	7.67	182.2	70	45-141	
Benzene	50.0	ND	46.49	93	75-133	
Bromochloromethane	50.0	ND	53.40	107	67-139	
Bromodichloromethane	50.0	ND	56.61	113	70-140	
Bromoform	50.0	ND	53.64	107	42-147	
Bromomethane	50.0	ND	60.64	121	16-163	
2-Butanone (MEK)	250	ND	210.1	84	50-138	
Carbon disulfide	50.0	ND	46.49	93	48-152	
Carbon tetrachloride	50.0	ND	61.23	122	62-164	
Chlorobenzene	50.0	ND	46.22	92	80-129	
Chlorodibromomethane	50.0	ND	50.88	102	66-140	
Chloroethane	50.0	ND	47.63	95	58-137	
Chloroform	50.0	0.489 J	47.59	94	66-138	
Chloromethane	50.0	ND	48.25	96	10-169	
cis-1,2-Dichloroethene	50.0	ND	47.41	95	68-138	
cis-1,3-Dichloropropene	50.0	ND	45.62	91	71-141	
Cyclohexane	50.0	ND	45.04	90	58-144	
1,2-Dibromo-3-Chloropropane	50.0	ND	48.85	98	52-126	
1,2-Dibromoethane (EDB)	50.0	ND	44.86	90	75-137	
1,2-Dichlorobenzene	50.0	ND	44.62	89	79-128	
1,3-Dichlorobenzene	50.0	ND	43.41	87	77-131	
1,4-Dichlorobenzene	50.0	ND	42.14	84	78-126	
Dichlorodifluoromethane	50.0	ND	39.77	80	40-127	
1,1-Dichloroethane	50.0	ND	45.44	91	71-139	
1,2-Dichloroethane	50.0	ND	41.26	83	64-136	
1,1-Dichloroethene	50.0	ND	49.67	99	70-142	
1,2-Dichloropropane	50.0	ND	45.78	92	67-131	
Ethylbenzene	50.0	ND	44.72	89	79-139	
2-Hexanone	250	ND	176.3	71	50-150	
Isopropylbenzene	50.0	ND	48.21	96	80-153	
Methyl acetate	250	ND	142.9	57	30-165	
Methylcyclohexane	50.0	ND	51.42	103	59-151	
Methylene Chloride	50.0	ND	42.48	85	64-139	
4-Methyl-2-pentanone (MIBK)	250	ND	200.6	80	50-147	
Methyl tert-butyl ether	50.0	ND	54.81	110	66-141	
N-Propylbenzene	50.0	ND	41.83	84	69-142	
Styrene	50.0	ND	46.60	93	61-148	
1,1,2,2-Tetrachloroethane	50.0	ND	38.71	77	56-143	
Tetrachloroethene	50.0	ND	46.54	93	72-145	
Tetrahydrofuran	100	ND	68.17	68	34-133	
Toluene	50.0	ND	43.62	87	75-136	
trans-1,2-Dichloroethene	50.0	ND	44.97	90	66-143	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 11161326.D

Lab ID: 490-39934-B-3 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	50.0	ND	45.68	91	59-135	
1,2,4-Trichlorobenzene	50.0	ND	55.11	110	60-136	
1,1,1-Trichloroethane	50.0	ND	62.31	125	76-149	
1,1,2-Trichloroethane	50.0	ND	42.19	84	74-134	
Trichloroethene	50.0	ND	53.95	108	73-144	
Trichlorofluoromethane	50.0	ND	53.65	107	58-139	
1,1,2-Trichloro-1,2,2-trichfluoroethane	50.0	ND	48.71	97	72-148	
Vinyl chloride	50.0	ND	43.23	86	56-129	
Xylenes, Total	100	ND	89.73	90	74-141	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 11161327.D

Lab ID: 490-39934-C-3 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	250	206.0	79	12	21	45-141	
Benzene	50.0	46.62	93	0	17	75-133	
Bromochloromethane	50.0	51.27	103	4	17	67-139	
Bromodichloromethane	50.0	55.82	112	1	18	70-140	
Bromoform	50.0	54.16	108	1	16	42-147	
Bromomethane	50.0	65.20	130	7	50	16-163	
2-Butanone (MEK)	250	217.6	87	4	19	50-138	
Carbon disulfide	50.0	46.83	94	1	21	48-152	
Carbon tetrachloride	50.0	61.50	123	0	19	62-164	
Chlorobenzene	50.0	46.44	93	0	14	80-129	
Chlorodibromomethane	50.0	51.93	104	2	15	66-140	
Chloroethane	50.0	46.91	94	2	20	58-137	
Chloroform	50.0	46.41	92	2	18	66-138	
Chloromethane	50.0	47.23	94	2	31	10-169	
cis-1,2-Dichloroethene	50.0	48.12	96	1	17	68-138	
cis-1,3-Dichloropropene	50.0	47.49	95	4	15	71-141	
Cyclohexane	50.0	45.78	92	2	16	58-144	
1,2-Dibromo-3-Chloropropane	50.0	52.75	105	8	24	52-126	
1,2-Dibromoethane (EDB)	50.0	46.38	93	3	15	75-137	
1,2-Dichlorobenzene	50.0	45.66	91	2	15	79-128	
1,3-Dichlorobenzene	50.0	45.21	90	4	15	77-131	
1,4-Dichlorobenzene	50.0	43.58	87	3	15	78-126	
Dichlorodifluoromethane	50.0	39.73	79	0	18	40-127	
1,1-Dichloroethane	50.0	45.62	91	0	17	71-139	
1,2-Dichloroethane	50.0	41.91	84	2	17	64-136	
1,1-Dichloroethene	50.0	48.64	97	2	17	70-142	
1,2-Dichloropropane	50.0	45.54	91	1	17	67-131	
Ethylbenzene	50.0	46.16	92	3	15	79-139	
2-Hexanone	250	185.1	74	5	15	50-150	
Isopropylbenzene	50.0	49.23	98	2	16	80-153	
Methyl acetate	250	144.8	58	1	31	30-165	
Methylcyclohexane	50.0	51.43	103	0	19	59-151	
Methylene Chloride	50.0	42.83	86	1	17	64-139	
4-Methyl-2-pentanone (MIBK)	250	209.4	84	4	17	50-147	
Methyl tert-butyl ether	50.0	57.14	114	4	16	66-141	
N-Propylbenzene	50.0	43.69	87	4	17	69-142	
Styrene	50.0	48.12	96	3	24	61-148	
1,1,2,2-Tetrachloroethane	50.0	40.25	80	4	20	56-143	
Tetrachloroethene	50.0	47.14	94	1	16	72-145	
Tetrahydrofuran	100	68.59	69	1	18	34-133	
Toluene	50.0	44.79	90	3	15	75-136	
trans-1,2-Dichloroethene	50.0	44.37	89	1	16	66-143	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 11161327.D

Lab ID: 490-39934-C-3 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	50.0	47.84	96	5	14	59-135	
1,2,4-Trichlorobenzene	50.0	62.09	124	12	19	60-136	
1,1,1-Trichloroethane	50.0	62.30	125	0	17	76-149	
1,1,2-Trichloroethane	50.0	43.17	86	2	15	74-134	
Trichloroethene	50.0	53.94	108	0	17	73-144	
Trichlorofluoromethane	50.0	49.41	99	8	18	58-139	
1,1,2-Trichloro-1,2,2-trichfluoroethane	50.0	48.82	98	0	18	72-148	
Vinyl chloride	50.0	44.05	88	2	17	56-129	
Xylenes, Total	100	92.18	92	3	15	74-141	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Lab File ID: 11161306.D Lab Sample ID: MB 490-122545/5

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP34 Date Analyzed: 11/16/2013 15:33

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 490-122545/3	11161304.D	11/16/2013 14:20
Trip Blank	490-39686-7	11161317.D	11/16/2013 20:28
MW-04B-GW-001	490-39686-1	11161322.D	11/16/2013 22:43
MW-04B-GW-002	490-39686-2	11161323.D	11/16/2013 23:09
MW-08-GW-001	490-39686-3	11161324.D	11/16/2013 23:36
MW-09-GW-001	490-39686-5	11161325.D	11/17/2013 00:03
	490-39934-B-3 MS	11161326.D	11/17/2013 00:30
	490-39934-C-3 MSD	11161327.D	11/17/2013 00:57

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Lab File ID: 08211306.D BFB Injection Date: 08/21/2013

Instrument ID: HP34 BFB Injection Time: 11:04

Analysis Batch No.: 101606

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.9	
75	30.0 - 60.0 % of mass 95	55.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	8.7	
173	Less than 2.0 % of mass 174	0.5	(0.6)1
174	50.0 - 120.00 % of mass 95	84.6	
175	5.0 - 9.0 % of mass 174	6.9	(8.2)1
176	95.0 - 101.0 % of mass 174	82.7	(97.8)1
177	5.0 - 9.0 % of mass 176	6.0	(7.3)2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD0005 490-101606/2	08211308.D	08/21/2013	12:03
	STD001 490-101606/3	08211309.D	08/21/2013	12:30
	STD002 490-101606/4	08211310.D	08/21/2013	12:57
	STD005 490-101606/5	08211311.D	08/21/2013	13:24
	STD010 490-101606/6	08211312.D	08/21/2013	13:51
	ICIS 490-101606/7	08211313.D	08/21/2013	14:18
	STD050 490-101606/8	08211314.D	08/21/2013	14:45
	ICV 490-101606/9	08211315.D	08/21/2013	15:12
	STD100 490-101606/10	08211316.D	08/21/2013	15:39
	STD200 490-101606/11	08211317.D	08/21/2013	16:06

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Lab File ID: 11161302.D BFB Injection Date: 11/16/2013

Instrument ID: HP34 BFB Injection Time: 13:21

Analysis Batch No.: 122545

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.8	
75	30.0 - 60.0 % of mass 95	47.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	8.6	
173	Less than 2.0 % of mass 174	0.3	(0.3)1
174	50.0 - 120.00 % of mass 95	93.2	
175	5.0 - 9.0 % of mass 174	6.8	(7.3)1
176	95.0 - 101.0 % of mass 174	91.9	(98.6)1
177	5.0 - 9.0 % of mass 176	6.5	(7.0)2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-122545/2	11161303.D	11/16/2013	13:47
	LCS 490-122545/3	11161304.D	11/16/2013	14:20
	MB 490-122545/5	11161306.D	11/16/2013	15:33
Trip Blank	490-39686-7	11161317.D	11/16/2013	20:28
MW-04B-GW-001	490-39686-1	11161322.D	11/16/2013	22:43
MW-04B-GW-002	490-39686-2	11161323.D	11/16/2013	23:09
MW-08-GW-001	490-39686-3	11161324.D	11/16/2013	23:36
MW-09-GW-001	490-39686-5	11161325.D	11/17/2013	00:03
	490-39934-B-3 MS	11161326.D	11/17/2013	00:30
	490-39934-C-3 MSD	11161327.D	11/17/2013	00:57

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Sample No.: ICIS 490-101606/7 Date Analyzed: 08/21/2013 14:18

Instrument ID: HP34 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 08211313.D Heated Purge: (Y/N) N

Calibration ID: 18346

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		325736	4.44	236101	6.84	124239	9.01
UPPER LIMIT		651472	4.94	472202	7.34	248478	9.51
LOWER LIMIT		162868	3.94	118051	6.34	62120	8.51
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 490-101606/9		329250	4.44	247807	6.84	131312	9.01
CCVIS 490-122545/2		343436	4.44	282843	6.84	157566	9.00

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Sample No.: CCVIS 490-122545/2 Date Analyzed: 11/16/2013 13:47

Instrument ID: HP34 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 11161303.D Heated Purge: (Y/N) N

Calibration ID: 18346

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		343436	4.44	282843	6.84	157566	9.00
UPPER LIMIT		686872	4.94	565686	7.34	315132	9.50
LOWER LIMIT		171718	3.94	141422	6.34	78783	8.50
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 490-122545/3		347591	4.44	280753	6.84	154875	9.00
MB 490-122545/5		343672	4.44	265608	6.84	143026	9.00
490-39686-7	Trip Blank	330441	4.44	255512	6.84	133607	9.00
490-39686-1	MW-04B-GW-001	330708	4.44	253536	6.84	135441	9.00
490-39686-2	MW-04B-GW-002	335294	4.44	250660	6.84	136116	9.00
490-39686-3	MW-08-GW-001	336335	4.44	250977	6.84	142844	9.00
490-39686-5	MW-09-GW-001	341460	4.44	265047	6.84	138966	9.00
490-39934-B-3 MS		335661	4.44	273966	6.84	154591	9.00
490-39934-C-3 MSD		349501	4.44	277062	6.84	153803	9.00

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: MW-04B-GW-001 | Lab Sample ID: 490-39686-1

Matrix: Water | Lab File ID: 11161322.D

Analysis Method: 8260B | Date Collected: 11/06/2013 15:42

Sample wt/vol: 5(mL) | Date Analyzed: 11/16/2013 22:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122545 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND		1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	0.942	J	1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: MW-04B-GW-001 | Lab Sample ID: 490-39686-1

Matrix: Water | Lab File ID: 11161322.D

Analysis Method: 8260B | Date Collected: 11/06/2013 15:42

Sample wt/vol: 5(mL) | Date Analyzed: 11/16/2013 22:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122545 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND		5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND		1.00	0.200
75-69-4	Trichlorofluoromethane	ND		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		1.00	0.330
75-01-4	Vinyl chloride	18.5		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		70-130
1868-53-7	Dibromofluoromethane (Surr)	109		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	92		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP34\20131116-28565.b\11161322.D
Lims ID: 490-39686-A-1 Lab Sample ID: 490-39686-1
Client ID: MW-04B-GW-001
Sample Type: Client
Inject. Date: 16-Nov-2013 22:43:30 ALS Bottle#: 22 Worklist Smp#: 43
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 490-39686-A-1
Misc. Info.: 490-0028565-043
Operator ID: JJR HP34 Instrument ID: HP34

Method: \\Nvlchrom\ChromData\HP34\20131116-28565.b\8260HP34.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-77
Last Update: 18-Nov-2013 12:11:24 Calib Date: 21-Aug-2013 16:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211317.D

Column 1 : DB-624 (0.18 mm) Detector MS SCAN
Process Host: XAWRK020

First Level Reviewer: mcmillins Date: 18-Nov-2013 12:12:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.438	4.438	0.0	99	330708	30.0	
* 2 Chlorobenzene-d5	117	6.841	6.835	0.006	82	253536	30.0	
* 3 1,4-Dichlorobenzene-d4	152	9.000	9.001	-0.001	94	135441	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.963	3.964	-0.001	59	90783	32.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.207	4.207	0.0	98	102997	28.9	
$ 6 Toluene-d8 (Surr)	98	5.624	5.624	0.0	93	309612	27.5	
$ 8 4-Bromofluorobenzene (Surr)	95	7.899	7.900	-0.001	94	114352	28.7	
11 Vinyl chloride	62	1.785	1.786	-0.001	83	138446	18.5	
41 cis-1,2-Dichloroethene	61	3.665	3.659	0.006	38	9152	0.9416	

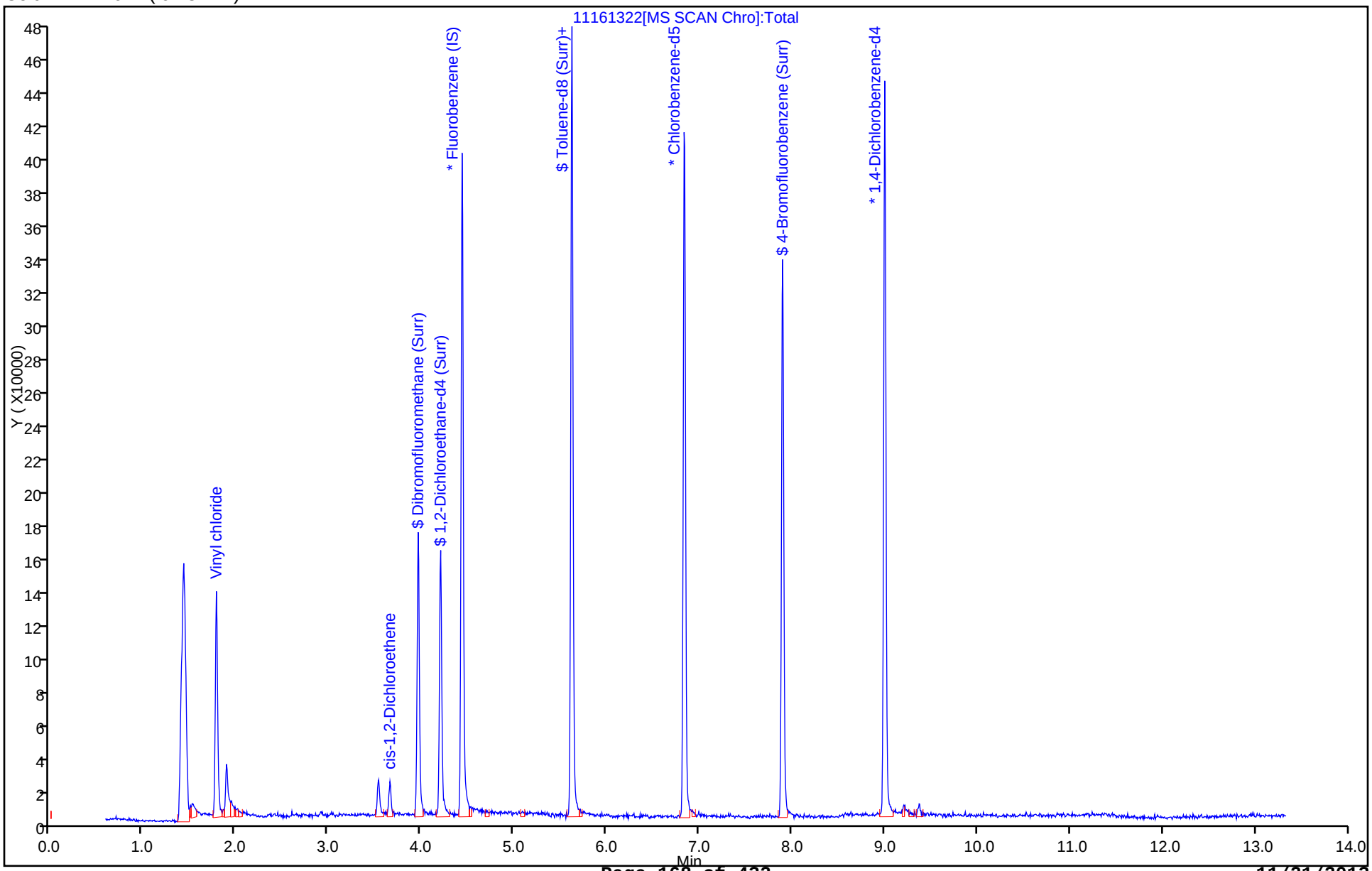
Report Date: 18-Nov-2013 12:12:55 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP34\20131116-28565.b\11161322.D

Injection Date:	16-Nov-2013 22:43:30	Instrument ID:	HP34	Operator ID:	JJR HP34
Lims ID:	490-39686-A-1	Lab Sample ID:	490-39686-1	Worklist Smp#:	43
Client ID:	MW-04B-GW-001				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8260HP34	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Report Date: 18-Nov-2013 12:12:55 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP34\20131116-28565.b\11161322.D

Injection Date: 16-Nov-2013 22:43:30 Instrument ID: HP34

Lims ID: 490-39686-A-1 Lab Sample ID: 490-39686-1

Client ID: MW-04B-GW-001

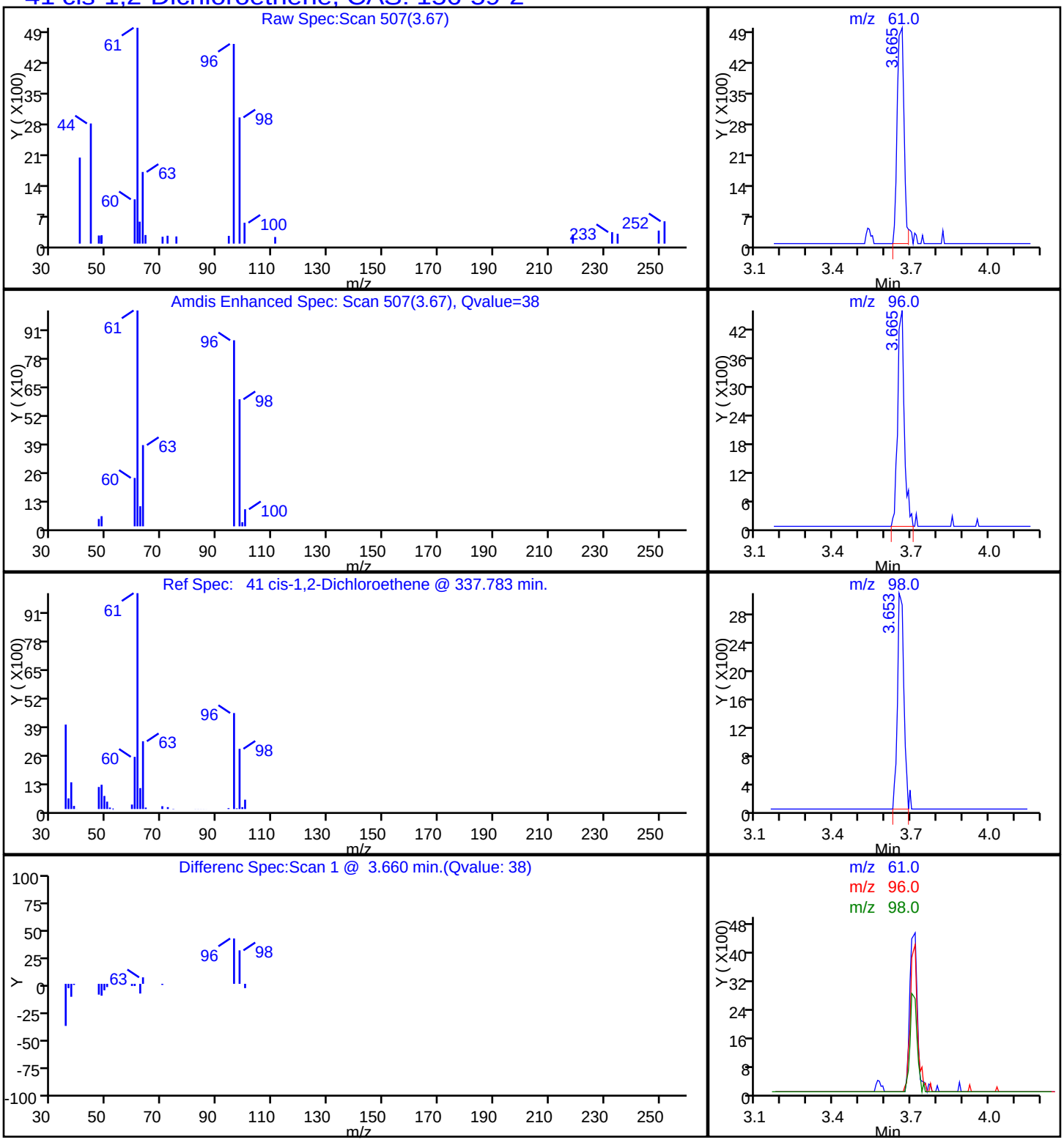
Operator ID: JJR HP34 ALS Bottle#: 22 Worklist Smp#: 43

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260HP34 Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm) Detector MS SCAN

41 cis-1,2-Dichloroethene, CAS: 156-59-2



Report Date: 18-Nov-2013 12:12:55 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP34\20131116-28565.b\11161322.D

Injection Date: 16-Nov-2013 22:43:30 Instrument ID: HP34

Lims ID: 490-39686-A-1 Lab Sample ID: 490-39686-1

Client ID: MW-04B-GW-001

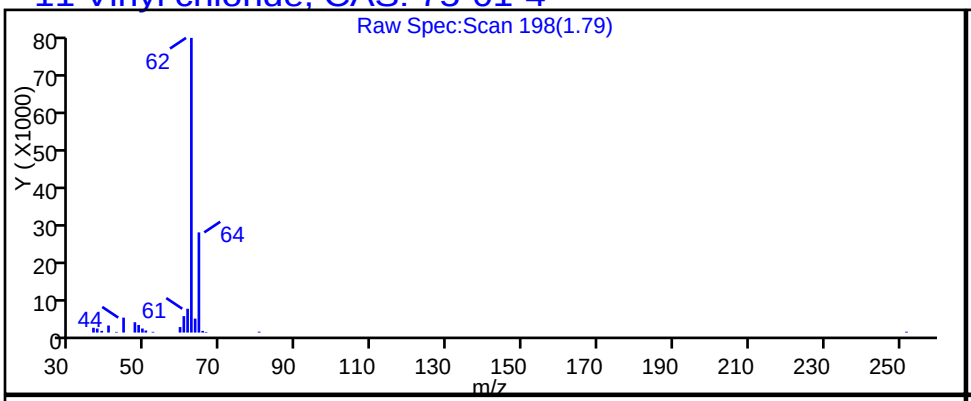
Operator ID: JJR HP34 ALS Bottle#: 22 Worklist Smp#: 43

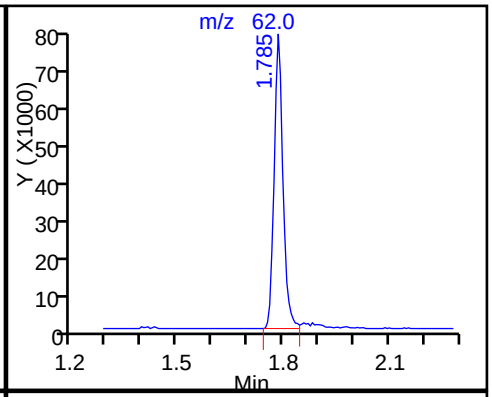
Purge Vol: 5.000 mL Dil. Factor: 1.0000

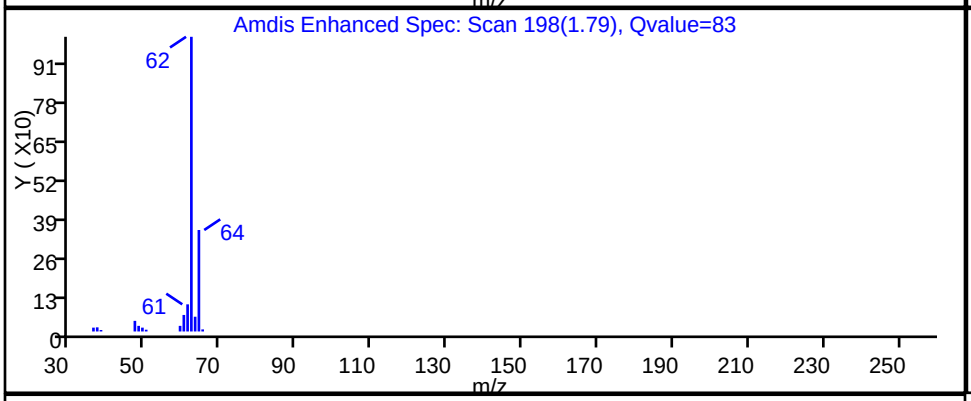
Method: 8260HP34 Limit Group: MSV 8260B ICAL

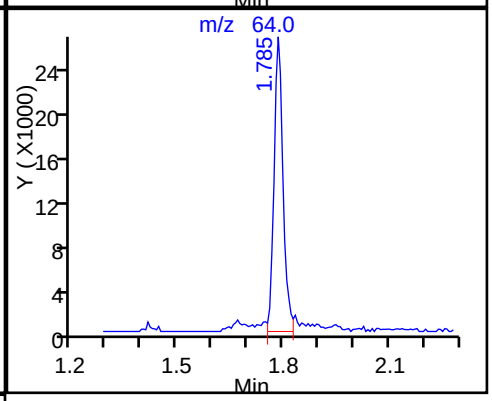
Column: DB-624 (0.18 mm) Detector MS SCAN

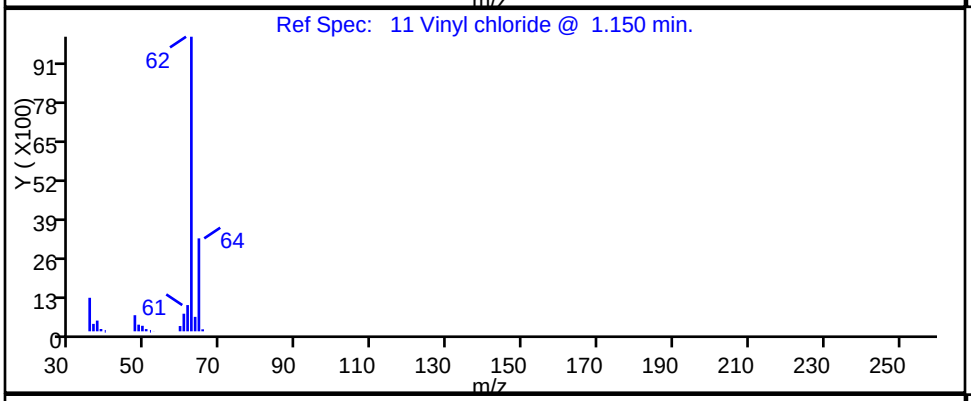
11 Vinyl chloride, CAS: 75-01-4

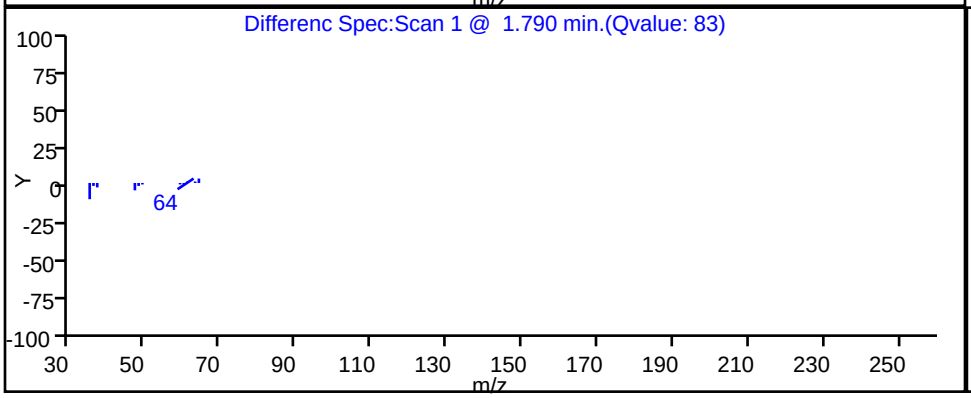


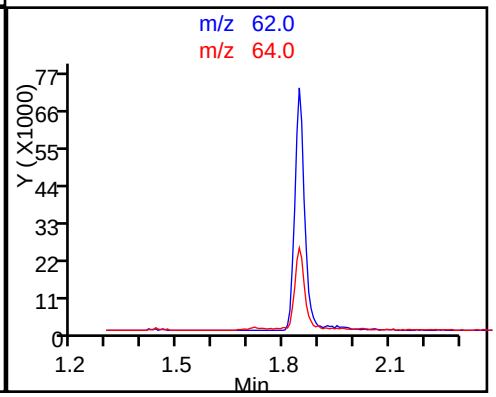












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: MW-04B-GW-002 | Lab Sample ID: 490-39686-2

Matrix: Water | Lab File ID: 11161323.D

Analysis Method: 8260B | Date Collected: 11/06/2013 15:42

Sample wt/vol: 5(mL) | Date Analyzed: 11/16/2013 23:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122545 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND		1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	0.804	J	1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: MW-04B-GW-002 | Lab Sample ID: 490-39686-2

Matrix: Water | Lab File ID: 11161323.D

Analysis Method: 8260B | Date Collected: 11/06/2013 15:42

Sample wt/vol: 5(mL) | Date Analyzed: 11/16/2013 23:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122545 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND		5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND		1.00	0.200
75-69-4	Trichlorofluoromethane	ND		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		1.00	0.330
75-01-4	Vinyl chloride	14.1		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	110		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		70-130
2037-26-5	Toluene-d8 (Surr)	95		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP34\20131116-28565.b\11161323.D
Lims ID: 490-39686-A-2 Lab Sample ID: 490-39686-2
Client ID: MW-04B-GW-002
Sample Type: Client
Inject. Date: 16-Nov-2013 23:09:30 ALS Bottle#: 23 Worklist Smp#: 44
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 490-39686-A-2
Misc. Info.: 490-0028565-044
Operator ID: JJR HP34 Instrument ID: HP34

Method: \\Nvlchrom\ChromData\HP34\20131116-28565.b\8260HP34.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-77
Last Update: 18-Nov-2013 12:11:24 Calib Date: 21-Aug-2013 16:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211317.D

Column 1 : DB-624 (0.18 mm) Detector MS SCAN
Process Host: XAWRK020

First Level Reviewer: mcmillins Date: 18-Nov-2013 12:13:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.438	4.438	0.0	99	335294	30.0	
* 2 Chlorobenzene-d5	117	6.841	6.835	0.006	84	250660	30.0	
* 3 1,4-Dichlorobenzene-d4	152	9.001	9.001	0.0	93	136116	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.964	3.964	0.0	67	93140	33.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.207	4.207	0.0	91	99736	27.6	
$ 6 Toluene-d8 (Surr)	98	5.624	5.624	0.0	92	316054	28.4	
$ 8 4-Bromofluorobenzene (Surr)	95	7.900	7.900	0.0	95	117757	29.4	
11 Vinyl chloride	62	1.786	1.786	0.0	83	106720	14.1	
41 cis-1,2-Dichloroethene	61	3.653	3.659	-0.006	77	7919	0.8036	

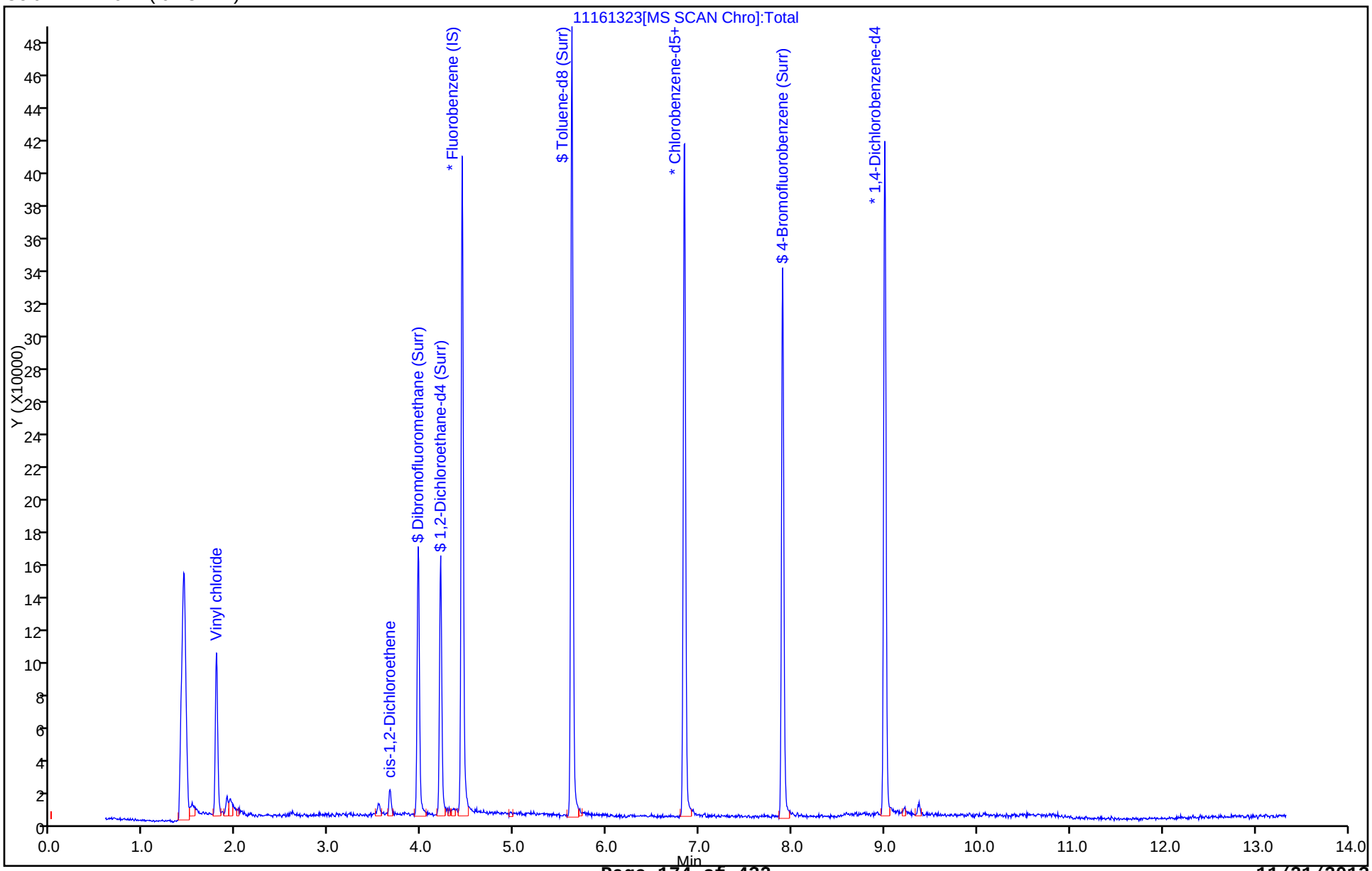
Report Date: 18-Nov-2013 12:13:39 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP34\20131116-28565.b\11161323.D

Injection Date:	16-Nov-2013 23:09:30	Instrument ID:	HP34	Operator ID:	JJR HP34
Lims ID:	490-39686-A-2	Lab Sample ID:	490-39686-2	Worklist Smp#:	44
Client ID:	MW-04B-GW-002				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	8260HP34	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Report Date: 18-Nov-2013 12:13:39 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP34\20131116-28565.b\11161323.D

Injection Date: 16-Nov-2013 23:09:30 Instrument ID: HP34

Lims ID: 490-39686-A-2 Lab Sample ID: 490-39686-2

Client ID: MW-04B-GW-002

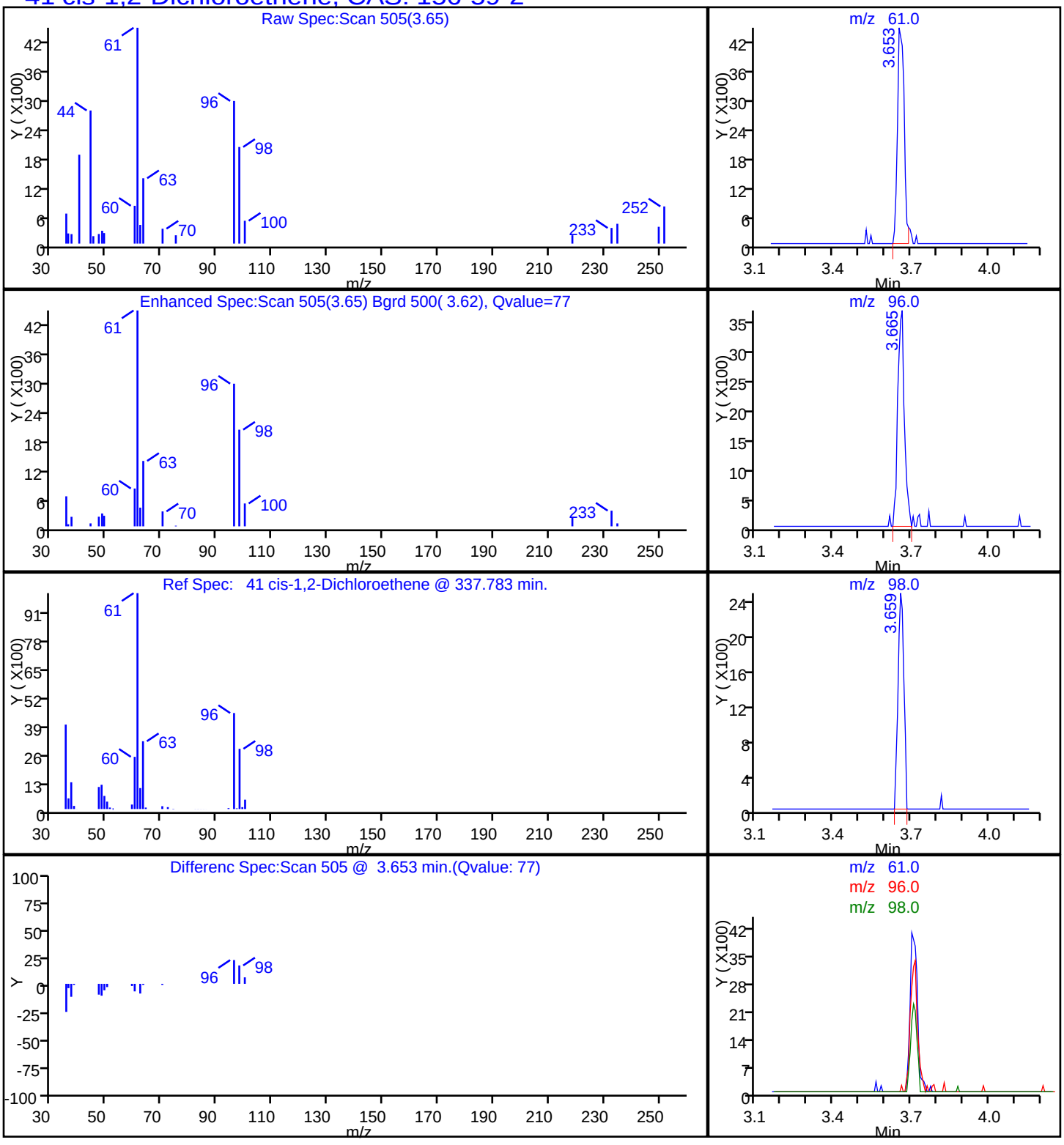
Operator ID: JJR HP34 ALS Bottle#: 23 Worklist Smp#: 44

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260HP34 Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm) Detector MS SCAN

41 cis-1,2-Dichloroethene, CAS: 156-59-2



Report Date: 18-Nov-2013 12:13:39 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP34\20131116-28565.b\11161323.D

Injection Date: 16-Nov-2013 23:09:30 Instrument ID: HP34

Lims ID: 490-39686-A-2 Lab Sample ID: 490-39686-2

Client ID: MW-04B-GW-002

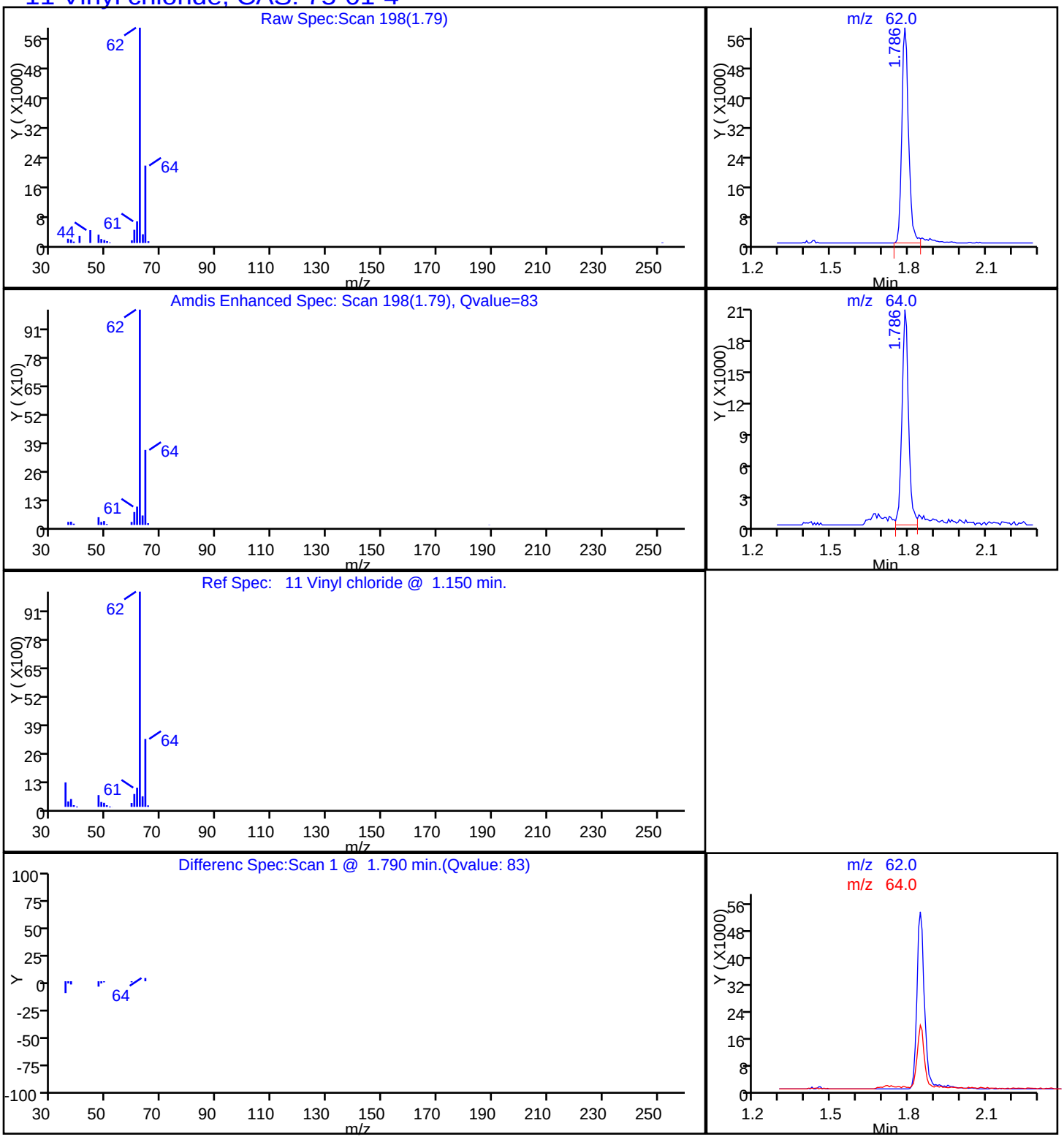
Operator ID: JJR HP34 ALS Bottle#: 23 Worklist Smp#: 44

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260HP34 Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm) Detector MS SCAN

11 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: MW-08-GW-001 | Lab Sample ID: 490-39686-3

Matrix: Water | Lab File ID: 11161324.D

Analysis Method: 8260B | Date Collected: 11/06/2013 11:08

Sample wt/vol: 5(mL) | Date Analyzed: 11/16/2013 23:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122545 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND		1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	ND		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: MW-08-GW-001 | Lab Sample ID: 490-39686-3

Matrix: Water | Lab File ID: 11161324.D

Analysis Method: 8260B | Date Collected: 11/06/2013 11:08

Sample wt/vol: 5(mL) | Date Analyzed: 11/16/2013 23:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122545 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND		5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND		1.00	0.200
75-69-4	Trichlorofluoromethane	ND		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	ND		1.00	0.330
75-01-4	Vinyl chloride	ND		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130
1868-53-7	Dibromofluoromethane (Surr)	110		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
2037-26-5	Toluene-d8 (Surr)	94		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP34\20131116-28565.b\11161324.D
Lims ID: 490-39686-A-3 Lab Sample ID: 490-39686-3
Client ID: MW-08-GW-001
Sample Type: Client
Inject. Date: 16-Nov-2013 23:36:30 ALS Bottle#: 24 Worklist Smp#: 45
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 490-39686-A-3
Misc. Info.: 490-0028565-045
Operator ID: JJR HP34 Instrument ID: HP34

Method: \\Nvlchrom\ChromData\HP34\20131116-28565.b\8260HP34.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-77
Last Update: 18-Nov-2013 12:11:24 Calib Date: 21-Aug-2013 16:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211317.D

Column 1 : DB-624 (0.18 mm) Detector MS SCAN
Process Host: XAWRK020

First Level Reviewer: mcmillins Date: 18-Nov-2013 12:14:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.438	4.438	0.0	99	336335	30.0	
* 2 Chlorobenzene-d5	117	6.835	6.835	0.0	85	250977	30.0	
* 3 1,4-Dichlorobenzene-d4	152	9.001	9.001	0.0	94	142844	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.963	3.964	-0.001	59	93534	33.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.207	4.207	0.0	90	102222	28.2	
$ 6 Toluene-d8 (Surr)	98	5.624	5.624	0.0	92	312446	28.1	
$ 8 4-Bromofluorobenzene (Surr)	95	7.899	7.900	-0.001	94	119954	28.5	

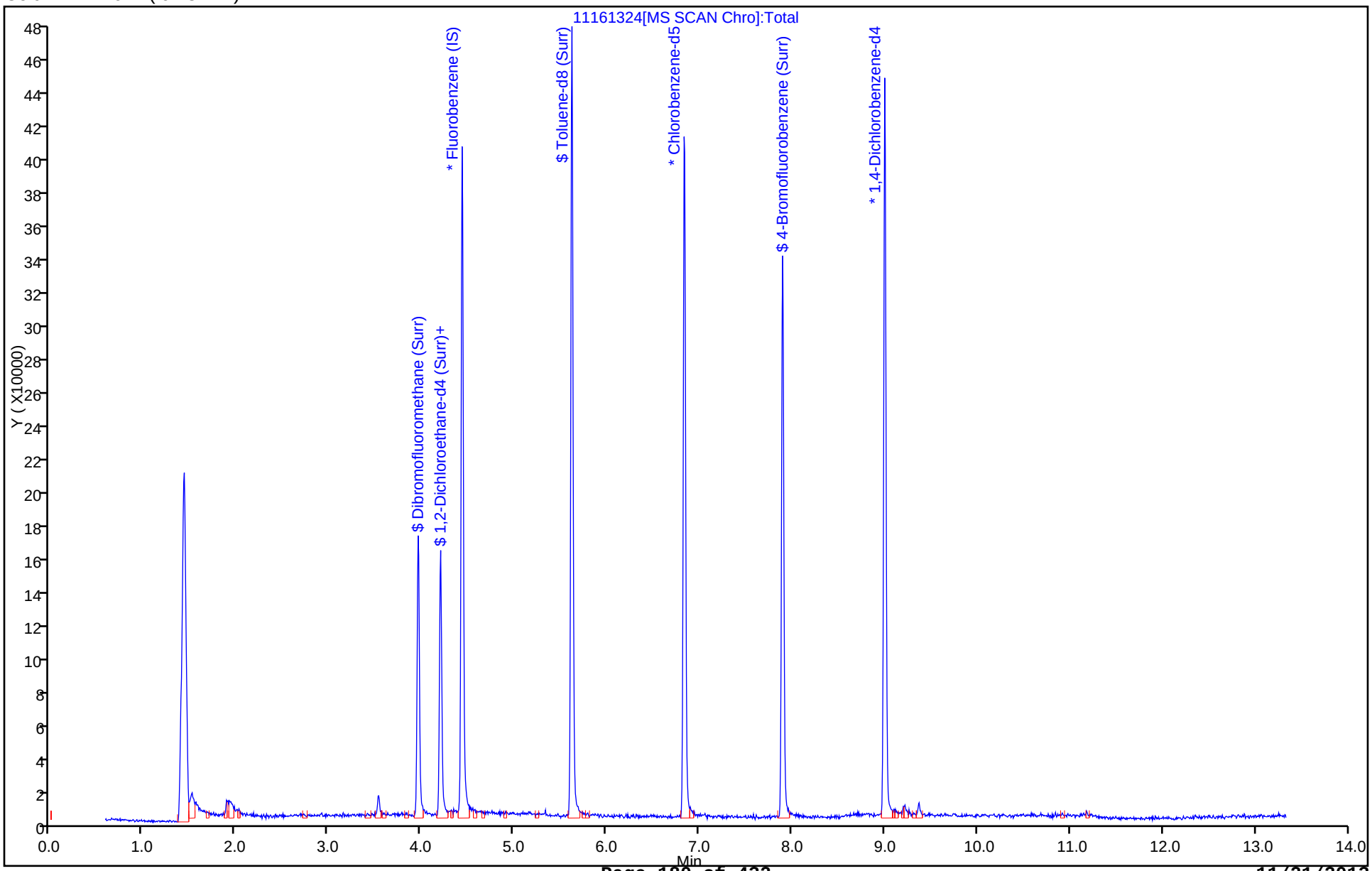
Report Date: 18-Nov-2013 12:14:13 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP34\20131116-28565.b\11161324.D

Injection Date:	16-Nov-2013 23:36:30	Instrument ID:	HP34	Operator ID:	JJR HP34
Lims ID:	490-39686-A-3	Lab Sample ID:	490-39686-3	Worklist Smp#:	45
Client ID:	MW-08-GW-001				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8260HP34	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: MW-09-GW-001 | Lab Sample ID: 490-39686-5

Matrix: Water | Lab File ID: 11161325.D

Analysis Method: 8260B | Date Collected: 11/06/2013 13:26

Sample wt/vol: 5(mL) | Date Analyzed: 11/17/2013 00:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122545 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND		1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	ND		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: MW-09-GW-001 | Lab Sample ID: 490-39686-5

Matrix: Water | Lab File ID: 11161325.D

Analysis Method: 8260B | Date Collected: 11/06/2013 13:26

Sample wt/vol: 5(mL) | Date Analyzed: 11/17/2013 00:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122545 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND		5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND		1.00	0.200
75-69-4	Trichlorofluoromethane	ND		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		1.00	0.330
75-01-4	Vinyl chloride	ND		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	108		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
2037-26-5	Toluene-d8 (Surr)	91		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP34\20131116-28565.b\11161325.D
Lims ID: 490-39686-A-5 Lab Sample ID: 490-39686-5
Client ID: MW-09-GW-001
Sample Type: Client
Inject. Date: 17-Nov-2013 00:03:30 ALS Bottle#: 25 Worklist Smp#: 46
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 490-39686-A-5
Misc. Info.: 490-0028565-046
Operator ID: JJR HP34 Instrument ID: HP34

Method: \\Nvlchrom\ChromData\HP34\20131116-28565.b\8260HP34.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-77
Last Update: 18-Nov-2013 12:11:24 Calib Date: 21-Aug-2013 16:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211317.D

Column 1 : DB-624 (0.18 mm) Detector MS SCAN
Process Host: XAWRK020

First Level Reviewer: mcmillins Date: 18-Nov-2013 12:15:00

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
*	1 Fluorobenzene (IS)	96	4.438	4.438	0.0	99	341460	30.0	
*	2 Chlorobenzene-d5	117	6.835	6.835	0.0	84	265047	30.0	
*	3 1,4-Dichlorobenzene-d4	152	9.001	9.001	0.0	93	138966	30.0	
$	4 Dibromofluoromethane (Surr)	111	3.963	3.964	-0.001	59	92644	32.3	
$	5 1,2-Dichloroethane-d4 (Surr)	65	4.207	4.207	0.0	97	103528	28.2	
$	6 Toluene-d8 (Surr)	98	5.624	5.624	0.0	93	321934	27.4	
$	8 4-Bromofluorobenzene (Surr)	95	7.900	7.900	0.0	93	118795	29.0	

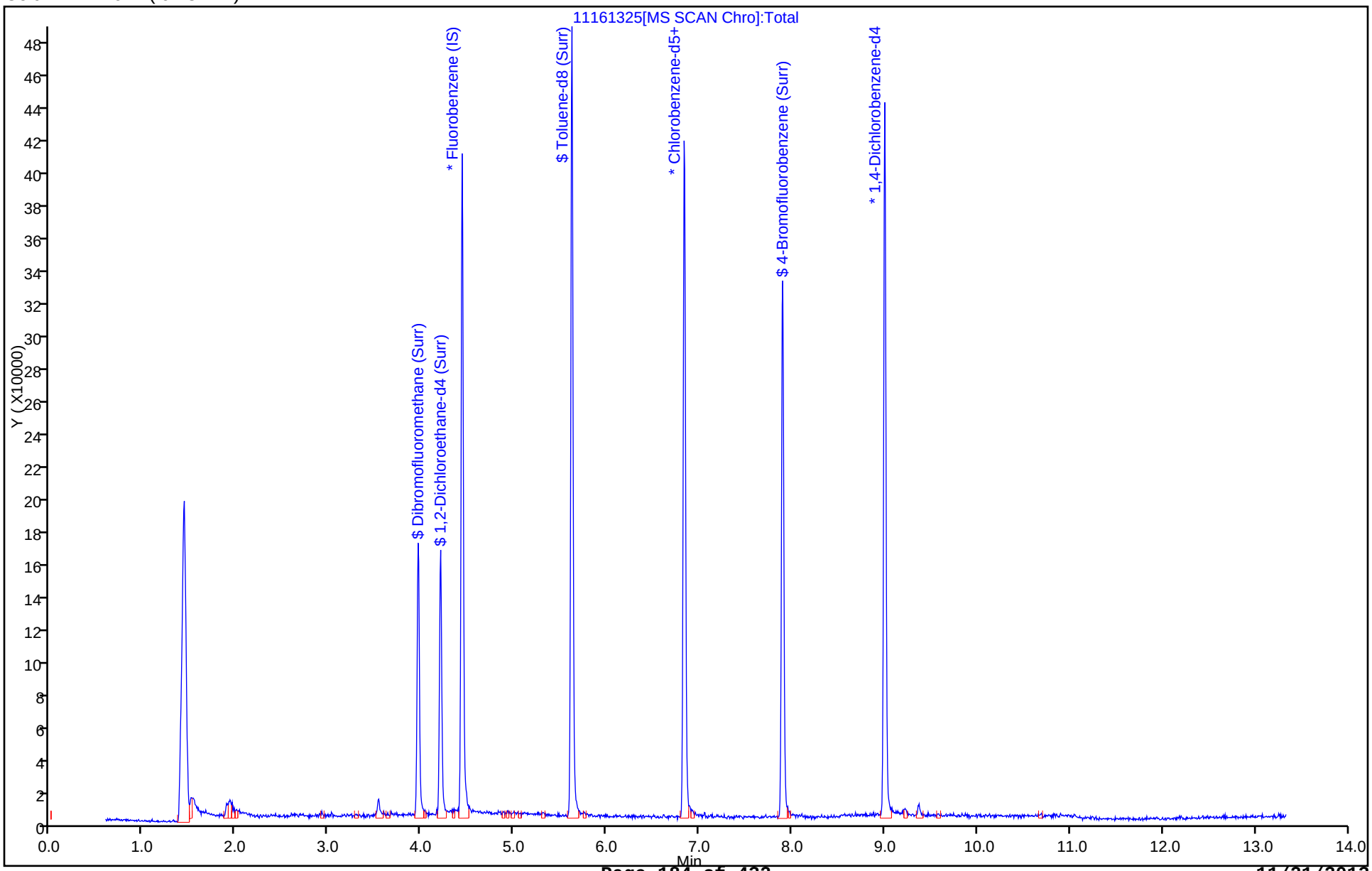
Report Date: 18-Nov-2013 12:15:00 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP34\20131116-28565.b\11161325.D

Injection Date:	17-Nov-2013 00:03:30	Instrument ID:	HP34	Operator ID:	JJR	HP34
Lims ID:	490-39686-A-5	Lab Sample ID:	490-39686-5	Worklist Smp#:	46	
Client ID:	MW-09-GW-001					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25	
Method:	8260HP34	Limit Group:	MSV 8260B ICAL			

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: Trip Blank | Lab Sample ID: 490-39686-7

Matrix: Water | Lab File ID: 11161317.D

Analysis Method: 8260B | Date Collected: 11/06/2013 00:01

Sample wt/vol: 5(mL) | Date Analyzed: 11/16/2013 20:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122545 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND		1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	ND		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	0.478	J	5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: Trip Blank | Lab Sample ID: 490-39686-7

Matrix: Water | Lab File ID: 11161317.D

Analysis Method: 8260B | Date Collected: 11/06/2013 00:01

Sample wt/vol: 5(mL) | Date Analyzed: 11/16/2013 20:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122545 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND		5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND		1.00	0.200
75-69-4	Trichlorofluoromethane	ND		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		1.00	0.330
75-01-4	Vinyl chloride	ND		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
1868-53-7	Dibromofluoromethane (Surr)	107		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	92		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP34\20131116-28565.b\11161317.D
Lims ID: 490-39686-A-7 Lab Sample ID: 490-39686-7
Client ID: Trip Blank
Sample Type: Client
Inject. Date: 16-Nov-2013 20:28:30 ALS Bottle#: 17 Worklist Smp#: 38
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 490-39686-A-7
Misc. Info.: 490-0028565-038
Operator ID: JJR HP34 Instrument ID: HP34

Method: \\Nvlchrom\ChromData\HP34\20131116-28565.b\8260HP34.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-77
Last Update: 19-Nov-2013 11:34:28 Calib Date: 21-Aug-2013 16:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211317.D

Column 1 : DB-624 (0.18 mm) Detector MS SCAN
Process Host: XAWRK015

First Level Reviewer: redmondj Date: 19-Nov-2013 11:34:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.438	4.438	0.0	99	330441	30.0	
* 2 Chlorobenzene-d5	117	6.841	6.835	0.006	84	255512	30.0	
* 3 1,4-Dichlorobenzene-d4	152	9.000	9.001	-0.001	94	133607	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.963	3.964	-0.001	67	89275	32.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.207	4.207	0.0	91	102378	28.8	
$ 6 Toluene-d8 (Surr)	98	5.624	5.624	0.0	92	311961	27.5	
$ 8 4-Bromofluorobenzene (Surr)	95	7.899	7.900	-0.001	95	118418	30.1	
30 Methylene Chloride	84	2.856	2.856	0.0	69	3211	0.4783	
75 Toluene	91	5.673	5.679	-0.006	15	2003	0.0774	

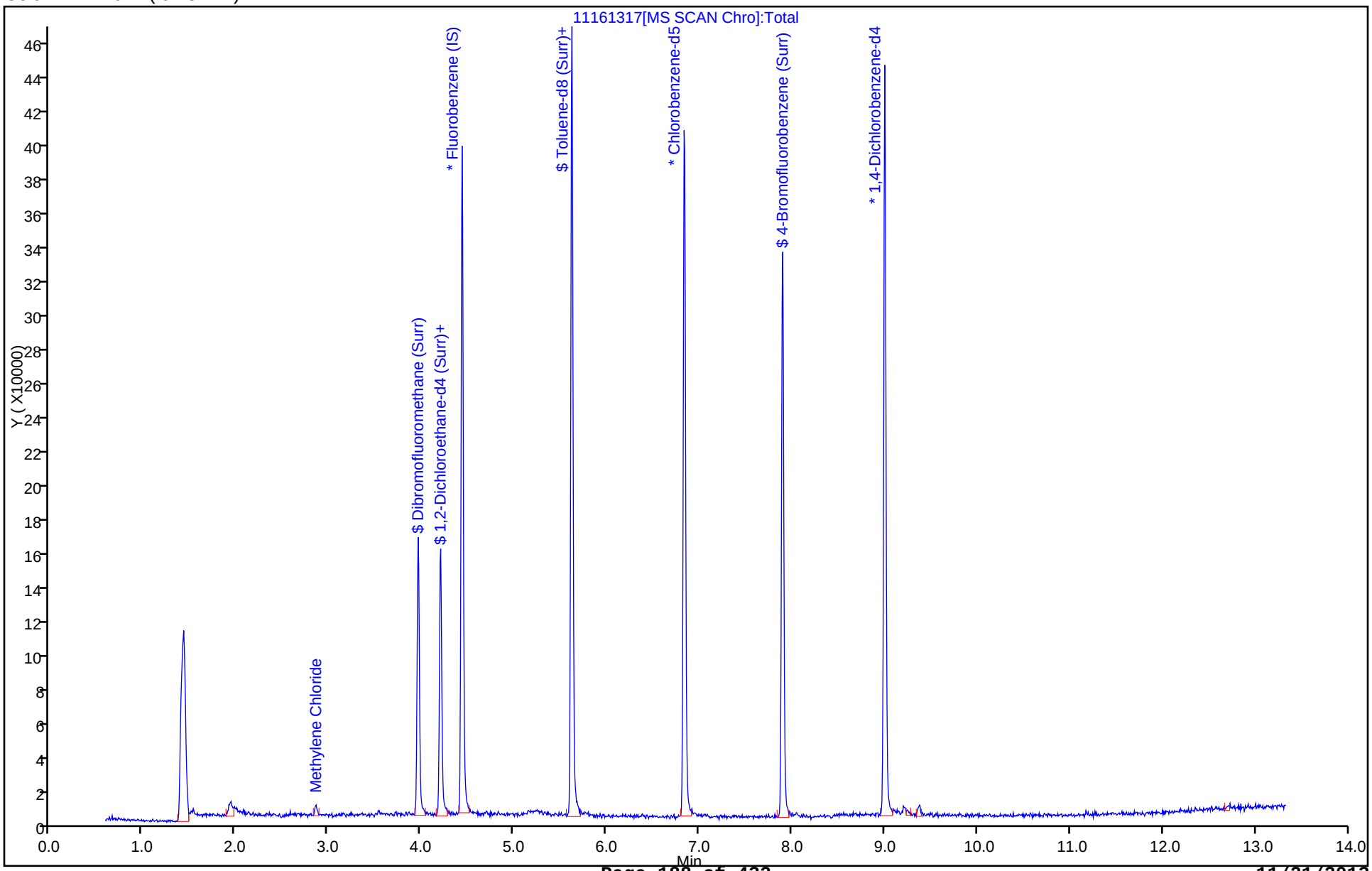
Report Date: 19-Nov-2013 11:34:28 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP34\20131116-28565.b\11161317.D

Injection Date:	16-Nov-2013 20:28:30	Instrument ID:	HP34	Operator ID:	JJR HP34
Lims ID:	490-39686-A-7	Lab Sample ID:	490-39686-7	Worklist Smp#:	38
Client ID:	Trip Blank				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8260HP34	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Report Date: 19-Nov-2013 11:34:28 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP34\20131116-28565.b\11161317.D

Injection Date: 16-Nov-2013 20:28:30 Instrument ID: HP34

Lims ID: 490-39686-A-7 Lab Sample ID: 490-39686-7

Client ID: Trip Blank

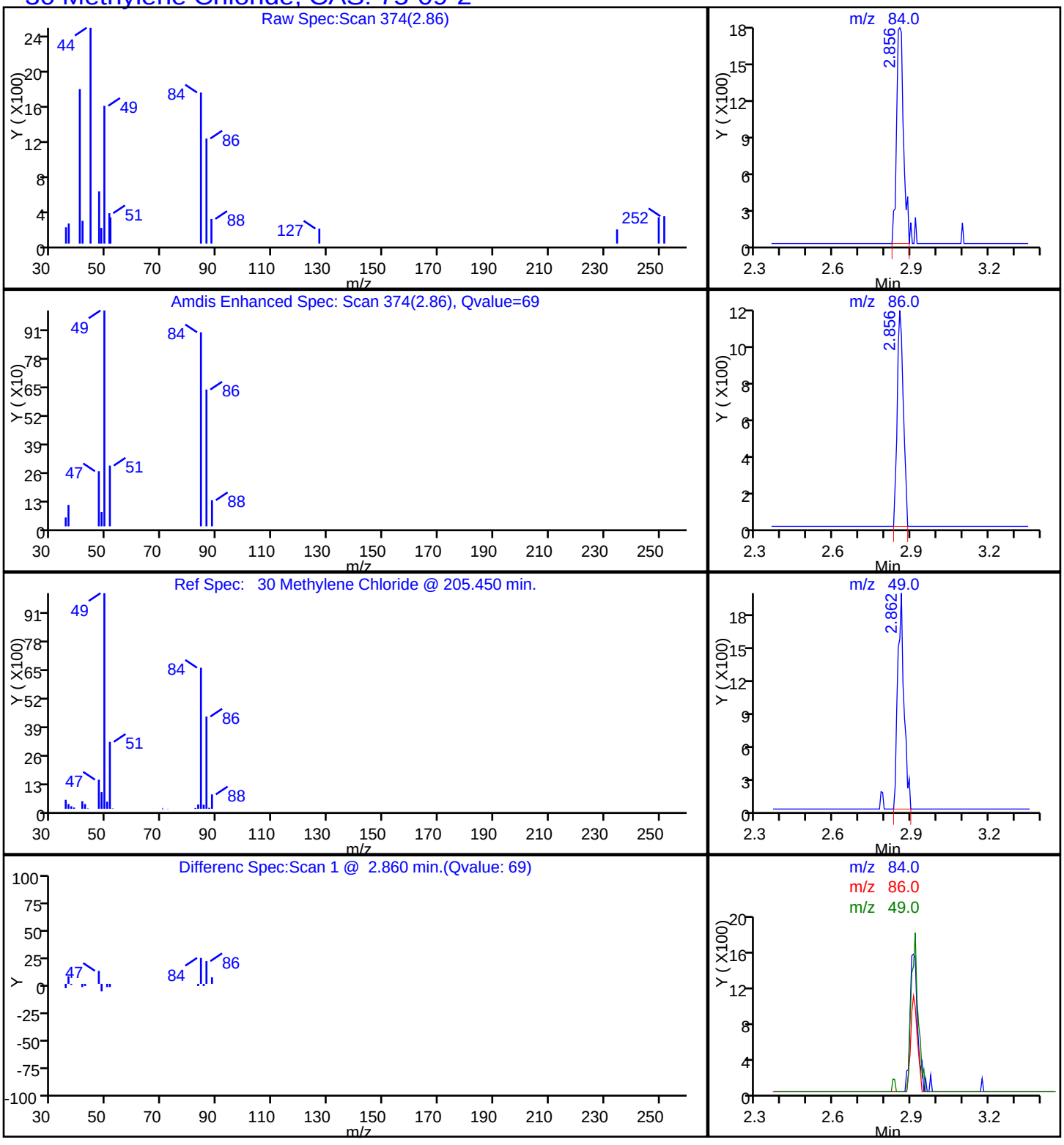
Operator ID: JJR HP34 ALS Bottle#: 17 Worklist Smp#: 38

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260HP34 Limit Group: MSV 8260B ICAL

Column: DB-624 (0.18 mm) Detector MS SCAN

30 Methylene Chloride, CAS: 75-09-2



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39686-2 Analy Batch No.: 101606

SDG No.:

Instrument ID: HP34 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2013 12:03 Calibration End Date: 08/21/2013 16:06 Calibration ID: 18346

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0005 490-101606/2	08211308.D
Level 2	STD001 490-101606/3	08211309.D
Level 3	STD002 490-101606/4	08211310.D
Level 4	STD005 490-101606/5	08211311.D
Level 5	STD010 490-101606/6	08211312.D
Level 6	ICIS 490-101606/7	08211313.D
Level 7	STD050 490-101606/8	08211314.D
Level 8	STD100 490-101606/10	08211316.D
Level 9	STD200 490-101606/11	08211317.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.7265 0.7058	0.6934 0.6877	0.8206 0.7948	0.7480 0.6540	0.7640	Ave		0.7327				7.4		15.0			
Chloromethane	0.5554 0.5640	0.5359 0.5195	0.6375 0.6734	0.6521 0.6483	0.6209	Ave		0.6008			0.1000	9.5		15.0			
Vinyl chloride	0.7480 0.6617	0.6310 0.6421	0.6688 0.7370	0.6905 0.6276	0.7080	Ave		0.6794				6.5		15.0			
Butadiene	0.5787 0.5961	0.5378 0.5741	0.5730 0.6486	0.5662 0.5794	0.6110	Ave		0.5850				5.3		15.0			
Bromomethane	0.1854 0.2097	0.2134 0.2195	0.1902 0.2819	0.1921 0.1918	0.1966	Ave		0.2090				14.0		15.0			
Chloroethane	0.4427 0.3894	0.4068 0.3574	0.4591 0.3980	0.3941 0.3273	0.4089	Ave		0.3982				10.0		15.0			
Dichlorofluoromethane	1.0533 1.0104	1.0515 0.9429	1.0865 1.0552	1.0443 0.8823	1.0927	Ave		1.0244				6.8		15.0			
Trichlorofluoromethane	0.8755 0.7755	0.9281 0.7984	0.8553 0.9488	0.8726 0.8239	0.9264	Ave		0.8672				7.0		15.0			
Ethanol	0.0054 0.0049	0.0067 0.0048	0.0050 0.0054	0.0047 0.0049	0.0052	Ave		0.0052				12.0		15.0			
Diethyl ether	1.1030 0.4583	0.7549 0.4249	0.6289 0.4779	0.5223 0.4373	0.4928	Lin2	0.3253	0.4485							0.9980		0.9900
Acrolein	0.0357 0.0586	0.0637 0.0604	0.0577 0.0722	0.0582 0.0691	0.0630	Lin1	-0.049	0.0682							0.9960		0.9900
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.5491 0.5553	0.6119 0.5076	0.5673 0.5820	0.6003 0.4916	0.5639	Ave		0.5588				7.1		15.0			
1,1-Dichloroethene	0.4587 0.4697	0.4695 0.4533	0.5122 0.5211	0.4713 0.4576	0.5008	Ave		0.4794				5.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39686-2 Analy Batch No.: 101606

SDG No.:

Instrument ID: HP34 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2013 12:03 Calibration End Date: 08/21/2013 16:06 Calibration ID: 18346

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Acetone	0.1053 0.0454	0.0705 0.0416	0.0597 0.0485	0.0476 0.0463	0.0483	Lin2	0.1484	0.0442							0.9960		0.9900
Isopropyl alcohol	+++++ 0.0202	0.0203 0.0215	0.0201 0.0249	0.0203 0.0250	0.0202	Ave		0.0216				10.0		15.0			
Iodomethane	0.1606 0.3921	0.2061 0.4262	0.2285 0.5252	0.2985 +++++	0.3687	Lin	-1.275	0.5188							0.9920		0.9900
Carbon disulfide	1.6187 1.4226	1.4475 1.3357	1.4751 1.4995	1.4652 1.2085	1.4916	Ave		1.4405				7.9		15.0			
Acetonitrile	0.1459 0.1403	0.1481 0.1275	0.1523 0.1400	0.1465 0.1206	0.1443	Ave		0.1406				7.3		15.0			
3-Chloro-1-propene	0.3360 0.3593	0.1832 0.3559	0.3690 0.4160	0.3482 0.3848	0.2906	Lin1	-0.113	0.3869							0.9960		0.9900
Methyl acetate	0.4530 0.4839	0.4987 0.4382	0.4882 0.4511	0.4909 0.3561	0.5103	Ave		0.4634				10.0		15.0			
Methylene Chloride	0.7585 0.5732	0.6898 0.5274	0.6266 0.6051	0.5962 0.5309	0.5775	Ave		0.6095				12.0		15.0			
tert-Butyl alcohol (TBA)	0.0160 0.0153	0.0132 0.0161	0.0146 0.0200	0.0151 0.0207	0.0155	Ave		0.0163				15.0		15.0			
Acrylonitrile	0.2081 0.2009	0.1981 0.1873	0.2050 0.1974	0.2078 0.1586	0.2073	Ave		0.1967				8.0		15.0			
Methyl tert-butyl ether	0.5079 0.5493	0.5385 0.5555	0.5626 0.7169	0.5607 0.6692	0.5583	Ave		0.5799				12.0		15.0			
trans-1,2-Dichloroethene	0.6772 0.7313	0.7299 0.6770	0.7503 0.7888	0.7555 0.6773	0.7585	Ave		0.7273				5.7		15.0			
Hexane	1.5331 0.8853	1.2249 0.8497	1.0971 0.9944	0.9517 0.8291	0.9394	Lin2	0.3262	0.8931							0.9960		0.9900
1,1-Dichloroethane	0.9487 0.9624	0.8685 0.9230	0.9541 1.0647	0.9393 0.8929	1.0078	Ave		0.9513			0.1000	6.2		15.0			
Vinyl acetate	1.1850 1.2102	1.1030 1.1542	1.1145 1.1840	1.1239 0.9073	1.2039	Ave		1.1318				8.2		15.0			
Diisopropyl ether	1.4035 1.4119	1.4497 1.3824	1.3336 1.5110	1.3800 1.2070	1.4560	Ave		1.3928				6.2		15.0			
Chloroprene	0.8136 0.7855	0.7130 0.7596	0.7700 0.8984	0.7466 0.7525	0.7895	Ave		0.7810				6.7		15.0			
Ethyl tert-butyl ether	0.4534 0.4645	0.4337 0.4667	0.4506 0.5969	0.4399 0.5665	0.4503	Ave		0.4803				12.0		15.0			
cis-1,2-Dichloroethene	0.8905 0.8831	0.8491 0.8363	0.8811 0.9689	0.8818 0.8225	0.9218	Ave		0.8817				5.1		15.0			
2-Butanone (MEK)	0.0525 0.0580	0.0574 0.0581	0.0625 0.0679	0.0606 0.0604	0.0610	Ave		0.0598				7.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39686-2 Analy Batch No.: 101606

SDG No.:

Instrument ID: HP34 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2013 12:03 Calibration End Date: 08/21/2013 16:06 Calibration ID: 18346

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Ethyl acetate	0.8511 0.8400	0.8853 0.7716	0.8533 0.8437	0.8208 0.6974	0.8298	Ave		0.8214				6.8		15.0			
2,2-Dichloropropane	0.3602 0.4008	0.3790 0.4222	0.3790 0.5831	0.3614 0.5538	0.3854	Lin	-1.480	0.5624							0.9960		0.9900
Propionitrile	0.0717 0.0733	0.0742 0.0738	0.0770 0.0815	0.0777 0.0719	0.0759	Ave		0.0752				4.2		15.0			
Methacrylonitrile	0.2899 0.3112	0.3014 0.2765	0.3150 0.2703	0.3167 0.1974	0.3290	Ave		0.2897				14.0		15.0			
Bromochloromethane	0.2874 0.3224	0.3428 0.3067	0.3291 0.3669	0.3164 0.3168	0.3251	Ave		0.3237				6.9		15.0			
Chloroform	1.0886 0.9408	1.0017 0.9053	0.9778 1.0224	0.9537 0.8664	0.9927	Ave		0.9721				6.7		15.0			
Tetrahydrofuran	0.1628 0.1522	0.1626 0.1470	0.1632 0.1688	0.1322 0.1514	0.1483	Ave		0.1543				7.3		15.0			
1,1,1-Trichloroethane	0.5541 0.6668	0.5348 0.6825	0.6151 0.8409	0.5947 0.7337	0.6403	Ave		0.6514				15.0		15.0			
Cyclohexane	1.0271 1.0003	0.9989 0.9529	0.9670 1.0914	1.0214 0.9069	1.0342	Ave		1.0000				5.3		15.0			
1,1-Dichloropropene	0.6127 0.6958	0.6590 0.6662	0.7206 0.7719	0.6745 0.6554	0.7038	Ave		0.6844				6.6		15.0			
Carbon tetrachloride	0.5741 0.6506	0.5751 0.6598	0.6100 0.7767	0.6031 0.6764	0.6548	Ave		0.6423				9.8		15.0			
Isobutanol	0.0226 0.0481	0.0440 0.0483	0.0427 0.0568	0.0413 0.0533	0.0429	Lin1	-0.204	0.0532							0.9960		0.9900
1,2-Dichloroethane	0.9042 0.7802	0.8496 0.7317	0.8655 0.8077	0.8137 0.6790	0.8087	Ave		0.8045				8.5		15.0			
Benzene	2.2750 2.2150	2.3322 2.0521	2.2964 2.2129	2.3464 1.7145	2.2874	Ave		2.1924				9.1		15.0			
Tert-amyl methyl ether	0.3410 0.3456	0.3195 0.3498	0.3598 0.4324	0.3380 0.4224	0.3316	Ave		0.3600				11.0		15.0			
Heptane	0.7552 0.8186	0.8173 0.7804	0.8347 0.9214	0.7822 0.7644	0.7874	Ave		0.8068				6.2		15.0			
n-Butanol	0.0040 0.0082	0.0067 0.0096	0.0075 0.0125	0.0069 0.0124	0.0077	Lin	-1.010	0.0126							0.9970		0.9900
Trichloroethene	0.5596 0.5828	0.6021 0.5524	0.5763 0.6432	0.5827 0.5552	0.5899	Ave		0.5827				4.8		15.0			
Ethyl acrylate	0.3785 0.5352	0.4288 0.5578	0.4673 0.6671	0.4840 0.6050	0.5210	Lin1	-0.220	0.6112							0.9950		0.9900
Methylcyclohexane	1.0321 1.0316	1.0054 0.9808	0.9565 1.1663	1.0349 0.9659	1.0746	Ave		1.0276				6.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39686-2 Analy Batch No.: 101606

SDG No.:

Instrument ID: HP34 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2013 12:03 Calibration End Date: 08/21/2013 16:06 Calibration ID: 18346

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,2-Dichloropropane	0.5212 0.5200	0.5251 0.5056	0.5161 0.5848	0.5306 0.4943	0.5279	Ave		0.5251				4.8		15.0			
Methyl methacrylate	0.4528 0.4679	0.3494 0.4605	0.4047 0.5159	0.4108 0.4387	0.4602	Ave		0.4401				11.0		15.0			
Dibromomethane	0.2966 0.3081	0.3316 0.2936	0.3297 0.3238	0.3153 0.2804	0.3178	Ave		0.3108				5.6		15.0			
1,4-Dioxane	+++++ 0.0055	0.0035 0.0055	0.0038 0.0065	0.0042 0.0061	0.0050	Lin1	-0.094	0.0061							0.9960		0.9900
Bromodichloromethane	0.5145 0.6343	0.5541 0.6465	0.5800 0.7635	0.5726 0.6680	0.6093	Ave		0.6159				12.0		15.0			
2-Nitropropane	+++++ 0.1158	0.0587 0.1382	0.0917 0.1833	0.0838 0.1785	0.0934	Lin	-1.454	0.1821							0.9970		0.9900
2-Chloroethyl vinyl ether	0.3020 0.3342	0.2156 0.3695	0.2635 0.4553	0.2638 0.4114	0.3176	Lin1	-0.200	0.4122							0.9920		0.9900
cis-1,3-Dichloropropene	0.4274 0.7839	0.4946 0.9002	0.5906 1.1140	0.5926 0.9661	0.6732	Lin	-1.176	0.9974							0.9940		0.9900
4-Methyl-2-pentanone (MIBK)	0.1830 0.2550	0.2053 0.2485	0.1962 0.2792	0.2291 0.2326	0.2476	Ave		0.2307				13.0		15.0			
Toluene	3.1670 3.1286	3.1371 2.9495	3.2693 3.0302	3.1115 2.2823	3.2639	Ave		3.0377				9.9		15.0			
trans-1,3-Dichloropropene	0.2698 0.5000	0.3005 0.6229	0.3127 0.8489	0.3752 0.7913	0.4354	Lin	-2.562	0.8099							0.9950		0.9900
Ethyl methacrylate	0.4972 0.7712	0.5783 0.8189	0.6053 0.9659	0.6485 0.8364	0.6947	Lin1	-0.350	0.8639							0.9940		0.9900
1,1,2-Trichloroethane	0.6050 0.6670	0.6888 0.6239	0.6592 0.6967	0.6483 0.5917	0.6767	Ave		0.6508				5.7		15.0			
Tetrachloroethene	0.9123 0.8632	0.8716 0.8157	0.9596 1.0403	0.9135 0.8993	0.8923	Ave		0.9075				7.0		15.0			
1,3-Dichloropropane	1.1323 1.1298	1.1390 1.0573	1.1954 1.1560	1.1238 0.9455	1.1711	Ave		1.1167				6.7		15.0			
2-Hexanone	0.1361 0.2216	0.1339 0.2199	0.1704 0.2573	0.1801 0.2210	0.2016	Lin1	-0.429	0.2306							0.9940		0.9900
n-Butyl acetate	0.1553 0.3195	0.2894 0.3575	0.1981 0.4265	0.2142 0.4059	0.2904	Lin1	-0.240	0.3990							0.9920		0.9900
Chlorodibromomethane	0.3017 0.4264	0.3621 0.4523	0.3511 0.5548	0.3706 0.4965	0.4005	Lin1	-0.205	0.5015							0.9930		0.9900
1,2-Dibromoethane (EDB)	0.6250 0.6221	0.5500 0.5913	0.5745 0.6892	0.5870 0.5994	0.5934	Ave		0.6035				6.5		15.0			
Chlorobenzene	1.9890 2.0564	2.0210 1.9196	2.1180 2.0946	2.0295 1.6556	2.0849	Ave		1.9965			0.3000	7.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39686-2 Analy Batch No.: 101606

SDG No.:

Instrument ID: HP34 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2013 12:03 Calibration End Date: 08/21/2013 16:06 Calibration ID: 18346

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,1,1,2-Tetrachloroethane	0.3864 0.5979	0.4997 0.6073	0.4859 0.7263	0.5214 0.6322	0.5870	Lin2	-0.123	0.6136							0.9900		0.9900
Ethylbenzene	3.3226 3.3069	3.0525 3.1294	3.2494 3.2124	3.3276 2.3861	3.4927	Ave		3.1644				10.0		15.0			
m,p-Xylene	2.5333 2.6020	2.4218 2.5029	2.5122 2.6911	2.4626 2.0617	2.6996	Ave		2.4986				7.6		15.0			
o-Xylene	2.5309 2.7618	2.5142 2.6055	2.6632 2.7410	2.6055 2.0881	2.8401	Ave		2.5945				8.4		15.0			
Styrene	1.5903 2.1359	1.7458 2.0841	1.7632 2.2450	1.8937 1.7684	2.0710	Ave		1.9219				11.0		15.0			
Bromoform	0.1403 0.2740	0.2102 0.3055	0.2023 0.4109	0.2457 0.3923	0.2500	Lin	-1.135	0.3988			0.1000				0.9960		0.9900
Isopropylbenzene	3.1127 3.4183	2.9026 3.2267	3.2254 3.3748	3.2269 2.5020	3.4594	Ave		3.1610				9.5		15.0			
Cyclohexanone	0.0063 0.0101	0.0054 0.0127	0.0089 0.0173	0.0081 0.0174	0.0088	Lin	-0.706	0.0176							0.9960		0.9900
1,1,2,2-Tetrachloroethane	1.3485 1.4591	1.2884 1.3436	1.4999 1.5586	1.3653 1.3317	1.4729	Ave		1.4076			0.3000	6.5		15.0			
Bromobenzene	3.1821 2.8131	3.1023 2.5973	2.8879 3.0040	2.9165 2.5465	2.9868	Ave		2.8929				7.4		15.0			
1,2,3-Trichloropropane	0.3600 0.4758	0.3840 0.4408	0.5315 0.5244	0.4560 0.4651	0.4776	Ave		0.4572				12.0		15.0			
trans-1,4-Dichloro-2-butene	+++++ 0.3750	0.3175 0.3582	0.2808 0.4592	0.3160 0.4250	0.3485	Lin1	-0.271	0.4238							0.9930		0.9900
N-Propylbenzene	7.1216 7.5534	7.0333 6.8181	7.4359 7.1261	7.2468 5.1285	7.8629	Ave		7.0363				11.0		15.0			
2-Chlorotoluene	4.1759 4.4532	4.4880 4.1169	4.6696 4.5822	4.4515 3.6042	4.6704	Ave		4.3569				7.9		15.0			
1,3,5-Trimethylbenzene	4.2353 5.1809	4.6327 4.7864	4.8126 5.3520	4.9920 4.0420	5.2572	Ave		4.8101				9.3		15.0			
4-Chlorotoluene	5.5212 5.1635	5.1145 4.7724	5.2276 5.2728	5.1849 4.1439	5.4694	Ave		5.0967				8.2		15.0			
tert-Butylbenzene	4.8039 5.1579	4.5343 4.8183	4.6839 5.3721	4.7506 4.0733	5.1499	Ave		4.8160				8.0		15.0			
Pentachloroethane	0.4306 0.6956	0.5145 0.7292	0.5980 0.8006	0.6108 0.6577	0.6495	Lin2	-0.147	0.6952							0.9930		0.9900
1,2,4-Trimethylbenzene	4.5001 5.1403	4.3515 4.7379	4.5614 5.2915	4.6685 4.0361	5.1540	Ave		4.7157				8.8		15.0			
sec-Butylbenzene	5.8587 6.7914	5.8314 6.2221	6.1748 6.7652	6.1641 4.9962	6.8719	Ave		6.1862				9.6		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39686-2 Analy Batch No.: 101606

SDG No.:

Instrument ID: HP34 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2013 12:03 Calibration End Date: 08/21/2013 16:06 Calibration ID: 18346

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,3-Dichlorobenzene	3.2072 3.1031	3.0715 2.8679	3.0184 3.2624	3.0547 2.6096	3.2419	Ave		3.0485				6.7		15.0			
p-Isopropyltoluene	4.5295 5.4596	4.4350 5.1138	4.6474 5.7818	4.8764 4.3490	5.3736	Ave		4.9518				10.0		15.0			
1,4-Dichlorobenzene	3.1131 3.0220	3.2760 2.8230	3.0918 3.1775	3.0751 2.6228	3.2463	Ave		3.0497				6.8		15.0			
1,2,3-Trimethylbenzene	4.4856 5.1154	4.6850 4.8686	4.5988 5.3481	4.5818 4.0743	5.1306	Ave		4.7653				8.2		15.0			
Benzyl chloride	0.4213 0.4670	0.3833 0.5377	0.4446 0.8203	0.4356 0.8469	0.4515	Lin	-3.918	0.8522							0.9920		0.9900
n-Butylbenzene	4.4000 5.0838	4.0884 4.7318	4.4121 5.2998	4.5962 4.0098	5.0600	Ave		4.6313				9.7		15.0			
1,2-Dichlorobenzene	2.7975 2.8965	2.7105 2.6236	2.8657 3.0492	2.8953 2.4653	3.0092	Ave		2.8125				6.6		15.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1412	+++++ 0.1602	0.1123 0.2386	0.1093 0.2565	0.1429	Lin	-1.810	0.2606							0.9930		0.9900
1,3,5-Trichlorobenzene	1.7876 1.8492	1.8395 1.7136	1.8472 2.1021	1.7230 1.8391	1.8771	Ave		1.8420				6.1		15.0			
1,2,4-Trichlorobenzene	1.4089 1.4993	1.3787 1.4115	1.3931 1.7501	1.4203 1.5443	1.5371	Ave		1.4826				8.0		15.0			
Hexachlorobutadiene	0.8681 0.7128	0.6332 0.6794	0.8029 0.8346	0.7225 0.7590	0.7926	Ave		0.7561				10.0		15.0			
Naphthalene	3.0484 3.3107	2.9150 3.2498	2.7855 4.0376	3.0079 3.4607	3.1953	Ave		3.2234				11.0		15.0			
1,2,3-Trichlorobenzene	1.2843 1.2726	1.2743 1.2043	1.1760 1.5062	1.1604 1.3341	1.2153	Ave		1.2697				8.3		15.0			
2-Methylnaphthalene	1.1736 1.1299	0.8181 1.2194	0.7693 1.7339	0.7567 1.7057	1.0394	Lin	-6.211	1.7275							0.9950		0.9900
1-Methylnaphthalene	+++++ 0.9187	0.7167 1.0842	0.7421 1.5884	0.6762 1.8066	0.9188	Lin	-2.355	1.8086							0.9900		0.9900
Dibromofluoromethane (Surr)	0.2530 0.2525	0.2544 0.2551	0.2461 0.2447	0.2552 0.2450	0.2604	Ave		0.2518				2.2		15.0			
1,2-Dichloroethane-d4 (Surr)	0.3352 0.3280	0.3320 0.3147	0.3351 0.3091	0.3297 0.2965	0.3247	Ave		0.3228				4.1		15.0			
Toluene-d8 (Surr)	1.3509 1.3190	1.3477 1.3331	1.3354 1.3111	1.3372 1.2930	1.3450	Ave		1.3303				1.4		15.0			
4-Bromofluorobenzene (Surr)	0.8918 0.8691	0.8980 0.8380	0.8936 0.8867	0.8726 0.8943	0.9048	Ave		0.8832				2.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39686-2 Analy Batch No.: 101606

SDG No.:

Instrument ID: HP34 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2013 12:03 Calibration End Date: 08/21/2013 16:06 Calibration ID: 18346

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0005 490-101606/2	08211308.D
Level 2	STD001 490-101606/3	08211309.D
Level 3	STD002 490-101606/4	08211310.D
Level 4	STD005 490-101606/5	08211311.D
Level 5	STD010 490-101606/6	08211312.D
Level 6	ICIS 490-101606/7	08211313.D
Level 7	STD050 490-101606/8	08211314.D
Level 8	STD100 490-101606/10	08211316.D
Level 9	STD200 490-101606/11	08211317.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Dichlorodifluoromethane	FB	Ave	3931 153268	7560 384972	17911 902986	39708 1528032	82127	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Chloromethane	FB	Ave	3005 122483	5843 290822	13915 765101	34616 1514860	66748	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Vinyl chloride	FB	Ave	4047 143690	6880 359482	14598 837303	36654 1466304	76111	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Butadiene	FB	Ave	3131 129453	5864 321412	12506 736874	30055 1353724	65686	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Bromomethane	FB	Ave	1003 45540	2327 122895	4152 320321	10197 448126	21139	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Chloroethane	FB	Ave	2395 84552	4435 200074	10020 452217	20920 764627	43956	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Dichlorofluoromethane	FB	Ave	5699 219411	11465 527853	23714 1198829	55438 2061548	117469	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Trichlorofluoromethane	FB	Ave	4737 168415	10119 446961	18669 1077979	46320 1925043	99587	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Ethanol	FB	Ave	1453 53319	3641 133125	5446 307106	12357 575728	27909	25.0 1000	50.0 2500	100 5000	250 10000	500
Diethyl ether	FB	Lin2	5968 99525	8231 237866	13726 542906	27726 1021663	52978	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Acrolein	FB	Lin1	483 31790	1736 84543	3149 205020	7725 403366	16920	1.25 50.0	2.50 125	5.00 250	12.5 500	25.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	FB	Ave	2971 120587	6672 284173	12383 661180	31867 1148689	60620	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,1-Dichloroethene	FB	Ave	2482 102008	5119 253736	11180 592007	25021 1069174	53833	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Acetone	FB	Lin2	2849 49275	3842 116407	6516 275316	12646 541448	25936	2.50 100	5.00 250	10.0 500	25.0 1000	50.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39686-2 Analy Batch No.: 101606

SDG No.:

Instrument ID: HP34 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2013 12:03 Calibration End Date: 08/21/2013 16:06 Calibration ID: 18346

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Isopropyl alcohol	FB	Ave	+++++ 43766	2212 120245	4395 283399	10769 584522	21668	+++++ 200	10.0 500	20.0 1000	50.0 2000	100
Iodomethane	FB	Lin	869 85156	2247 238590	4988 596684	15845 +++++	39633	0.500 20.0	1.00 50.0	2.00 100	5.00 +++++	10.0
Carbon disulfide	FB	Ave	8758 308920	15783 747735	32197 1703537	77778 2823658	160346	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Acetonitrile	FB	Ave	7896 304723	16147 713635	33249 1591014	77746 2817349	155128	5.00 200	10.0 500	20.0 1000	50.0 2000	100
3-Chloro-1-propene	FB	Lin1	1818 78028	1998 199258	8054 472668	18483 899079	31238	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Methyl acetate	FB	Ave	12256 525359	27186 1226594	53276 2562293	130304 4159881	274309	2.50 100	5.00 250	10.0 500	25.0 1000	50.0
Methylene Chloride	FB	Ave	4104 124480	7521 295266	13677 687475	31651 1240409	62084	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
tert-Butyl alcohol (TBA)	FB	Ave	868 33166	1438 90072	3196 226848	7993 482935	16612	5.00 200	10.0 500	20.0 1000	50.0 2000	100
Acrylonitrile	FB	Ave	11258 436244	21603 1048271	44742 2242750	110323 3706740	222835	5.00 200	10.0 500	20.0 1000	50.0 2000	100
Methyl tert-butyl ether	FB	Ave	2748 119293	5871 310979	12279 814437	29766 1563627	60018	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
trans-1,2-Dichloroethene	FB	Ave	3664 158811	7958 379019	16377 896211	40107 1582404	81543	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Hexane	FB	Lin2	8295 192259	13355 475646	23946 1129755	50521 1937125	100993	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,1-Dichloroethane	FB	Ave	5133 209000	9469 516705	20824 1209647	49862 2086337	108344	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Vinyl acetate	FB	Ave	12823 525607	24053 1292302	48650 2690402	119327 4239717	258834	1.00 40.0	2.00 100	4.00 200	10.0 400	20.0
Diisopropyl ether	FB	Ave	7594 306594	15807 773887	29108 1716651	73257 2820106	156528	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Chloroprene	FB	Ave	4402 170580	7774 425217	16806 1020712	39631 1758259	84873	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Ethyl tert-butyl ether	FB	Ave	2453 100875	4729 261253	9836 678190	23351 1323628	48405	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
cis-1,2-Dichloroethene	FB	Ave	4818 191773	9258 468178	19231 1100741	46808 1921649	99099	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
2-Butanone (MEK)	FB	Ave	1420 62992	3129 162556	6822 385814	16095 705311	32795	2.50 100	5.00 250	10.0 500	25.0 1000	50.0
Ethyl acetate	FB	Ave	9210 364838	19305 863899	37250 1917079	87140 3259084	178409	1.00 40.0	2.00 100	4.00 200	10.0 400	20.0
2,2-Dichloropropane	FB	Lin	1949 87037	4132 236333	8273 662457	19187 1294054	41429	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39686-2 Analy Batch No.: 101606

SDG No.:

Instrument ID: HP34 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2013 12:03 Calibration End Date: 08/21/2013 16:06 Calibration ID: 18346

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Propionitrile	FB	Ave	3878 159172	8089 413080	16817 925882	41272 1680682	81589	5.00 200	10.0 500	20.0 1000	50.0 2000	100
Methacrylonitrile	FB	Ave	15685 675823	32860 1547821	68765 3070797	168127 4611836	353639	5.00 200	10.0 500	20.0 1000	50.0 2000	100
Bromochloromethane	FB	Ave	1555 70003	3738 171701	7183 416798	16796 740132	34952	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Chloroform	FB	Ave	5890 204294	10922 506786	21342 1161576	50625 2024357	106714	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Tetrahydrofuran	FB	Ave	1762 66118	3545 164543	7123 383563	14033 707332	31877	1.00 40.0	2.00 100	4.00 200	10.0 400	20.0
1,1,1-Trichloroethane	FB	Ave	2998 144801	5831 382062	13425 955367	31571 1714341	68832	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Cyclohexane	FB	Ave	5557 217219	10891 533462	21106 1239984	54222 2119002	111176	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,1-Dichloropropene	FB	Ave	3315 151105	7185 372968	15729 876951	35808 1531392	75663	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Carbon tetrachloride	FB	Ave	3106 141286	6270 369390	13315 882452	32013 1580426	70396	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Isobutanol	FB	Lin1	1225 104420	4795 270366	9314 645806	21913 1245410	46108	5.00 200	10.0 500	20.0 1000	50.0 2000	100
1,2-Dichloroethane	FB	Ave	4892 169421	9263 409613	18891 917590	43197 1586512	86937	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Benzene	FB	Ave	12309 481002	25429 1148775	50122 2514061	124557 4005979	245905	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Tert-amyl methyl ether	FB	Ave	1845 75039	3484 195805	7853 491240	17943 986946	35648	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Heptane	FB	Ave	4086 177755	8911 436867	18218 1046784	41522 1786068	84646	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
n-Butanol	FB	Lin	544 44454	1814 134928	4092 354292	9192 725579	20754	12.5 500	25.0 1250	50.0 2500	125 5000	250
Trichloroethene	FB	Ave	3028 126553	6565 309262	12578 730800	30930 1297128	63421	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Ethyl acrylate	FB	Lin1	2048 116232	4675 312268	10200 757864	25691 1413542	56007	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Methylcyclohexane	FB	Ave	5584 224010	10962 549069	20877 1325054	54938 2256843	115517	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2-Dichloropropane	FB	Ave	2820 112914	5725 283029	11264 664365	28169 1154866	56751	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Methyl methacrylate	FB	Ave	4900 203229	7620 515555	17667 1172185	43619 2049968	98942	1.00 40.0	2.00 100	4.00 200	10.0 400	20.0
Dibromomethane	FB	Ave	1605 66896	3615 164357	7196 367885	16738 655186	34164	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39686-2 Analy Batch No.: 101606

SDG No.:

Instrument ID: HP34 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2013 12:03 Calibration End Date: 08/21/2013 16:06 Calibration ID: 18346

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,4-Dioxane	FB	Lin1	+++++ 24048	753 61360	1642 148422	4453 283669	10775	+++++ 400	20.0 1000	40.0 2000	100 4000	200
Bromodichloromethane	FB	Ave	2784 137747	6041 361897	12659 867462	30396 1560842	65497	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
2-Nitropropane	FB	Lin	+++++ 50286	1279 154759	4003 416449	8901 834050	20091	+++++ 40.0	2.00 100	4.00 200	10.0 400	20.0
2-Chloroethyl vinyl ether	CBZ	Lin1	1134 52604	1686 152609	4003 392724	10111 750802	24347	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
cis-1,3-Dichloropropene	CBZ	Lin	1605 123385	3868 371803	8972 961012	22714 1763178	51601	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	3436 200662	8028 513231	14904 1204386	43910 2122916	94894	2.50 100	5.00 250	10.0 500	25.0 1000	50.0
Toluene	CBZ	Ave	11893 492447	24536 1218222	49665 2614013	119263 4165335	250194	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
trans-1,3-Dichloropropene	CBZ	Lin	1013 78696	2350 257272	4750 732320	14381 1444220	33376	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Ethyl methacrylate	CBZ	Lin1	1867 121385	4523 338219	9196 833210	24857 1526481	53252	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,1,2-Trichloroethane	CBZ	Ave	2272 104993	5387 257709	10014 600991	24849 1079790	51874	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Tetrachloroethene	CBZ	Ave	3426 135871	6817 336887	14577 897441	35016 1641159	68398	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,3-Dichloropropane	CBZ	Ave	4252 177829	8908 436691	18159 997251	43077 1725606	89769	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
2-Hexanone	CBZ	Lin1	2556 174362	5236 454062	12946 1109899	34516 2016209	77288	2.50 100	5.00 250	10.0 500	25.0 1000	50.0
n-Butyl acetate	FB	Lin1	840 69391	3155 200114	4324 484546	11372 948473	31223	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Chlorodibromomethane	CBZ	Lin1	1133 67112	2832 186804	5333 478560	14207 906211	30699	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2-Dibromoethane (EDB)	CBZ	Ave	2347 97921	4302 244231	8727 594519	22500 1093852	45489	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Chlorobenzene	CBZ	Ave	7469 323682	15807 792846	32176 1806940	77791 3021431	159818	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,1,1,2-Tetrachloroethane	CBZ	Lin2	1451 94117	3908 250846	7381 626513	19984 1153868	45000	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Ethylbenzene	CBZ	Ave	12477 520512	23874 1292551	49362 2771221	127547 4354611	267737	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
m,p-Xylene	CBZ	Ave	9513 409556	18941 1033771	38163 2321493	94390 3762617	206941	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
o-Xylene	CBZ	Ave	9504 434712	19664 1076154	40458 2364572	99867 3810831	217711	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39686-2 Analy Batch No.: 101606

SDG No.:

Instrument ID: HP34 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2013 12:03 Calibration End Date: 08/21/2013 16:06 Calibration ID: 18346

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Styrene	CBZ	Ave	5972 336189	13654 860809	26785 1936679	72587 3227322	158754	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Bromoform	CBZ	Lin	527 43120	1644 126187	3073 354473	9416 716037	19166	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Isopropylbenzene	CBZ	Ave	11689 538047	22702 1332706	48998 2911245	123686 4566295	265185	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Cyclohexanone	FB	Lin	343 22008	588 70964	1951 196197	4316 406283	9479	5.00 200	10.0 500	20.0 1000	50.0 2000	100
1,1,2,2-Tetrachloroethane	DCB	Ave	2521 120853	4926 304469	11490 716232	26825 1292147	58151	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Bromobenzene	DCB	Ave	5949 232994	11861 588580	22123 1380409	57303 2470931	117919	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2,3-Trichloropropane	DCB	Ave	673 39406	1468 99887	4072 240962	8959 451310	18854	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
trans-1,4-Dichloro-2-butene	DCB	Lin1	+++++ 31061	1214 81167	2151 211019	6208 412395	13760	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0
N-Propylbenzene	DCB	Ave	13314 625619	26890 1545039	56964 3274675	142383 4976246	310430	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
2-Chlorotoluene	DCB	Ave	7807 368840	17159 932921	35772 2105654	87462 3497170	184388	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,3,5-Trimethylbenzene	DCB	Ave	7918 429113	17712 1084635	36868 2459424	98082 3922020	207555	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
4-Chlorotoluene	DCB	Ave	10322 427671	19554 1081473	40047 2423026	101872 4020928	215933	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
tert-Butylbenzene	DCB	Ave	8981 427205	17336 1091862	35882 2468625	93338 3952372	203318	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Pentachloroethane	DCB	Lin2	805 57617	1967 165250	4581 367885	12001 638170	25642	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2,4-Trimethylbenzene	DCB	Ave	8413 425753	16637 1073647	34943 2431619	91725 3916289	203483	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
sec-Butylbenzene	DCB	Ave	10953 562504	22295 1409978	47303 3108820	121110 4847884	271303	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,3-Dichlorobenzene	DCB	Ave	5996 257018	11743 649891	23123 1499170	60017 2532161	127990	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
p-Isopropyltoluene	DCB	Ave	8468 452199	16956 1158833	35602 2656898	95809 4219862	212150	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,4-Dichlorobenzene	DCB	Ave	5820 250303	12525 639726	23685 1460147	60418 2544975	128164	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2,3-Trimethylbenzene	DCB	Ave	8386 423684	17912 1103272	35230 2457610	90021 3953321	202557	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Benzyl chloride	CBZ	Lin	1582 73500	2998 222090	6754 707616	16697 1545698	34613	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39686-2 Analy Batch No.: 101606

SDG No.:

Instrument ID: HP34 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/21/2013 12:03 Calibration End Date: 08/21/2013 16:06 Calibration ID: 18346

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
n-Butylbenzene	DCB	Ave	8226 421067	15631 1072255	33800 2435417	90304 3890780	199770	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2-Dichlorobenzene	DCB	Ave	5230 239903	10363 594538	21953 1401205	56886 2392106	118803	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2-Dibromo-3-Chloropropane	DCB	Lin	+++++ 11692	+++++ 36303	860 109627	2147 248885	5641	+++++ 20.0	+++++ 50.0	2.00 100	5.00 200	10.0
1,3,5-Trichlorobenzene	DCB	Ave	3342 153163	7033 388311	14151 965959	33852 1784477	74110	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2,4-Trichlorobenzene	DCB	Ave	2634 124177	5271 319864	10672 804243	27905 1498435	60684	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Hexachlorobutadiene	DCB	Ave	1623 59037	2421 153963	6151 383533	14195 736454	31291	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Naphthalene	DCB	Ave	5699 274214	11145 736442	21339 1855410	59098 3357951	126153	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2,3-Trichlorobenzene	DCB	Ave	2401 105408	4872 272899	9009 692132	22799 1294527	47982	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
2-Methylnaphthalene	DCB	Lin	2194 93588	3128 276337	5893 796801	14867 1655075	41034	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1-Methylnaphthalene	DCB	Lin	+++++ 15218	548 49137	1137 145986	2657 350603	7255	+++++ 4.00	0.200 10.0	0.400 20.0	1.00 40.0	2.00
Dibromofluoromethane (Surr)	FB	Ave	82132 82260	83225 85674	80574 83393	81269 85851	83984	30.0 30.0	30.0 30.0	30.0 30.0	30.0 30.0	30.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	108809 106850	108606 105692	109700 105348	105010 103910	104707	30.0 30.0	30.0 30.0	30.0 30.0	30.0 30.0	30.0
Toluene-d8 (Surr)	CBZ	Ave	304385 311422	316216 330361	304288 339299	307534 353957	309313	30.0 30.0	30.0 30.0	30.0 30.0	30.0 30.0	30.0
4-Bromofluorobenzene (Surr)	DCB	Ave	100038 107976	103002 113935	102687 122239	102867 130162	107169	30.0 30.0	30.0 30.0	30.0 30.0	30.0 30.0	30.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211308.D
Lims ID: std0005 Client ID:
Inject. Date: 21-Aug-2013 12:03:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: STD0005
Misc. Info.: 490-0023915-002
Operator: JJR HP34 Instrument ID: HP34
Purge Vol: 5.000 mL ALS Bottle#: 8
Lims Batch ID: 101606 Lims Sample ID: 2
Sublist: chrom-8260HP34*sub9
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP34\20130821-23915.b\8260HP34.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-77
Last Update: 22-Aug-2013 10:14:44 Calib Date: 21-Aug-2013 16:06:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211317.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK024

First Level Reviewer: redmondj Date: 22-Aug-2013 09:30:07

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.444	4.444	0.0	98	324634	30.0	
* 2 Chlorobenzene-d5	117	6.841	6.841	0.0	87	225314	30.0	
* 3 1,4-Dichlorobenzene-d4	152	9.007	9.007	0.0	95	112172	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.970	3.970	0.0	66	82132	30.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.207	4.213	-0.006	98	108809	31.2	
$ 6 Toluene-d8 (Surr)	98	5.624	5.624	0.0	93	304385	30.5	
$ 8 4-Bromofluorobenzene (Surr)	95	7.900	7.900	0.0	90	100038	30.3	
9 Dichlorodifluoromethane	85	1.573	1.566	0.007	81	3931	0.4958	
10 Chloromethane	50	1.706	1.706	0.0	51	3005	0.4622	
11 Vinyl chloride	62	1.779	1.779	0.0	42	4047	0.5505	
12 Butadiene	54	1.810	1.810	0.0	0	3131	0.4946	
13 Bromomethane	96	2.005	2.004	0.001	41	1003	0.4436	M
14 Chloroethane	64	2.078	2.071	0.007	58	2395	0.5559	
15 Dichlorofluoromethane	67	2.199	2.193	0.006	53	5699	0.5141	
16 Trichlorofluoromethane	101	2.242	2.242	0.0	57	4737	0.5048	
17 Ethanol	45	2.333	2.339	-0.006	46	1453	25.8	M
18 Ethyl ether	59	2.418	2.412	0.006	82	5968	0.5044	
19 Acrolein	56	2.503	2.497	0.006	44	483	1.37	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.558	2.558	0.0	54	2971	0.4913	
21 1,1-Dichloroethene	96	2.570	2.570	0.0	86	2482	0.4785	
22 Acetone	58	2.601	2.595	0.006	91	2849	2.60	
24 Iodomethane	142	2.668	2.674	-0.006	31	869	2.61	
26 Carbon disulfide	76	2.735	2.728	0.007	98	8758	0.5619	
28 3-Chloro-1-propene	76	2.777	2.783	-0.006	34	1818	0.7262	
27 Acetonitrile	41	2.771	2.783	-0.012	85	7896	5.19	M
29 Methyl acetate	43	2.789	2.789	0.0	97	12256	2.44	
30 Methylene Chloride	84	2.856	2.856	0.0	80	4104	0.6223	
31 2-Methyl-2-propanol	59	2.911	2.905	0.006	29	868	4.93	M

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
32 Acrylonitrile	53	3.002	3.002	0.0	90	11258	5.29	
33 Methyl tert-butyl ether	73	3.033	3.026	0.007	48	2748	0.4379	
34 trans-1,2-Dichloroethene	61	3.033	3.033	0.0	73	3664	0.4655	
35 Hexane	57	3.191	3.191	0.0	86	8295	0.4931	
36 1,1-Dichloroethane	63	3.294	3.294	0.0	64	5133	0.4986	
37 Vinyl acetate	43	3.306	3.306	0.0	95	12823	1.05	
38 Isopropyl ether	45	3.325	3.318	0.007	83	7594	0.5039	
39 2-Chloro-1,3-butadiene	53	3.355	3.349	0.006	58	4402	0.5209	
40 Tert-butyl ethyl ether	59	3.550	3.550	0.0	57	2453	0.4720	
41 cis-1,2-Dichloroethene	61	3.671	3.659	0.012	55	4818	0.5050	M
42 2,2-Dichloropropane	77	3.678	3.665	0.013	36	1949	2.95	
44 2-Butanone (MEK)	72	3.665	3.665	0.0	88	1420	2.19	
43 Ethyl acetate	43	3.678	3.665	0.013	75	9210	1.04	
45 Propionitrile	54	3.702	3.702	0.0	71	3878	4.76	
46 Methacrylonitrile	41	3.805	3.805	0.0	91	15685	5.00	
47 Chlorobromomethane	130	3.824	3.823	0.001	67	1555	0.4439	
48 Chloroform	83	3.860	3.860	0.0	57	5890	0.5599	
49 Tetrahydrofuran	42	3.872	3.872	0.0	38	1762	1.06	
51 1,1,1-Trichloroethane	97	4.006	4.006	0.0	63	2998	0.4253	
52 Cyclohexane	56	4.055	4.055	0.0	82	5557	0.5135	
53 1,1-Dichloropropene	75	4.109	4.109	0.0	61	3315	0.4476	
54 Carbon tetrachloride	117	4.116	4.122	-0.006	78	3106	0.4469	
55 Isobutyl alcohol	43	4.140	4.146	-0.006	44	1225	5.95	
58 1,2-Dichloroethane	62	4.255	4.261	-0.006	44	4892	0.5620	
57 Benzene	78	4.262	4.261	0.001	91	12309	0.5188	
59 Tert-amyl methyl ether	73	4.322	4.322	0.0	35	1845	0.4736	
60 n-Heptane	43	4.408	4.407	0.001	72	4086	0.4680	
61 n-Butanol	56	4.608	4.608	0.0	56	544	84.5	
62 Trichloroethene	130	4.700	4.706	-0.006	73	3028	0.4802	
63 Ethyl acrylate	55	4.754	4.748	0.006	0	2048	0.6703	
64 Methylcyclohexane	83	4.858	4.858	0.0	81	5584	0.5022	
65 1,2-Dichloropropane	63	4.870	4.870	0.0	60	2820	0.4963	
67 Methyl methacrylate	41	4.919	4.925	-0.006	65	4900	1.03	
68 Dibromomethane	93	4.955	4.961	-0.006	76	1605	0.4773	
70 Dichlorobromomethane	83	5.065	5.058	0.007	58	2784	0.4177	
72 2-Chloroethyl vinyl ether	63	5.277	5.271	0.006	6	1134	0.8516	
73 cis-1,3-Dichloropropene	75	5.399	5.399	0.0	48	1605	1.39	
74 4-Methyl-2-pentanone (MIBK)	58	5.521	5.521	0.0	83	3436	1.98	
75 Toluene	91	5.679	5.679	0.0	66	11893	0.5213	
76 trans-1,3-Dichloropropene	75	5.837	5.837	0.0	32	1013	3.33	
77 Ethyl methacrylate	69	5.904	5.898	0.006	52	1867	0.6925	
78 1,1,2-Trichloroethane	97	5.995	5.995	0.0	1	2272	0.4648	
79 Tetrachloroethene	166	6.135	6.135	0.0	83	3426	0.5026	
80 1,3-Dichloropropane	76	6.141	6.141	0.0	64	4252	0.5070	
81 2-Hexanone	58	6.202	6.196	0.006	84	2556	3.34	
82 n-Butyl acetate	43	6.293	6.293	0.0	24	840	0.7971	
83 Chlorodibromomethane	127	6.324	6.336	-0.012	9	1133	0.7103	
84 Ethylene Dibromide	107	6.452	6.445	0.007	44	2347	0.5178	
86 Chlorobenzene	112	6.871	6.865	0.006	44	7469	0.4981	
87 1,1,1,2-Tetrachloroethane	131	6.926	6.932	-0.006	51	1451	0.5155	
88 Ethylbenzene	91	6.950	6.956	-0.006	84	12477	0.5250	
89 m-Xylene & p-Xylene	91	7.060	7.054	0.006	89	9513	0.5069	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
90 o-Xylene	91	7.419	7.419	0.0	80	9504	0.4877	
91 Styrene	104	7.431	7.431	0.0	74	5972	0.4137	
92 Bromoform	173	7.607	7.607	0.0	26	527	3.02	
93 Isopropylbenzene	105	7.760	7.753	0.007	76	11689	0.4924	
94 Cyclohexanone	55	7.869	7.857	0.012	1	343	41.9	
95 1,1,2,2-Tetrachloroethane	83	8.021	8.021	0.0	22	2521	0.4790	
96 Bromobenzene	77	8.058	8.051	0.007	81	5949	0.5500	
97 1,2,3-Trichloropropane	110	8.070	8.070	0.0	17	673	0.3937	
99 N-Propylbenzene	91	8.137	8.143	-0.006	89	13314	0.5061	
100 2-Chlorotoluene	91	8.228	8.228	0.0	83	7807	0.4792	
101 1,3,5-Trimethylbenzene	105	8.307	8.307	0.0	74	7918	0.4402	
102 4-Chlorotoluene	91	8.338	8.331	0.007	68	10322	0.5416	
103 tert-Butylbenzene	119	8.623	8.623	0.0	73	8981	0.4987	
104 Pentachloroethane	167	8.642	8.642	0.0	13	805	0.5208	
105 1,2,4-Trimethylbenzene	105	8.672	8.666	0.006	59	8413	0.4771	
106 sec-Butylbenzene	105	8.830	8.830	0.0	76	10953	0.4735	
107 1,3-Dichlorobenzene	146	8.946	8.946	0.0	73	5996	0.5260	
108 4-Isopropyltoluene	119	8.976	8.970	0.006	71	8468	0.4574	
109 1,4-Dichlorobenzene	146	9.031	9.031	0.0	62	5820	0.5104	
110 1,2,3-Trimethylbenzene	105	9.080	9.080	0.0	0	8386	0.4706	
111 Benzyl chloride	91	9.153	9.159	-0.006	1	1582	4.84	
112 n-Butylbenzene	91	9.366	9.372	-0.006	84	8226	0.4750	
113 1,2-Dichlorobenzene	146	9.396	9.396	0.0	65	5230	0.4973	
115 1,3,5-Trichlorobenzene	180	10.497	10.503	-0.006	55	3342	0.4852	M
116 1,2,4-Trichlorobenzene	180	11.191	11.197	-0.006	30	2634	0.4752	
117 Hexachlorobutadiene	225	11.379	11.385	-0.006	28	1623	0.5741	
118 Naphthalene	128	11.458	11.458	0.0	58	5699	0.4728	
119 1,2,3-Trichlorobenzene	180	11.702	11.702	0.0	44	2401	0.5057	
120 2-Methylnaphthalene	142	12.547	12.547	0.0	10	2194	3.93	
S 132 Xylenes, Total	1				0		0.99	
S 133 1,2-Dichloroethene, Total	1				0		0.9705	

QC Flag Legend

Review Flags
M - Manually Integrated

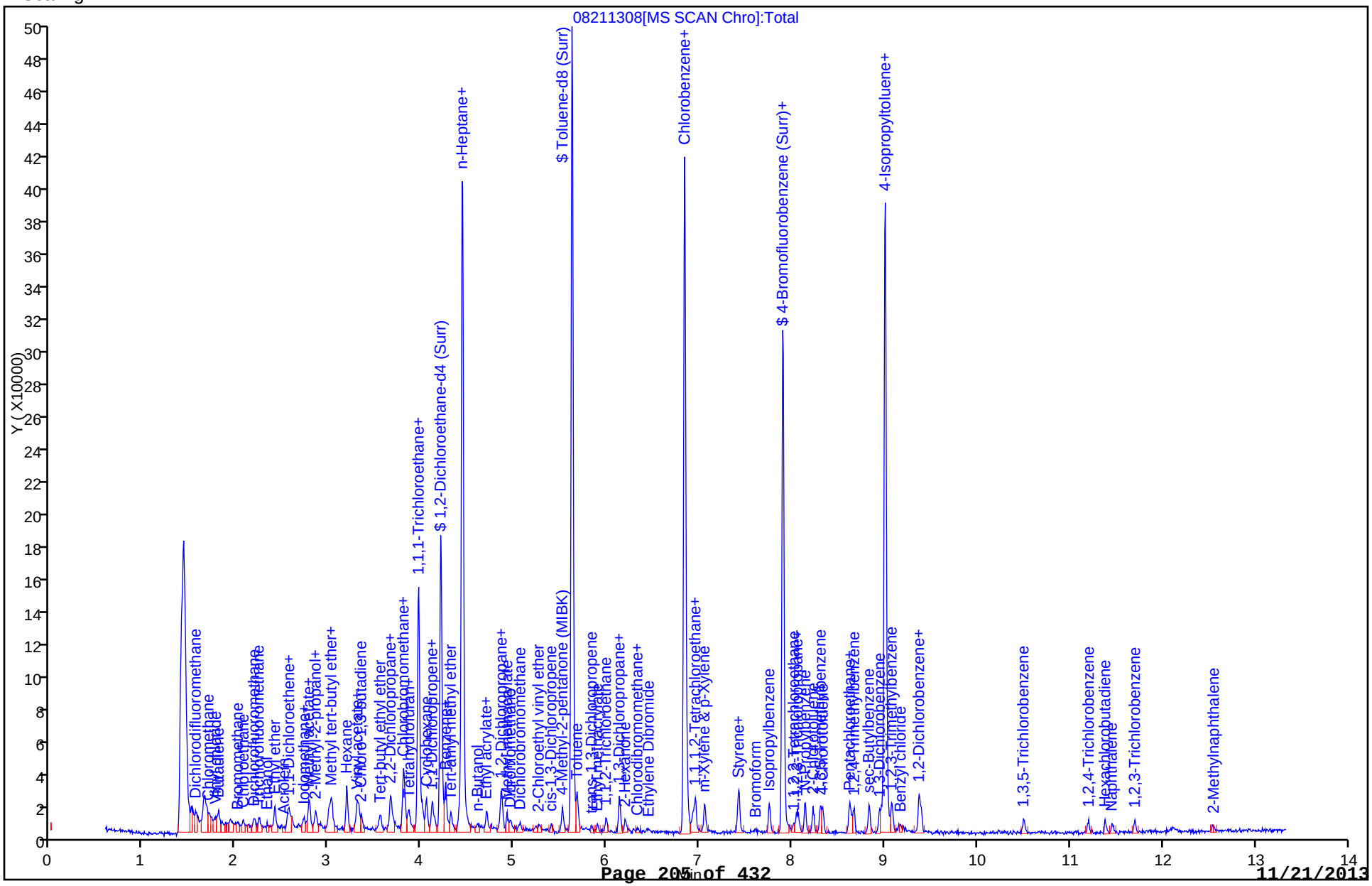
Report Date: 22-Aug-2013 10:14:45 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211308.D

Injection Date:	21-Aug-2013 12:03:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP34
Lims Batch ID:	101606	Lims Sample ID:	2
Operator ID:	JJR HP34	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

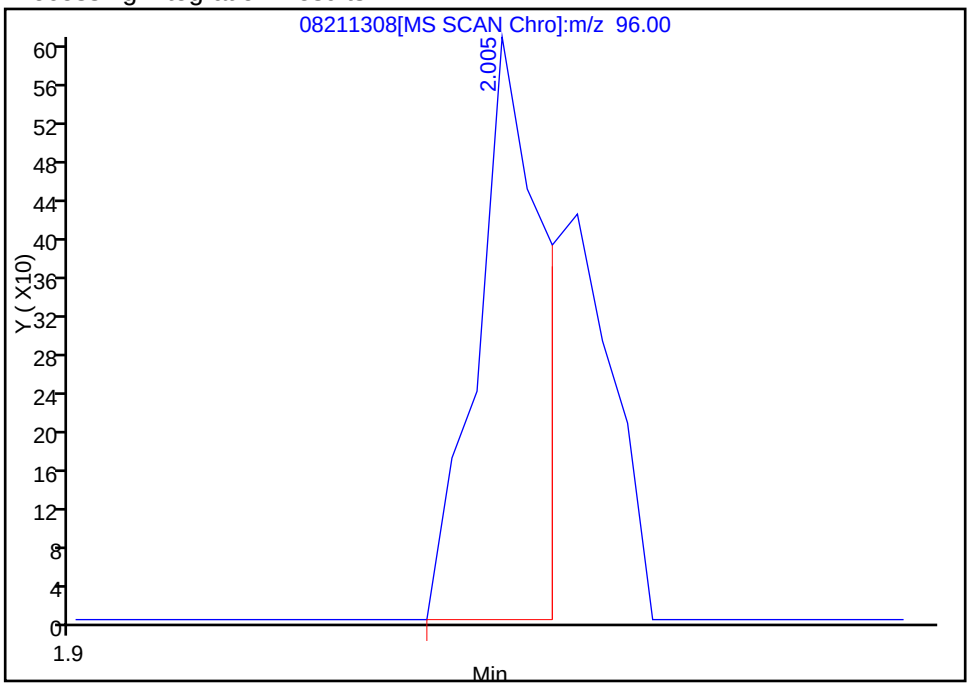
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP34\20130821-23915.b\08211308.D		
Injection Date:	21-Aug-2013 12:03:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP34
Lims Batch ID:	101606	Lims Sample ID:	2
Operator ID:	JJR HP34	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

13 Bromomethane, Signal: 1, m/z: 96.0 Type: quant, RT: 2.00

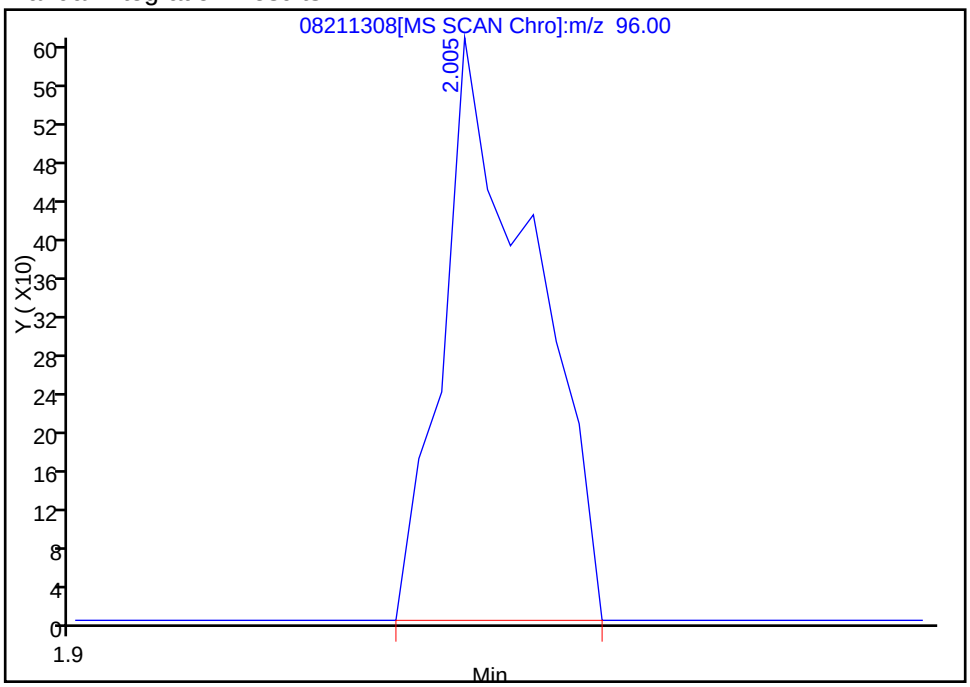
Processing Integration Results

RT: 2.00
Response: 671
Amount: 0.306741



Manual Integration Results

RT: 2.00
Response: 1003
Amount: 0.443552



Reviewer: redmondj, 22-Aug-2013 09:30:07
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

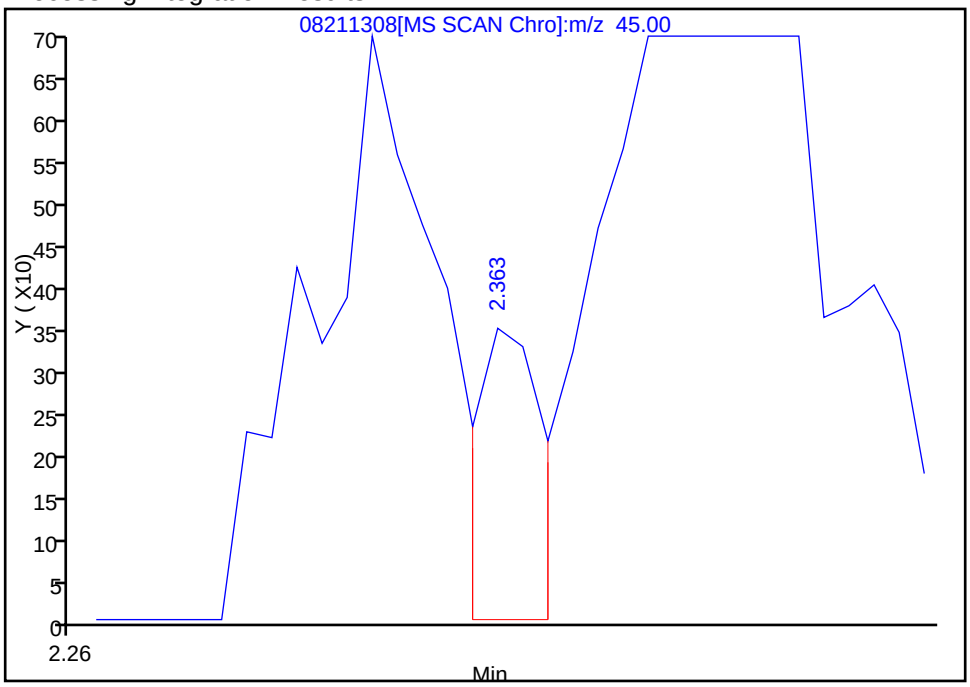
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP34\20130821-23915.b\08211308.D		
Injection Date:	21-Aug-2013 12:03:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP34
Lims Batch ID:	101606	Lims Sample ID:	2
Operator ID:	JJR HP34	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

17 Ethanol, Signal: 1, m/z: 45.0 Type: quant, RT: 2.34

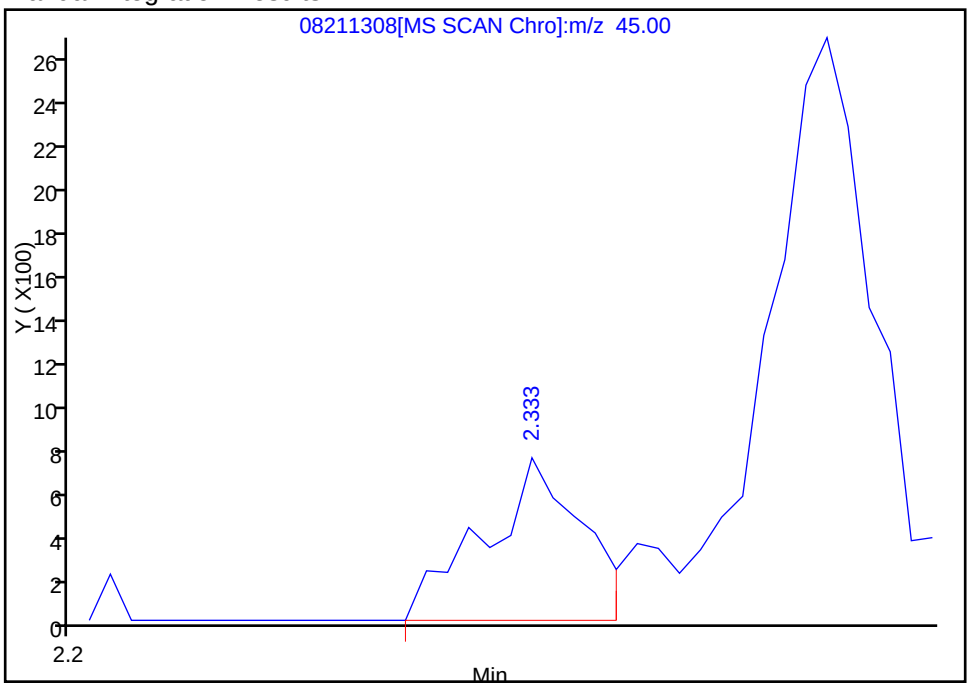
Processing Integration Results

RT: 2.36
Response: 409
Amount: 25.401629



Manual Integration Results

RT: 2.33
Response: 1453
Amount: 25.773052



Reviewer: redmondj, 22-Aug-2013 09:30:07
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

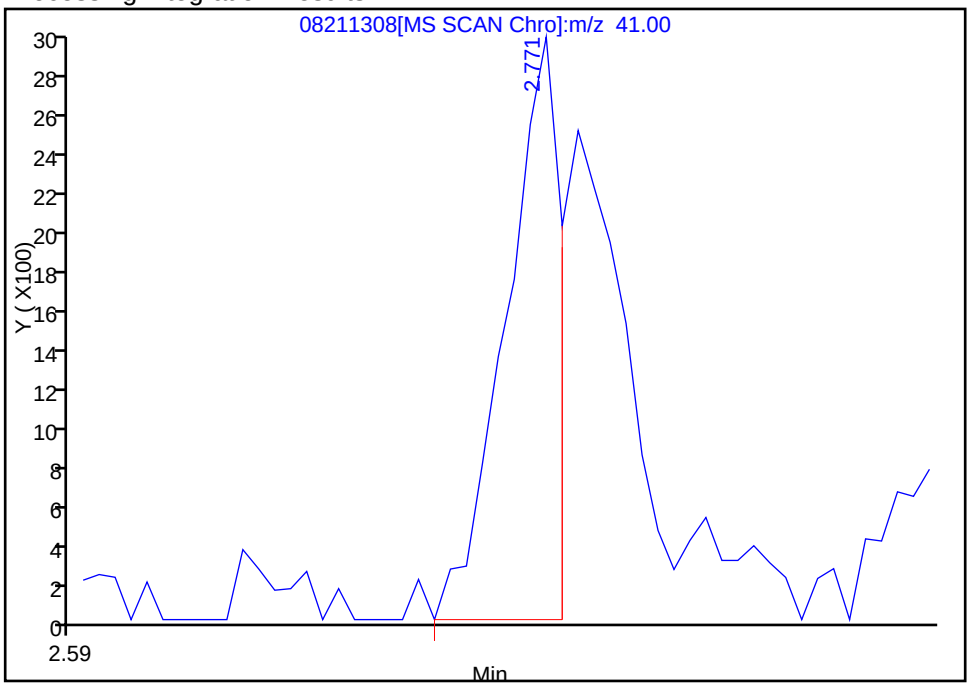
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP34\20130821-23915.b\08211308.D		
Injection Date:	21-Aug-2013 12:03:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP34
Lims Batch ID:	101606	Lims Sample ID:	2
Operator ID:	JJR HP34	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

27 Acetonitrile, Signal: 1, m/z: 41.0 Type: quant, RT: 2.78

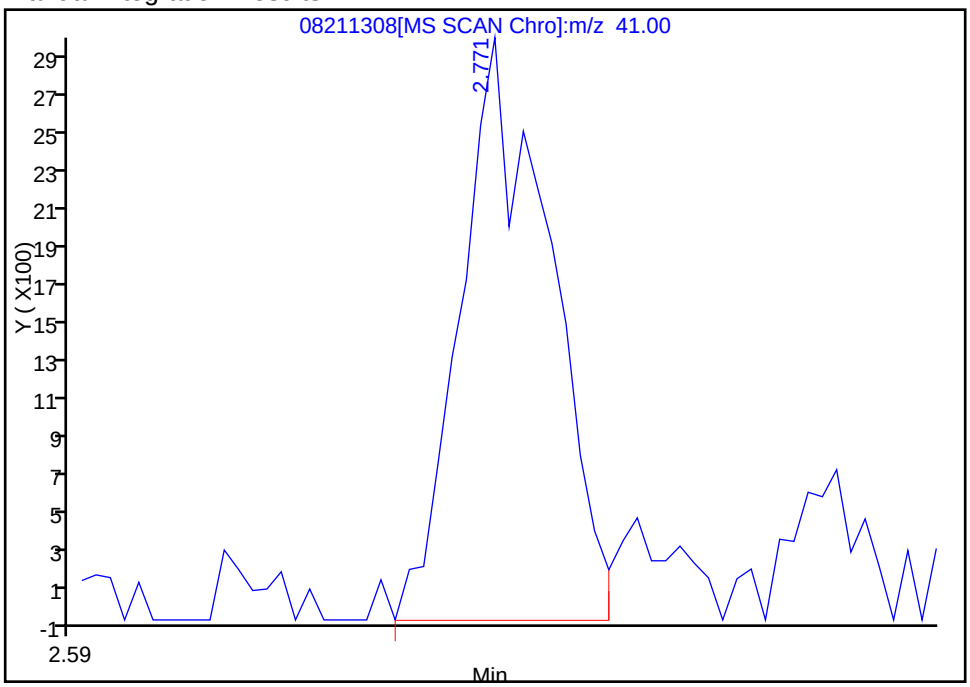
Processing Integration Results

RT: 2.77
Response: 4348
Amount: 2.232221



Manual Integration Results

RT: 2.77
Response: 7896
Amount: 5.189201



Reviewer: redmondj, 22-Aug-2013 09:30:07
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

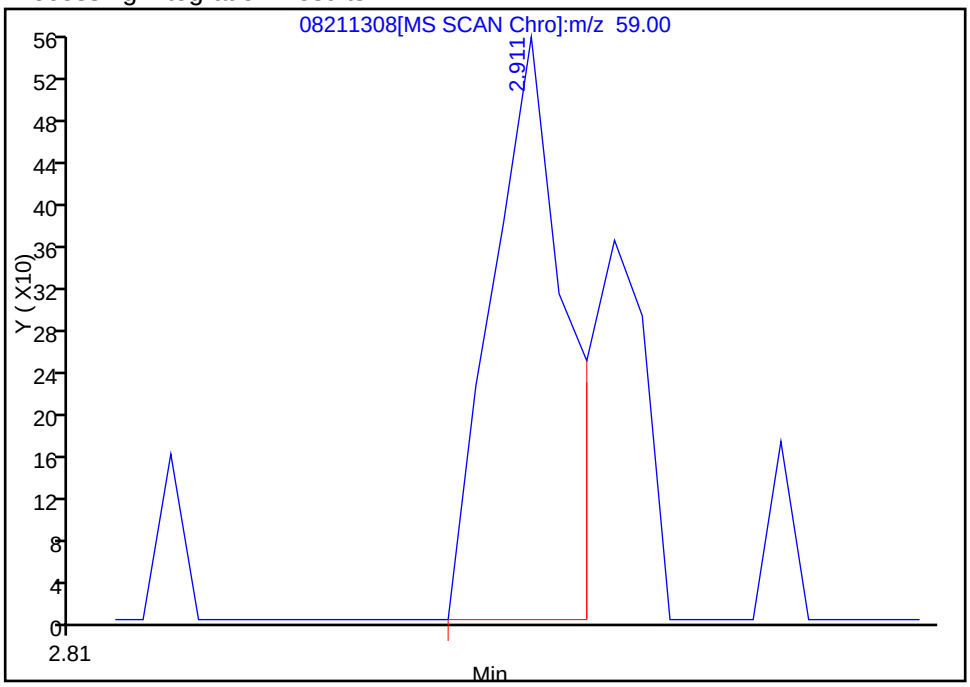
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP34\20130821-23915.b\08211308.D		
Injection Date:	21-Aug-2013 12:03:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP34
Lims Batch ID:	101606	Lims Sample ID:	2
Operator ID:	JJR HP34	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

31 2-Methyl-2-propanol, Signal: 1, m/z: 59.0 Type: quant, RT: 2.90

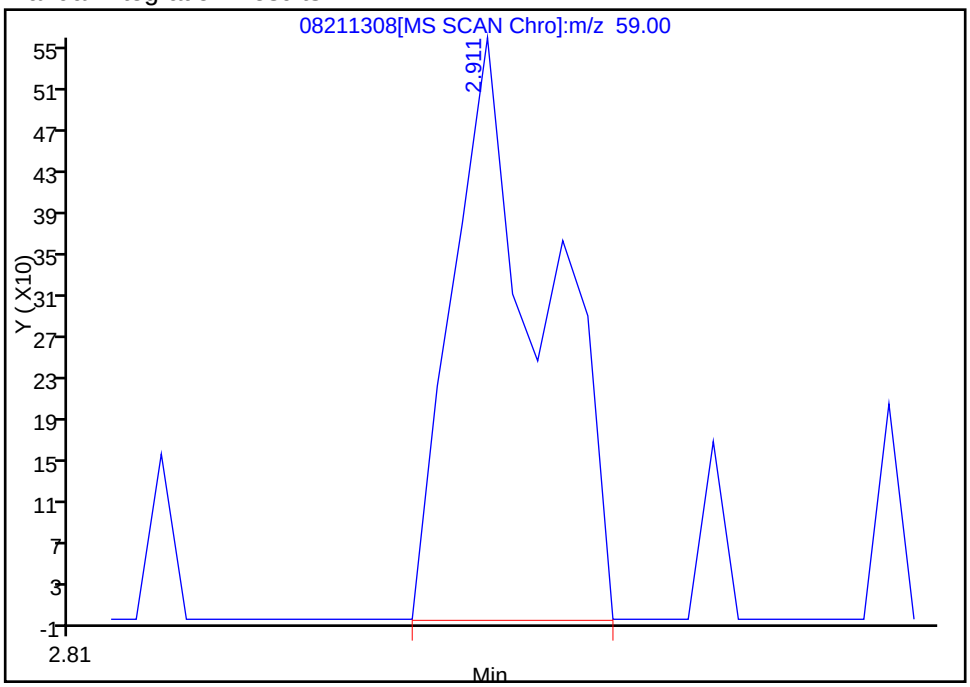
Processing Integration Results

RT: 2.91
Response: 626
Amount: 8.164007



Manual Integration Results

RT: 2.91
Response: 868
Amount: 4.931741



Reviewer: redmondj, 22-Aug-2013 09:30:07
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

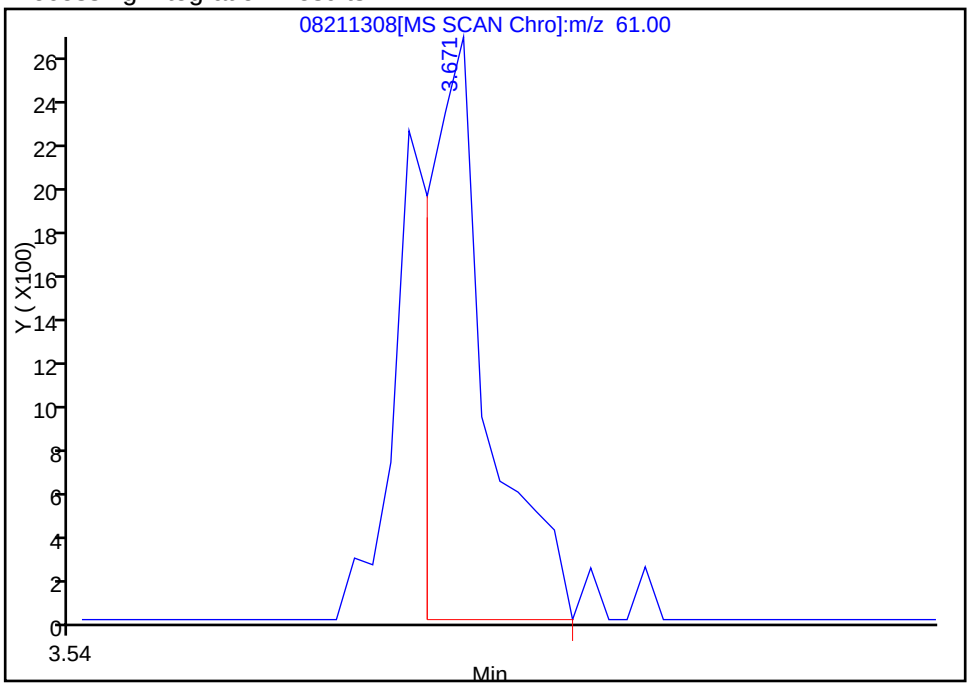
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP34\20130821-23915.b\08211308.D		
Injection Date:	21-Aug-2013 12:03:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP34
Lims Batch ID:	101606	Lims Sample ID:	2
Operator ID:	JJR HP34	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

41 cis-1,2-Dichloroethene, Signal: 1, m/z: 61.0 Type: quant, RT: 3.66

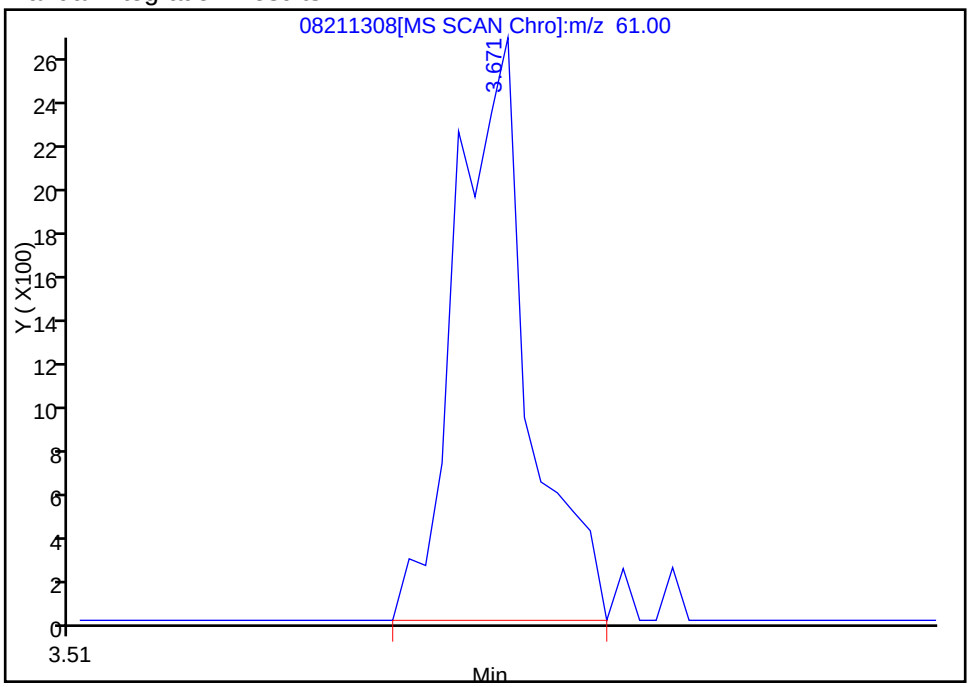
Processing Integration Results

RT: 3.67
Response: 3569
Amount: 0.385294



Manual Integration Results

RT: 3.67
Response: 4818
Amount: 0.504999



Reviewer: redmondj, 22-Aug-2013 09:30:07
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

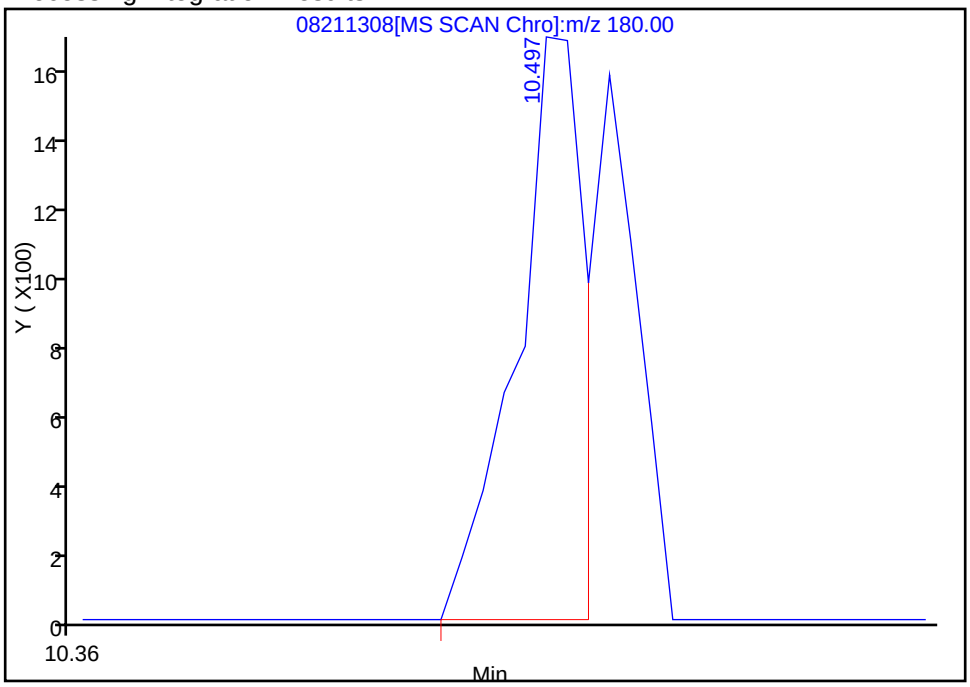
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP34\20130821-23915.b\08211308.D		
Injection Date:	21-Aug-2013 12:03:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP34
Lims Batch ID:	101606	Lims Sample ID:	2
Operator ID:	JJR HP34	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

115 1,3,5-Trichlorobenzene, Signal: 1, m/z: 180.0 Type: quant, RT: 10.50

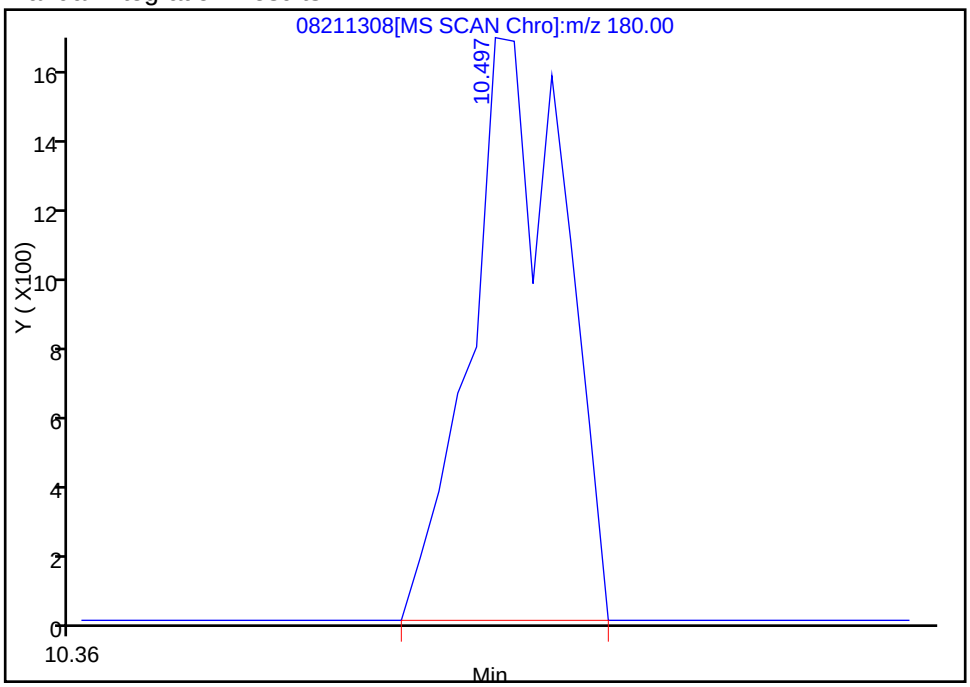
Processing Integration Results

RT: 10.50
Response: 2210
Amount: 0.392320



Manual Integration Results

RT: 10.50
Response: 3342
Amount: 0.485226



Reviewer: redmondj, 22-Aug-2013 09:30:07
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211309.D
Lims ID: std001 Client ID:
Inject. Date: 21-Aug-2013 12:30:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: STD001
Misc. Info.: 490-0023915-003
Operator: JJR HP34 Instrument ID: HP34
Purge Vol: 5.000 mL ALS Bottle#: 9
Lims Batch ID: 101606 Lims Sample ID: 3
Sublist: chrom-8260HP34*sub9
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP34\20130821-23915.b\8260HP34.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-77
Last Update: 22-Aug-2013 10:14:45 Calib Date: 21-Aug-2013 16:06:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211317.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK024

First Level Reviewer: redmondj Date: 22-Aug-2013 09:34:11

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.444	4.444	0.0	99	327099	30.0	
* 2 Chlorobenzene-d5	117	6.841	6.841	0.0	83	234636	30.0	
* 3 1,4-Dichlorobenzene-d4	152	9.007	9.007	0.0	94	114698	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.963	3.970	-0.007	65	83225	30.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.207	4.213	-0.006	98	108606	30.9	
$ 6 Toluene-d8 (Surr)	98	5.624	5.624	0.0	94	316216	30.4	
$ 8 4-Bromofluorobenzene (Surr)	95	7.899	7.900	-0.001	90	103002	30.5	
9 Dichlorodifluoromethane	85	1.572	1.566	0.006	78	7560	0.9463	
10 Chloromethane	50	1.706	1.706	0.0	68	5843	0.8920	
11 Vinyl chloride	62	1.779	1.779	0.0	67	6880	0.9288	
12 Butadiene	54	1.810	1.810	0.0	0	5864	0.9194	
13 Bromomethane	96	2.010	2.004	0.006	71	2327	1.02	
14 Chloroethane	64	2.077	2.071	0.006	64	4435	1.02	
15 Dichlorofluoromethane	67	2.193	2.193	0.0	86	11465	1.03	
16 Trichlorofluoromethane	101	2.248	2.242	0.006	73	10119	1.07	
17 Ethanol	45	2.351	2.339	0.012	88	3641	64.1	M
18 Ethyl ether	59	2.418	2.412	0.006	90	8231	0.9579	
19 Acrolein	56	2.503	2.497	0.006	21	1736	3.05	M
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.564	2.558	0.006	79	6672	1.10	
21 1,1-Dichloroethene	96	2.570	2.570	0.0	93	5119	0.9794	
22 Acetone	58	2.607	2.595	0.012	91	3842	4.61	M
23 Isopropyl alcohol	45	2.668	2.661	0.007	66	2212	9.41	
24 Iodomethane	142	2.680	2.674	0.006	75	2247	2.85	
26 Carbon disulfide	76	2.728	2.728	0.0	98	15783	1.00	
28 3-Chloro-1-propene	76	2.789	2.783	0.006	29	1998	0.7656	
27 Acetonitrile	41	2.777	2.783	-0.006	67	16147	10.5	
29 Methyl acetate	43	2.789	2.789	0.0	97	27186	5.38	
30 Methylene Chloride	84	2.862	2.856	0.006	87	7521	1.13	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
31 2-Methyl-2-propanol	59	2.911	2.905	0.006	31	1438	8.11	
32 Acrylonitrile	53	3.002	3.002	0.0	96	21603	10.1	
33 Methyl tert-butyl ether	73	3.026	3.026	0.0	60	5871	0.9286	
34 trans-1,2-Dichloroethene	61	3.033	3.033	0.0	92	7958	1.00	
35 Hexane	57	3.191	3.191	0.0	91	13355	1.01	
36 1,1-Dichloroethane	63	3.294	3.294	0.0	70	9469	0.9129	
37 Vinyl acetate	43	3.306	3.306	0.0	98	24053	1.95	
38 Isopropyl ether	45	3.318	3.318	0.0	81	15807	1.04	
39 2-Chloro-1,3-butadiene	53	3.355	3.349	0.006	77	7774	0.9130	
40 Tert-butyl ethyl ether	59	3.550	3.550	0.0	66	4729	0.9031	
41 cis-1,2-Dichloroethene	61	3.653	3.659	-0.006	86	9258	0.9631	
43 Ethyl acetate	43	3.671	3.665	0.006	65	19305	2.16	
42 2,2-Dichloropropane	77	3.671	3.665	0.006	54	4132	3.30	
44 2-Butanone (MEK)	72	3.671	3.665	0.006	95	3129	4.80	
45 Propionitrile	54	3.708	3.702	0.006	84	8089	9.86	
46 Methacrylonitrile	41	3.805	3.805	0.0	91	32860	10.4	
47 Chlorobromomethane	130	3.823	3.823	0.0	84	3738	1.06	
48 Chloroform	83	3.854	3.860	-0.006	86	10922	1.03	
49 Tetrahydrofuran	42	3.872	3.872	0.0	44	3545	2.11	
51 1,1,1-Trichloroethane	97	4.006	4.006	0.0	71	5831	0.8209	
52 Cyclohexane	56	4.055	4.055	0.0	87	10891	1.00	
53 1,1-Dichloropropene	75	4.109	4.109	0.0	84	7185	0.9628	
54 Carbon tetrachloride	117	4.121	4.122	-0.001	77	6270	0.8953	
55 Isobutyl alcohol	43	4.146	4.146	0.0	55	4795	12.1	
58 1,2-Dichloroethane	62	4.261	4.261	0.0	41	9263	1.06	
57 Benzene	78	4.261	4.261	0.0	94	25429	1.06	
59 Tert-amyl methyl ether	73	4.322	4.322	0.0	45	3484	0.8876	
60 n-Heptane	43	4.407	4.407	0.0	92	8911	1.01	
61 n-Butanol	56	4.608	4.608	0.0	74	1814	93.7	
62 Trichloroethene	130	4.706	4.706	0.0	86	6565	1.03	
63 Ethyl acrylate	55	4.748	4.748	0.0	0	4675	1.06	
64 Methylcyclohexane	83	4.858	4.858	0.0	84	10962	0.9784	
65 1,2-Dichloropropane	63	4.876	4.870	0.006	75	5725	1.00	
67 Methyl methacrylate	41	4.925	4.925	-0.001	83	7620	1.59	
68 Dibromomethane	93	4.955	4.961	-0.006	80	3615	1.07	
69 1,4-Dioxane	88	4.979	4.973	0.006	24	753	26.7	
70 Dichlorobromomethane	83	5.058	5.058	0.0	79	6041	0.8996	
71 2-Nitropropane	43	5.229	5.229	0.0	70	1279	8.63	
72 2-Chloroethyl vinyl ether	63	5.265	5.271	-0.006	42	1686	1.01	
73 cis-1,3-Dichloropropene	75	5.399	5.399	0.0	64	3868	1.67	
74 4-Methyl-2-pentanone (MIBK)	58	5.527	5.521	0.006	88	8028	4.45	
75 Toluene	91	5.679	5.679	0.0	95	24536	1.03	
76 trans-1,3-Dichloropropene	75	5.831	5.837	-0.006	58	2350	3.53	
77 Ethyl methacrylate	69	5.898	5.898	0.0	63	4523	1.07	
78 1,1,2-Trichloroethane	97	5.989	5.995	-0.006	1	5387	1.06	
79 Tetrachloroethene	166	6.135	6.135	0.0	81	6817	0.9604	
80 1,3-Dichloropropane	76	6.141	6.141	0.0	76	8908	1.02	
81 2-Hexanone	58	6.202	6.196	0.006	90	5236	4.76	
82 n-Butyl acetate	43	6.299	6.293	0.006	47	3155	1.33	
83 Chlorodibromomethane	127	6.330	6.336	-0.006	65	2832	1.13	
84 Ethylene Dibromide	107	6.451	6.445	0.006	63	4302	0.9114	
86 Chlorobenzene	112	6.871	6.865	0.006	72	15807	1.01	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
87 1,1,1,2-Tetrachloroethane	131	6.926	6.932	-0.006	65	3908	1.01	
88 Ethylbenzene	91	6.956	6.956	0.0	92	23874	0.9646	
89 m-Xylene & p-Xylene	91	7.060	7.054	0.006	98	18941	0.9693	
90 o-Xylene	91	7.419	7.419	0.0	91	19664	0.9691	
91 Styrene	104	7.431	7.431	0.0	91	13654	0.9083	
92 Bromoform	173	7.607	7.607	0.0	61	1644	3.37	
93 Isopropylbenzene	105	7.753	7.753	0.0	92	22702	0.9183	
94 Cyclohexanone	55	7.863	7.857	0.006	4	588	43.2	
95 1,1,2,2-Tetrachloroethane	83	8.015	8.021	-0.006	63	4926	0.9154	
96 Bromobenzene	77	8.051	8.051	0.0	90	11861	1.07	
97 1,2,3-Trichloropropane	110	8.064	8.070	-0.006	38	1468	0.8398	
98 trans-1,4-Dichloro-2-butene	53	8.082	8.076	0.006	1	1214	1.39	M
99 N-Propylbenzene	91	8.137	8.143	-0.006	95	26890	1.00	
100 2-Chlorotoluene	91	8.234	8.228	0.006	88	17159	1.03	
101 1,3,5-Trimethylbenzene	105	8.307	8.307	0.0	84	17712	0.9631	
102 4-Chlorotoluene	91	8.331	8.331	0.0	91	19554	1.00	
103 tert-Butylbenzene	119	8.623	8.623	0.0	85	17336	0.9415	
104 Pentachloroethane	167	8.642	8.642	0.0	35	1967	0.9512	
105 1,2,4-Trimethylbenzene	105	8.672	8.666	0.006	75	16637	0.9228	
106 sec-Butylbenzene	105	8.830	8.830	0.0	85	22295	0.9426	
107 1,3-Dichlorobenzene	146	8.946	8.946	0.0	88	11743	1.01	
108 4-Isopropyltoluene	119	8.970	8.970	0.0	84	16956	0.8956	
109 1,4-Dichlorobenzene	146	9.025	9.031	-0.006	72	12525	1.07	
110 1,2,3-Trimethylbenzene	105	9.080	9.080	0.0	0	17912	0.9831	
111 Benzyl chloride	91	9.153	9.159	-0.006	55	2998	5.05	
112 n-Butylbenzene	91	9.372	9.372	0.0	90	15631	0.8828	
113 1,2-Dichlorobenzene	146	9.396	9.396	0.0	87	10363	0.9637	
115 1,3,5-Trichlorobenzene	180	10.503	10.503	0.0	73	7033	1.00	
116 1,2,4-Trichlorobenzene	180	11.197	11.197	0.0	60	5271	0.9299	
117 Hexachlorobutadiene	225	11.379	11.385	-0.006	50	2421	0.8375	
118 Naphthalene	128	11.458	11.458	0.0	74	11145	0.9043	
119 1,2,3-Trichlorobenzene	180	11.708	11.702	0.006	66	4872	1.00	
120 2-Methylnaphthalene	142	12.547	12.547	0.0	24	3128	4.07	
121 1-Methylnaphthalene	142	12.730	12.730	0.0	1	548	1.38	
S 132 Xylenes, Total	1				0		1.94	
S 133 1,2-Dichloroethene, Total	1				0		1.97	

QC Flag Legend

Review Flags
M - Manually Integrated

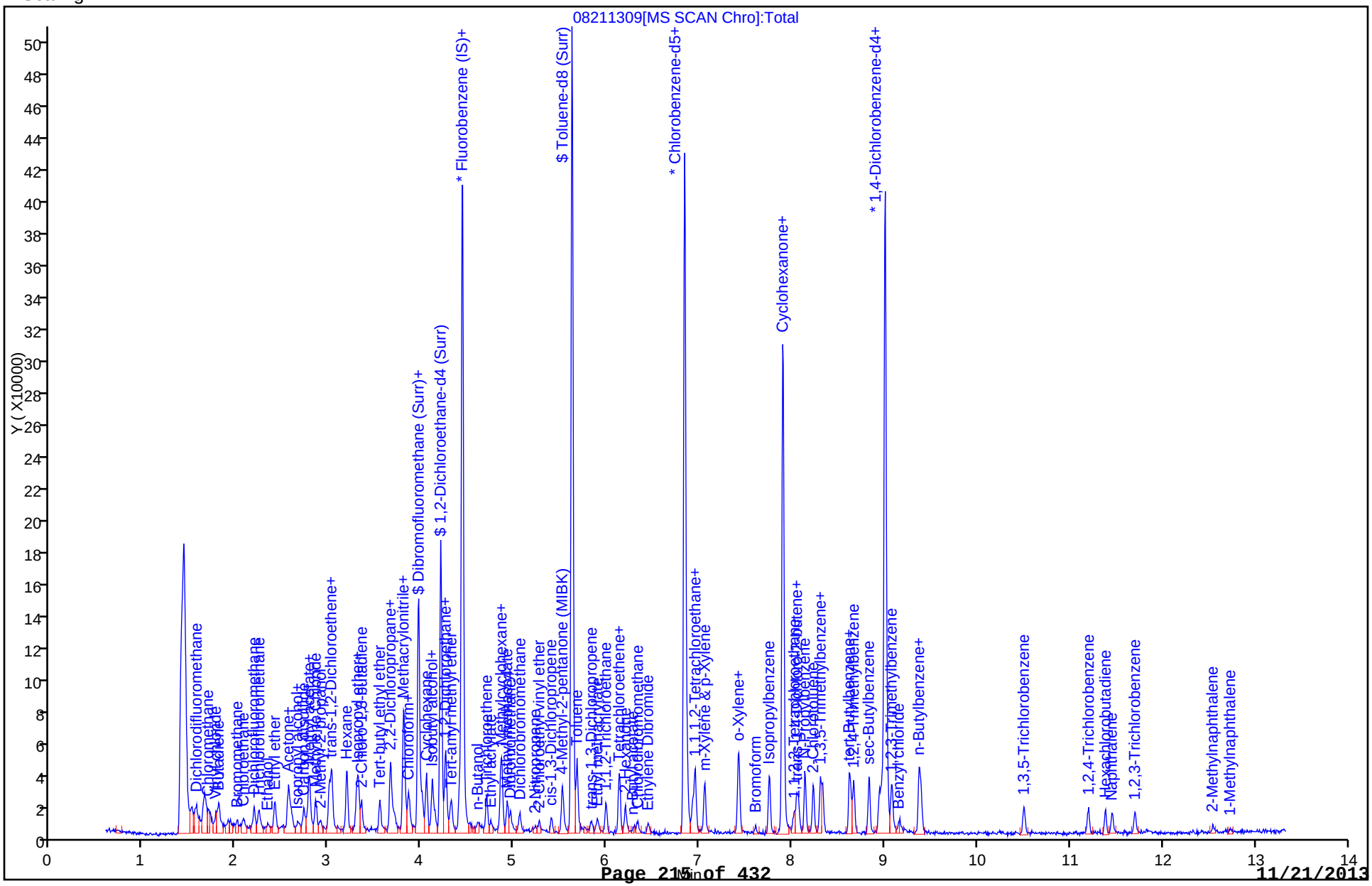
Report Date: 22-Aug-2013 10:14:46 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211309.D

Injection Date:	21-Aug-2013 12:30:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP34
Lims Batch ID:	101606	Lims Sample ID:	3
Operator ID:	JJR HP34	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

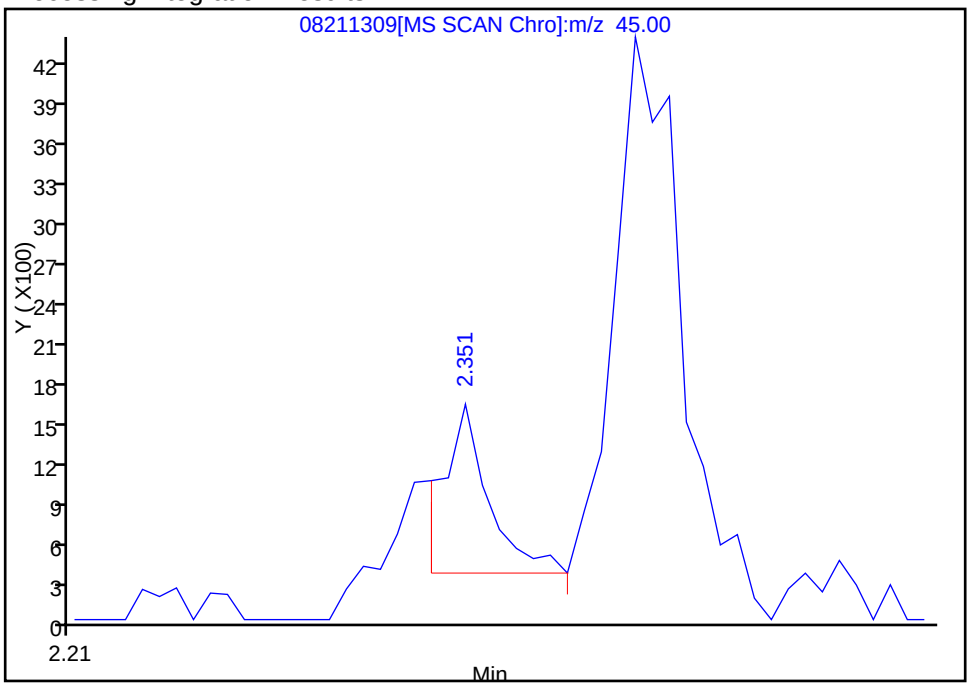
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP34\20130821-23915.b\08211309.D		
Injection Date:	21-Aug-2013 12:30:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP34
Lims Batch ID:	101606	Lims Sample ID:	3
Operator ID:	JJR HP34	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

17 Ethanol, Signal: 1, m/z: 45.0 Type: quant, RT: 2.34

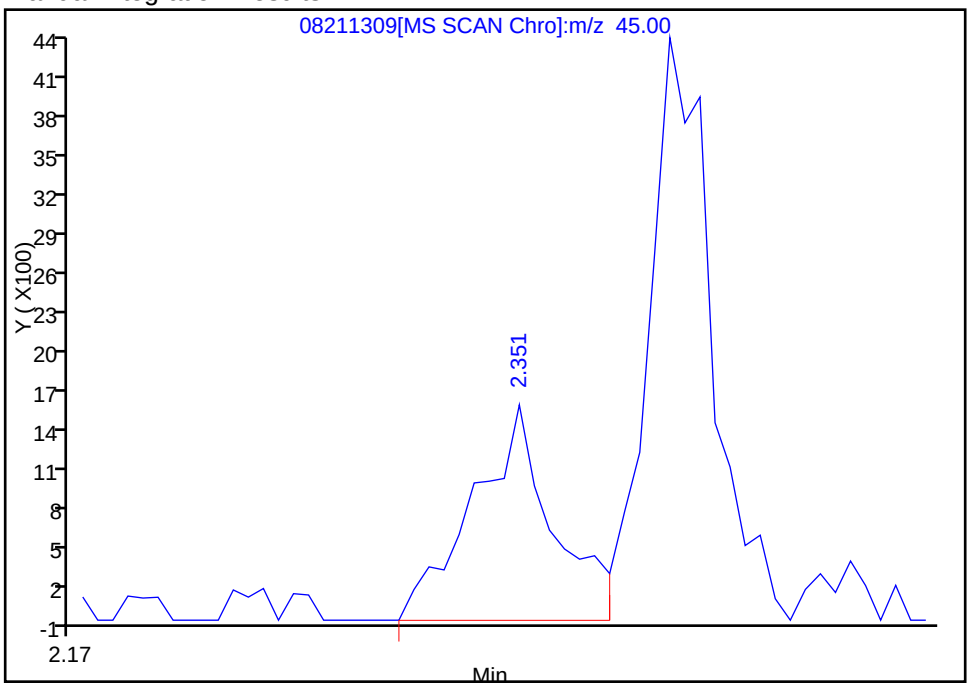
Processing Integration Results

RT: 2.35
Response: 1499
Amount: 33.425496



Manual Integration Results

RT: 2.35
Response: 3641
Amount: 64.096706



Reviewer: redmondj, 22-Aug-2013 09:34:11
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

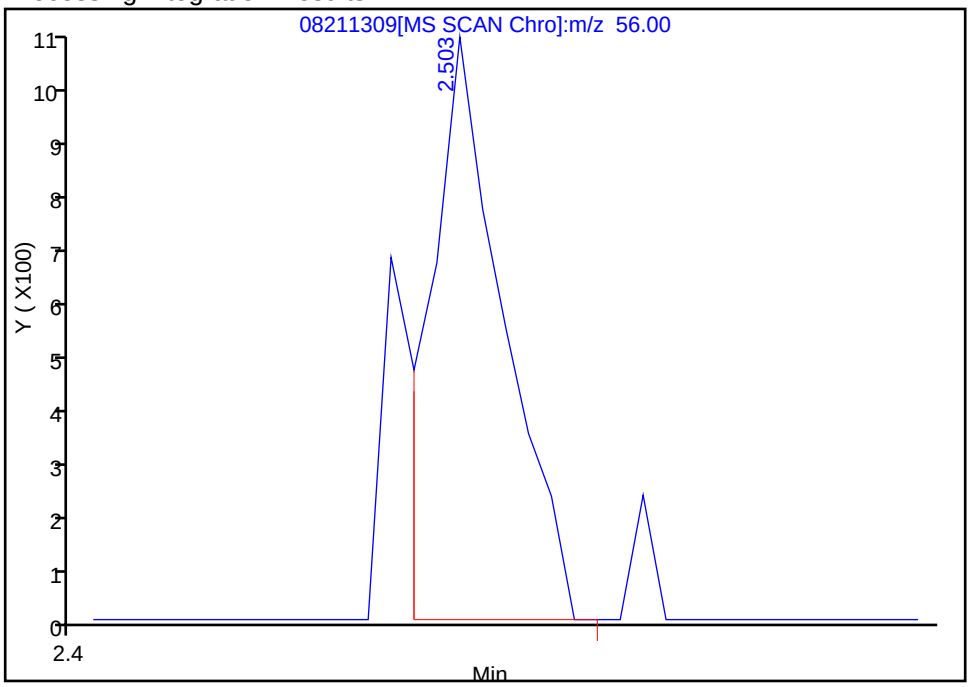
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP34\20130821-23915.b\08211309.D		
Injection Date:	21-Aug-2013 12:30:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP34
Lims Batch ID:	101606	Lims Sample ID:	3
Operator ID:	JJR HP34	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

19 Acrolein, Signal: 1, m/z: 56.0 Type: quant, RT: 2.50

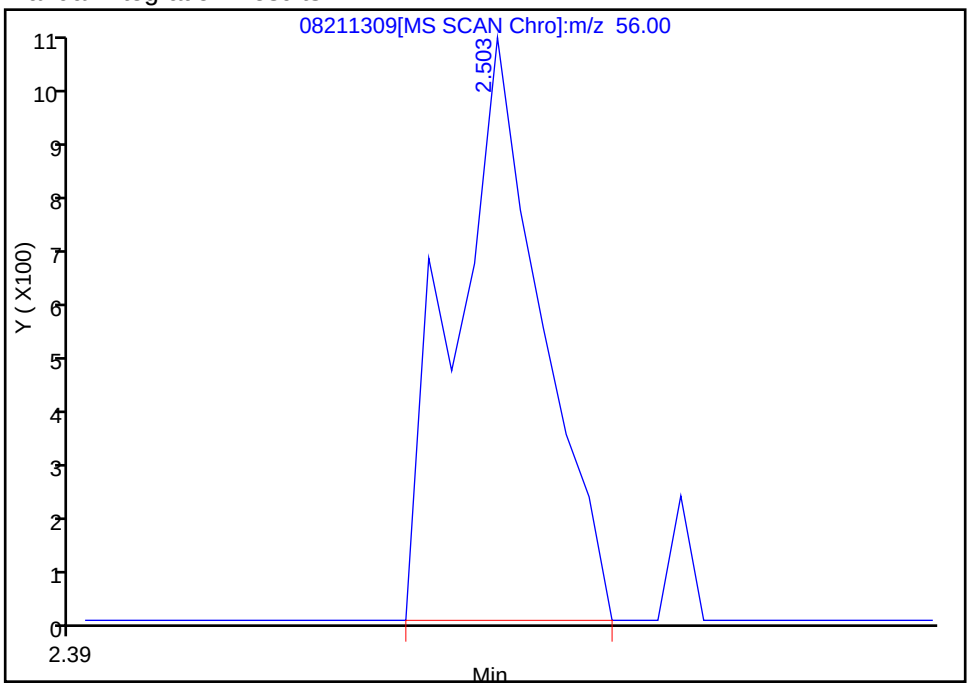
Processing Integration Results

RT: 2.50
Response: 1491
Amount: 2.645556



Manual Integration Results

RT: 2.50
Response: 1736
Amount: 3.047213



Reviewer: redmondj, 22-Aug-2013 09:34:11
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

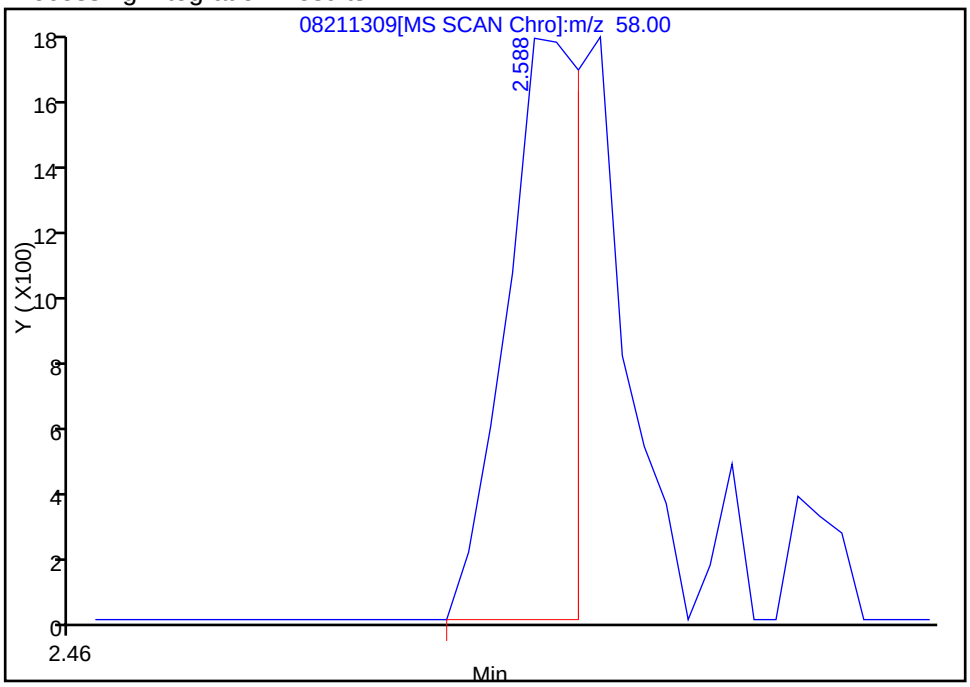
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP34\20130821-23915.b\08211309.D		
Injection Date:	21-Aug-2013 12:30:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP34
Lims Batch ID:	101606	Lims Sample ID:	3
Operator ID:	JJR HP34	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

22 Acetone, Signal: 1, m/z: 58.0 Type: quant, RT: 2.59

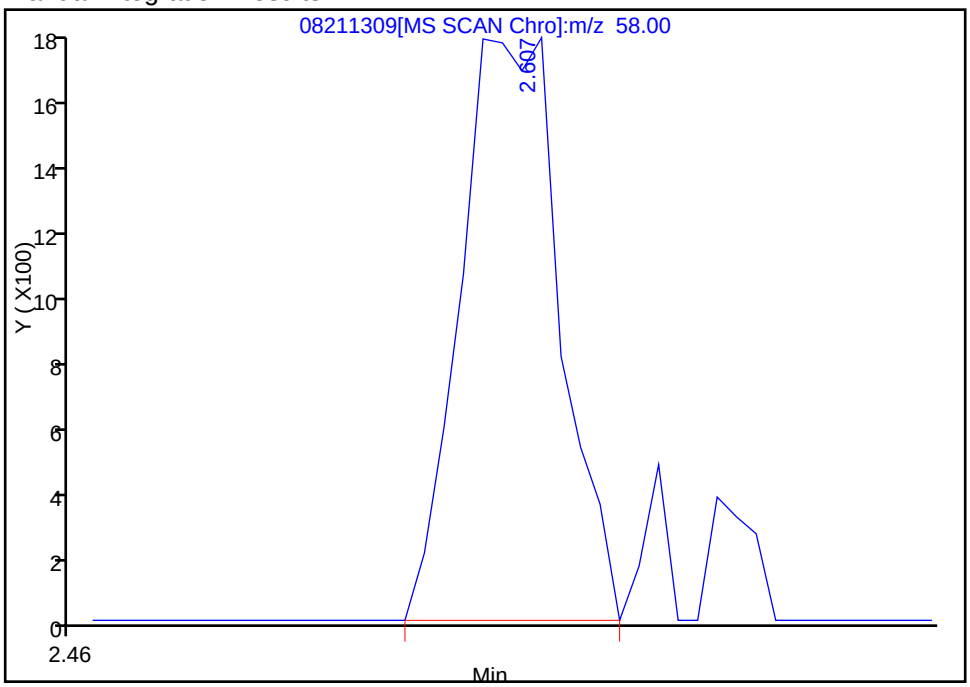
Processing Integration Results

RT: 2.59
Response: 2577
Amount: 3.010652



Manual Integration Results

RT: 2.61
Response: 3842
Amount: 4.614242



Reviewer: redmondj, 22-Aug-2013 09:34:11
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

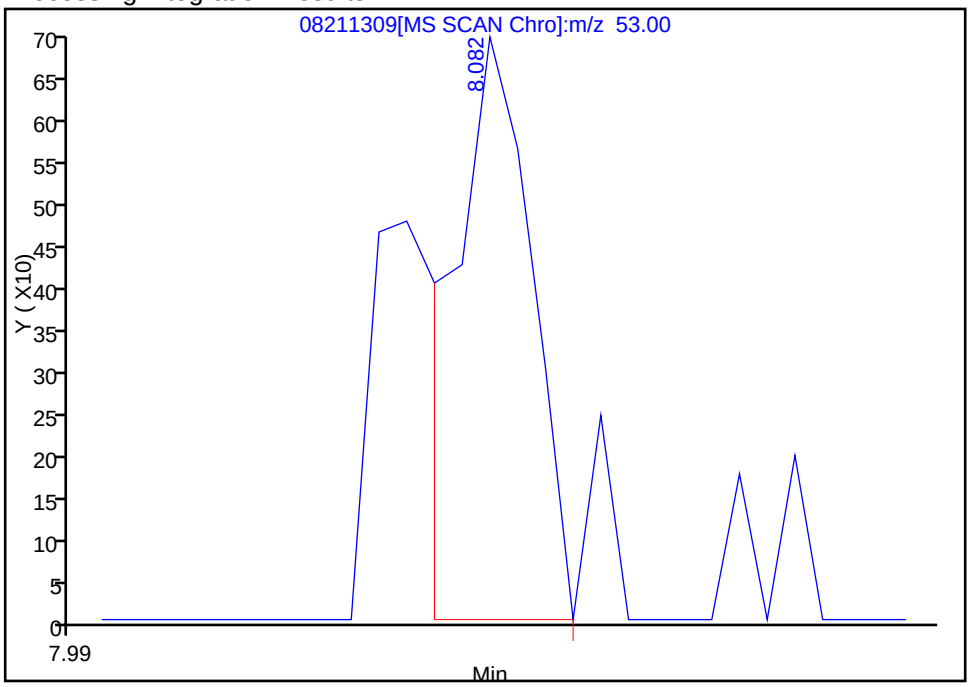
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP34\20130821-23915.b\08211309.D		
Injection Date:	21-Aug-2013 12:30:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP34
Lims Batch ID:	101606	Lims Sample ID:	3
Operator ID:	JJR HP34	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

98 trans-1,4-Dichloro-2-butene, Signal: 1, m/z: 53.0 Type: quant, RT: 8.08

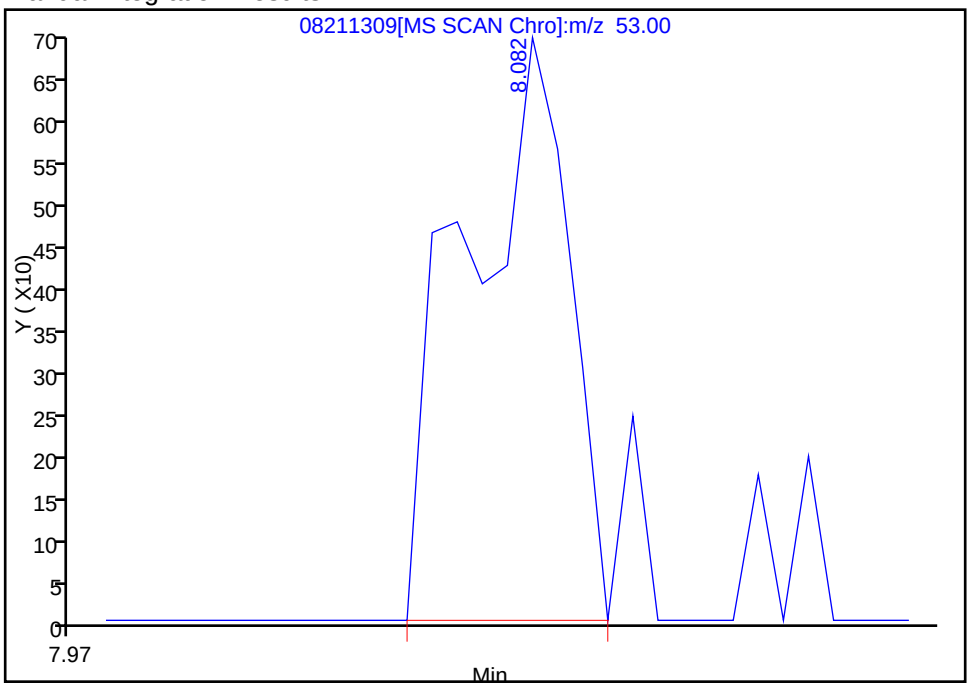
Processing Integration Results

RT: 8.08
Response: 871
Amount: 1.002051



Manual Integration Results

RT: 8.08
Response: 1214
Amount: 1.388013



Reviewer: redmondj, 22-Aug-2013 09:32:29
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211310.D
Lims ID: std002 Client ID:
Inject. Date: 21-Aug-2013 12:57:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: STD002
Misc. Info.: 490-0023915-004
Operator: JJR HP34 Instrument ID: HP34
Purge Vol: 5.000 mL ALS Bottle#: 10
Lims Batch ID: 101606 Lims Sample ID: 4
Sublist: chrom-8260HP34*sub9
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP34\20130821-23915.b\8260HP34.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-77
Last Update: 22-Aug-2013 10:14:47 Calib Date: 21-Aug-2013 16:06:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211317.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK024

First Level Reviewer: redmondj Date: 22-Aug-2013 09:37:10

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.444	4.444	0.0	99	327401	30.0	
* 2 Chlorobenzene-d5	117	6.841	6.841	0.0	85	227870	30.0	
* 3 1,4-Dichlorobenzene-d4	152	9.007	9.007	0.0	93	114910	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.970	3.970	0.0	58	80574	29.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.207	4.213	-0.006	99	109700	31.1	
$ 6 Toluene-d8 (Surr)	98	5.624	5.624	0.0	94	304288	30.1	
$ 8 4-Bromofluorobenzene (Surr)	95	7.900	7.900	0.0	90	102687	30.4	
9 Dichlorodifluoromethane	85	1.573	1.566	0.007	84	17911	2.24	
10 Chloromethane	50	1.706	1.706	0.0	79	13915	2.12	
11 Vinyl chloride	62	1.779	1.779	0.0	81	14598	1.97	
12 Butadiene	54	1.810	1.810	0.0	0	12506	1.96	
13 Bromomethane	96	2.017	2.004	0.013	78	4152	1.82	
14 Chloroethane	64	2.078	2.071	0.007	86	10020	2.31	
15 Dichlorofluoromethane	67	2.193	2.193	0.0	93	23714	2.12	
16 Trichlorofluoromethane	101	2.242	2.242	0.0	87	18669	1.97	
17 Ethanol	45	2.333	2.339	-0.006	88	5446	95.8	
18 Ethyl ether	59	2.418	2.412	0.006	92	13726	2.08	
19 Acrolein	56	2.497	2.497	0.0	62	3149	4.94	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.558	2.558	0.0	76	12383	2.03	
21 1,1-Dichloroethene	96	2.570	2.570	0.0	88	11180	2.14	
22 Acetone	58	2.601	2.595	0.006	94	6516	10.1	
23 Isopropyl alcohol	45	2.662	2.661	0.001	80	4395	18.7	
24 Iodomethane	142	2.674	2.674	0.0	97	4988	3.34	
26 Carbon disulfide	76	2.728	2.728	0.0	97	32197	2.05	
28 3-Chloro-1-propene	76	2.789	2.783	0.006	54	8054	2.20	
27 Acetonitrile	41	2.783	2.783	0.0	94	33249	21.7	
29 Methyl acetate	43	2.789	2.789	0.0	91	53276	10.5	
30 Methylene Chloride	84	2.856	2.856	0.0	86	13677	2.06	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
31 2-Methyl-2-propanol	59	2.905	2.905	0.0	31	3196	18.0	M
32 Acrylonitrile	53	3.008	3.002	0.006	99	44742	20.8	
33 Methyl tert-butyl ether	73	3.027	3.026	0.001	69	12279	1.94	
34 trans-1,2-Dichloroethene	61	3.033	3.033	0.0	96	16377	2.06	
35 Hexane	57	3.197	3.191	0.006	92	23946	2.09	
36 1,1-Dichloroethane	63	3.294	3.294	0.0	87	20824	2.01	
37 Vinyl acetate	43	3.306	3.306	0.0	98	48650	3.94	
38 Isopropyl ether	45	3.319	3.318	0.001	77	29108	1.91	
39 2-Chloro-1,3-butadiene	53	3.355	3.349	0.006	77	16806	1.97	
40 Tert-butyl ethyl ether	59	3.556	3.550	0.006	71	9836	1.88	
41 cis-1,2-Dichloroethene	61	3.665	3.659	0.006	79	19231	2.00	
44 2-Butanone (MEK)	72	3.671	3.665	0.006	96	6822	10.4	
43 Ethyl acetate	43	3.665	3.665	0.0	75	37250	4.16	
42 2,2-Dichloropropane	77	3.671	3.665	0.006	61	8273	3.98	
45 Propionitrile	54	3.708	3.702	0.006	74	16817	20.5	
46 Methacrylonitrile	41	3.805	3.805	0.0	93	68765	21.7	
47 Chlorobromomethane	130	3.824	3.823	0.001	83	7183	2.03	
48 Chloroform	83	3.860	3.860	0.0	76	21342	2.01	
49 Tetrahydrofuran	42	3.878	3.872	0.006	77	7123	4.23	
51 1,1,1-Trichloroethane	97	4.006	4.006	0.0	84	13425	1.89	
52 Cyclohexane	56	4.055	4.055	0.0	88	21106	1.93	
53 1,1-Dichloropropene	75	4.116	4.109	0.007	89	15729	2.11	
54 Carbon tetrachloride	117	4.128	4.122	0.006	85	13315	1.90	
55 Isobutyl alcohol	43	4.140	4.146	-0.006	73	9314	19.9	
58 1,2-Dichloroethane	62	4.262	4.261	0.001	48	18891	2.15	
57 Benzene	78	4.262	4.261	0.001	95	50122	2.09	
59 Tert-amyl methyl ether	73	4.322	4.322	0.0	42	7853	2.00	
60 n-Heptane	43	4.408	4.407	0.001	91	18218	2.07	
61 n-Butanol	56	4.608	4.608	0.0	83	4092	110.3	M
62 Trichloroethene	130	4.706	4.706	0.0	88	12578	1.98	
63 Ethyl acrylate	55	4.748	4.748	0.0	0	10200	1.89	
64 Methylcyclohexane	83	4.858	4.858	0.0	91	20877	1.86	
65 1,2-Dichloropropane	63	4.870	4.870	0.0	71	11264	1.97	
67 Methyl methacrylate	41	4.925	4.925	0.0	88	17667	3.68	
68 Dibromomethane	93	4.955	4.961	-0.006	85	7196	2.12	M
69 1,4-Dioxane	88	4.979	4.973	0.006	35	1642	40.0	
70 Dichlorobromomethane	83	5.059	5.058	0.0	91	12659	1.88	
71 2-Nitropropane	43	5.235	5.229	0.006	73	4003	10.0	
72 2-Chloroethyl vinyl ether	63	5.271	5.271	0.0	61	4003	1.76	
73 cis-1,3-Dichloropropene	75	5.405	5.399	0.006	74	8972	2.36	
74 4-Methyl-2-pentanone (MIBK)	58	5.521	5.521	0.0	96	14904	8.50	
75 Toluene	91	5.685	5.679	0.006	93	49665	2.15	
76 trans-1,3-Dichloropropene	75	5.837	5.837	0.0	71	4750	3.94	
77 Ethyl methacrylate	69	5.898	5.898	0.0	75	9196	1.81	
78 1,1,2-Trichloroethane	97	5.995	5.995	0.0	1	10014	2.03	
79 Tetrachloroethene	166	6.135	6.135	0.0	83	14577	2.11	
80 1,3-Dichloropropane	76	6.141	6.141	0.0	89	18159	2.14	
81 2-Hexanone	58	6.196	6.196	0.0	94	12946	9.25	
82 n-Butyl acetate	43	6.300	6.293	0.007	76	4324	1.60	
83 Chlorodibromomethane	127	6.330	6.336	-0.006	67	5333	1.81	
84 Ethylene Dibromide	107	6.452	6.445	0.007	75	8727	1.90	
86 Chlorobenzene	112	6.865	6.865	0.0	89	32176	2.12	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
87 1,1,1,2-Tetrachloroethane	131	6.938	6.932	0.006	67	7381	1.78	
88 Ethylbenzene	91	6.957	6.956	0.001	96	49362	2.05	
89 m-Xylene & p-Xylene	91	7.060	7.054	0.006	98	38163	2.01	
90 o-Xylene	91	7.419	7.419	0.0	89	40458	2.05	
91 Styrene	104	7.431	7.431	0.0	89	26785	1.83	
92 Bromoform	173	7.601	7.607	-0.006	77	3073	3.86	
93 Isopropylbenzene	105	7.754	7.753	0.001	94	48998	2.04	
94 Cyclohexanone	55	7.881	7.857	0.024	35	1951	50.3	M
95 1,1,2,2-Tetrachloroethane	83	8.021	8.021	0.0	82	11490	2.13	
96 Bromobenzene	77	8.046	8.051	-0.005	93	22123	2.00	
97 1,2,3-Trichloropropane	110	8.070	8.070	0.0	65	4072	2.33	
98 trans-1,4-Dichloro-2-butene	53	8.070	8.076	-0.006	28	2151	1.96	
99 N-Propylbenzene	91	8.143	8.143	0.0	96	56964	2.11	
100 2-Chlorotoluene	91	8.228	8.228	0.0	95	35772	2.14	
101 1,3,5-Trimethylbenzene	105	8.307	8.307	0.0	91	36868	2.00	
102 4-Chlorotoluene	91	8.331	8.331	0.0	94	40047	2.05	
103 tert-Butylbenzene	119	8.623	8.623	0.0	87	35882	1.95	
104 Pentachloroethane	167	8.648	8.642	0.006	55	4581	1.93	
105 1,2,4-Trimethylbenzene	105	8.666	8.666	0.0	89	34943	1.93	
106 sec-Butylbenzene	105	8.830	8.830	0.0	89	47303	2.00	
107 1,3-Dichlorobenzene	146	8.946	8.946	0.0	94	23123	1.98	
108 4-Isopropyltoluene	119	8.970	8.970	0.0	91	35602	1.88	
109 1,4-Dichlorobenzene	146	9.031	9.031	0.0	83	23685	2.03	
110 1,2,3-Trimethylbenzene	105	9.074	9.080	-0.006	0	35230	1.93	
111 Benzyl chloride	91	9.159	9.159	0.0	68	6754	5.64	
112 n-Butylbenzene	91	9.372	9.372	0.0	95	33800	1.91	
113 1,2-Dichlorobenzene	146	9.396	9.396	0.0	93	21953	2.04	
114 1,2-Dibromo-3-Chloropropane	157	10.260	10.242	0.018	1	860	7.81	M
115 1,3,5-Trichlorobenzene	180	10.509	10.503	0.006	88	14151	2.01	
116 1,2,4-Trichlorobenzene	180	11.197	11.197	0.0	85	10672	1.88	
117 Hexachlorobutadiene	225	11.385	11.385	0.0	77	6151	2.12	
118 Naphthalene	128	11.458	11.458	0.0	87	21339	1.73	
119 1,2,3-Trichlorobenzene	180	11.702	11.702	0.0	83	9009	1.85	
120 2-Methylnaphthalene	142	12.541	12.547	-0.006	40	5893	4.49	
121 1-Methylnaphthalene	142	12.736	12.730	0.006	1	1137	1.47	M
S 132 Xylenes, Total	1				0		4.06	
S 133 1,2-Dichloroethene, Total	1				0		4.06	

QC Flag Legend

Review Flags
M - Manually Integrated

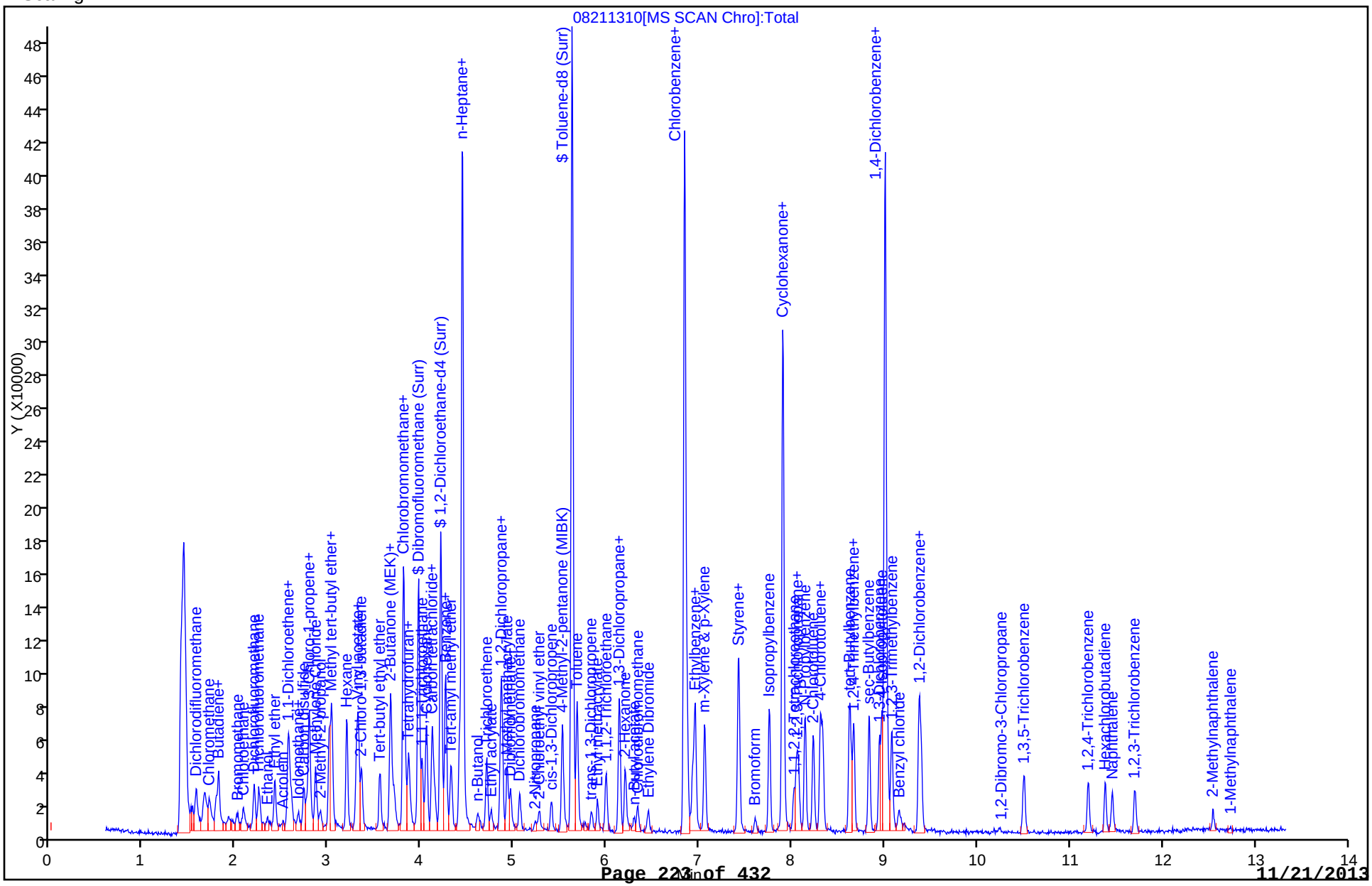
Report Date: 22-Aug-2013 10:14:47 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211310.D

Injection Date:	21-Aug-2013 12:57:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP34
Lims Batch ID:	101606	Lims Sample ID:	4
Operator ID:	JJR HP34	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



Manual Integration/User Assign Peak Report

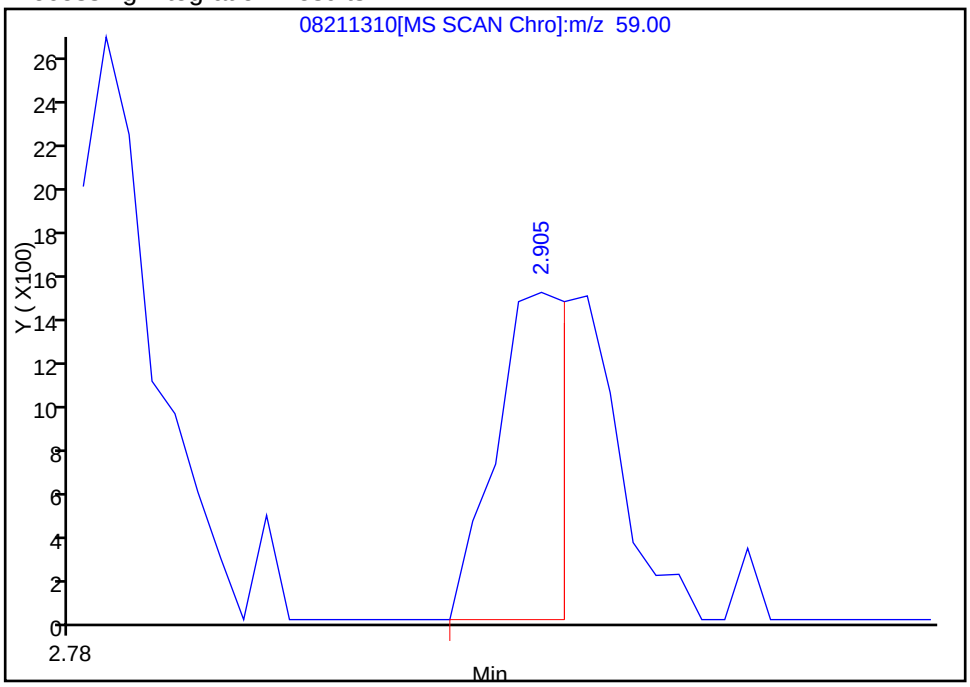
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP34\20130821-23915.b\08211310.D		
Injection Date:	21-Aug-2013 12:57:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP34
Lims Batch ID:	101606	Lims Sample ID:	4
Operator ID:	JJR HP34	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

31 2-Methyl-2-propanol, Signal: 1, m/z: 59.0 Type: quant, RT: 2.90

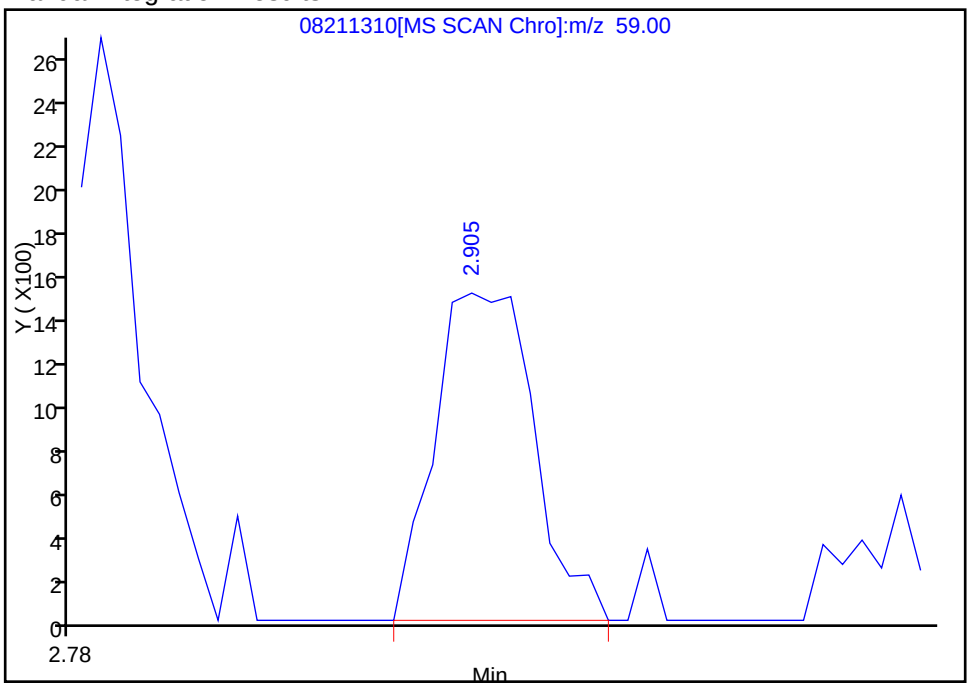
Processing Integration Results

RT: 2.90
Response: 2011
Amount: 14.028018



Manual Integration Results

RT: 2.90
Response: 3196
Amount: 18.005338



Reviewer: redmondj, 22-Aug-2013 09:37:10
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

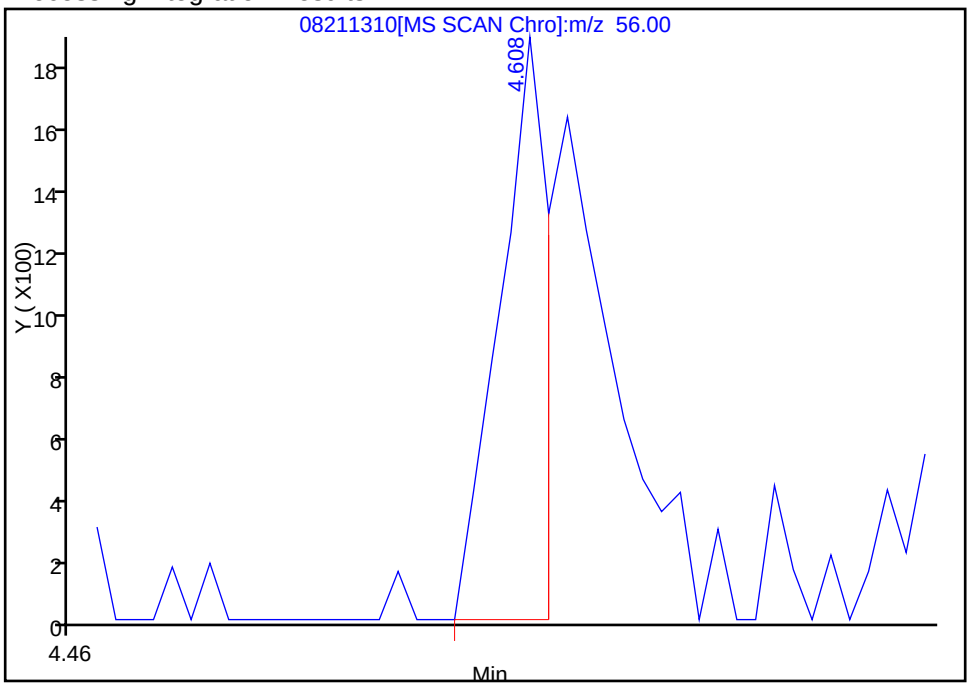
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP34\20130821-23915.b\08211310.D		
Injection Date:	21-Aug-2013 12:57:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP34
Lims Batch ID:	101606	Lims Sample ID:	4
Operator ID:	JJR HP34	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

61 n-Butanol, Signal: 1, m/z: 56.0 Type: quant, RT: 4.61

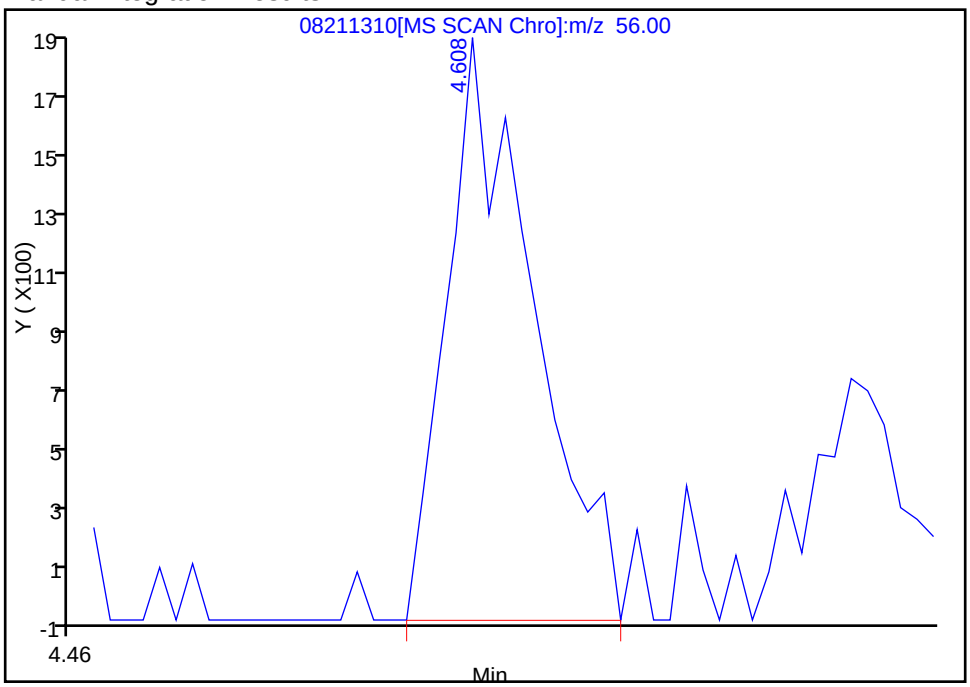
Processing Integration Results

RT: 4.61
Response: 2045
Amount: 97.713934



Manual Integration Results

RT: 4.61
Response: 4092
Amount: 110.3303



Reviewer: redmondj, 22-Aug-2013 09:37:10
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

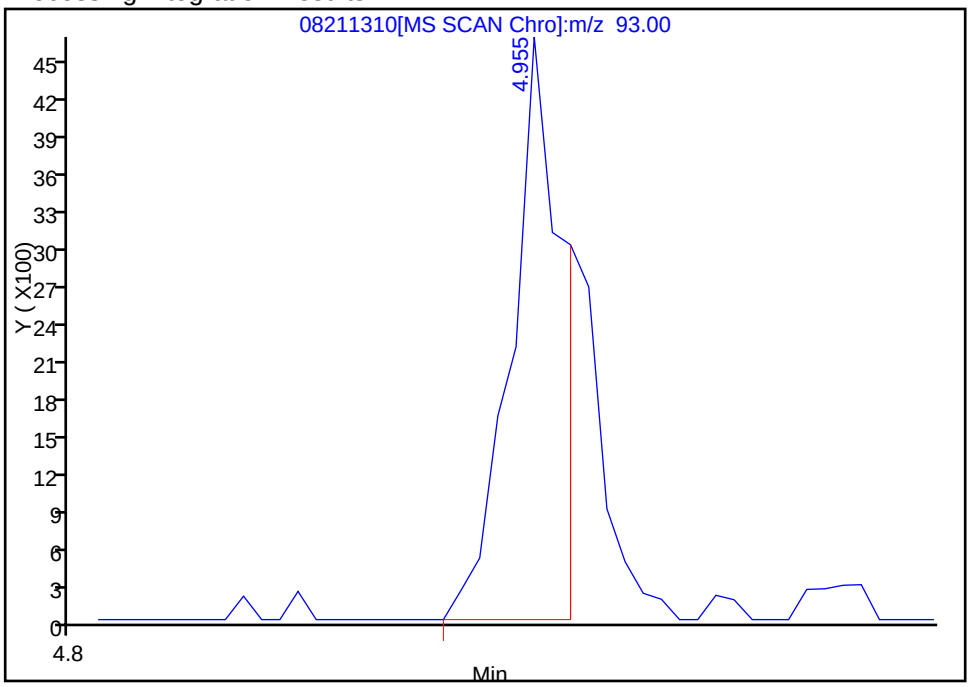
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP34\20130821-23915.b\08211310.D		
Injection Date:	21-Aug-2013 12:57:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP34
Lims Batch ID:	101606	Lims Sample ID:	4
Operator ID:	JJR HP34	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

68 Dibromomethane, Signal: 1, m/z: 93.0 Type: quant, RT: 4.96

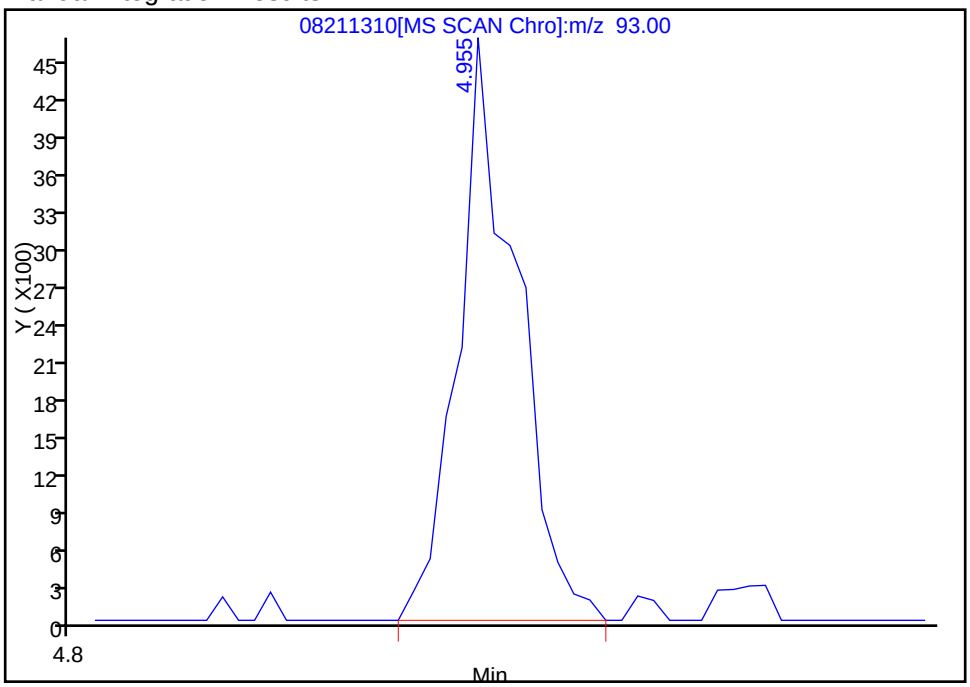
Processing Integration Results

RT: 4.96
Response: 5594
Amount: 1.693889



Manual Integration Results

RT: 4.96
Response: 7196
Amount: 2.121801



Reviewer: redmondj, 22-Aug-2013 09:37:10
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

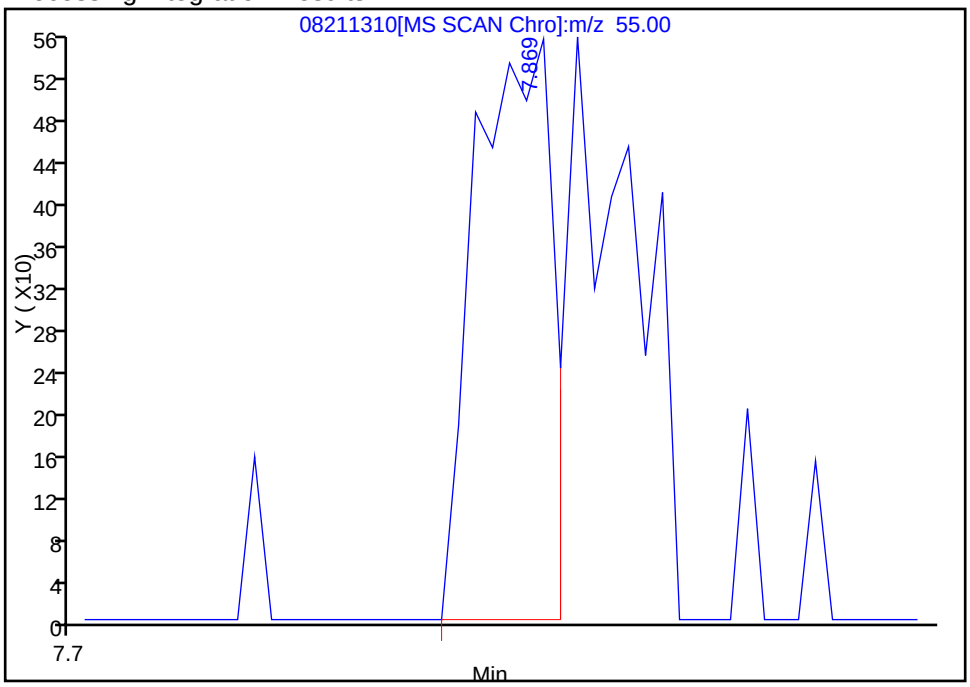
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP34\20130821-23915.b\08211310.D		
Injection Date:	21-Aug-2013 12:57:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP34
Lims Batch ID:	101606	Lims Sample ID:	4
Operator ID:	JJR HP34	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

94 Cyclohexanone, Signal: 1, m/z: 55.0 Type: quant, RT: 7.86

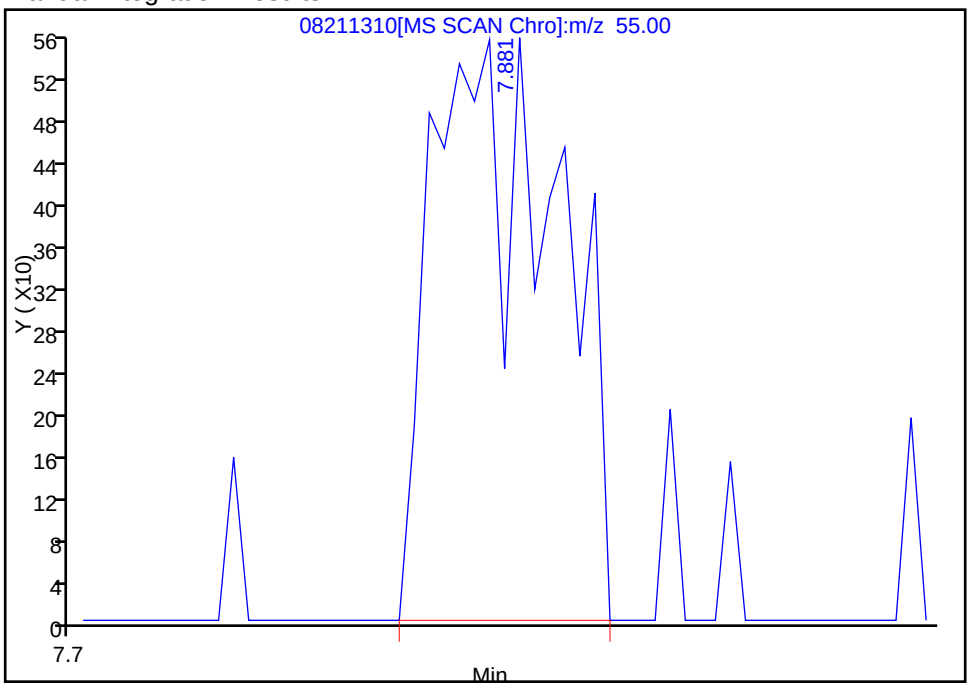
Processing Integration Results

RT: 7.87
Response: 1077
Amount: 46.460914



Manual Integration Results

RT: 7.88
Response: 1951
Amount: 50.309913



Reviewer: redmondj, 22-Aug-2013 09:37:10
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

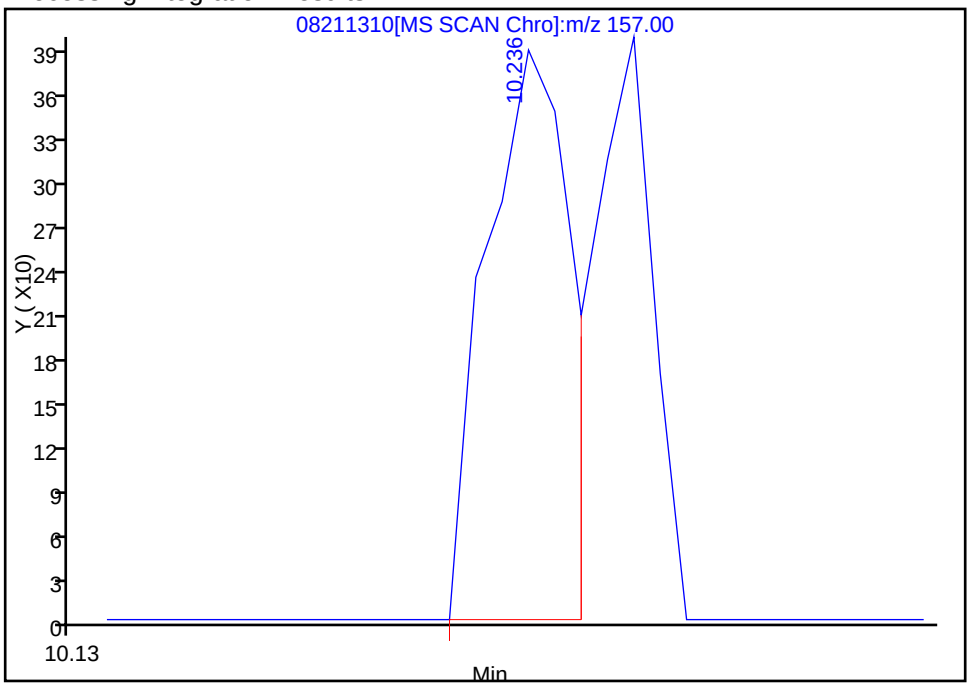
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP34\20130821-23915.b\08211310.D		
Injection Date:	21-Aug-2013 12:57:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP34
Lims Batch ID:	101606	Lims Sample ID:	4
Operator ID:	JJR HP34	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

114 1,2-Dibromo-3-Chloropropane, Signal: 1, m/z: 157.0 Type: quant, RT: 10.24

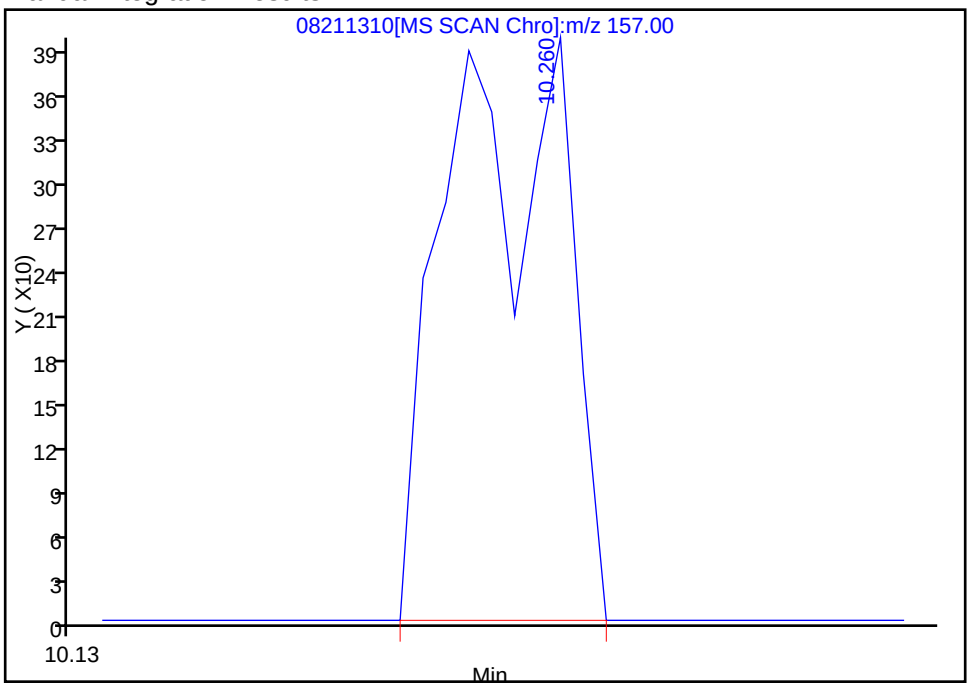
Processing Integration Results

RT: 10.24
Response: 537
Amount: 1.333098



Manual Integration Results

RT: 10.26
Response: 860
Amount: 7.807643



Reviewer: redmondj, 22-Aug-2013 09:37:10
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

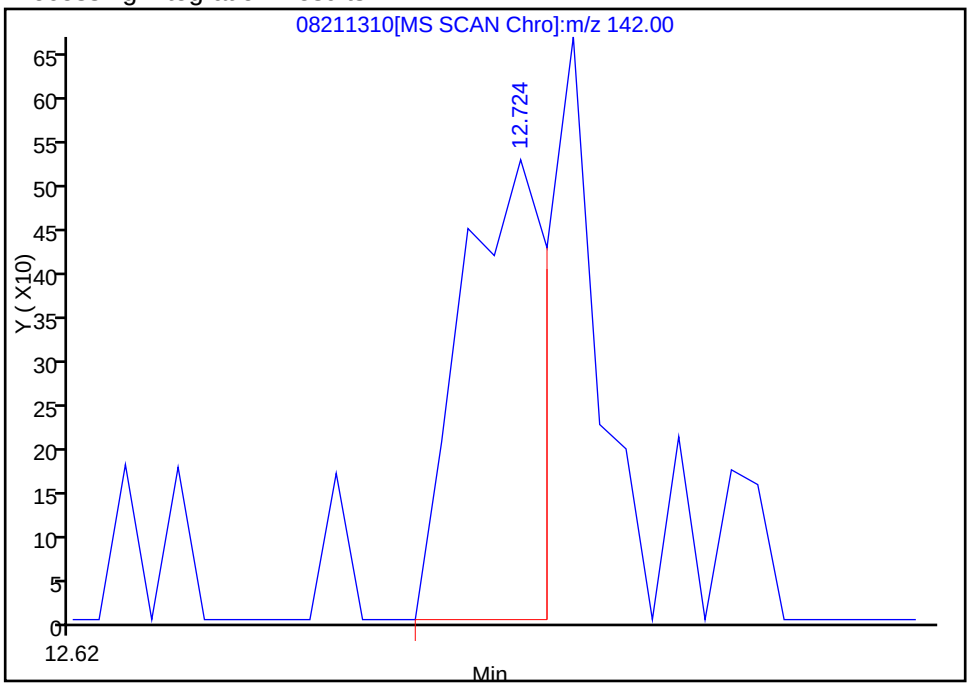
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP34\20130821-23915.b\08211310.D		
Injection Date:	21-Aug-2013 12:57:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP34
Lims Batch ID:	101606	Lims Sample ID:	4
Operator ID:	JJR HP34	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

121 1-Methylnaphthalene, Signal: 1, m/z: 142.0 Type: quant, RT: 12.73

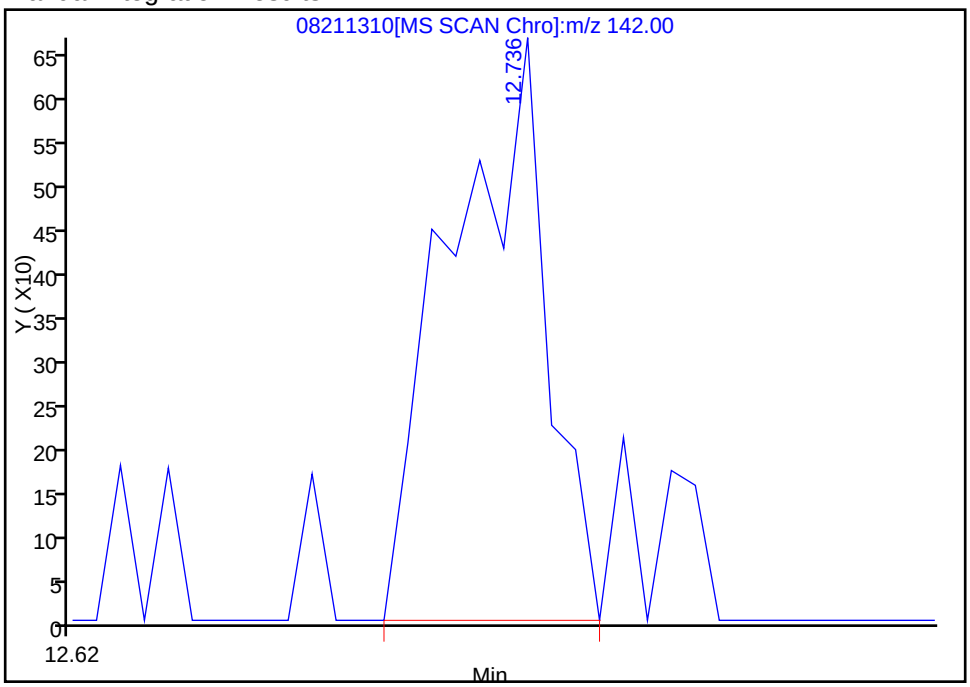
Processing Integration Results

RT: 12.72
Response: 739
Amount: 0.297607



Manual Integration Results

RT: 12.74
Response: 1137
Amount: 1.466382



Reviewer: redmondj, 22-Aug-2013 09:37:10
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211311.D
Lims ID: std005 Client ID:
Inject. Date: 21-Aug-2013 13:24:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: STD005
Misc. Info.: 490-0023915-005
Operator: JJR HP34 Instrument ID: HP34
Purge Vol: 5.000 mL ALS Bottle#: 11
Lims Batch ID: 101606 Lims Sample ID: 5
Sublist: chrom-8260HP34*sub9
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP34\20130821-23915.b\8260HP34.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-77
Last Update: 22-Aug-2013 10:14:48 Calib Date: 21-Aug-2013 16:06:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211317.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK024

First Level Reviewer: redmondj Date: 22-Aug-2013 09:38:07

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.444	4.444	0.0	98	318509	30.0	
* 2 Chlorobenzene-d5	117	6.841	6.841	0.0	86	229980	30.0	
* 3 1,4-Dichlorobenzene-d4	152	9.007	9.007	0.0	91	117886	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.970	3.970	0.0	57	81269	30.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.207	4.213	-0.006	99	105010	30.6	
$ 6 Toluene-d8 (Surr)	98	5.624	5.624	0.0	93	307534	30.2	
$ 8 4-Bromofluorobenzene (Surr)	95	7.900	7.900	0.0	90	102867	29.6	
9 Dichlorodifluoromethane	85	1.566	1.566	0.0	87	39708	5.10	
10 Chloromethane	50	1.713	1.706	0.006	92	34616	5.43	
11 Vinyl chloride	62	1.779	1.779	0.0	84	36654	5.08	
12 Butadiene	54	1.810	1.810	0.0	0	30055	4.84	
13 Bromomethane	96	2.011	2.004	0.007	88	10197	4.60	
14 Chloroethane	64	2.078	2.071	0.007	95	20920	4.95	
15 Dichlorofluoromethane	67	2.193	2.193	0.0	82	55438	5.10	
16 Trichlorofluoromethane	101	2.248	2.242	0.006	81	46320	5.03	
17 Ethanol	45	2.339	2.339	0.0	94	12357	223.4	
18 Ethyl ether	59	2.418	2.412	0.006	93	27726	5.10	
19 Acrolein	56	2.503	2.497	0.006	82	7725	11.4	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.558	2.558	0.0	93	31867	5.37	
21 1,1-Dichloroethene	96	2.570	2.570	0.0	96	25021	4.92	
22 Acetone	58	2.595	2.595	0.0	99	12646	23.6	
23 Isopropyl alcohol	45	2.662	2.661	0.001	56	10769	47.1	
24 Iodomethane	142	2.674	2.674	0.0	97	15845	5.33	
26 Carbon disulfide	76	2.728	2.728	0.0	99	77778	5.09	
28 3-Chloro-1-propene	76	2.783	2.783	0.0	37	18483	4.79	
27 Acetonitrile	41	2.777	2.783	-0.006	97	77746	52.1	
29 Methyl acetate	43	2.789	2.789	0.0	97	130304	26.5	
30 Methylene Chloride	84	2.856	2.856	0.0	85	31651	4.89	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
31 2-Methyl-2-propanol	59	2.905	2.905	0.0	46	7993	46.3	
32 Acrylonitrile	53	3.002	3.002	0.0	98	110323	52.8	
33 Methyl tert-butyl ether	73	3.033	3.026	0.007	59	29766	4.83	
34 trans-1,2-Dichloroethene	61	3.033	3.033	0.0	97	40107	5.19	
35 Hexane	57	3.191	3.191	0.0	95	50521	4.96	
36 1,1-Dichloroethane	63	3.294	3.294	0.0	86	49862	4.94	
37 Vinyl acetate	43	3.306	3.306	0.0	97	119327	9.93	
38 Isopropyl ether	45	3.319	3.318	0.001	73	73257	4.95	
39 2-Chloro-1,3-butadiene	53	3.355	3.349	0.006	82	39631	4.78	
40 Tert-butyl ethyl ether	59	3.550	3.550	0.0	68	23351	4.58	
41 cis-1,2-Dichloroethene	61	3.665	3.659	0.006	78	46808	5.00	
42 2,2-Dichloropropane	77	3.671	3.665	0.006	59	19187	5.84	
44 2-Butanone (MEK)	72	3.665	3.665	0.0	98	16095	25.3	
43 Ethyl acetate	43	3.665	3.665	0.0	77	87140	10.0	
45 Propionitrile	54	3.702	3.702	0.0	78	41272	51.7	
46 Methacrylonitrile	41	3.805	3.805	0.0	93	168127	54.7	
47 Chlorobromomethane	130	3.824	3.823	0.001	82	16796	4.89	
48 Chloroform	83	3.860	3.860	0.0	70	50625	4.90	
49 Tetrahydrofuran	42	3.872	3.872	0.0	31	14033	8.57	
51 1,1,1-Trichloroethane	97	4.006	4.006	0.0	86	31571	4.56	
52 Cyclohexane	56	4.055	4.055	0.0	93	54222	5.11	
53 1,1-Dichloropropene	75	4.116	4.109	0.007	92	35808	4.93	
54 Carbon tetrachloride	117	4.122	4.122	0.0	95	32013	4.69	
55 Isobutyl alcohol	43	4.146	4.146	0.0	84	21913	42.6	
58 1,2-Dichloroethane	62	4.262	4.261	0.001	47	43197	5.06	
57 Benzene	78	4.262	4.261	0.001	94	124557	5.35	
59 Tert-amyl methyl ether	73	4.322	4.322	0.0	49	17943	4.69	
60 n-Heptane	43	4.408	4.407	0.001	90	41522	4.85	
61 n-Butanol	56	4.608	4.608	0.0	90	9192	149.4	
62 Trichloroethene	130	4.706	4.706	0.0	93	30930	5.00	
63 Ethyl acrylate	55	4.754	4.748	0.006	0	25691	4.32	
64 Methylcyclohexane	83	4.858	4.858	0.0	90	54938	5.04	
65 1,2-Dichloropropane	63	4.870	4.870	0.0	81	28169	5.05	
67 Methyl methacrylate	41	4.925	4.925	0.0	92	43619	9.34	
68 Dibromomethane	93	4.955	4.961	-0.006	84	16738	5.07	
69 1,4-Dioxane	88	4.979	4.973	0.006	60	4453	84.0	
70 Dichlorobromomethane	83	5.058	5.058	0.0	95	30396	4.65	
71 2-Nitropropane	43	5.229	5.229	0.0	97	8901	12.6	
72 2-Chloroethyl vinyl ether	63	5.271	5.271	0.0	77	10111	3.68	
73 cis-1,3-Dichloropropene	75	5.405	5.399	0.006	81	22714	4.15	
74 4-Methyl-2-pentanone (MIBK)	58	5.521	5.521	0.0	97	43910	24.8	
75 Toluene	91	5.679	5.679	0.0	96	119263	5.12	
76 trans-1,3-Dichloropropene	75	5.837	5.837	0.0	85	14381	5.48	
77 Ethyl methacrylate	69	5.898	5.898	0.0	87	24857	4.16	
78 1,1,2-Trichloroethane	97	5.995	5.995	0.0	1	24849	4.98	
79 Tetrachloroethene	166	6.135	6.135	0.0	91	35016	5.03	
80 1,3-Dichloropropane	76	6.141	6.141	0.0	94	43077	5.03	
81 2-Hexanone	58	6.202	6.196	0.006	97	34516	21.4	
82 n-Butyl acetate	43	6.293	6.293	0.0	90	11372	3.29	
83 Chlorodibromomethane	127	6.330	6.336	-0.006	85	14207	4.10	
84 Ethylene Dibromide	107	6.446	6.445	0.001	92	22500	4.86	
86 Chlorobenzene	112	6.865	6.865	0.0	92	77791	5.08	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
87 1,1,1,2-Tetrachloroethane	131	6.932	6.932	0.0	76	19984	4.45	
88 Ethylbenzene	91	6.950	6.956	-0.006	98	127547	5.26	
89 m-Xylene & p-Xylene	91	7.060	7.054	0.006	99	94390	4.93	
90 o-Xylene	91	7.419	7.419	0.0	93	99867	5.02	
91 Styrene	104	7.431	7.431	0.0	92	72587	4.93	
92 Bromoform	173	7.601	7.607	-0.006	93	9416	5.92	
93 Isopropylbenzene	105	7.753	7.753	0.0	95	123686	5.10	
94 Cyclohexanone	55	7.863	7.857	0.006	69	4316	63.3	
95 1,1,2,2-Tetrachloroethane	83	8.021	8.021	0.0	84	26825	4.85	
96 Bromobenzene	77	8.052	8.051	0.001	91	57303	5.04	
97 1,2,3-Trichloropropane	110	8.076	8.070	0.006	70	8959	4.99	
98 trans-1,4-Dichloro-2-butene	53	8.076	8.076	0.0	42	6208	4.37	
99 N-Propylbenzene	91	8.143	8.143	0.0	97	142383	5.15	
100 2-Chlorotoluene	91	8.228	8.228	0.0	94	87462	5.11	
101 1,3,5-Trimethylbenzene	105	8.307	8.307	0.0	93	98082	5.19	
102 4-Chlorotoluene	91	8.331	8.331	0.0	97	101872	5.09	
103 tert-Butylbenzene	119	8.617	8.623	-0.006	92	93338	4.93	
104 Pentachloroethane	167	8.642	8.642	0.0	63	12001	4.60	
105 1,2,4-Trimethylbenzene	105	8.666	8.666	0.0	94	91725	4.95	
106 sec-Butylbenzene	105	8.830	8.830	0.0	94	121110	4.98	
107 1,3-Dichlorobenzene	146	8.946	8.946	0.0	97	60017	5.01	
108 4-Isopropyltoluene	119	8.970	8.970	0.0	91	95809	4.92	
109 1,4-Dichlorobenzene	146	9.031	9.031	0.0	91	60418	5.04	
110 1,2,3-Trimethylbenzene	105	9.074	9.080	-0.006	0	90021	4.81	
111 Benzyl chloride	91	9.153	9.159	-0.006	82	16697	7.15	
112 n-Butylbenzene	91	9.372	9.372	0.0	95	90304	4.96	
113 1,2-Dichlorobenzene	146	9.396	9.396	0.0	97	56886	5.15	
114 1,2-Dibromo-3-Chloropropane	157	10.236	10.242	-0.006	30	2147	9.04	
115 1,3,5-Trichlorobenzene	180	10.503	10.503	0.0	94	33852	4.68	
116 1,2,4-Trichlorobenzene	180	11.197	11.197	0.0	91	27905	4.79	
117 Hexachlorobutadiene	225	11.379	11.385	-0.006	92	14195	4.78	
118 Naphthalene	128	11.458	11.458	0.0	94	59098	4.67	
119 1,2,3-Trichlorobenzene	180	11.702	11.702	0.0	92	22799	4.57	
120 2-Methylnaphthalene	142	12.547	12.547	0.0	76	14867	5.79	
121 1-Methylnaphthalene	142	12.724	12.730	-0.006	9	2657	1.68	
S 132 Xylenes, Total	1				0		9.95	
S 133 1,2-Dichloroethene, Total	1				0		10.2	

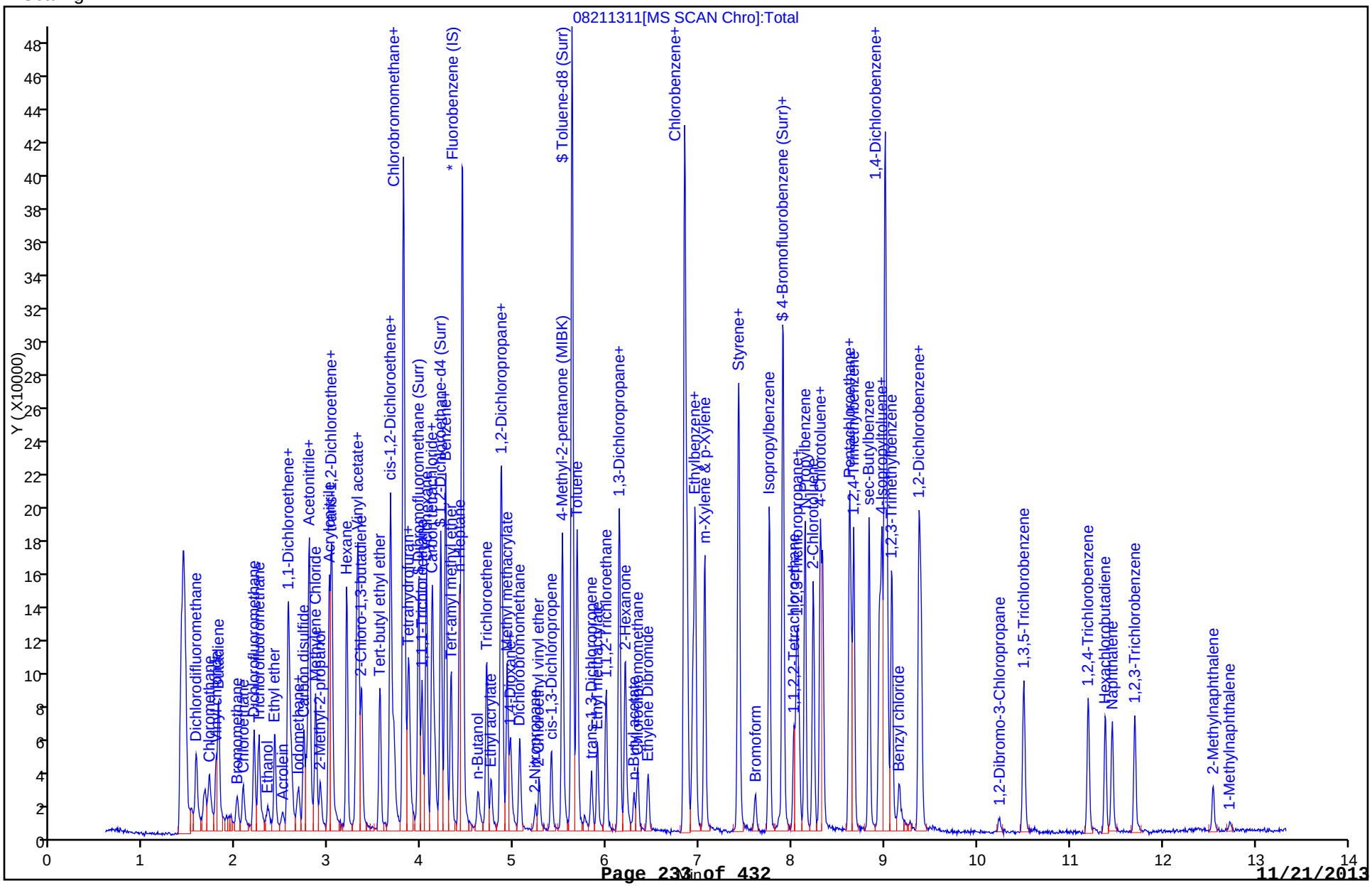
Report Date: 22-Aug-2013 10:14:49 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211311.D

Injection Date:	21-Aug-2013 13:24:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP34
Lims Batch ID:	101606	Lims Sample ID:	5
Operator ID:	JJR HP34	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211312.D
Lims ID: std010 Client ID:
Inject. Date: 21-Aug-2013 13:51:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: STD010
Misc. Info.: 490-0023915-006
Operator: JJR HP34 Instrument ID: HP34
Purge Vol: 5.000 mL ALS Bottle#: 12
Lims Batch ID: 101606 Lims Sample ID: 6
Sublist: chrom-8260HP34*sub9
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP34\20130821-23915.b\8260HP34.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-77
Last Update: 22-Aug-2013 10:14:49 Calib Date: 21-Aug-2013 16:06:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211317.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK024

First Level Reviewer: redmondj Date: 22-Aug-2013 09:39:06

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.444	4.444	0.0	98	322507	30.0	
* 2 Chlorobenzene-d5	117	6.841	6.841	0.0	86	229968	30.0	
* 3 1,4-Dichlorobenzene-d4	152	9.007	9.007	0.0	85	118441	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.970	3.970	0.0	59	83984	31.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.207	4.213	-0.006	91	104707	30.2	
$ 6 Toluene-d8 (Surr)	98	5.624	5.624	0.0	93	309313	30.3	
$ 8 4-Bromofluorobenzene (Surr)	95	7.900	7.900	0.0	89	107169	30.7	
9 Dichlorodifluoromethane	85	1.567	1.566	0.0	87	82127	10.4	
10 Chloromethane	50	1.706	1.706	0.0	88	66748	10.3	
11 Vinyl chloride	62	1.786	1.779	0.007	83	76111	10.4	
12 Butadiene	54	1.810	1.810	0.0	0	65686	10.4	
13 Bromomethane	96	2.005	2.004	0.001	90	21139	9.41	
14 Chloroethane	64	2.078	2.071	0.007	99	43956	10.3	
15 Dichlorofluoromethane	67	2.193	2.193	0.0	83	117469	10.7	
16 Trichlorofluoromethane	101	2.242	2.242	0.0	83	99587	10.7	
17 Ethanol	45	2.345	2.339	0.006	97	27909	498.3	
18 Ethyl ether	59	2.418	2.412	0.006	92	52978	10.3	
19 Acrolein	56	2.497	2.497	0.0	90	16920	23.8	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.558	2.558	0.0	96	60620	10.1	
21 1,1-Dichloroethene	96	2.570	2.570	0.0	97	53833	10.4	
22 Acetone	58	2.595	2.595	0.0	99	25936	51.2	
23 Isopropyl alcohol	45	2.662	2.661	0.001	43	21668	93.5	
24 Iodomethane	142	2.674	2.674	0.0	98	39633	9.56	
26 Carbon disulfide	76	2.728	2.728	0.0	99	160346	10.4	
28 3-Chloro-1-propene	76	2.783	2.783	0.0	38	31238	7.80	
27 Acetonitrile	41	2.783	2.783	0.0	96	155128	102.6	
29 Methyl acetate	43	2.789	2.789	0.0	98	274309	55.1	
30 Methylene Chloride	84	2.856	2.856	0.0	84	62084	9.48	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
31 2-Methyl-2-propanol	59	2.905	2.905	0.0	50	16612	95.0	
32 Acrylonitrile	53	3.002	3.002	0.0	99	222835	105.4	
33 Methyl tert-butyl ether	73	3.033	3.026	0.007	62	60018	9.63	
34 trans-1,2-Dichloroethene	61	3.033	3.033	0.0	97	81543	10.4	
35 Hexane	57	3.191	3.191	0.0	95	100993	10.2	
36 1,1-Dichloroethane	63	3.294	3.294	0.0	92	108344	10.6	
37 Vinyl acetate	43	3.306	3.306	0.0	97	258834	21.3	
38 Isopropyl ether	45	3.319	3.318	0.001	84	156528	10.5	
39 2-Chloro-1,3-butadiene	53	3.355	3.349	0.006	86	84873	10.1	
40 Tert-butyl ethyl ether	59	3.550	3.550	0.0	72	48405	9.38	
41 cis-1,2-Dichloroethene	61	3.665	3.659	0.006	68	99099	10.5	
43 Ethyl acetate	43	3.665	3.665	0.0	95	178409	20.2	
42 2,2-Dichloropropane	77	3.665	3.665	0.0	59	41429	9.48	
44 2-Butanone (MEK)	72	3.665	3.665	0.0	98	32795	51.0	
45 Propionitrile	54	3.708	3.702	0.006	86	81589	100.9	
46 Methacrylonitrile	41	3.805	3.805	0.0	92	353639	113.5	
47 Chlorobromomethane	130	3.824	3.823	0.001	80	34952	10.0	
48 Chloroform	83	3.860	3.860	0.0	71	106714	10.2	
49 Tetrahydrofuran	42	3.872	3.872	0.0	91	31877	19.2	
51 1,1,1-Trichloroethane	97	4.006	4.006	0.0	84	68832	9.83	
52 Cyclohexane	56	4.049	4.055	-0.006	93	111176	10.3	
53 1,1-Dichloropropene	75	4.116	4.109	0.007	92	75663	10.3	
54 Carbon tetrachloride	117	4.122	4.122	0.0	90	70396	10.2	
55 Isobutyl alcohol	43	4.146	4.146	0.0	60	46108	84.4	
58 1,2-Dichloroethane	62	4.262	4.261	0.001	48	86937	10.1	
57 Benzene	78	4.262	4.261	0.001	95	245905	10.4	
59 Tert-amyl methyl ether	73	4.316	4.322	-0.006	48	35648	9.21	
60 n-Heptane	43	4.408	4.407	0.001	90	84646	9.76	
61 n-Butanol	56	4.608	4.608	0.0	89	20754	234.3	
62 Trichloroethene	130	4.706	4.706	0.0	93	63421	10.1	
63 Ethyl acrylate	55	4.754	4.748	0.006	0	56007	8.88	
64 Methylcyclohexane	83	4.858	4.858	0.0	91	115517	10.5	
65 1,2-Dichloropropane	63	4.870	4.870	0.0	88	56751	10.1	
67 Methyl methacrylate	41	4.925	4.925	0.0	91	98942	20.9	
68 Dibromomethane	93	4.961	4.961	0.0	86	34164	10.2	
69 1,4-Dioxane	88	4.979	4.973	0.006	61	10775	179.4	
70 Dichlorobromomethane	83	5.058	5.058	0.0	98	65497	9.89	
71 2-Nitropropane	43	5.229	5.229	0.0	90	20091	18.2	
72 2-Chloroethyl vinyl ether	63	5.271	5.271	0.0	79	24347	8.19	
73 cis-1,3-Dichloropropene	75	5.405	5.399	0.006	90	51601	7.93	
74 4-Methyl-2-pentanone (MIBK)	58	5.521	5.521	0.0	97	94894	53.7	
75 Toluene	91	5.679	5.679	0.0	97	250194	10.7	
76 trans-1,3-Dichloropropene	75	5.837	5.837	0.0	91	33376	8.54	
77 Ethyl methacrylate	69	5.898	5.898	0.0	90	53252	8.45	
78 1,1,2-Trichloroethane	97	5.989	5.995	-0.006	1	51874	10.4	
79 Tetrachloroethene	166	6.135	6.135	0.0	93	68398	9.83	
80 1,3-Dichloropropane	76	6.135	6.141	-0.006	93	89769	10.5	
81 2-Hexanone	58	6.196	6.196	0.0	97	77288	45.6	
82 n-Butyl acetate	43	6.293	6.293	0.0	94	31223	7.88	
83 Chlorodibromomethane	127	6.336	6.336	0.0	88	30699	8.39	
84 Ethylene Dibromide	107	6.446	6.445	0.001	96	45489	9.83	
86 Chlorobenzene	112	6.865	6.865	0.0	93	159818	10.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
87 1,1,1,2-Tetrachloroethane	131	6.932	6.932	0.0	78	45000	9.77	
88 Ethylbenzene	91	6.957	6.956	0.001	98	267737	11.0	
89 m-Xylene & p-Xylene	91	7.060	7.054	0.006	99	206941	10.8	
90 o-Xylene	91	7.419	7.419	0.0	92	217711	10.9	
91 Styrene	104	7.431	7.431	0.0	91	158754	10.8	
92 Bromoform	173	7.601	7.607	-0.006	94	19166	9.11	
93 Isopropylbenzene	105	7.754	7.753	0.001	96	265185	10.9	
94 Cyclohexanone	55	7.851	7.857	-0.006	71	9479	90.3	
95 1,1,2,2-Tetrachloroethane	83	8.021	8.021	0.0	96	58151	10.5	
96 Bromobenzene	77	8.052	8.051	0.001	92	117919	10.3	
97 1,2,3-Trichloropropane	110	8.070	8.070	0.0	77	18854	10.4	
98 trans-1,4-Dichloro-2-butene	53	8.076	8.076	0.0	59	13760	8.86	
99 N-Propylbenzene	91	8.143	8.143	0.0	98	310430	11.2	
100 2-Chlorotoluene	91	8.228	8.228	0.0	96	184388	10.7	
101 1,3,5-Trimethylbenzene	105	8.307	8.307	0.0	95	207555	10.9	
102 4-Chlorotoluene	91	8.331	8.331	0.0	97	215933	10.7	
103 tert-Butylbenzene	119	8.623	8.623	0.0	93	203318	10.7	
104 Pentachloroethane	167	8.642	8.642	0.0	77	25642	9.55	
105 1,2,4-Trimethylbenzene	105	8.666	8.666	0.0	94	203483	10.9	
106 sec-Butylbenzene	105	8.830	8.830	0.0	93	271303	11.1	
107 1,3-Dichlorobenzene	146	8.946	8.946	0.0	98	127990	10.6	
108 4-Isopropyltoluene	119	8.970	8.970	0.0	92	212150	10.9	
109 1,4-Dichlorobenzene	146	9.031	9.031	0.0	93	128164	10.6	
110 1,2,3-Trimethylbenzene	105	9.074	9.080	-0.006	0	202557	10.8	
111 Benzyl chloride	91	9.159	9.159	0.0	89	34613	9.90	
112 n-Butylbenzene	91	9.372	9.372	0.0	95	199770	10.9	
113 1,2-Dichlorobenzene	146	9.396	9.396	0.0	96	118803	10.7	
114 1,2-Dibromo-3-Chloropropane	157	10.242	10.242	0.0	52	5641	12.4	
115 1,3,5-Trichlorobenzene	180	10.503	10.503	0.0	95	74110	10.2	
116 1,2,4-Trichlorobenzene	180	11.197	11.197	0.0	93	60684	10.4	
117 Hexachlorobutadiene	225	11.379	11.385	-0.006	95	31291	10.5	
118 Naphthalene	128	11.458	11.458	0.0	96	126153	9.91	
119 1,2,3-Trichlorobenzene	180	11.702	11.702	0.0	94	47982	9.57	
120 2-Methylnaphthalene	142	12.547	12.547	0.0	86	41034	9.61	
121 1-Methylnaphthalene	142	12.724	12.730	-0.006	61	7255	2.32	
S 132 Xylenes, Total	1				0		21.8	
S 133 1,2-Dichloroethene, Total	1				0		20.9	

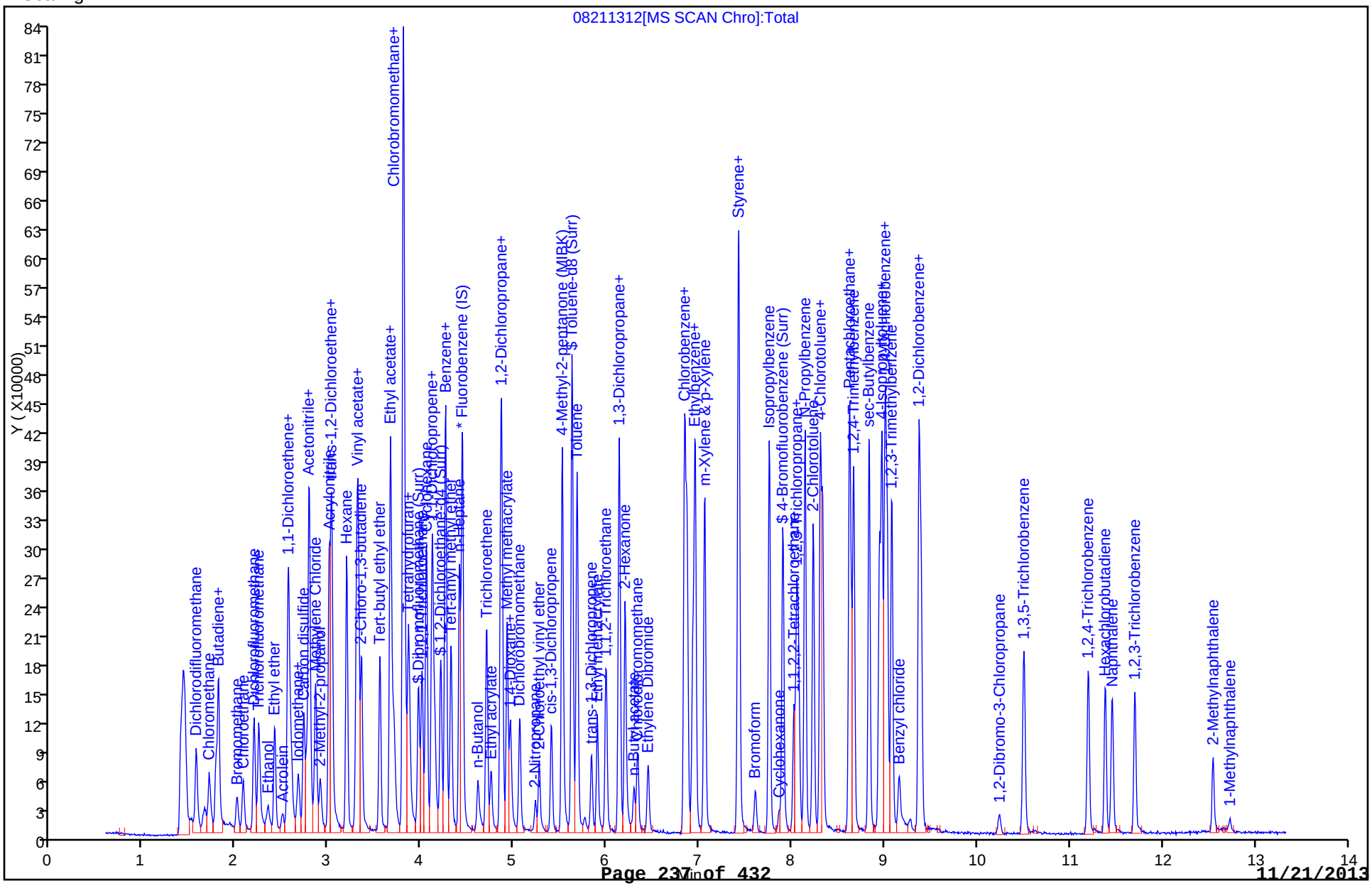
Report Date: 22-Aug-2013 10:14:50 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211312.D

Injection Date:	21-Aug-2013 13:51:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP34
Lims Batch ID:	101606	Lims Sample ID:	6
Operator ID:	JJR HP34	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211313.D
Lims ID: icis Client ID:
Inject. Date: 21-Aug-2013 14:18:30 Dil. Factor: 1.0000
Sample Type: ICIS Calib Level: 6
Sample ID: ICIS
Misc. Info.: 490-0023915-007
Operator: JJR HP34 Instrument ID: HP34
Purge Vol: 5.000 mL ALS Bottle#: 13
Lims Batch ID: 101606 Lims Sample ID: 7
Sublist: chrom-8260HP34*sub9
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP34\20130821-23915.b\8260HP34.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-77
Last Update: 22-Aug-2013 10:14:50 Calib Date: 21-Aug-2013 16:06:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211317.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK024

First Level Reviewer: redmondj Date: 22-Aug-2013 09:24:18

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.438	4.438	0.0	97	325736	30.0	
* 2 Chlorobenzene-d5	117	6.841	6.841	0.0	88	236101	30.0	
* 3 1,4-Dichlorobenzene-d4	152	9.007	9.007	0.0	63	124239	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.970	3.970	0.0	58	82260	30.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.207	4.207	0.0	92	106850	30.5	
$ 6 Toluene-d8 (Surr)	98	5.624	5.624	0.0	92	311422	29.7	
$ 8 4-Bromofluorobenzene (Surr)	95	7.900	7.900	0.0	89	107976	29.5	
9 Dichlorodifluoromethane	85	1.567	1.567	0.0	88	153268	19.3	
10 Chloromethane	50	1.707	1.707	0.0	88	122483	18.8	
11 Vinyl chloride	62	1.786	1.786	0.0	82	143690	19.5	
12 Butadiene	54	1.810	1.810	0.0	0	129453	20.4	
13 Bromomethane	96	2.005	2.005	0.0	91	45540	20.1	
14 Chloroethane	64	2.072	2.072	0.0	95	84552	19.6	
15 Dichlorofluoromethane	67	2.193	2.193	0.0	98	219411	19.7	
16 Trichlorofluoromethane	101	2.248	2.248	0.0	84	168415	17.9	
17 Ethanol	45	2.345	2.345	0.0	95	53319	942.6	
18 Ethyl ether	59	2.418	2.418	0.0	92	99525	19.7	
19 Acrolein	56	2.497	2.497	0.0	90	31790	43.6	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.558	2.558	0.0	94	120587	19.9	
21 1,1-Dichloroethene	96	2.570	2.570	0.0	88	102008	19.6	
22 Acetone	58	2.595	2.595	0.0	99	49275	99.3	
23 Isopropyl alcohol	45	2.662	2.662	0.0	89	43766	187.0	
24 Iodomethane	142	2.674	2.674	0.0	99	85156	17.6	
26 Carbon disulfide	76	2.729	2.729	0.0	99	308920	19.8	
28 3-Chloro-1-propene	76	2.783	2.783	0.0	82	78028	18.9	
27 Acetonitrile	41	2.783	2.783	0.0	96	304723	199.6	
29 Methyl acetate	43	2.789	2.789	0.0	97	525359	104.4	
30 Methylene Chloride	84	2.856	2.856	0.0	85	124480	18.8	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
31 2-Methyl-2-propanol	59	2.911	2.911	0.0	52	33166	187.8	
32 Acrylonitrile	53	3.002	3.002	0.0	99	436244	204.2	
33 Methyl tert-butyl ether	73	3.027	3.027	0.0	67	119293	18.9	
34 trans-1,2-Dichloroethene	61	3.033	3.033	0.0	95	158811	20.1	
35 Hexane	57	3.191	3.191	0.0	94	192259	19.5	
36 1,1-Dichloroethane	63	3.294	3.294	0.0	92	209000	20.2	
37 Vinyl acetate	43	3.306	3.306	0.0	97	525607	42.8	
38 Isopropyl ether	45	3.319	3.319	0.0	79	306594	20.3	
39 2-Chloro-1,3-butadiene	53	3.349	3.349	0.0	87	170580	20.1	
40 Tert-butyl ethyl ether	59	3.550	3.550	0.0	71	100875	19.3	
41 cis-1,2-Dichloroethene	61	3.665	3.665	0.0	64	191773	20.0	
44 2-Butanone (MEK)	72	3.665	3.665	0.0	98	62992	97.0	
43 Ethyl acetate	43	3.665	3.665	0.0	92	364838	40.9	
42 2,2-Dichloropropane	77	3.672	3.672	0.0	68	87037	16.9	
45 Propionitrile	54	3.702	3.702	0.0	74	159172	194.9	
46 Methacrylonitrile	41	3.805	3.805	0.0	92	675823	214.8	
47 Chlorobromomethane	130	3.824	3.824	0.0	69	70003	19.9	
48 Chloroform	83	3.860	3.860	0.0	71	204294	19.4	
49 Tetrahydrofuran	42	3.872	3.872	0.0	89	66118	39.5	
51 1,1,1-Trichloroethane	97	4.006	4.006	0.0	90	144801	20.5	
52 Cyclohexane	56	4.055	4.055	0.0	92	217219	20.0	
53 1,1-Dichloropropene	75	4.116	4.116	0.0	93	151105	20.3	
54 Carbon tetrachloride	117	4.122	4.122	0.0	88	141286	20.3	
55 Isobutyl alcohol	43	4.146	4.146	0.0	89	104420	184.5	
58 1,2-Dichloroethane	62	4.262	4.262	0.0	55	169421	19.4	
57 Benzene	78	4.262	4.262	0.0	96	481002	20.2	
59 Tert-amyl methyl ether	73	4.316	4.316	0.0	48	75039	19.2	
60 n-Heptane	43	4.408	4.408	0.0	91	177755	20.3	
61 n-Butanol	56	4.608	4.608	0.0	93	44454	406.6	
62 Trichloroethene	130	4.706	4.706	0.0	93	126553	20.0	
63 Ethyl acrylate	55	4.748	4.748	0.0	0	116232	17.9	
64 Methylcyclohexane	83	4.858	4.858	0.0	91	224010	20.1	
65 1,2-Dichloropropane	63	4.870	4.870	0.0	91	112914	19.8	
67 Methyl methacrylate	41	4.925	4.925	0.0	89	203229	42.5	
68 Dibromomethane	93	4.955	4.955	0.0	85	66896	19.8	
69 1,4-Dioxane	88	4.973	4.973	0.0	67	24048	377.7	
70 Dichlorobromomethane	83	5.059	5.059	0.0	99	137747	20.6	
71 2-Nitropropane	43	5.229	5.229	0.0	93	50286	33.4	
72 2-Chloroethyl vinyl ether	63	5.271	5.271	0.0	80	52604	16.7	
73 cis-1,3-Dichloropropene	75	5.405	5.405	0.0	90	123385	16.9	
74 4-Methyl-2-pentanone (MIBK)	58	5.521	5.521	0.0	97	200662	110.5	
75 Toluene	91	5.679	5.679	0.0	98	492447	20.6	
76 trans-1,3-Dichloropropene	75	5.837	5.837	0.0	95	78696	15.5	
77 Ethyl methacrylate	69	5.898	5.898	0.0	91	121385	18.3	
78 1,1,2-Trichloroethane	97	5.995	5.995	0.0	1	104993	20.5	
79 Tetrachloroethene	166	6.135	6.135	0.0	93	135871	19.0	
80 1,3-Dichloropropane	76	6.141	6.141	0.0	93	177829	20.2	
81 2-Hexanone	58	6.196	6.196	0.0	97	174362	97.9	
82 n-Butyl acetate	43	6.294	6.294	0.0	96	69391	16.6	
83 Chlorodibromomethane	127	6.336	6.336	0.0	89	67112	17.4	
84 Ethylene Dibromide	107	6.446	6.446	0.0	97	97921	20.6	
86 Chlorobenzene	112	6.865	6.865	0.0	93	323682	20.6	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
87 1,1,1,2-Tetrachloroethane	131	6.932	6.932	0.0	84	94117	19.7	
88 Ethylbenzene	91	6.957	6.957	0.0	98	520512	20.9	
89 m-Xylene & p-Xylene	91	7.054	7.054	0.0	99	409556	20.8	
90 o-Xylene	91	7.419	7.419	0.0	94	434712	21.3	
91 Styrene	104	7.431	7.431	0.0	91	336189	22.2	
92 Bromoform	173	7.601	7.601	0.0	94	43120	16.6	
93 Isopropylbenzene	105	7.754	7.754	0.0	96	538047	21.6	
94 Cyclohexanone	55	7.863	7.863	0.0	86	22008	155.4	
95 1,1,2,2-Tetrachloroethane	83	8.021	8.021	0.0	89	120853	20.7	
96 Bromobenzene	77	8.052	8.052	0.0	92	232994	19.4	
97 1,2,3-Trichloropropane	110	8.070	8.070	0.0	76	39406	20.8	
98 trans-1,4-Dichloro-2-butene	53	8.076	8.076	0.0	63	31061	18.3	
99 N-Propylbenzene	91	8.143	8.143	0.0	97	625619	21.5	
100 2-Chlorotoluene	91	8.228	8.228	0.0	96	368840	20.4	
101 1,3,5-Trimethylbenzene	105	8.307	8.307	0.0	94	429113	21.5	
102 4-Chlorotoluene	91	8.332	8.332	0.0	98	427671	20.3	
103 tert-Butylbenzene	119	8.624	8.624	0.0	90	427205	21.4	
104 Pentachloroethane	167	8.642	8.642	0.0	81	57617	20.2	
105 1,2,4-Trimethylbenzene	105	8.666	8.666	0.0	95	425753	21.8	
106 sec-Butylbenzene	105	8.830	8.830	0.0	95	562504	22.0	
107 1,3-Dichlorobenzene	146	8.946	8.946	0.0	98	257018	20.4	
108 4-Isopropyltoluene	119	8.970	8.970	0.0	95	452199	22.1	
109 1,4-Dichlorobenzene	146	9.025	9.025	0.0	94	250303	19.8	
110 1,2,3-Trimethylbenzene	105	9.080	9.080	0.0	0	423684	21.5	
111 Benzyl chloride	91	9.159	9.159	0.0	96	73500	15.6	
112 n-Butylbenzene	91	9.372	9.372	0.0	97	421067	22.0	
113 1,2-Dichlorobenzene	146	9.396	9.396	0.0	98	239903	20.6	
114 1,2-Dibromo-3-Chloropropane	157	10.236	10.236	0.0	67	11692	17.8	
115 1,3,5-Trichlorobenzene	180	10.503	10.503	0.0	96	153163	20.1	
116 1,2,4-Trichlorobenzene	180	11.197	11.197	0.0	93	124177	20.2	
117 Hexachlorobutadiene	225	11.379	11.379	0.0	96	59037	18.9	
118 Naphthalene	128	11.458	11.458	0.0	98	274214	20.5	
119 1,2,3-Trichlorobenzene	180	11.702	11.702	0.0	95	105408	20.0	
120 2-Methylnaphthalene	142	12.547	12.547	0.0	89	93588	16.7	
121 1-Methylnaphthalene	142	12.724	12.724	0.0	75	15218	3.33	
S 132 Xylenes, Total	1				0		42.1	
S 133 1,2-Dichloroethene, Total	1				0		40.1	

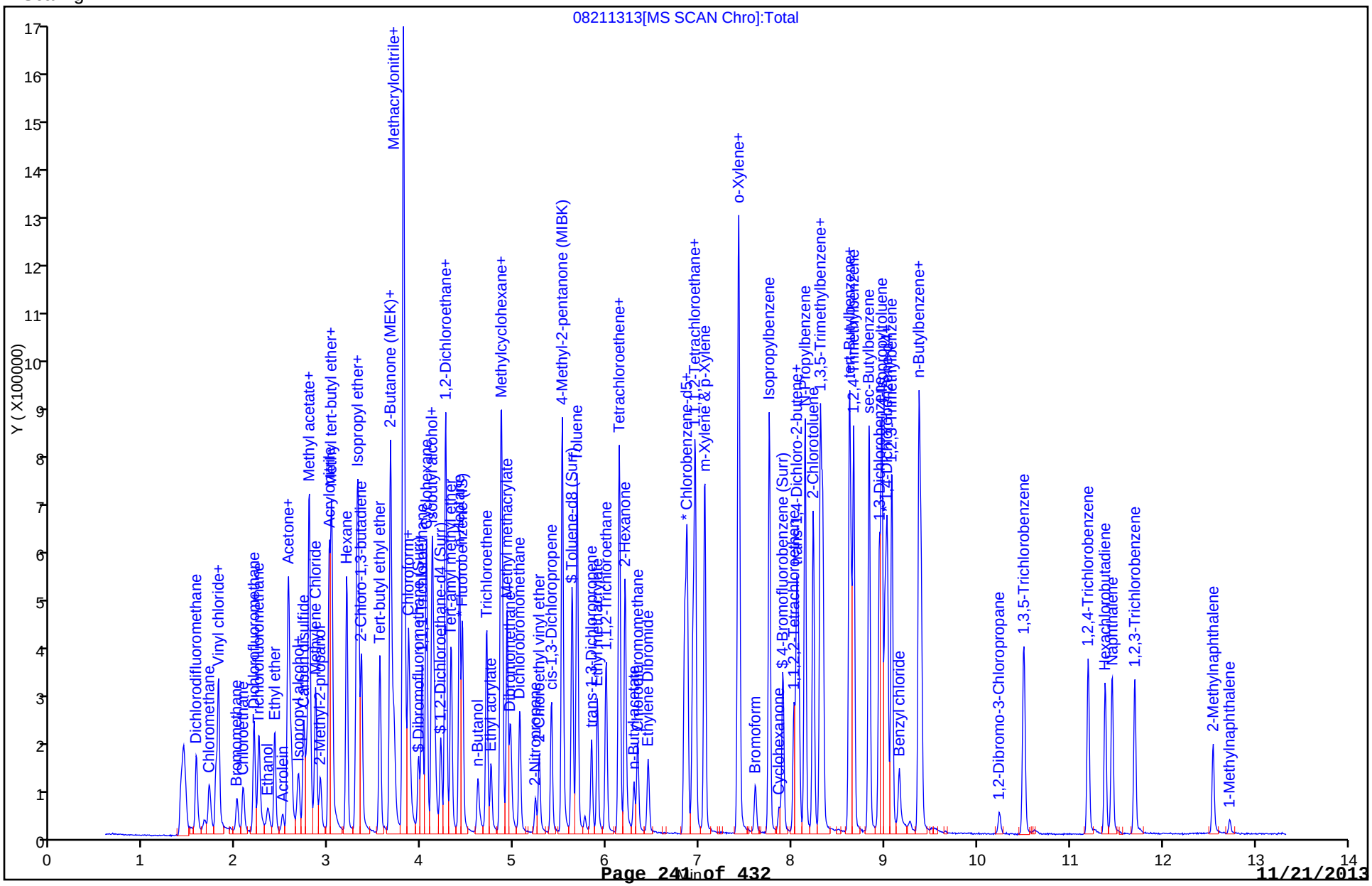
Report Date: 22-Aug-2013 10:14:51 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211313.D

Injection Date:	21-Aug-2013 14:18:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP34
Lims Batch ID:	101606	Lims Sample ID:	7
Operator ID:	JJR HP34	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211314.D
Lims ID: std050 Client ID:
Inject. Date: 21-Aug-2013 14:45:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 7
Sample ID: STD050
Misc. Info.: 490-0023915-008
Operator: JJR HP34 Instrument ID: HP34
Purge Vol: 5.000 mL ALS Bottle#: 14
Lims Batch ID: 101606 Lims Sample ID: 8
Sublist: chrom-8260HP34*sub9
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP34\20130821-23915.b\8260HP34.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-77
Last Update: 22-Aug-2013 10:14:51 Calib Date: 21-Aug-2013 16:06:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211317.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK024

First Level Reviewer: redmondj Date: 22-Aug-2013 09:39:57

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.444	4.444	0.0	99	335888	30.0	
* 2 Chlorobenzene-d5	117	6.841	6.841	0.0	88	247817	30.0	
* 3 1,4-Dichlorobenzene-d4	152	9.007	9.007	0.0	60	135965	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.969	3.969	0.0	57	85674	30.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.207	4.207	0.0	91	105692	29.2	
$ 6 Toluene-d8 (Surr)	98	5.624	5.624	0.0	92	330361	30.1	
$ 8 4-Bromofluorobenzene (Surr)	95	7.899	7.899	0.0	84	113935	28.5	
9 Dichlorodifluoromethane	85	1.566	1.566	0.0	89	384972	46.9	
10 Chloromethane	50	1.706	1.706	0.0	89	290822	43.2	
11 Vinyl chloride	62	1.779	1.779	0.0	98	359482	47.3	
12 Butadiene	54	1.810	1.810	0.0	0	321412	49.1	
13 Bromomethane	96	2.004	2.004	0.0	91	122895	52.5	
14 Chloroethane	64	2.071	2.071	0.0	98	200074	44.9	
15 Dichlorofluoromethane	67	2.193	2.193	0.0	98	527853	46.0	
16 Trichlorofluoromethane	101	2.242	2.242	0.0	83	446961	46.0	
17 Ethanol	45	2.339	2.339	0.0	99	133125	2282.2	
18 Ethyl ether	59	2.412	2.412	0.0	92	237866	46.6	
19 Acrolein	56	2.497	2.497	0.0	94	84543	111.4	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.558	2.558	0.0	93	284173	45.4	
21 1,1-Dichloroethene	96	2.570	2.570	0.0	90	253736	47.3	
22 Acetone	58	2.595	2.595	0.0	99	116407	231.8	
23 Isopropyl alcohol	45	2.661	2.661	0.0	92	120245	498.2	
24 Iodomethane	142	2.674	2.674	0.0	98	238590	43.5	
26 Carbon disulfide	76	2.728	2.728	0.0	99	747735	46.4	
28 3-Chloro-1-propene	76	2.783	2.783	0.0	88	199258	46.3	
27 Acetonitrile	41	2.783	2.783	0.0	96	713635	453.3	
29 Methyl acetate	43	2.789	2.789	0.0	97	1226594	236.4	
30 Methylene Chloride	84	2.856	2.856	0.0	89	295266	43.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
31 2-Methyl-2-propanol	59	2.905	2.905	0.0	57	90072	494.6	
32 Acrylonitrile	53	3.002	3.002	0.0	100	1048271	475.9	
33 Methyl tert-butyl ether	73	3.026	3.026	0.0	70	310979	47.9	
34 trans-1,2-Dichloroethene	61	3.033	3.033	0.0	98	379019	46.5	
35 Hexane	57	3.191	3.191	0.0	95	475646	47.2	
36 1,1-Dichloroethane	63	3.294	3.294	0.0	93	516705	48.5	
37 Vinyl acetate	43	3.306	3.306	0.0	97	1292302	102.0	
38 Isopropyl ether	45	3.318	3.318	0.0	82	773887	49.6	
39 2-Chloro-1,3-butadiene	53	3.349	3.349	0.0	82	425217	48.6	
40 Tert-butyl ethyl ether	59	3.550	3.550	0.0	73	261253	48.6	
41 cis-1,2-Dichloroethene	61	3.659	3.659	0.0	79	468178	47.4	
42 2,2-Dichloropropane	77	3.665	3.665	0.0	74	236333	40.2	
44 2-Butanone (MEK)	72	3.665	3.665	0.0	98	162556	242.7	
43 Ethyl acetate	43	3.665	3.665	0.0	93	863899	93.9	
45 Propionitrile	54	3.702	3.702	0.0	98	413080	490.4	
46 Methacrylonitrile	41	3.805	3.805	0.0	90	1547821	477.2	
47 Chlorobromomethane	130	3.823	3.823	0.0	68	171701	47.4	
48 Chloroform	83	3.860	3.860	0.0	71	506786	46.6	
49 Tetrahydrofuran	42	3.872	3.872	0.0	90	164543	95.3	
51 1,1,1-Trichloroethane	97	4.006	4.006	0.0	92	382062	52.4	
52 Cyclohexane	56	4.055	4.055	0.0	91	533462	47.6	
53 1,1-Dichloropropene	75	4.109	4.109	0.0	91	372968	48.7	
54 Carbon tetrachloride	117	4.122	4.122	0.0	82	369390	51.4	
55 Isobutyl alcohol	43	4.146	4.146	0.0	90	270366	457.5	
58 1,2-Dichloroethane	62	4.261	4.261	0.0	54	409613	45.5	
57 Benzene	78	4.261	4.261	0.0	97	1148775	46.8	
59 Tert-amyl methyl ether	73	4.322	4.322	0.0	48	195805	48.6	
60 n-Heptane	43	4.407	4.407	0.0	91	436867	48.4	
61 n-Butanol	56	4.608	4.608	0.0	96	134928	1040.5	
62 Trichloroethene	130	4.706	4.706	0.0	97	309262	47.4	
63 Ethyl acrylate	55	4.748	4.748	0.0	0	312268	46.0	
64 Methylcyclohexane	83	4.858	4.858	0.0	91	549069	47.7	
65 1,2-Dichloropropane	63	4.870	4.870	0.0	93	283029	48.1	
67 Methyl methacrylate	41	4.925	4.925	0.0	89	515555	104.6	
68 Dibromomethane	93	4.961	4.961	0.0	90	164357	47.2	
69 1,4-Dioxane	88	4.973	4.973	0.0	81	61360	911.9	
70 Dichlorobromomethane	83	5.058	5.058	0.0	93	361897	52.5	
71 2-Nitropropane	43	5.229	5.229	0.0	95	154759	83.9	
72 2-Chloroethyl vinyl ether	63	5.271	5.271	0.0	80	152609	45.3	
73 cis-1,3-Dichloropropene	75	5.399	5.399	0.0	93	371803	46.3	
74 4-Methyl-2-pentanone (MIBK)	58	5.521	5.521	0.0	95	513231	269.3	
75 Toluene	91	5.679	5.679	0.0	99	1218222	48.5	
76 trans-1,3-Dichloropropene	75	5.837	5.837	0.0	91	257272	41.6	
77 Ethyl methacrylate	69	5.898	5.898	0.0	91	338219	47.8	
78 1,1,2-Trichloroethane	97	5.995	5.995	0.0	1	257709	47.9	
79 Tetrachloroethene	166	6.135	6.135	0.0	95	336887	44.9	
80 1,3-Dichloropropane	76	6.141	6.141	0.0	93	436691	47.3	
81 2-Hexanone	58	6.196	6.196	0.0	96	454062	240.3	
82 n-Butyl acetate	43	6.293	6.293	0.0	98	200114	45.4	
83 Chlorodibromomethane	127	6.336	6.336	0.0	88	186804	45.5	
84 Ethylene Dibromide	107	6.445	6.445	0.0	99	244231	49.0	
86 Chlorobenzene	112	6.865	6.865	0.0	92	792846	48.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
87 1,1,1,2-Tetrachloroethane	131	6.932	6.932	0.0	85	250846	49.7	
88 Ethylbenzene	91	6.956	6.956	0.0	98	1292551	49.4	
89 m-Xylene & p-Xylene	91	7.054	7.054	0.0	99	1033771	50.1	
90 o-Xylene	91	7.419	7.419	0.0	93	1076154	50.2	
91 Styrene	104	7.431	7.431	0.0	92	860809	54.2	
92 Bromoform	173	7.607	7.607	0.0	95	126187	41.1	
93 Isopropylbenzene	105	7.753	7.753	0.0	96	1332706	51.0	
94 Cyclohexanone	55	7.857	7.857	0.0	93	70964	400.6	
95 1,1,2,2-Tetrachloroethane	83	8.021	8.021	0.0	95	304469	47.7	
96 Bromobenzene	77	8.051	8.051	0.0	93	588580	44.9	
97 1,2,3-Trichloropropane	110	8.070	8.070	0.0	79	99887	48.2	
98 trans-1,4-Dichloro-2-butene	53	8.076	8.076	0.0	67	81167	42.9	
99 N-Propylbenzene	91	8.143	8.143	0.0	97	1545039	48.4	
100 2-Chlorotoluene	91	8.228	8.228	0.0	96	932921	47.2	
101 1,3,5-Trimethylbenzene	105	8.307	8.307	0.0	94	1084635	49.8	
102 4-Chlorotoluene	91	8.331	8.331	0.0	97	1081473	46.8	
103 tert-Butylbenzene	119	8.623	8.623	0.0	92	1091862	50.0	
104 Pentachloroethane	167	8.642	8.642	0.0	78	165250	52.7	
105 1,2,4-Trimethylbenzene	105	8.666	8.666	0.0	95	1073647	50.2	
106 sec-Butylbenzene	105	8.830	8.830	0.0	95	1409978	50.3	
107 1,3-Dichlorobenzene	146	8.946	8.946	0.0	98	649891	47.0	
108 4-Isopropyltoluene	119	8.970	8.970	0.0	94	1158833	51.6	
109 1,4-Dichlorobenzene	146	9.031	9.031	0.0	93	639726	46.3	
110 1,2,3-Trimethylbenzene	105	9.080	9.080	0.0	0	1103272	51.1	
111 Benzyl chloride	91	9.159	9.159	0.0	96	222090	36.1	
112 n-Butylbenzene	91	9.372	9.372	0.0	96	1072255	51.1	
113 1,2-Dichlorobenzene	146	9.396	9.396	0.0	96	594538	46.6	
114 1,2-Dibromo-3-Chloropropane	157	10.242	10.242	0.0	76	36303	37.7	
115 1,3,5-Trichlorobenzene	180	10.503	10.503	0.0	96	388311	46.5	
116 1,2,4-Trichlorobenzene	180	11.197	11.197	0.0	94	319864	47.6	
117 Hexachlorobutadiene	225	11.385	11.385	0.0	97	153963	44.9	
118 Naphthalene	128	11.458	11.458	0.0	97	736442	50.4	
119 1,2,3-Trichlorobenzene	180	11.702	11.702	0.0	93	272899	47.4	
120 2-Methylnaphthalene	142	12.547	12.547	0.0	87	276337	38.9	
121 1-Methylnaphthalene	142	12.730	12.730	0.0	87	49137	7.30	
S 132 Xylenes, Total	1				0		100.3	
S 133 1,2-Dichloroethene, Total	1				0		94.0	

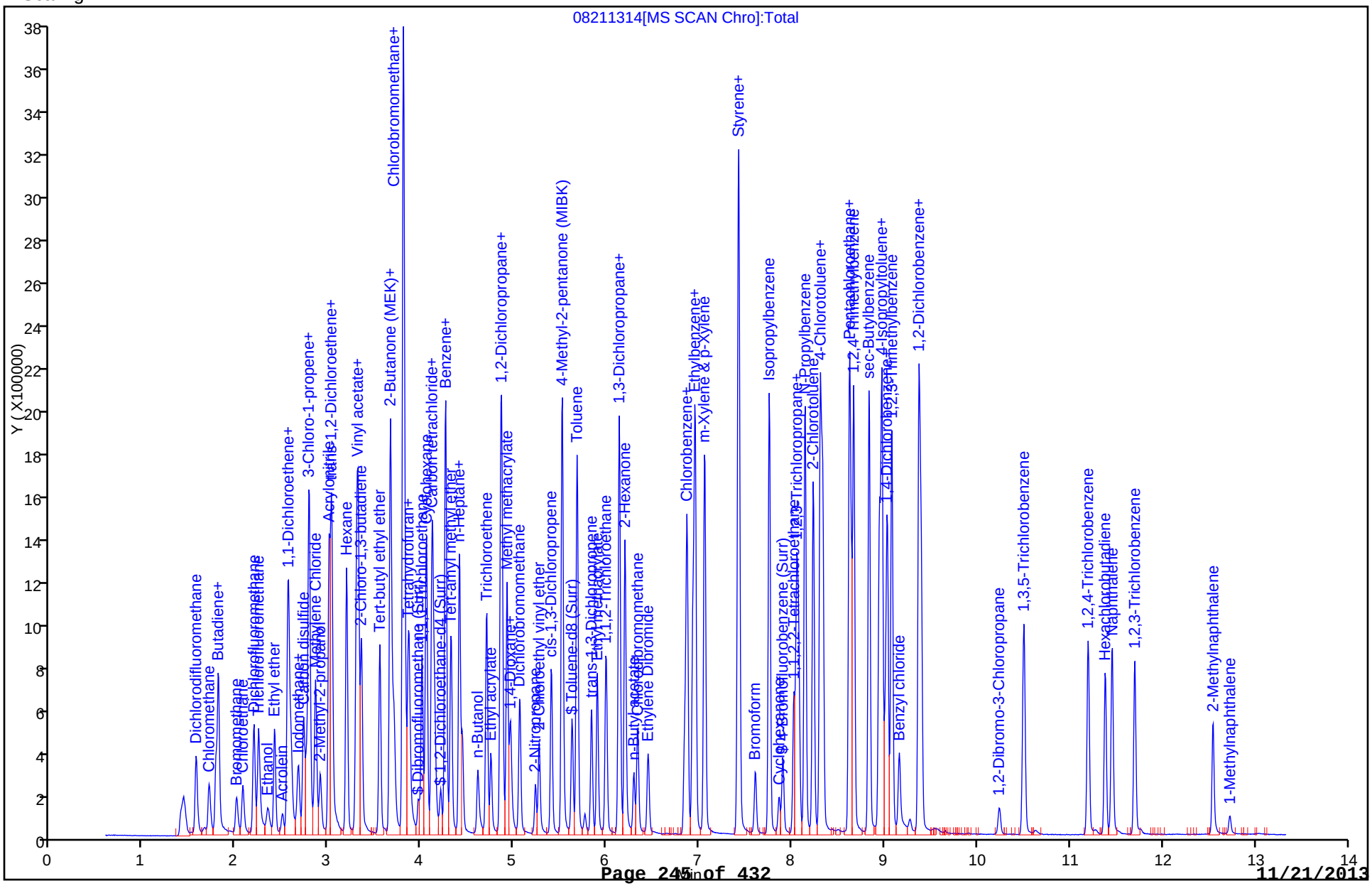
Report Date: 22-Aug-2013 10:14:52 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211314.D

Injection Date:	21-Aug-2013 14:45:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP34
Lims Batch ID:	101606	Lims Sample ID:	8
Operator ID:	JJR HP34	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211316.D
Lims ID: std100 Client ID:
Inject. Date: 21-Aug-2013 15:39:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 8
Sample ID: STD100
Misc. Info.: 490-0023915-010
Operator: JJR HP34 Instrument ID: HP34
Purge Vol: 5.000 mL ALS Bottle#: 16
Lims Batch ID: 101606 Lims Sample ID: 10
Sublist: chrom-8260HP34*sub9
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP34\20130821-23915.b\8260HP34.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-77
Last Update: 22-Aug-2013 10:14:54 Calib Date: 21-Aug-2013 16:06:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211317.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: RT Order ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK024

First Level Reviewer: redmondj Date: 22-Aug-2013 09:44:24

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.438	4.444	-0.006	99	340832	30.0	
* 2 Chlorobenzene-d5	117	6.841	6.841	0.0	85	258796	30.0	
* 3 1,4-Dichlorobenzene-d4	152	9.007	9.007	0.0	12	137859	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.963	3.969	-0.006	56	83393	29.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.207	4.207	0.0	91	105348	28.7	
$ 6 Toluene-d8 (Surr)	98	5.624	5.624	0.0	91	339299	29.6	
$ 8 4-Bromofluorobenzene (Surr)	95	7.900	7.899	0.001	86	122239	30.1	
9 Dichlorodifluoromethane	85	1.566	1.566	0.0	88	902986	108.5	
10 Chloromethane	50	1.706	1.706	0.0	88	765101	112.1	
11 Vinyl chloride	62	1.779	1.779	0.0	79	837303	108.5	
12 Butadiene	54	1.804	1.810	-0.006	0	736874	110.9	
13 Bromomethane	96	1.992	2.004	-0.012	91	320321	134.9	
14 Chloroethane	64	2.065	2.071	-0.006	94	452217	100.0	
15 Dichlorofluoromethane	67	2.187	2.193	-0.006	82	1198829	103.0	
16 Trichlorofluoromethane	101	2.242	2.242	0.0	91	1077979	109.4	
17 Ethanol	45	2.345	2.339	0.006	97	307106	5188.5	
18 Ethyl ether	59	2.412	2.412	0.0	91	542906	105.8	
19 Acrolein	56	2.497	2.497	0.0	94	205020	265.1	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.552	2.558	-0.006	85	661180	104.1	
21 1,1-Dichloroethene	96	2.570	2.570	0.0	91	592007	108.7	
22 Acetone	58	2.595	2.595	0.0	100	275316	544.8	
23 Isopropyl alcohol	45	2.662	2.661	0.001	93	283399	1157.1	
24 Iodomethane	142	2.674	2.674	0.0	99	596684	103.7	
26 Carbon disulfide	76	2.722	2.728	-0.006	99	1703537	104.1	
28 3-Chloro-1-propene	76	2.783	2.783	0.0	88	472668	107.8	
27 Acetonitrile	41	2.777	2.783	-0.006	95	1591014	995.9	
29 Methyl acetate	43	2.789	2.789	0.0	95	2562293	486.7	
30 Methylene Chloride	84	2.856	2.856	0.0	88	687475	99.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
31 2-Methyl-2-propanol	59	2.911	2.905	0.006	64	226848	1227.6	
32 Acrylonitrile	53	3.002	3.002	0.0	99	2242750	1003.5	
33 Methyl tert-butyl ether	73	3.027	3.026	0.001	81	814437	123.6	
34 trans-1,2-Dichloroethene	61	3.027	3.033	-0.006	94	896211	108.5	
35 Hexane	57	3.191	3.191	0.0	93	1129755	111.0	
36 1,1-Dichloroethane	63	3.294	3.294	0.0	92	1209647	111.9	
37 Vinyl acetate	43	3.300	3.306	-0.006	97	2690402	209.2	
38 Isopropyl ether	45	3.319	3.318	0.001	82	1716651	108.5	
39 2-Chloro-1,3-butadiene	53	3.349	3.349	0.0	83	1020712	115.0	
40 Tert-butyl ethyl ether	59	3.550	3.550	0.0	76	678190	124.3	
43 Ethyl acetate	43	3.665	3.665	0.0	97	1917079	205.4	
41 cis-1,2-Dichloroethene	61	3.659	3.659	0.0	66	1100741	109.9	
44 2-Butanone (MEK)	72	3.665	3.665	0.0	98	385814	567.6	
42 2,2-Dichloropropane	77	3.665	3.665	0.0	66	662457	106.3	
45 Propionitrile	54	3.708	3.702	0.006	98	925882	1083.3	
46 Methacrylonitrile	41	3.805	3.805	0.0	85	3070797	933.0	
47 Chlorobromomethane	130	3.824	3.823	0.001	69	416798	113.3	
48 Chloroform	83	3.860	3.860	0.0	92	1161576	105.2	
49 Tetrahydrofuran	42	3.872	3.872	0.0	89	383563	218.9	
51 1,1,1-Trichloroethane	97	4.006	4.006	0.0	93	955367	129.1	
52 Cyclohexane	56	4.055	4.055	0.0	90	1239984	109.1	
53 1,1-Dichloropropene	75	4.109	4.109	0.0	90	876951	112.8	
54 Carbon tetrachloride	117	4.122	4.122	0.0	88	882452	120.9	
55 Isobutyl alcohol	43	4.146	4.146	0.0	92	645806	1071.7	
58 1,2-Dichloroethane	62	4.262	4.261	0.001	57	917590	100.4	
57 Benzene	78	4.262	4.261	0.001	98	2514061	100.9	
59 Tert-amyl methyl ether	73	4.322	4.322	0.0	55	491240	120.1	
60 n-Heptane	43	4.408	4.407	0.001	90	1046784	114.2	
61 n-Butanol	56	4.608	4.608	0.0	96	354292	2564.8	
62 Trichloroethene	130	4.706	4.706	0.0	96	730800	110.4	
63 Ethyl acrylate	55	4.748	4.748	0.0	0	757864	109.5	
64 Methylcyclohexane	83	4.858	4.858	0.0	91	1325054	113.5	
65 1,2-Dichloropropane	63	4.870	4.870	0.0	93	664365	111.4	
67 Methyl methacrylate	41	4.925	4.925	0.0	88	1172185	234.4	
68 Dibromomethane	93	4.955	4.961	-0.006	92	367885	104.2	
69 1,4-Dioxane	88	4.973	4.973	0.0	87	148422	2152.6	
70 Dichlorobromomethane	83	5.058	5.058	0.0	92	867462	124.0	
71 2-Nitropropane	43	5.229	5.229	0.0	96	416449	209.3	
72 2-Chloroethyl vinyl ether	63	5.271	5.271	0.0	80	392724	110.9	
73 cis-1,3-Dichloropropene	75	5.399	5.399	0.0	92	961012	112.9	
74 4-Methyl-2-pentanone (MIBK)	58	5.521	5.521	0.0	92	1204386	605.1	
75 Toluene	91	5.679	5.679	0.0	96	2614013	99.8	
76 trans-1,3-Dichloropropene	75	5.837	5.837	0.0	91	732320	108.0	
77 Ethyl methacrylate	69	5.898	5.898	0.0	90	833210	112.2	
78 1,1,2-Trichloroethane	97	5.995	5.995	0.0	1	600991	107.0	
79 Tetrachloroethene	166	6.135	6.135	0.0	96	897441	114.6	
80 1,3-Dichloropropane	76	6.135	6.141	-0.006	93	997251	103.5	
81 2-Hexanone	58	6.196	6.196	0.0	93	1109899	559.9	
82 n-Butyl acetate	43	6.293	6.293	0.0	98	484546	107.5	
83 Chlorodibromomethane	127	6.336	6.336	0.0	90	478560	111.0	
84 Ethylene Dibromide	107	6.446	6.445	0.001	99	594519	114.2	
86 Chlorobenzene	112	6.865	6.865	0.0	91	1806940	104.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
87 1,1,1,2-Tetrachloroethane	131	6.932	6.932	0.0	89	626513	118.6	
88 Ethylbenzene	91	6.957	6.956	0.001	97	2771221	101.5	
89 m-Xylene & p-Xylene	91	7.054	7.054	0.0	96	2321493	107.7	
90 o-Xylene	91	7.419	7.419	0.0	92	2364572	105.6	
91 Styrene	104	7.431	7.431	0.0	91	1936679	116.8	
92 Bromoform	173	7.607	7.607	0.0	97	354473	105.9	
93 Isopropylbenzene	105	7.753	7.753	0.0	97	2911245	106.8	
94 Cyclohexanone	55	7.857	7.857	0.0	94	196197	1022.2	
95 1,1,2,2-Tetrachloroethane	83	8.021	8.021	0.0	96	716232	110.7	
96 Bromobenzene	77	8.052	8.051	0.001	91	1380409	103.8	
97 1,2,3-Trichloropropane	110	8.070	8.070	0.0	72	240962	114.7	
98 trans-1,4-Dichloro-2-butene	53	8.076	8.076	0.0	68	211019	109.0	
99 N-Propylbenzene	91	8.143	8.143	0.0	93	3274675	101.3	
100 2-Chlorotoluene	91	8.228	8.228	0.0	96	2105654	105.2	
101 1,3,5-Trimethylbenzene	105	8.307	8.307	0.0	95	2459424	111.3	
102 4-Chlorotoluene	91	8.331	8.331	0.0	97	2423026	103.5	
103 tert-Butylbenzene	119	8.623	8.623	0.0	92	2468625	111.5	
104 Pentachloroethane	167	8.642	8.642	0.0	79	367885	115.4	
105 1,2,4-Trimethylbenzene	105	8.666	8.666	0.0	21	2431619	112.2	
106 sec-Butylbenzene	105	8.830	8.830	0.0	95	3108820	109.4	
107 1,3-Dichlorobenzene	146	8.946	8.946	0.0	96	1499170	107.0	
108 4-Isopropyltoluene	119	8.970	8.970	0.0	85	2656898	116.8	
109 1,4-Dichlorobenzene	146	9.031	9.031	0.0	90	1460147	104.2	
110 1,2,3-Trimethylbenzene	105	9.080	9.080	0.0	0	2457610	112.2	
111 Benzyl chloride	91	9.159	9.159	0.0	98	707616	100.9	
112 n-Butylbenzene	91	9.372	9.372	0.0	91	2435417	114.4	
113 1,2-Dichlorobenzene	146	9.396	9.396	0.0	94	1401205	108.4	
114 1,2-Dibromo-3-Chloropropane	157	10.236	10.242	-0.006	79	109627	98.5	
115 1,3,5-Trichlorobenzene	180	10.503	10.503	0.0	96	965959	114.1	
116 1,2,4-Trichlorobenzene	180	11.197	11.197	0.0	93	804243	118.0	
117 Hexachlorobutadiene	225	11.379	11.385	-0.006	98	383533	110.4	
118 Naphthalene	128	11.458	11.458	0.0	98	1855410	125.3	
119 1,2,3-Trichlorobenzene	180	11.702	11.702	0.0	93	692132	118.6	
120 2-Methylnaphthalene	142	12.541	12.547	-0.006	89	796801	104.0	
121 1-Methylnaphthalene	142	12.724	12.730	-0.006	91	145986	18.9	
S 132 Xylenes, Total	1				0		213.4	
S 133 1,2-Dichloroethene, Total	1				0		218.3	

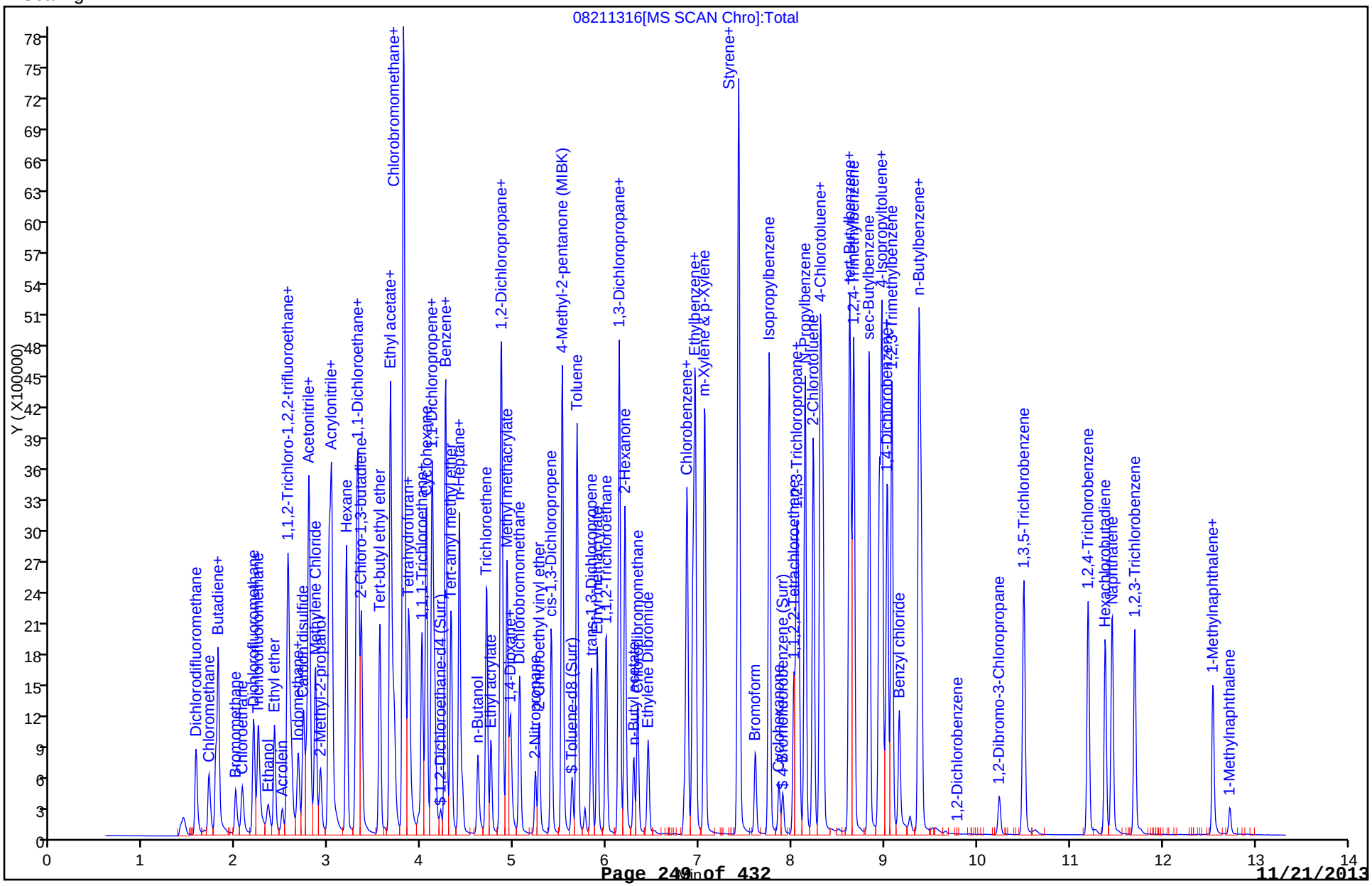
Report Date: 22-Aug-2013 10:14:54 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211316.D

Injection Date:	21-Aug-2013 15:39:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP34
Lims Batch ID:	101606	Lims Sample ID:	10
Operator ID:	JJR HP34	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211317.D
Lims ID: std200 Client ID:
Inject. Date: 21-Aug-2013 16:06:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 9
Sample ID: STD200
Misc. Info.: 490-0023915-011
Operator: JJR HP34 Instrument ID: HP34
Purge Vol: 5.000 mL ALS Bottle#: 17
Lims Batch ID: 101606 Lims Sample ID: 11
Sublist: chrom-8260HP34*sub9
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP34\20130821-23915.b\8260HP34.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-77
Last Update: 22-Aug-2013 10:14:55 Calib Date: 21-Aug-2013 16:06:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211317.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK024

First Level Reviewer: redmondj Date: 22-Aug-2013 09:47:44

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.438	4.444	-0.006	63	350473	30.0	
* 2 Chlorobenzene-d5	117	6.841	6.841	0.0	83	273754	30.0	
* 3 1,4-Dichlorobenzene-d4	152	9.007	9.007	0.0	1	145547	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.969	3.969	0.0	56	85851	29.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.207	4.207	0.0	98	103910	27.6	
$ 6 Toluene-d8 (Surr)	98	5.624	5.624	0.0	92	353957	29.2	
$ 8 4-Bromofluorobenzene (Surr)	95	7.899	7.899	0.0	81	130162	30.4	
9 Dichlorodifluoromethane	85	1.560	1.566	-0.006	99	1528032	178.5	
10 Chloromethane	50	1.700	1.706	-0.006	87	1514860	215.8	
11 Vinyl chloride	62	1.779	1.779	0.0	93	1466304	184.7	
12 Butadiene	54	1.804	1.810	-0.006	0	1353724	198.1	
13 Bromomethane	96	1.980	2.004	-0.024	90	448126	183.6	
14 Chloroethane	64	2.053	2.071	-0.018	98	764627	164.4	
15 Dichlorofluoromethane	67	2.181	2.193	-0.012	82	2061548	172.3	
16 Trichlorofluoromethane	101	2.229	2.242	-0.013	81	1925043	190.0	
17 Ethanol	45	2.351	2.339	0.012	99	575728	9459.3	
18 Ethyl ether	59	2.412	2.412	0.0	88	1021663	194.3	
19 Acrolein	56	2.497	2.497	0.0	93	403366	506.6	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.546	2.558	-0.012	94	1148689	176.0	
21 1,1-Dichloroethene	96	2.564	2.570	-0.006	90	1069174	190.9	
22 Acetone	58	2.594	2.595	-0.001	100	541448	1045.0	
23 Isopropyl alcohol	45	2.667	2.661	0.006	78	584522	2321.0	
24 Iodomethane	142	2.667	2.674	-0.007	99	975089	163.3	
26 Carbon disulfide	76	2.722	2.728	-0.006	99	2823658	167.8	
28 3-Chloro-1-propene	76	2.777	2.783	-0.006	87	899079	199.2	
27 Acetonitrile	41	2.777	2.783	-0.006	94	2817349	1715.0	
29 Methyl acetate	43	2.783	2.789	-0.006	93	4159881	768.5	
30 Methylene Chloride	84	2.850	2.856	-0.006	86	1240409	174.2	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
31 2-Methyl-2-propanol	59	2.911	2.905	0.006	72	482935	2541.6	
32 Acrylonitrile	53	3.002	3.002	0.0	96	3706740	1612.9	
33 Methyl tert-butyl ether	73	3.026	3.026	0.0	78	1563627	230.8	
34 trans-1,2-Dichloroethene	61	3.026	3.033	-0.007	90	1582404	186.2	
35 Hexane	57	3.185	3.191	-0.006	94	1937125	185.3	
36 1,1-Dichloroethane	63	3.294	3.294	0.0	79	2086337	187.7	
37 Vinyl acetate	43	3.300	3.306	-0.006	98	4239717	320.7	
38 Isopropyl ether	45	3.318	3.318	0.0	80	2820106	173.3	
39 2-Chloro-1,3-butadiene	53	3.349	3.349	0.0	83	1758259	192.7	
40 Tert-butyl ethyl ether	59	3.550	3.550	0.0	78	1323628	235.9	
41 cis-1,2-Dichloroethene	61	3.659	3.659	0.0	80	1921649	186.6	
43 Ethyl acetate	43	3.665	3.665	0.0	97	3259084	339.6	
44 2-Butanone (MEK)	72	3.665	3.665	0.0	97	705311	1009.2	
42 2,2-Dichloropropane	77	3.665	3.665	0.0	76	1294054	199.6	
45 Propionitrile	54	3.708	3.702	0.006	97	1680682	1912.3	
46 Methacrylonitrile	41	3.805	3.805	0.0	78	4611836	1362.6	
47 Chlorobromomethane	130	3.823	3.823	0.0	61	740132	195.7	
48 Chloroform	83	3.860	3.860	0.0	83	2024357	178.2	
49 Tetrahydrofuran	42	3.872	3.872	0.0	90	707332	392.5	
51 1,1,1-Trichloroethane	97	4.006	4.006	0.0	90	1714341	225.3	
52 Cyclohexane	56	4.048	4.055	-0.007	91	2119002	181.4	
53 1,1-Dichloropropene	75	4.109	4.109	0.0	89	1531392	191.5	
54 Carbon tetrachloride	117	4.121	4.122	-0.001	87	1580426	210.6	
55 Isobutyl alcohol	43	4.146	4.146	0.0	91	1245410	2006.5	
58 1,2-Dichloroethane	62	4.261	4.261	0.0	94	1586512	168.8	
57 Benzene	78	4.255	4.261	-0.006	98	4005979	156.4	
59 Tert-amyl methyl ether	73	4.322	4.322	0.0	60	986946	234.7	
60 n-Heptane	43	4.407	4.407	0.0	87	1786068	189.5	
61 n-Butanol	56	4.614	4.608	0.006	95	725579	5028.4	
62 Trichloroethene	130	4.699	4.706	-0.007	95	1297128	190.6	
63 Ethyl acrylate	55	4.748	4.748	0.0	0	1413542	198.3	
64 Methylcyclohexane	83	4.858	4.858	0.0	91	2256843	188.0	
65 1,2-Dichloropropane	63	4.870	4.870	0.0	92	1154866	188.3	
67 Methyl methacrylate	41	4.924	4.925	-0.001	86	2049968	398.7	
68 Dibromomethane	93	4.961	4.961	0.0	90	655186	180.5	
69 1,4-Dioxane	88	4.979	4.973	0.006	87	283669	3987.7	
70 Dichlorobromomethane	83	5.058	5.058	0.0	96	1560842	216.9	
71 2-Nitropropane	43	5.229	5.229	0.0	96	834050	400.0	
72 2-Chloroethyl vinyl ether	63	5.271	5.271	0.0	79	750802	200.1	
73 cis-1,3-Dichloropropene	75	5.399	5.399	0.0	88	1763178	194.9	
74 4-Methyl-2-pentanone (MIBK)	58	5.521	5.521	0.0	85	2122916	1008.3	
75 Toluene	91	5.679	5.679	0.0	92	4165335	150.3	
76 trans-1,3-Dichloropropene	75	5.837	5.837	0.0	95	1444220	198.6	
77 Ethyl methacrylate	69	5.898	5.898	0.0	90	1526481	194.0	
78 1,1,2-Trichloroethane	97	5.995	5.995	0.0	1	1079790	181.8	
79 Tetrachloroethene	166	6.135	6.135	0.0	94	1641159	198.2	
80 1,3-Dichloropropane	76	6.141	6.141	0.0	93	1725606	169.3	
81 2-Hexanone	58	6.196	6.196	0.0	89	2016209	960.1	
82 n-Butyl acetate	43	6.293	6.293	0.0	97	948473	204.1	
83 Chlorodibromomethane	127	6.336	6.336	0.0	90	906211	198.4	
84 Ethylene Dibromide	107	6.445	6.445	0.0	100	1093852	198.6	
86 Chlorobenzene	112	6.865	6.865	0.0	87	3021431	165.8	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
87 1,1,1,2-Tetrachloroethane	131	6.932	6.932	0.0	90	1153868	206.3	
88 Ethylbenzene	91	6.956	6.956	0.0	93	4354611	150.8	
89 m-Xylene & p-Xylene	91	7.060	7.054	0.006	91	3762617	165.0	
90 o-Xylene	91	7.419	7.419	0.0	84	3810831	161.0	
91 Styrene	104	7.431	7.431	0.0	90	3227322	184.0	
92 Bromoform	173	7.607	7.607	0.0	95	716037	199.6	
93 Isopropylbenzene	105	7.753	7.753	0.0	95	4566295	158.3	
94 Cyclohexanone	55	7.857	7.857	0.0	94	406283	2017.8	
95 1,1,2,2-Tetrachloroethane	83	8.021	8.021	0.0	88	1292147	189.2	
96 Bromobenzene	77	8.051	8.051	0.0	92	2470931	176.1	
97 1,2,3-Trichloropropane	110	8.070	8.070	0.0	71	451310	203.4	
98 trans-1,4-Dichloro-2-butene	53	8.082	8.076	0.006	75	412395	201.2	
99 N-Propylbenzene	91	8.143	8.143	0.0	89	4976246	145.8	
100 2-Chlorotoluene	91	8.234	8.228	0.006	94	3497170	165.4	
101 1,3,5-Trimethylbenzene	105	8.307	8.307	0.0	94	3922020	168.1	
102 4-Chlorotoluene	91	8.331	8.331	0.0	94	4020928	162.6	
103 tert-Butylbenzene	119	8.623	8.623	0.0	90	3952372	169.2	
104 Pentachloroethane	167	8.642	8.642	0.0	71	638170	189.4	
105 1,2,4-Trimethylbenzene	105	8.666	8.666	0.0	22	3916289	171.2	
106 sec-Butylbenzene	105	8.836	8.830	0.006	94	4847884	161.5	
107 1,3-Dichlorobenzene	146	8.946	8.946	0.0	93	2532161	171.2	
108 4-Isopropyltoluene	119	8.976	8.970	0.006	86	4219862	175.7	
109 1,4-Dichlorobenzene	146	9.031	9.031	0.0	83	2544975	172.0	
110 1,2,3-Trimethylbenzene	105	9.080	9.080	0.0	0	3953321	171.0	
111 Benzyl chloride	91	9.159	9.159	0.0	99	1545698	203.4	
112 n-Butylbenzene	91	9.372	9.372	0.0	88	3890780	173.2	
113 1,2-Dichlorobenzene	146	9.396	9.396	0.0	92	2392106	175.3	
114 1,2-Dibromo-3-Chloropropane	157	10.242	10.242	0.0	84	248885	203.8	
115 1,3,5-Trichlorobenzene	180	10.503	10.503	0.0	92	1784477	199.7	
116 1,2,4-Trichlorobenzene	180	11.197	11.197	0.0	94	1498435	208.3	
117 Hexachlorobutadiene	225	11.385	11.385	0.0	98	736454	200.8	
118 Naphthalene	128	11.458	11.458	0.0	98	3357951	214.7	
119 1,2,3-Trichlorobenzene	180	11.702	11.702	0.0	91	1294527	210.1	
120 2-Methylnaphthalene	142	12.547	12.547	0.0	89	1655075	201.1	
121 1-Methylnaphthalene	142	12.730	12.730	0.0	93	350603	41.3	
S 132 Xylenes, Total	1				0		326.0	
S 133 1,2-Dichloroethene, Total	1				0		372.8	

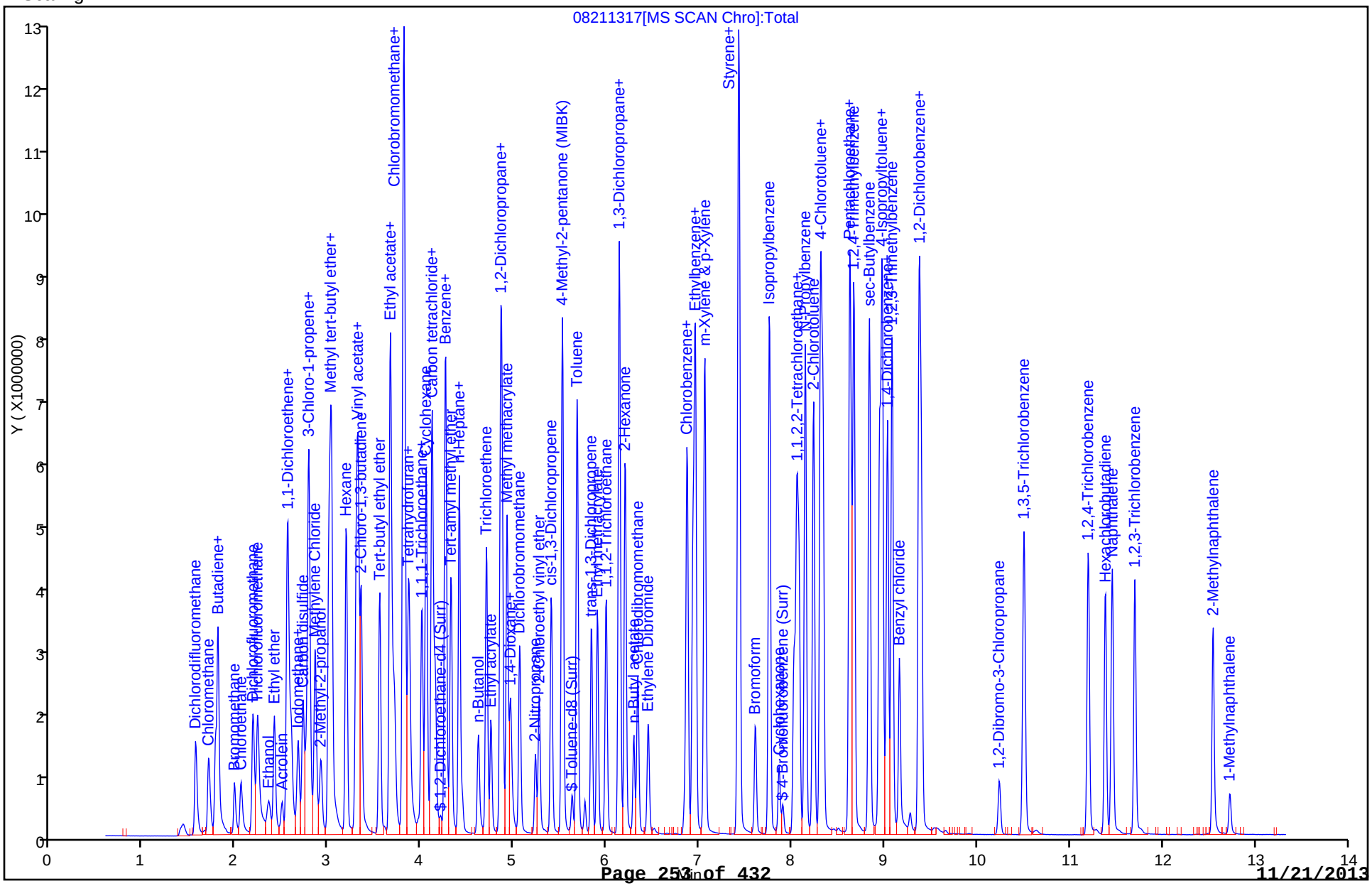
Report Date: 22-Aug-2013 10:14:55 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211317.D

Injection Date:	21-Aug-2013 16:06:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP34
Lims Batch ID:	101606	Lims Sample ID:	11
Operator ID:	JJR HP34	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Lab Sample ID: ICV 490-101606/9 Calibration Date: 08/21/2013 15:12

Instrument ID: HP34 Calib Start Date: 08/21/2013 12:03

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/21/2013 16:06

Lab File ID: 08211315.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.7327	0.7475		51.0	50.0	2.0	30.0
Chloromethane	Ave	0.6008	0.5367	0.1000	44.7	50.0	-10.7	30.0
Vinyl chloride	Ave	0.6794	0.6654		49.0	50.0	-2.1	30.0
Butadiene	Ave	0.5850	0.5893		50.4	50.0	0.7	30.0
Bromomethane	Ave	0.2090	0.2227		53.3	50.0	6.5	30.0
Chloroethane	Ave	0.3982	0.3672		46.1	50.0	-7.8	30.0
Dichlorofluoromethane	Ave	1.024	0.9750		47.6	50.0	-4.8	30.0
Trichlorofluoromethane	Ave	0.8672	0.8437		48.7	50.0	-2.7	30.0
Ethanol	Ave	0.0052	0.0046		2224	2500	-11.0	30.0
Diethyl ether	Lin2		0.4301		47.2	50.0	-5.5	30.0
Acrolein	Lin1		0.0601		111	125	-11.3	30.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.5588	0.4989		44.6	50.0	-10.7	30.0
1,1-Dichloroethene	Ave	0.4794	0.4468		46.6	50.0	-6.8	30.0
Acetone	Lin2		0.0440		246	250	-1.8	30.0
Isopropyl alcohol	Ave	0.0216	0.0214		497	500	-0.5	30.0
Iodomethane	Lin		0.4592		46.7	50.0	-6.6	30.0
Carbon disulfide	Ave	1.440	1.345		46.7	50.0	-6.7	30.0
3-Chloro-1-propene	Lin1		0.3373		43.9	50.0	-12.2	30.0
Acetonitrile	Ave	0.1406	0.1244		442	500	-11.6	30.0
Methyl acetate	Ave	0.4634	0.3638		196	250	-21.5	30.0
Methylene Chloride	Ave	0.6095	0.5433		44.6	50.0	-10.9	30.0
tert-Butyl alcohol (TBA)	Ave	0.0163	0.0176		540	500	7.9	30.0
Acrylonitrile	Ave	0.1967	0.1860		473	500	-5.5	30.0
Methyl tert-butyl ether	Ave	0.5799	0.5831		50.3	50.0	0.6	30.0
trans-1,2-Dichloroethene	Ave	0.7273	0.7055		48.5	50.0	-3.0	30.0
Hexane	Lin2		0.9035		50.2	50.0	0.4	30.0
1,1-Dichloroethane	Ave	0.9513	0.9402	0.1000	49.4	50.0	-1.2	30.0
Vinyl acetate	Ave	1.132	1.096		96.9	100	-3.1	30.0
Diisopropyl ether	Ave	1.393	1.411		50.7	50.0	1.3	30.0
Chloroprene	Ave	0.7810	0.7825		50.1	50.0	0.2	30.0
Ethyl tert-butyl ether	Ave	0.4803	0.4836		50.3	50.0	0.7	30.0
cis-1,2-Dichloroethene	Ave	0.8817	0.9202		52.2	50.0	4.4	30.0
2-Butanone (MEK)	Ave	0.0598	0.0593		248	250	-1.0	30.0
Ethyl acetate	Ave	0.8214	0.5787		70.5	100	-29.5	30.0
2,2-Dichloropropane	Lin		0.4308		40.9	50.0	-18.1	30.0
Propionitrile	Ave	0.0752	0.0754		501	500	0.3	30.0
Methacrylonitrile	Ave	0.2897	0.2804		484	500	-3.2	30.0
Bromochloromethane	Ave	0.3237	0.3038		46.9	50.0	-6.2	30.0
Chloroform	Ave	0.9721	0.8960		46.1	50.0	-7.8	30.0
Tetrahydrofuran	Ave	0.1543	0.1520		98.5	100	-1.5	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Lab Sample ID: ICV 490-101606/9 Calibration Date: 08/21/2013 15:12

Instrument ID: HP34 Calib Start Date: 08/21/2013 12:03

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/21/2013 16:06

Lab File ID: 08211315.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Ave	0.6514	0.6822		52.4	50.0	4.7	30.0
Cyclohexane	Ave	1.000	0.9586		47.9	50.0	-4.1	30.0
1,1-Dichloropropene	Ave	0.6844	0.7190		52.5	50.0	5.0	30.0
Carbon tetrachloride	Ave	0.6423	0.6747		52.5	50.0	5.1	30.0
Isobutanol	Lin1		0.0509		482	500	-3.7	30.0
1,2-Dichloroethane	Ave	0.8045	0.7277		45.2	50.0	-9.5	30.0
Benzene	Ave	2.192	2.083		47.5	50.0	-5.0	30.0
Tert-amyl methyl ether	Ave	0.3600	0.3519		48.9	50.0	-2.3	30.0
Heptane	Ave	0.8068	0.8142		50.5	50.0	0.9	30.0
n-Butanol	Lin		0.0098		1060	1250	-15.2	30.0
Trichloroethene	Ave	0.5827	0.5737		49.2	50.0	-1.5	30.0
Ethyl acrylate	Lin1		0.5858		48.3	50.0	-3.4	
Methylcyclohexane	Ave	1.028	1.001		48.7	50.0	-2.6	30.0
1,2-Dichloropropane	Ave	0.5251	0.5077		48.4	50.0	-3.3	30.0
Methyl methacrylate	Ave	0.4401	0.4708		107	100	7.0	30.0
Dibromomethane	Ave	0.3108	0.2923		47.0	50.0	-5.9	30.0
1,4-Dioxane	Lin1		0.0053		882	1000	-11.9	30.0
Bromodichloromethane	Ave	0.6159	0.6369		51.7	50.0	3.4	30.0
2-Nitropropane	Lin		0.1240		76.1	100	-23.9	30.0
2-Chloroethyl vinyl ether	Lin1		0.3718		45.6	50.0	-8.8	30.0
cis-1,3-Dichloropropene	Lin		0.8961		46.1	50.0	-7.8	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2307	0.2467		267	250	6.9	30.0
Toluene	Ave	3.038	2.900		47.7	50.0	-4.5	30.0
trans-1,3-Dichloropropene	Lin		0.6561		43.7	50.0	-12.7	30.0
Ethyl methacrylate	Lin1		0.7872		46.0	50.0	-8.1	30.0
1,1,2-Trichloroethane	Ave	0.6508	0.6008		46.2	50.0	-7.7	30.0
1,3-Dichloropropane	Ave	1.117	1.016		45.5	50.0	-9.0	30.0
Tetrachloroethene	Ave	0.9075	0.8120		44.7	50.0	-10.5	30.0
2-Hexanone	Lin1		0.2233		244	250	-2.4	30.0
n-Butyl acetate	Lin1		0.7359		92.8	50.0	85.7*	30.0
Chlorodibromomethane	Lin1		0.4379		44.1	50.0	-11.9	30.0
1,2-Dibromoethane (EDB)	Ave	0.6035	0.5835		48.3	50.0	-3.3	30.0
Chlorobenzene	Ave	1.997	1.897	0.3000	47.5	50.0	-5.0	30.0
1,1,1,2-Tetrachloroethane	Lin2		0.5876		48.1	50.0	-3.8	30.0
Ethylbenzene	Ave	3.164	3.060		48.4	50.0	-3.3	30.0
m,p-Xylene	Ave	2.499	2.473		49.5	50.0	-1.0	30.0
o-Xylene	Ave	2.594	2.560		49.3	50.0	-1.3	30.0
Styrene	Ave	1.922	1.926		50.1	50.0	0.2	30.0
Bromoform	Lin		0.2926	0.1000	39.5	50.0	-20.9	30.0
Isopropylbenzene	Ave	3.161	3.199		50.6	50.0	1.2	30.0
Cyclohexanone	Lin		0.0141		441	500	-11.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Lab Sample ID: ICV 490-101606/9 Calibration Date: 08/21/2013 15:12

Instrument ID: HP34 Calib Start Date: 08/21/2013 12:03

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/21/2013 16:06

Lab File ID: 08211315.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,2,2-Tetrachloroethane	Ave	1.408	1.368	0.3000	48.6	50.0	-2.8	30.0
Bromobenzene	Ave	2.893	2.640		45.6	50.0	-8.7	30.0
1,2,3-Trichloropropane	Ave	0.4572	0.4565		49.9	50.0	-0.2	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.3851		46.1	50.0	-7.9	30.0
N-Propylbenzene	Ave	7.036	6.937		49.3	50.0	-1.4	30.0
2-Chlorotoluene	Ave	4.357	4.280		49.1	50.0	-1.8	30.0
1,3,5-Trimethylbenzene	Ave	4.810	4.900		50.9	50.0	1.9	30.0
4-Chlorotoluene	Ave	5.097	4.890		48.0	50.0	-4.1	30.0
tert-Butylbenzene	Ave	4.816	4.925		51.1	50.0	2.3	30.0
Pentachloroethane	Lin2		0.7393		53.4	50.0	6.8	30.0
1,2,4-Trimethylbenzene	Ave	4.716	4.855		51.5	50.0	3.0	30.0
sec-Butylbenzene	Ave	6.186	6.373		51.5	50.0	3.0	30.0
1,3-Dichlorobenzene	Ave	3.049	2.887		47.4	50.0	-5.3	30.0
p-Isopropyltoluene	Ave	4.952	5.101		51.5	50.0	3.0	30.0
1,4-Dichlorobenzene	Ave	3.050	2.858		46.9	50.0	-6.3	30.0
1,2,3-Trimethylbenzene	Ave	4.765	4.997		52.4	50.0	4.9	30.0
Benzyl chloride	Lin		0.5592		37.4	50.0	-25.2	30.0
n-Butylbenzene	Ave	4.631	4.783		51.6	50.0	3.3	30.0
1,2-Dichlorobenzene	Ave	2.813	2.711		48.2	50.0	-3.6	30.0
1,2-Dibromo-3-Chloropropane	Lin		0.1704		39.6	50.0	-20.7	30.0
1,3,5-Trichlorobenzene	Ave	1.842	1.803		48.9	50.0	-2.1	30.0
1,2,4-Trichlorobenzene	Ave	1.483	1.467		49.5	50.0	-1.0	30.0
Hexachlorobutadiene	Ave	0.7561	0.7084		46.9	50.0	-6.3	30.0
Naphthalene	Ave	3.223	3.528		54.7	50.0	9.4	30.0
1,2,3-Trichlorobenzene	Ave	1.270	1.307		51.5	50.0	3.0	30.0
2-Methylnaphthalene	Lin		1.554		48.6	50.0	-2.8	30.0
1-Methylnaphthalene	Lin		1.271		6.92	8.00	-13.5	30.0
Dibromofluoromethane (Surr)	Ave	0.2518	0.2556		30.5	30.0	1.5	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3228	0.3183		29.6	30.0	-1.4	30.0
Toluene-d8 (Surr)	Ave	1.330	1.293		29.2	30.0	-2.8	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8832	0.8881		30.2	30.0	0.6	30.0

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211315.D
Lims ID: icv Client ID:
Inject. Date: 21-Aug-2013 15:12:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: ICV
Misc. Info.: 490-0023915-009
Operator: JJR HP34 Instrument ID: HP34
Purge Vol: 5.000 mL ALS Bottle#: 15
Lims Batch ID: 101606 Lims Sample ID: 9
Sublist:
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP34\20130821-23915.b\8260HP34.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-77
Last Update: 22-Aug-2013 10:14:51 Calib Date: 21-Aug-2013 16:06:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211317.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK024

First Level Reviewer: redmondj Date: 22-Aug-2013 10:02:12

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.438	4.444	-0.006	92	329250	30.0	
* 2 Chlorobenzene-d5	117	6.841	6.841	0.0	87	247807	30.0	
* 3 1,4-Dichlorobenzene-d4	152	9.007	9.007	0.0	42	131312	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.969	3.969	0.0	57	84153	30.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.207	4.207	0.0	98	104785	29.6	
$ 6 Toluene-d8 (Surr)	98	5.624	5.624	0.0	92	320450	29.2	
$ 8 4-Bromofluorobenzene (Surr)	95	7.899	7.899	0.0	83	116622	30.2	
9 Dichlorodifluoromethane	85	1.566	1.566	0.0	99	410205	51.0	
10 Chloromethane	50	1.706	1.706	0.0	88	294509	44.7	
11 Vinyl chloride	62	1.779	1.779	0.0	98	365146	49.0	
12 Butadiene	54	1.810	1.810	0.0	0	323386	50.4	
13 Bromomethane	96	2.004	2.004	0.0	92	122178	53.3	
14 Chloroethane	64	2.071	2.071	0.0	95	201475	46.1	
15 Dichlorofluoromethane	67	2.193	2.193	0.0	83	535035	47.6	
16 Trichlorofluoromethane	101	2.242	2.242	0.0	84	462973	48.6	
17 Ethanol	45	2.339	2.339	0.0	97	127162	2224.0	
18 Ethyl ether	59	2.412	2.412	0.0	93	236033	47.2	
19 Acrolein	56	2.497	2.497	0.0	96	82506	110.9	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.558	2.558	0.0	95	273792	44.6	
21 1,1-Dichloroethene	96	2.570	2.570	0.0	99	245161	46.6	
22 Acetone	58	2.594	2.595	-0.001	99	120779	245.6	
23 Isopropyl alcohol	45	2.661	2.661	0.0	92	117675	497.4	
24 Iodomethane	142	2.674	2.674	0.0	99	251980	46.7	
26 Carbon disulfide	76	2.728	2.728	0.0	99	737858	46.7	
28 3-Chloro-1-propene	76	2.783	2.783	0.0	86	185093	43.9	
27 Acetonitrile	41	2.783	2.783	0.0	96	682394	442.2	
29 Methyl acetate	43	2.789	2.789	0.0	97	998027	196.2	
30 Methylene Chloride	84	2.856	2.856	0.0	85	298106	44.6	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
31 2-Methyl-2-propanol	59	2.911	2.905	0.006	62	96322	539.6	
32 Acrylonitrile	53	3.002	3.002	0.0	99	1020448	472.6	
33 Methyl tert-butyl ether	73	3.032	3.026	0.006	71	319987	50.3	
34 trans-1,2-Dichloroethene	61	3.032	3.033	-0.001	96	387158	48.5	
35 Hexane	57	3.191	3.191	0.0	94	495799	50.2	
36 1,1-Dichloroethane	63	3.294	3.294	0.0	80	515909	49.4	
37 Vinyl acetate	43	3.306	3.306	0.0	97	1203161	96.9	
38 Isopropyl ether	45	3.318	3.318	0.0	81	774356	50.7	
39 2-Chloro-1,3-butadiene	53	3.349	3.349	0.0	85	429394	50.1	
40 Tert-butyl ethyl ether	59	3.550	3.550	0.0	73	265354	50.3	
43 Ethyl acetate	43	3.665	3.665	0.0	86	635158	70.5	
41 cis-1,2-Dichloroethene	61	3.659	3.659	0.0	79	504970	52.2	
44 2-Butanone (MEK)	72	3.665	3.665	0.0	98	162578	247.6	
42 2,2-Dichloropropane	77	3.671	3.665	0.006	67	236418	40.9	
45 Propionitrile	54	3.702	3.702	0.0	99	413861	501.3	
46 Methacrylonitrile	41	3.805	3.805	0.0	90	1538715	483.9	
47 Chlorobromomethane	130	3.823	3.823	0.0	68	166700	46.9	
48 Chloroform	83	3.860	3.860	0.0	84	491663	46.1	
49 Tetrahydrofuran	42	3.872	3.872	0.0	93	166787	98.5	
51 1,1,1-Trichloroethane	97	4.006	4.006	0.0	91	374358	52.4	
52 Cyclohexane	56	4.055	4.055	0.0	90	526007	47.9	
53 1,1-Dichloropropene	75	4.109	4.109	0.0	93	394549	52.5	
54 Carbon tetrachloride	117	4.121	4.122	-0.001	85	370264	52.5	
55 Isobutyl alcohol	43	4.146	4.146	0.0	86	279068	481.5	
58 1,2-Dichloroethane	62	4.261	4.261	0.0	53	399314	45.2	
57 Benzene	78	4.261	4.261	0.0	97	1143153	47.5	
59 Tert-amyl methyl ether	73	4.322	4.322	0.0	50	193091	48.9	
60 n-Heptane	43	4.407	4.407	0.0	91	446816	50.5	
61 n-Butanol	56	4.608	4.608	0.0	94	134905	1059.7	
62 Trichloroethene	130	4.705	4.706	-0.001	93	314834	49.2	
63 Ethyl acrylate	55	4.748	4.748	0.0	0	321445	48.3	
64 Methylcyclohexane	83	4.858	4.858	0.0	91	549388	48.7	
65 1,2-Dichloropropane	63	4.870	4.870	0.0	92	278615	48.4	
67 Methyl methacrylate	41	4.924	4.925	-0.001	90	516707	107.0	
68 Dibromomethane	93	4.955	4.961	-0.006	90	160411	47.0	
69 1,4-Dioxane	88	4.973	4.973	0.0	79	58102	881.5	
70 Dichlorobromomethane	83	5.058	5.058	0.0	93	349519	51.7	
71 2-Nitropropane	43	5.229	5.229	0.0	98	136126	76.1	
72 2-Chloroethyl vinyl ether	63	5.271	5.271	0.0	81	153562	45.6	
73 cis-1,3-Dichloropropene	75	5.399	5.399	0.0	91	370082	46.1	
74 4-Methyl-2-pentanone (MIBK)	58	5.521	5.521	0.0	95	509523	267.3	
75 Toluene	91	5.679	5.679	0.0	98	1197571	47.7	
76 trans-1,3-Dichloropropene	75	5.837	5.837	0.0	91	270955	43.7	
77 Ethyl methacrylate	69	5.898	5.898	0.0	90	325109	46.0	
78 1,1,2-Trichloroethane	97	5.989	5.995	-0.006	1	248135	46.2	
79 Tetrachloroethene	166	6.135	6.135	0.0	96	335371	44.7	
80 1,3-Dichloropropane	76	6.135	6.141	-0.006	93	419544	45.5	
81 2-Hexanone	58	6.196	6.196	0.0	95	461058	243.9	
82 n-Butyl acetate	43	6.293	6.293	0.0	98	403845	92.8	
83 Chlorodibromomethane	127	6.336	6.336	0.0	88	180860	44.1	
84 Ethylene Dibromide	107	6.445	6.445	0.0	99	240981	48.3	
86 Chlorobenzene	112	6.865	6.865	0.0	93	783303	47.5	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
87 1,1,1,2-Tetrachloroethane	131	6.932	6.932	0.0	87	242690	48.1	
88 Ethylbenzene	91	6.956	6.956	0.0	98	1263688	48.3	
89 m-Xylene & p-Xylene	91	7.054	7.054	0.0	99	1021509	49.5	
90 o-Xylene	91	7.419	7.419	0.0	94	1057487	49.3	
91 Styrene	104	7.431	7.431	0.0	92	795485	50.1	
92 Bromoform	173	7.607	7.607	0.0	96	120843	39.5	
93 Isopropylbenzene	105	7.753	7.753	0.0	96	1321082	50.6	
94 Cyclohexanone	55	7.857	7.857	0.0	92	77326	440.8	
95 1,1,2,2-Tetrachloroethane	83	8.021	8.021	0.0	88	299496	48.6	
96 Bromobenzene	77	8.051	8.051	0.0	93	577821	45.6	
97 1,2,3-Trichloropropane	110	8.070	8.070	0.0	80	99896	49.9	
98 trans-1,4-Dichloro-2-butene	53	8.076	8.076	0.0	71	84287	46.1	
99 N-Propylbenzene	91	8.143	8.143	0.0	97	1518278	49.3	
100 2-Chlorotoluene	91	8.228	8.228	0.0	96	936712	49.1	
101 1,3,5-Trimethylbenzene	105	8.307	8.307	0.0	94	1072410	50.9	
102 4-Chlorotoluene	91	8.331	8.331	0.0	97	1070148	48.0	
103 tert-Butylbenzene	119	8.617	8.623	-0.006	88	1077779	51.1	
104 Pentachloroethane	167	8.642	8.642	0.0	78	161787	53.4	
105 1,2,4-Trimethylbenzene	105	8.666	8.666	0.0	94	1062622	51.5	
106 sec-Butylbenzene	105	8.830	8.830	0.0	95	1394758	51.5	
107 1,3-Dichlorobenzene	146	8.946	8.946	0.0	97	631809	47.3	
108 4-Isopropyltoluene	119	8.970	8.970	0.0	94	1116304	51.5	
109 1,4-Dichlorobenzene	146	9.025	9.031	-0.006	92	625380	46.8	
110 1,2,3-Trimethylbenzene	105	9.073	9.080	-0.007	0	1093717	52.4	
111 Benzyl chloride	91	9.159	9.159	0.0	95	230939	37.4	
112 n-Butylbenzene	91	9.372	9.372	0.0	93	1046794	51.6	
113 1,2-Dichlorobenzene	146	9.390	9.396	-0.006	95	593216	48.2	
114 1,2-Dibromo-3-Chloropropane	157	10.235	10.242	-0.007	76	37287	39.6	
115 1,3,5-Trichlorobenzene	180	10.503	10.503	0.0	97	394492	48.9	
116 1,2,4-Trichlorobenzene	180	11.197	11.197	0.0	93	321078	49.5	
117 Hexachlorobutadiene	225	11.379	11.385	-0.006	97	155044	46.8	
118 Naphthalene	128	11.458	11.458	0.0	97	772127	54.7	
119 1,2,3-Trichlorobenzene	180	11.702	11.702	0.0	94	286109	51.5	
120 2-Methylnaphthalene	142	12.547	12.547	0.0	89	340170	48.6	
121 1-Methylnaphthalene	142	12.730	12.730	0.0	91	44501	6.92	
S 132 Xylenes, Total	1				0		98.8	
S 133 1,2-Dichloroethene, Total	1				0		100.7	

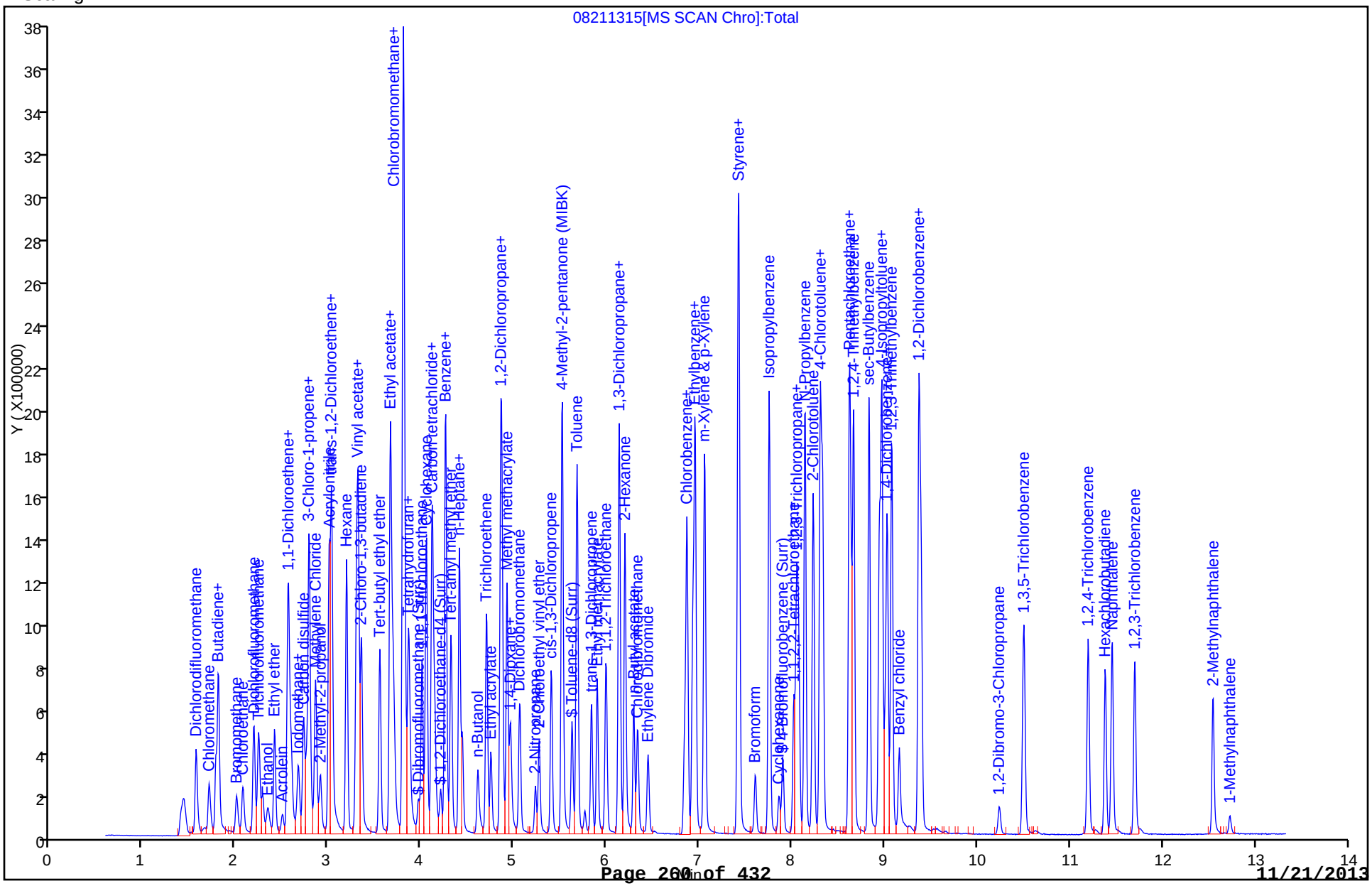
Report Date: 22-Aug-2013 10:14:53 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211315.D

Injection Date:	21-Aug-2013 15:12:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP34
Lims Batch ID:	101606	Lims Sample ID:	9
Operator ID:	JJR HP34	Purge Vol:	5.000 mL
Column Type:	DB-624	Column Dia:	0.18 mm

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Lab Sample ID: CCVIS 490-122545/2 Calibration Date: 11/16/2013 13:47

Instrument ID: HP34 Calib Start Date: 08/21/2013 12:03

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/21/2013 16:06

Lab File ID: 11161303.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.7327	0.6493		17.7	20.0	-11.4	20.0
Chloromethane	Ave	0.6008	0.5822	0.1000	19.4	20.0	-3.1	20.0
Vinyl chloride	Ave	0.6794	0.6202		18.3	20.0	-8.7	20.0
Butadiene	Ave	0.5850	0.5241		17.9	20.0	-10.4	20.0
Bromomethane	Ave	0.2090	0.2731		26.1	20.0	30.7*	20.0
Chloroethane	Ave	0.3982	0.4210		21.2	20.0	5.7	20.0
Dichlorofluoromethane	Ave	1.024	1.056		20.6	20.0	3.1	20.0
Trichlorofluoromethane	Ave	0.8672	0.9524		22.0	20.0	9.8	20.0
Ethanol	Ave	0.0052	0.0040		770	1000	-23.0	40.0
Diethyl ether	Lin2		0.4090		17.5	20.0	-12.4	20.0
Acrolein	Lin1		0.0593		44.2	50.0	-11.7	40.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.5588	0.5662		20.3	20.0	1.3	20.0
1,1-Dichloroethene	Ave	0.4794	0.4907		20.5	20.0	2.4	20.0
Acetone	Lin2		0.0380		82.7	100	-17.3	20.0
Isopropyl alcohol	Ave	0.0216	0.0187		174	200	-13.3	20.0
Iodomethane	Lin		0.5278		22.8	20.0	14.0	20.0
Carbon disulfide	Ave	1.440	1.452		20.2	20.0	0.8	20.0
3-Chloro-1-propene	Lin1		0.3937		20.7	20.0	3.2	20.0
Acetonitrile	Ave	0.1406	0.1217		173	200	-13.5	20.0
Methyl acetate	Ave	0.4634	0.3215		69.4	100	-30.6*	20.0
Methylene Chloride	Ave	0.6095	0.5695		18.7	20.0	-6.6	20.0
tert-Butyl alcohol (TBA)	Ave	0.0163	0.0204		251	200	25.4	40.0
Acrylonitrile	Ave	0.1967	0.1674		170	200	-14.9	20.0
Methyl tert-butyl ether	Ave	0.5799	0.7782		26.8	20.0	34.2*	20.0
trans-1,2-Dichloroethene	Ave	0.7273	0.6973		19.2	20.0	-4.1	20.0
Hexane	Lin2		0.8611		18.9	20.0	-5.4	20.0
1,1-Dichloroethane	Ave	0.9513	0.9261	0.1000	19.5	20.0	-2.6	20.0
Vinyl acetate	Ave	1.132	1.027		36.3	40.0	-9.3	40.0
Diisopropyl ether	Ave	1.393	1.302		18.7	20.0	-6.5	20.0
Chloroprene	Ave	0.7810	0.7761		19.9	20.0	-0.6	20.0
Ethyl tert-butyl ether	Ave	0.4803	0.7513		31.3	20.0	56.4*	20.0
2-Butanone (MEK)	Ave	0.0598	0.0538		89.9	100	-10.1	20.0
cis-1,2-Dichloroethene	Ave	0.8817	0.9238		21.0	20.0	4.8	20.0
Ethyl acetate	Ave	0.8214	0.4289		20.9	40.0	-47.8*	20.0
2,2-Dichloropropane	Lin		0.6349		25.2	20.0	26.0*	20.0
Propionitrile	Ave	0.0752	0.0648		172	200	-13.9	20.0
Methacrylonitrile	Ave	0.2897	0.2427		168	200	-16.2	20.0
Bromochloromethane	Ave	0.3237	0.3486		21.5	20.0	7.7	20.0
Chloroform	Ave	0.9721	0.9712		20.0	20.0	-0.1	20.0
Tetrahydrofuran	Ave	0.1543	0.1151		29.9	40.0	-25.4*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Lab Sample ID: CCVIS 490-122545/2 Calibration Date: 11/16/2013 13:47

Instrument ID: HP34 Calib Start Date: 08/21/2013 12:03

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/21/2013 16:06

Lab File ID: 11161303.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Ave	0.6514	0.8301		25.5	20.0	27.4*	20.0
Cyclohexane	Ave	1.000	0.9606		19.2	20.0	-3.9	20.0
1,1-Dichloropropene	Ave	0.6844	0.7269		21.2	20.0	6.2	20.0
Carbon tetrachloride	Ave	0.6423	0.7743		24.1	20.0	20.5*	20.0
Isobutanol	Lin1		0.0371		143	200	-28.3*	20.0
1,2-Dichloroethane	Ave	0.8045	0.7252		18.0	20.0	-9.9	20.0
Benzene	Ave	2.192	2.205		20.1	20.0	0.6	20.0
Tert-amyl methyl ether	Ave	0.3600	0.5998		33.3	20.0	66.6*	20.0
Heptane	Ave	0.8068	0.7864		19.5	20.0	-2.5	20.0
n-Butanol	Lin		0.0098		471	500	-5.7	20.0
Trichloroethene	Ave	0.5827	0.6500		22.3	20.0	11.5	20.0
Ethyl acrylate	Lin1		0.5030		16.8	20.0	-15.9	20.0
Methylcyclohexane	Ave	1.028	1.085		21.1	20.0	5.6	20.0
1,2-Dichloropropane	Ave	0.5251	0.5249		20.0	20.0	-0.0	20.0
Methyl methacrylate	Ave	0.4401	0.3790		34.5	40.0	-13.9	20.0
Dibromomethane	Ave	0.3108	0.3218		20.7	20.0	3.6	20.0
1,4-Dioxane	Lin1		0.0047		324	400	-19.0	20.0
Bromodichloromethane	Ave	0.6159	0.7214		23.4	20.0	17.1	20.0
2-Nitropropane	Lin		0.1067		31.4	40.0	-21.5*	20.0
2-Chloroethyl vinyl ether	Lin1		0.2928		14.7	20.0	-26.5*	20.0
cis-1,3-Dichloropropene	Lin		0.8857		18.9	20.0	-5.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2307	0.2001		86.7	100	-13.3	20.0
Toluene	Ave	3.038	2.841		18.7	20.0	-6.5	20.0
trans-1,3-Dichloropropene	Lin		0.6704		19.7	20.0	-1.4	20.0
Ethyl methacrylate	Lin1		0.6694		15.9	20.0	-20.5*	20.0
1,1,2-Trichloroethane	Ave	0.6508	0.5833		17.9	20.0	-10.4	20.0
1,3-Dichloropropane	Ave	1.117	1.000		17.9	20.0	-10.4	20.0
Tetrachloroethene	Ave	0.9075	0.8497		18.7	20.0	-6.4	20.0
2-Hexanone	Lin1		0.1777		78.9	100	-21.1*	20.0
n-Butyl acetate	Lin1		0.4731		24.3	20.0	21.6*	20.0
Chlorodibromomethane	Lin1		0.4877		19.9	20.0	-0.7	20.0
1,2-Dibromoethane (EDB)	Ave	0.6035	0.5637		18.7	20.0	-6.6	20.0
Chlorobenzene	Ave	1.997	1.888	0.3000	18.9	20.0	-5.4	20.0
1,1,1,2-Tetrachloroethane	Lin2		0.6647		21.9	20.0	9.3	20.0
Ethylbenzene	Ave	3.164	3.009		19.0	20.0	-4.9	20.0
m,p-Xylene	Ave	2.499	2.293		18.4	20.0	-8.2	20.0
o-Xylene	Ave	2.594	2.456		18.9	20.0	-5.3	20.0
Styrene	Ave	1.922	1.860		19.4	20.0	-3.2	20.0
Bromoform	Lin		0.3815	0.1000	22.0	20.0	9.9	20.0
Isopropylbenzene	Ave	3.161	3.140		19.9	20.0	-0.7	20.0
Cyclohexanone	Lin		0.0121		178	200	-11.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Lab Sample ID: CCVIS 490-122545/2 Calibration Date: 11/16/2013 13:47

Instrument ID: HP34 Calib Start Date: 08/21/2013 12:03

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/21/2013 16:06

Lab File ID: 11161303.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,2,2-Tetrachloroethane	Ave	1.408	1.168	0.3000	16.6	20.0	-17.0	20.0
Bromobenzene	Ave	2.893	2.378		16.4	20.0	-17.8	20.0
1,2,3-Trichloropropane	Ave	0.4572	0.3934		17.2	20.0	-14.0	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.2522		12.5	20.0	-37.3*	20.0
N-Propylbenzene	Ave	7.036	6.255		17.8	20.0	-11.1	20.0
2-Chlorotoluene	Ave	4.357	3.792		17.4	20.0	-13.0	20.0
1,3,5-Trimethylbenzene	Ave	4.810	4.462		18.6	20.0	-7.2	20.0
4-Chlorotoluene	Ave	5.097	4.370		17.2	20.0	-14.3	20.0
tert-Butylbenzene	Ave	4.816	4.191		17.4	20.0	-13.0	20.0
1,2,4-Trimethylbenzene	Ave	4.716	4.578		19.4	20.0	-2.9	20.0
sec-Butylbenzene	Ave	6.186	5.841		18.9	20.0	-5.6	20.0
1,3-Dichlorobenzene	Ave	3.049	2.790		18.3	20.0	-8.5	20.0
p-Isopropyltoluene	Ave	4.952	5.030		20.3	20.0	1.6	20.0
1,4-Dichlorobenzene	Ave	3.050	2.691		17.7	20.0	-11.7	20.0
1,2,3-Trimethylbenzene	Ave	4.765	4.533		19.0	20.0	-4.9	20.0
Benzyl chloride	Lin		0.7029		21.1	20.0	5.5	20.0
n-Butylbenzene	Ave	4.631	4.419		19.1	20.0	-4.6	20.0
1,2-Dichlorobenzene	Ave	2.813	2.661		18.9	20.0	-5.4	20.0
1,2-Dibromo-3-Chloropropane	Lin		0.2075		22.9	20.0	14.3	20.0
1,3,5-Trichlorobenzene	Ave	1.842	1.991		21.6	20.0	8.1	20.0
1,2,4-Trichlorobenzene	Ave	1.483	1.508		20.3	20.0	1.7	20.0
Hexachlorobutadiene	Ave	0.7561	0.9376		24.8	20.0	24.0*	20.0
Naphthalene	Ave	3.223	2.966		18.4	20.0	-8.0	20.0
1,2,3-Trichlorobenzene	Ave	1.270	1.435		22.6	20.0	13.0	20.0
Dibromofluoromethane (Surr)	Ave	0.2518	0.2584		30.8	30.0	2.6	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3228	0.2785		25.9	30.0	-13.7	30.0
Toluene-d8 (Surr)	Ave	1.330	1.192		26.9	30.0	-10.4	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8832	0.8364		28.4	30.0	-5.3	30.0

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP34\20131116-28565.b\11161303.D
Lims ID: ccvis Lab Sample ID:
Client ID:
Sample Type: CCVIS
Inject. Date: 16-Nov-2013 13:47:30 ALS Bottle#: 3 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 490-0028565-002
Operator ID: JJR HP34 Instrument ID: HP34
Sublist: chrom-8260HP34*sub12

Method: \\Nvlchrom\ChromData\HP34\20131116-28565.b\8260HP34.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-77
Last Update: 16-Nov-2013 18:24:41 Calib Date: 21-Aug-2013 16:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211317.D

Column 1 : DB-624 (0.18 mm) Detector MS SCAN
Process Host: XAWRK024

First Level Reviewer: redmondj Date: 16-Nov-2013 14:49:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.438	4.438	0.0	99	343436	30.0	
* 2 Chlorobenzene-d5	117	6.835	6.835	0.0	84	282843	30.0	
* 3 1,4-Dichlorobenzene-d4	152	9.001	9.001	0.0	70	157566	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.964	3.964	0.0	58	88735	30.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.207	4.207	0.0	90	95646	25.9	
$ 6 Toluene-d8 (Surr)	98	5.624	5.624	0.0	92	337130	26.9	
$ 8 4-Bromofluorobenzene (Surr)	95	7.900	7.900	0.0	93	131794	28.4	
9 Dichlorodifluoromethane	85	1.573	1.573	0.0	86	148651	17.7	
10 Chloromethane	50	1.713	1.713	0.0	88	133301	19.4	
11 Vinyl chloride	62	1.786	1.786	0.0	79	141987	18.3	
12 Butadiene	54	1.816	1.816	0.0	0	119984	17.9	
13 Bromomethane	96	2.017	2.017	0.0	90	62536	26.1	
14 Chloroethane	64	2.084	2.084	0.0	94	96387	21.1	
15 Dichlorofluoromethane	67	2.199	2.199	0.0	83	241741	20.6	
16 Trichlorofluoromethane	101	2.248	2.248	0.0	86	218060	22.0	
17 Ethanol	45	2.333	2.333	0.0	99	45911	769.8	
18 Ethyl ether	59	2.418	2.418	0.0	89	93649	17.5	
19 Acrolein	56	2.497	2.497	0.0	91	33937	44.2	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.564	2.564	0.0	89	129641	20.3	
21 1,1-Dichloroethene	96	2.570	2.570	0.0	90	112359	20.5	
22 Acetone	58	2.595	2.595	0.0	100	43549	82.7	
23 Isopropyl alcohol	45	2.656	2.656	0.0	88	42817	173.5	
24 Iodomethane	142	2.680	2.680	0.0	98	120843	22.8	
26 Carbon disulfide	76	2.735	2.735	0.0	98	332477	20.2	
27 Acetonitrile	41	2.783	2.783	0.0	94	278628	173.1	
29 Methyl acetate	43	2.783	2.783	0.0	96	368079	69.4	
28 3-Chloro-1-propene	76	2.783	2.783	0.0	53	90145	20.6	
30 Methylene Chloride	84	2.856	2.856	0.0	85	130399	18.7	
31 2-Methyl-2-propanol	59	2.899	2.899	0.0	76	46692	250.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
32 Acrylonitrile	53	3.002	3.002	0.0	100	383355	170.2	
33 Methyl tert-butyl ether	73	3.027	3.027	0.0	83	178177	26.8	
34 trans-1,2-Dichloroethene	61	3.033	3.033	0.0	96	159656	19.2	
35 Hexane	57	3.197	3.197	0.0	90	197150	18.9	
36 1,1-Dichloroethane	63	3.294	3.294	0.0	82	212035	19.5	
37 Vinyl acetate	43	3.300	3.300	0.0	97	470300	36.3	
38 Isopropyl ether	45	3.313	3.313	0.0	77	298182	18.7	
39 2-Chloro-1,3-butadiene	53	3.355	3.355	0.0	79	177689	19.9	
40 Tert-butyl ethyl ether	59	3.544	3.544	0.0	86	172009	31.3	
44 2-Butanone (MEK)	72	3.659	3.659	0.0	98	61598	89.9	
41 cis-1,2-Dichloroethene	61	3.659	3.659	0.0	68	211510	21.0	
43 Ethyl acetate	43	3.659	3.659	0.0	79	196392	20.9	
42 2,2-Dichloropropane	77	3.672	3.672	0.0	80	145360	25.2	
45 Propionitrile	54	3.702	3.702	0.0	98	148344	172.2	
46 Methacrylonitrile	41	3.799	3.799	0.0	89	555652	167.5	
47 Chlorobromomethane	130	3.824	3.824	0.0	81	79814	21.5	
48 Chloroform	83	3.854	3.854	0.0	69	222365	20.0	
49 Tetrahydrofuran	42	3.866	3.866	0.0	87	52715	29.9	
51 1,1,1-Trichloroethane	97	4.006	4.006	0.0	95	190046	25.5	
52 Cyclohexane	56	4.055	4.055	0.0	87	219936	19.2	
53 1,1-Dichloropropene	75	4.116	4.116	0.0	94	166437	21.2	
54 Carbon tetrachloride	117	4.122	4.122	0.0	91	177270	24.1	
55 Isobutyl alcohol	43	4.134	4.134	0.0	81	85026	143.4	
58 1,2-Dichloroethane	62	4.256	4.256	0.0	48	166036	18.0	
57 Benzene	78	4.262	4.262	0.0	95	504929	20.1	
59 Tert-amyl methyl ether	73	4.316	4.316	0.0	75	137322	33.3	
60 n-Heptane	43	4.408	4.408	0.0	89	180044	19.5	
61 n-Butanol	56	4.602	4.602	0.0	90	56158	471.3	
62 Trichloroethene	130	4.700	4.700	0.0	93	148812	22.3	
63 Ethyl acrylate	55	4.742	4.742	0.0	0	115173	16.8	
64 Methylcyclohexane	83	4.858	4.858	0.0	90	248387	21.1	
65 1,2-Dichloropropane	63	4.870	4.870	0.0	89	120170	20.0	
67 Methyl methacrylate	41	4.919	4.919	0.0	87	173549	34.4	
68 Dibromomethane	93	4.955	4.955	0.0	83	73686	20.7	
69 1,4-Dioxane	88	4.973	4.973	0.0	75	21592	323.9	
70 Dichlorobromomethane	83	5.059	5.059	0.0	93	165179	23.4	
71 2-Nitropropane	43	5.223	5.223	0.0	95	48858	31.4	
72 2-Chloroethyl vinyl ether	63	5.265	5.265	0.0	81	55209	14.7	
73 cis-1,3-Dichloropropene	75	5.399	5.399	0.0	93	167012	18.9	
74 4-Methyl-2-pentanone (MIBK)	58	5.515	5.515	0.0	94	188616	86.7	
75 Toluene	91	5.679	5.679	0.0	98	535625	18.7	
76 trans-1,3-Dichloropropene	75	5.831	5.831	0.0	91	126409	19.7	
77 Ethyl methacrylate	69	5.892	5.892	0.0	88	126225	15.9	
78 1,1,2-Trichloroethane	97	5.989	5.989	0.0	1	109980	17.9	
79 Tetrachloroethene	166	6.135	6.135	0.0	88	160222	18.7	
80 1,3-Dichloropropane	76	6.135	6.135	0.0	88	188641	17.9	
81 2-Hexanone	58	6.190	6.190	0.0	94	167488	78.9	
82 n-Butyl acetate	43	6.287	6.287	0.0	97	108327	24.3	
83 Chlorodibromomethane	127	6.330	6.330	0.0	89	91967	19.9	
84 Ethylene Dibromide	107	6.446	6.446	0.0	97	106295	18.7	
86 Chlorobenzene	112	6.865	6.865	0.0	95	356080	18.9	
87 1,1,1,2-Tetrachloroethane	131	6.926	6.926	0.0	86	125340	21.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
88 Ethylbenzene	91	6.951	6.951	0.0	97	567301	19.0	
89 m-Xylene & p-Xylene	91	7.054	7.054	0.0	100	432350	18.4	
90 o-Xylene	91	7.413	7.413	0.0	93	463075	18.9	
91 Styrene	104	7.425	7.425	0.0	93	350796	19.4	
92 Bromoform	173	7.602	7.602	0.0	98	71931	22.0	
93 Isopropylbenzene	105	7.754	7.754	0.0	95	592093	19.9	
94 Cyclohexanone	55	7.857	7.857	0.0	87	27659	177.5	
95 1,1,2,2-Tetrachloroethane	83	8.015	8.015	0.0	87	122695	16.6	
96 Bromobenzene	77	8.046	8.046	0.0	90	249788	16.4	
97 1,2,3-Trichloropropane	110	8.064	8.064	0.0	74	41326	17.2	
98 trans-1,4-Dichloro-2-butene	53	8.070	8.070	0.0	64	26487	12.5	
99 N-Propylbenzene	91	8.137	8.137	0.0	97	657028	17.8	
100 2-Chlorotoluene	91	8.228	8.228	0.0	97	398275	17.4	
101 1,3,5-Trimethylbenzene	105	8.301	8.301	0.0	93	468680	18.6	
102 4-Chlorotoluene	91	8.325	8.325	0.0	97	459033	17.1	
103 tert-Butylbenzene	119	8.617	8.617	0.0	91	440243	17.4	
105 1,2,4-Trimethylbenzene	105	8.666	8.666	0.0	96	480934	19.4	
106 sec-Butylbenzene	105	8.830	8.830	0.0	94	613607	18.9	
107 1,3-Dichlorobenzene	146	8.940	8.940	0.0	97	293054	18.3	
108 4-Isopropyltoluene	119	8.964	8.964	0.0	92	528412	20.3	
109 1,4-Dichlorobenzene	146	9.025	9.025	0.0	85	282723	17.7	
110 1,2,3-Trimethylbenzene	105	9.074	9.074	0.0	0	476151	19.0	
111 Benzyl chloride	91	9.153	9.153	0.0	96	132533	21.1	
112 n-Butylbenzene	91	9.366	9.366	0.0	96	464181	19.1	
113 1,2-Dichlorobenzene	146	9.390	9.390	0.0	97	279571	18.9	
114 1,2-Dibromo-3-Chloropropane	157	10.236	10.236	0.0	79	21797	22.9	
115 1,3,5-Trichlorobenzene	180	10.497	10.497	0.0	96	209157	21.6	
116 1,2,4-Trichlorobenzene	180	11.197	11.197	0.0	93	158400	20.3	
117 Hexachlorobutadiene	225	11.379	11.379	0.0	94	98484	24.8	
118 Naphthalene	128	11.452	11.452	0.0	96	311558	18.4	
119 1,2,3-Trichlorobenzene	180	11.702	11.702	0.0	94	150729	22.6	
S 132 Xylenes, Total	1				0		37.3	
S 133 1,2-Dichloroethene, Total	1				0		40.1	

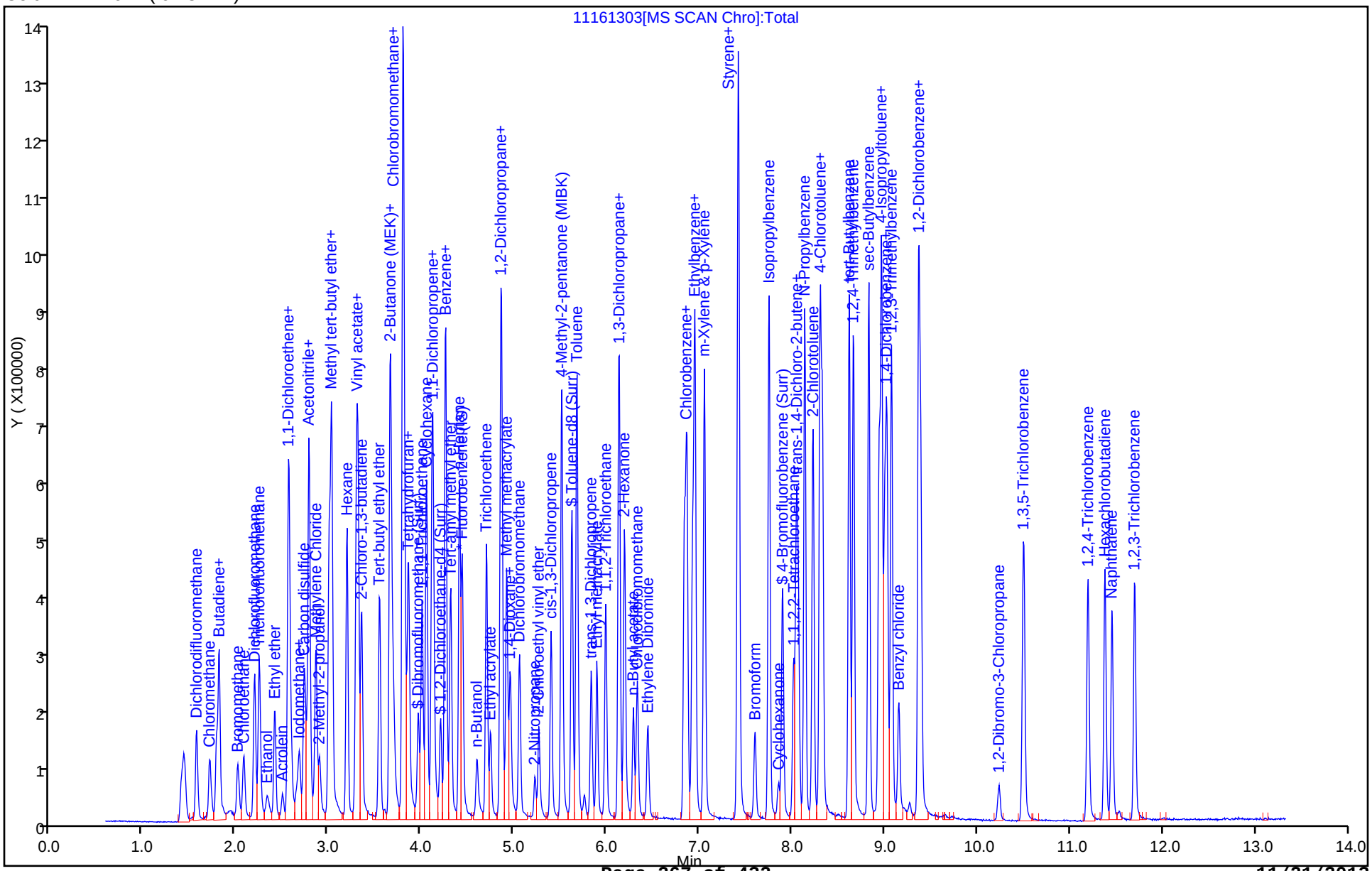
Report Date: 16-Nov-2013 18:24:42 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP34\20131116-28565.b\11161303.D

Injection Date:	16-Nov-2013 13:47:30	Instrument ID:	HP34	Operator ID:	JJR HP34
Lims ID:	ccvis	Lab Sample ID:		Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260HP34	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211306.D
Lims ID: bfb Client ID:
Inject. Date: 21-Aug-2013 11:04:30 Dil. Factor: 1.0000
Sample Type: BFB
Sample ID: BFB
Misc. Info.: 490-0023915-001
Operator: JJR HP34 Instrument ID: HP34
Purge Vol: 5.000 mL ALS Bottle#: 6
Lims Batch ID: 101606 Lims Sample ID: 1
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP34\20130821-23915.b\8260HP34.m
Method Label: 8260B Volatile Organics 8260/SA/NV05-77
Last Update: 22-Aug-2013 10:14:43 Calib Date: 21-Aug-2013 16:06:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211317.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 Column Dia: 0.18 mm
Process Host: XAWRK024

First Level Reviewer: redmondj Date: 21-Aug-2013 12:05:26

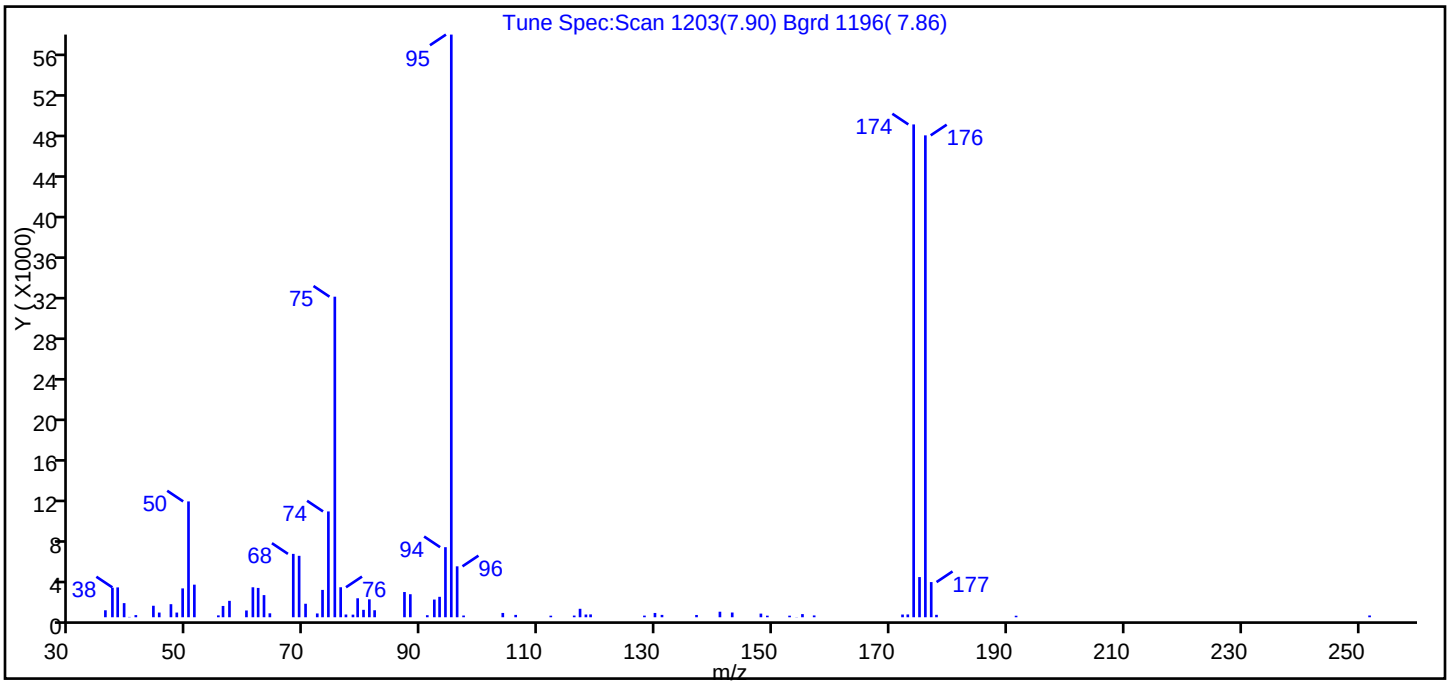
	Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
*	1 Fluorobenzene (IS)	96	4.444	4.444	0.0	99	327905	30.0	
*	2 Chlorobenzene-d5	117	6.841	6.841	0.0	87	232620	30.0	
*	3 1,4-Dichlorobenzene-d4	152	9.007	9.007	0.0	95	114330	30.0	
$	4 Dibromofluoromethane (Surr)	111	3.970	3.970	0.0	69	81334	29.6	
$	5 1,2-Dichloroethane-d4 (Surr)	65	4.213	4.213	0.0	91	109511	31.0	
$	6 Toluene-d8 (Surr)	98	5.624	5.624	0.0	93	305625	29.6	
$	8 4-Bromofluorobenzene (Surr)	95	7.900	7.900	0.0	90	99852	29.7	
$	7 BFB	95	7.900	7.900	0.0	0	99852	0	

MS Tune Report

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211306.D
Injection Date: 21-Aug-2013 11:04:30 Limit Group: MSV 8260B ICAL
Client ID: Instrument ID: HP34
Lims Batch ID: 101606 Lims Sample ID: 1
Operator ID: JJR HP34 Purge Vol: 5.000 mL
Column Type: DB-624 Column Dia: 0.18 mm
Tune Method: BFB Method 8260

$ 7 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.88
75	30.00 - 60.00% of mass 95	55.02
96	5.00 - 9.00% of mass 95	8.74
173	Less than 2.00% of mass 174	0.48 (0.57)
174	Greater than 50.00% of mass 95	84.58
175	5.00 - 9.00% of mass 174	6.90 (8.15)
176	95.00 - 101.00% of mass 174	82.71 (97.78)
177	5.00 - 9.00% of mass 176	6.04 (7.30)

Data File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211306.D\8260HP34.rslt\spectra.d
Injection Date: 21-Aug-2013 11:04:30
Spectrum: Tune Spec:Scan 1203(7.90) Bgrd 1196(7.86)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 72

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	694	62.00	2918	88.00	2292	136.90	227
37.10	2940	63.00	2203	90.90	204	140.90	551
38.00	2970	64.00	393	92.10	1762	143.00	472
39.10	1405	68.00	6305	93.00	2033	147.90	364
40.00	33	69.00	6111	94.00	6970	149.00	158
41.10	214	70.10	1344	95.00	57960	152.80	157
44.10	1144	72.10	378	96.00	5066	154.00	17
45.10	467	73.00	2721	97.10	172	155.00	315
47.10	1301	74.00	10526	103.80	429	157.00	181
48.10	467	75.10	31888	106.00	235	172.10	271
49.10	2871	76.10	2984	112.00	157	173.00	280
50.10	11523	77.00	273	116.00	169	174.00	49024
51.10	3243	78.20	260	117.00	842	175.00	3997
55.20	186	79.00	1889	118.00	271	176.00	47936
56.00	1125	80.00	740	118.80	283	177.00	3499
57.10	1633	81.00	1782	128.00	164	177.90	242
60.00	674	81.90	698	129.80	428	191.50	152
61.10	2981	87.00	2510	131.00	235	251.90	177

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP34\20131116-28565.b\11161302.D
Lims ID: bfb Lab Sample ID:
Client ID:
Sample Type: BFB
Inject. Date: 16-Nov-2013 13:21:30 ALS Bottle#: 2 Worklist Smp#: 1
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 490-0028565-001
Operator ID: JJR HP34 Instrument ID: HP34

Method: \\Nvlchrom\ChromData\HP34\20131116-28565.b\8260HP34.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-77
Last Update: 16-Nov-2013 14:59:12 Calib Date: 21-Aug-2013 16:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211317.D

Column 1 : DB-624 (0.18 mm) Detector MS SCAN
Process Host: XAWRK024

First Level Reviewer: redmondj Date: 16-Nov-2013 14:59:12

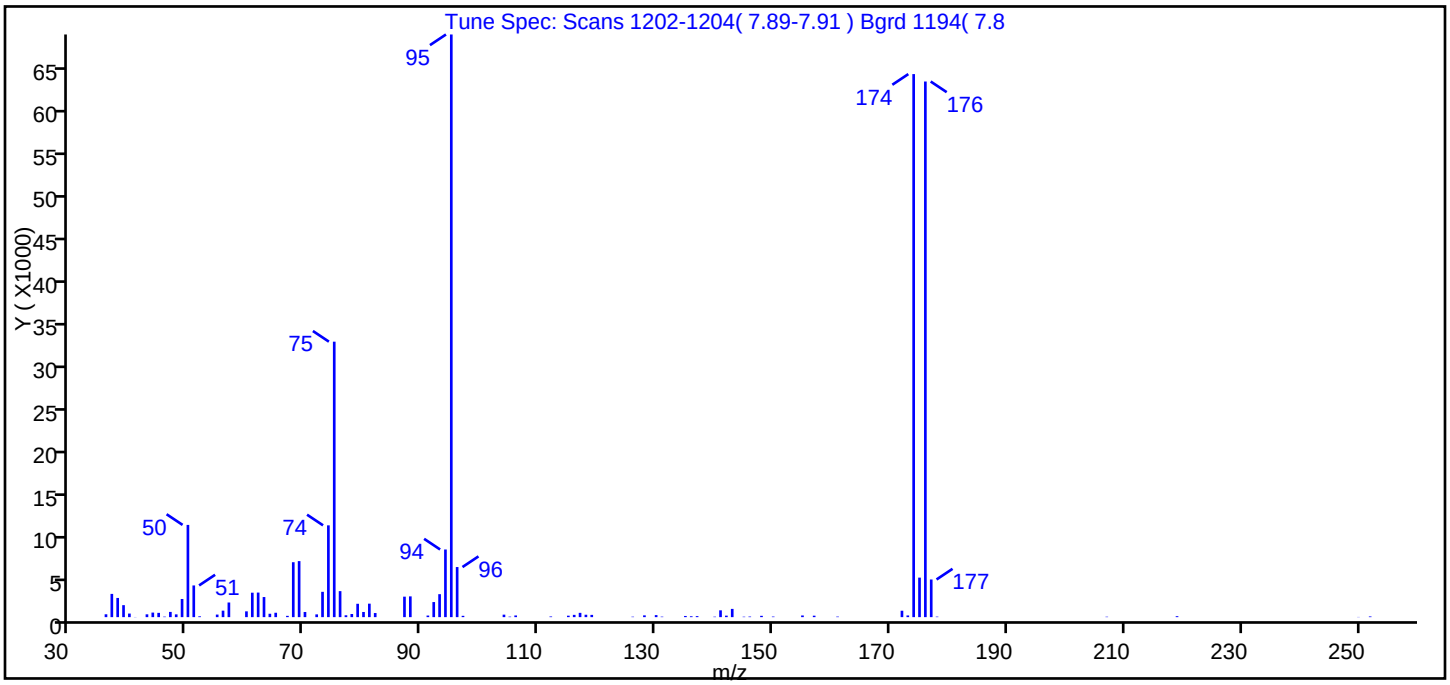
	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
*	1 Fluorobenzene (IS)	96	4.438	4.438	0.0	99	385807	30.0	
*	2 Chlorobenzene-d5	117	6.841	6.841	0.0	85	294876	30.0	
*	3 1,4-Dichlorobenzene-d4	152	9.001	9.001	0.0	94	134861	30.0	
$	4 Dibromofluoromethane (Surr)	111	3.963	3.963	0.0	71	100673	31.1	
$	5 1,2-Dichloroethane-d4 (Surr)	65	4.207	4.207	0.0	91	111489	26.9	
$	6 Toluene-d8 (Surr)	98	5.624	5.624	0.0	92	362583	27.7	
$	8 4-Bromofluorobenzene (Surr)	95	7.899	7.899	0.0	94	131573	33.1	
$	7 BFB	95	7.899	7.899	0.0	0	131573	0	

MS Tune Report

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP34\20131116-28565.b\11161302.D
Injection Date: 16-Nov-2013 13:21:30 Instrument ID: HP34
Lims ID: bfb Lab Sample ID:
Client ID:
Operator ID: JJR HP34 ALS Bottle#: 2 Worklist Smp#: 1
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260HP34 Limit Group: MSV 8260B ICAL
Tune Method: BFB Method 8260

$ 7 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.80
75	30.00 - 60.00% of mass 95	47.30
96	5.00 - 9.00% of mass 95	8.60
173	Less than 2.00% of mass 174	0.30 (0.30)
174	Greater than 50.00% of mass 95	93.20
175	5.00 - 9.00% of mass 174	6.80 (7.30)
176	95.00 - 101.00% of mass 174	91.90 (98.60)
177	5.00 - 9.00% of mass 176	6.50 (7.00)

Data File: \\Nvlchrom\ChromData\HP34\20131116-28565.b\11161302.D\8260HP34.rslt\spectra.d
Injection Date: 16-Nov-2013 13:21:30
Spectrum: Tune Spec: Scans 1202-1204(7.89-7.91) Bgrd 1194(7.8
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 87

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	337	63.00	2363	93.00	2700	141.00	801
37.00	2732	64.00	398	94.00	7952	142.00	177
38.00	2256	65.00	516	95.00	68480	143.00	969
39.00	1409	67.00	152	96.00	5888	145.00	52
40.00	421	68.00	6455	97.00	155	146.00	70
41.00	18	69.00	6586	104.00	293	148.00	156
43.00	331	70.00	607	105.00	58	150.00	67
44.00	536	72.00	325	106.00	197	155.00	197
45.00	503	73.00	2976	112.00	79	157.00	171
46.00	59	74.00	10789	115.00	172	161.00	64
47.00	615	75.00	32376	116.00	268	172.00	754
48.00	326	76.00	3057	117.00	505	173.00	198
49.00	2133	77.00	220	118.00	282	174.00	63824
50.00	10840	78.00	369	119.00	266	175.00	4645
51.00	3726	79.00	1571	126.00	53	176.00	62952
52.00	96	80.00	607	128.00	210	177.00	4426
55.00	302	81.00	1585	130.00	238	178.00	60
56.00	764	82.00	483	131.00	58	207.00	50
57.00	1721	87.00	2407	135.00	138	219.00	111
60.00	683	88.00	2441	136.00	102	250.00	23
61.00	2873	91.00	187	137.00	120	252.00	81
62.00	2888	92.00	1772	140.00	54		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-122545/5

Matrix: Water | Lab File ID: 11161306.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/16/2013 15:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122545 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND		1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	0.2630	J	1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	ND		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-122545/5

Matrix: Water | Lab File ID: 11161306.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/16/2013 15:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122545 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND		5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	ND		1.00	0.200
75-69-4	Trichlorofluoromethane	ND		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	ND		1.00	0.330
75-01-4	Vinyl chloride	ND		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		70-130
1868-53-7	Dibromofluoromethane (Surr)	106		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		70-130
2037-26-5	Toluene-d8 (Surr)	92		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP34\20131116-28565.b\11161306.D
Lims ID: mb Lab Sample ID: MB 490-122547/5-A
Client ID:
Sample Type: MB
Inject. Date: 16-Nov-2013 15:33:30 ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 490-0028565-005
Operator ID: JJR HP34 Instrument ID: HP34

Method: \\Nvlchrom\ChromData\HP34\20131116-28565.b\8260HP34.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-77
Last Update: 18-Nov-2013 12:11:24 Calib Date: 21-Aug-2013 16:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211317.D

Column 1 : DB-624 (0.18 mm) Detector MS SCAN
Process Host: XAWRK020

First Level Reviewer: mcmillins Date: 18-Nov-2013 12:11:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.438	4.438	0.0	99	343672	30.0	
* 2 Chlorobenzene-d5	117	6.841	6.835	0.006	83	265608	30.0	
* 3 1,4-Dichlorobenzene-d4	152	9.001	9.001	0.0	93	143026	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.963	3.964	-0.001	59	91603	31.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.207	4.207	0.0	90	103192	27.9	
$ 6 Toluene-d8 (Surr)	98	5.624	5.624	0.0	92	323371	27.5	
$ 8 4-Bromofluorobenzene (Surr)	95	7.893	7.900	-0.007	95	118903	28.2	
13 Bromomethane	96	2.017	2.017	0.0	1	507	0.2118	
48 Chloroform	83	3.848	3.854	-0.006	57	2929	0.2630	

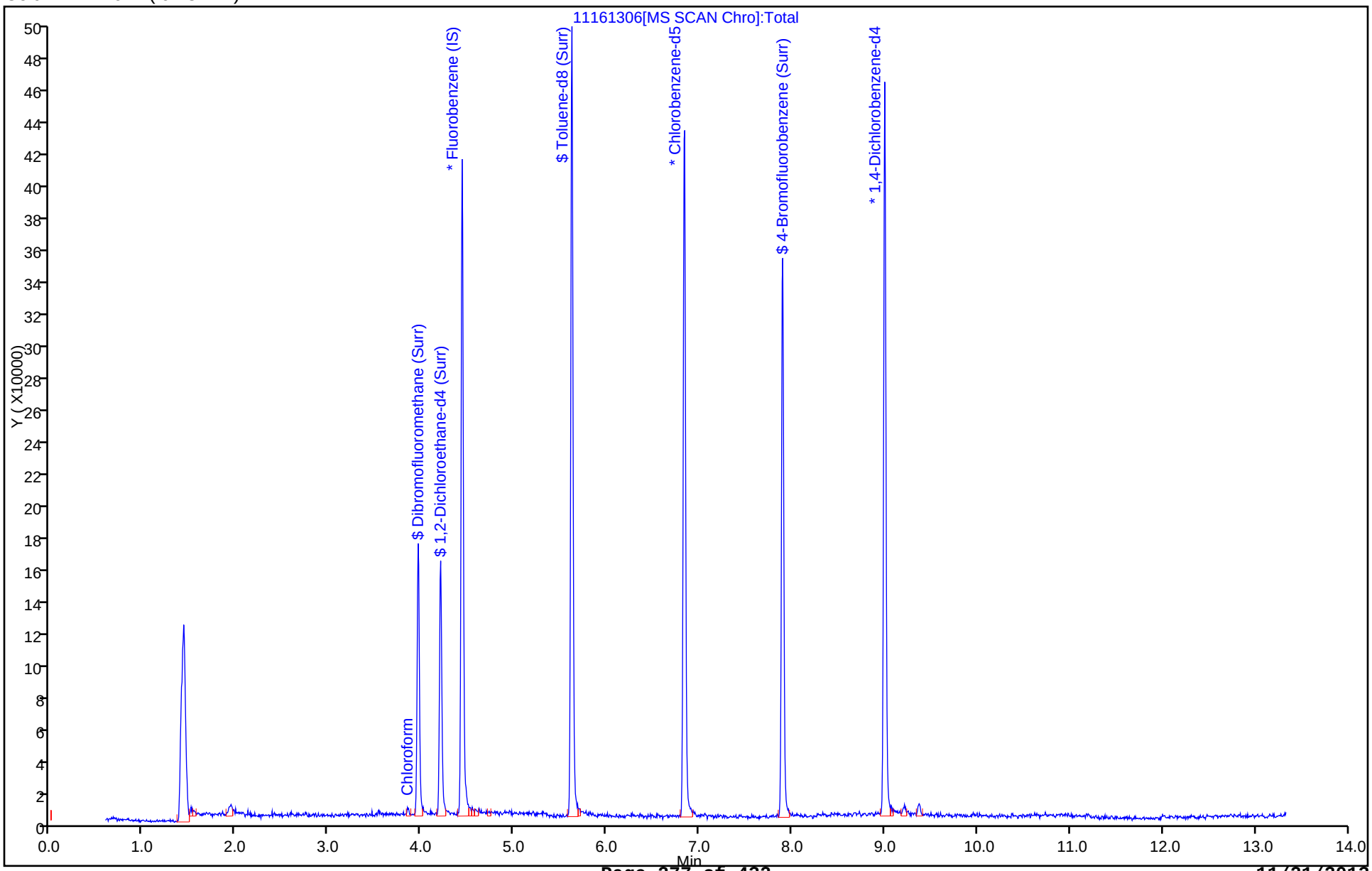
Report Date: 18-Nov-2013 12:11:29 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP34\20131116-28565.b\11161306.D

Injection Date:	16-Nov-2013 15:33:30	Instrument ID:	HP34	Operator ID:	JJR HP34
Lims ID:	mb	Lab Sample ID:	MB 490-122547/5-A	Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260HP34	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



Report Date: 18-Nov-2013 12:11:30 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP34\20131116-28565.b\11161306.D

Injection Date: 16-Nov-2013 15:33:30 Instrument ID: HP34

Lims ID: mb Lab Sample ID: MB 490-122547/5-A

Client ID:

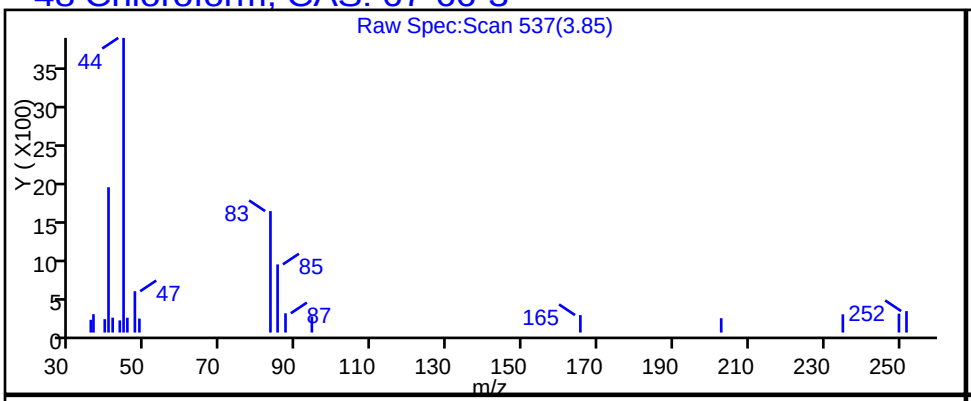
Operator ID: JJR HP34 ALS Bottle#: 6 Worklist Smp#: 5

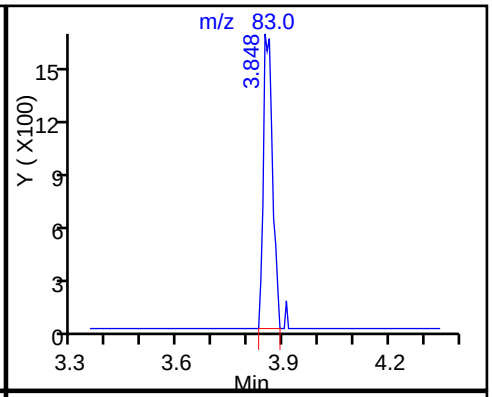
Purge Vol: 5.000 mL Dil. Factor: 1.0000

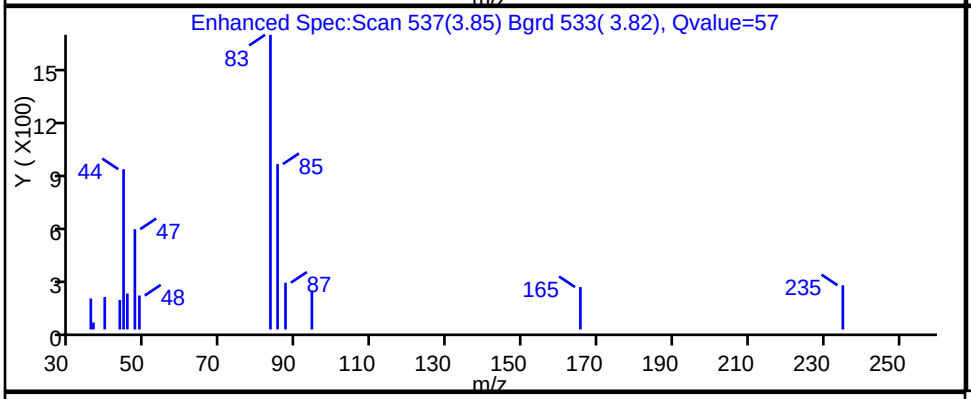
Method: 8260HP34 Limit Group: MSV 8260B ICAL

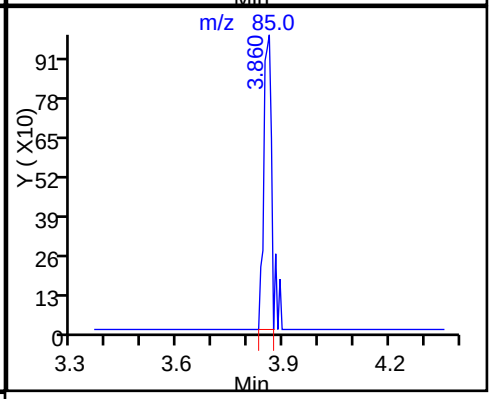
Column: DB-624 (0.18 mm) Detector MS SCAN

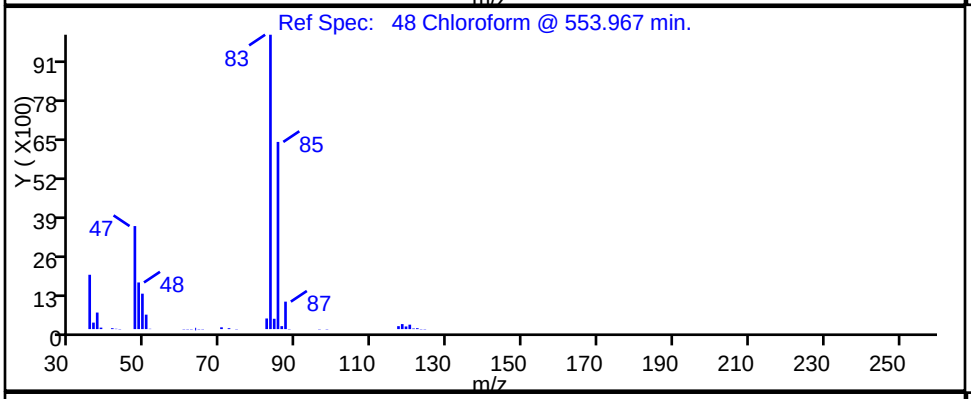
48 Chloroform, CAS: 67-66-3

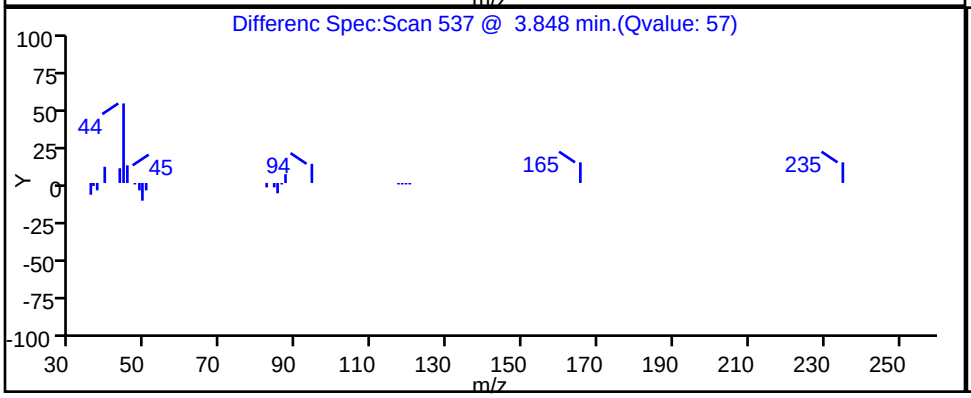


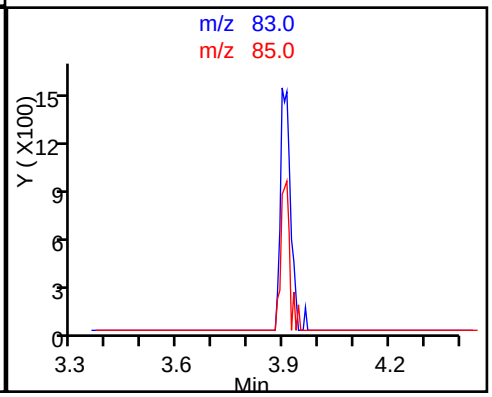












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-122545/3

Matrix: Water | Lab File ID: 11161304.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/16/2013 14:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122545 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	80.86		5.00	2.66
71-43-2	Benzene	19.23		1.00	0.200
74-97-5	Bromochloromethane	21.56		1.00	0.150
75-27-4	Bromodichloromethane	22.26		1.00	0.170
75-25-2	Bromoform	21.82		1.00	0.290
74-83-9	Bromomethane	27.12		1.00	0.350
78-93-3	2-Butanone (MEK)	87.08		50.0	2.64
75-15-0	Carbon disulfide	18.61		1.00	0.220
56-23-5	Carbon tetrachloride	21.78		1.00	0.180
108-90-7	Chlorobenzene	18.51		1.00	0.180
124-48-1	Chlorodibromomethane	19.43		1.00	0.250
75-00-3	Chloroethane	19.74		1.00	0.360
67-66-3	Chloroform	18.91		1.00	0.230
74-87-3	Chloromethane	19.45		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	19.77		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	18.96		1.00	0.170
110-82-7	Cyclohexane	17.61		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	22.26		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	18.38		1.00	0.210
95-50-1	1,2-Dichlorobenzene	18.76		1.00	0.190
541-73-1	1,3-Dichlorobenzene	18.30		1.00	0.180
106-46-7	1,4-Dichlorobenzene	17.51		1.00	0.170
75-71-8	Dichlorodifluoromethane	16.12		1.00	0.170
75-34-3	1,1-Dichloroethane	18.48		1.00	0.240
107-06-2	1,2-Dichloroethane	17.46		1.00	0.200
75-35-4	1,1-Dichloroethene	18.51		1.00	0.250
78-87-5	1,2-Dichloropropane	19.38		1.00	0.250
100-41-4	Ethylbenzene	18.10		1.00	0.190
591-78-6	2-Hexanone	76.59		5.00	1.28
98-82-8	Isopropylbenzene	18.71		1.00	0.330
79-20-9	Methyl acetate	67.07		10.0	0.720
108-87-2	Methylcyclohexane	19.71		5.00	0.200
75-09-2	Methylene Chloride	17.42		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	84.43		5.00	0.810
1634-04-4	Methyl tert-butyl ether	26.11		1.00	0.170
103-65-1	N-Propylbenzene	16.85		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-122545/3

Matrix: Water | Lab File ID: 11161304.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/16/2013 14:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122545 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	18.89		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	16.30		1.00	0.190
127-18-4	Tetrachloroethene	17.66		1.00	0.140
109-99-9	Tetrahydrofuran	26.76		5.00	2.84
108-88-3	Toluene	17.72		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	18.31		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	19.61		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	20.47		1.00	0.200
71-55-6	1,1,1-Trichloroethane	23.50		1.00	0.190
79-00-5	1,1,2-Trichloroethane	17.61		1.00	0.190
79-01-6	Trichloroethene	21.04		1.00	0.200
75-69-4	Trichlorofluoromethane	19.09		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	18.93		1.00	0.330
75-01-4	Vinyl chloride	16.99		1.00	0.180
1330-20-7	Xylenes, Total	36.33		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	107		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		70-130
2037-26-5	Toluene-d8 (Surr)	90		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP34\20131116-28565.b\11161304.D
Lims ID: lcs Lab Sample ID: LCS 490-122547/3-A
Client ID:
Sample Type: LCS
Inject. Date: 16-Nov-2013 14:20:30 ALS Bottle#: 4 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 490-0028565-003
Operator ID: JJR HP34 Instrument ID: HP34

Method: \\Nvlchrom\ChromData\HP34\20131116-28565.b\8260HP34.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-77
Last Update: 16-Nov-2013 18:23:23 Calib Date: 21-Aug-2013 16:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211317.D

Column 1 : DB-624 (0.18 mm) Detector MS SCAN
Process Host: XAWRK024

First Level Reviewer: redmondj Date: 16-Nov-2013 18:23:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.438	4.438	0.0	99	347591	30.0	
* 2 Chlorobenzene-d5	117	6.841	6.835	0.006	84	280753	30.0	
* 3 1,4-Dichlorobenzene-d4	152	9.001	9.001	0.0	66	154875	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.963	3.964	-0.001	57	93739	32.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.207	4.207	0.0	98	98180	26.3	
$ 6 Toluene-d8 (Surr)	98	5.624	5.624	0.0	91	336824	27.1	
$ 8 4-Bromofluorobenzene (Surr)	95	7.899	7.900	-0.001	94	132978	29.2	
9 Dichlorodifluoromethane	85	1.566	1.573	-0.007	88	136874	16.1	
10 Chloromethane	50	1.712	1.713	-0.001	99	135396	19.5	
11 Vinyl chloride	62	1.785	1.786	-0.001	79	133778	17.0	
12 Butadiene	54	1.816	1.816	0.0	0	112061	16.5	
13 Bromomethane	96	2.017	2.017	0.0	89	65674	27.1	
14 Chloroethane	64	2.084	2.084	0.0	94	91051	19.7	
15 Dichlorofluoromethane	67	2.199	2.199	0.0	83	222754	18.8	
16 Trichlorofluoromethane	101	2.248	2.248	0.0	82	191766	19.1	
17 Ethanol	45	2.339	2.333	0.006	97	45221	749.1	
18 Ethyl ether	59	2.412	2.418	-0.006	88	94482	17.5	
19 Acrolein	56	2.503	2.497	0.006	94	34606	44.5	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.558	2.564	-0.006	84	122581	18.9	
21 1,1-Dichloroethene	96	2.570	2.570	0.0	98	102799	18.5	
22 Acetone	58	2.595	2.595	0.0	100	43140	80.9	
23 Isopropyl alcohol	45	2.655	2.656	-0.001	96	40726	163.1	
24 Iodomethane	142	2.680	2.680	0.0	97	121994	22.8	
26 Carbon disulfide	76	2.735	2.735	0.0	98	310569	18.6	
27 Acetonitrile	41	2.783	2.783	0.0	98	273941	168.1	
29 Methyl acetate	43	2.783	2.783	0.0	96	360092	67.1	
28 3-Chloro-1-propene	76	2.783	2.783	0.0	61	92389	20.9	
30 Methylene Chloride	84	2.862	2.856	0.006	81	123002	17.4	
31 2-Methyl-2-propanol	59	2.899	2.899	0.0	79	47206	250.5	
32 Acrylonitrile	53	3.002	3.002	0.0	99	373808	164.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
33 Methyl tert-butyl ether	73	3.027	3.027	0.0	83	175403	26.1	
34 trans-1,2-Dichloroethene	61	3.033	3.033	0.0	99	154273	18.3	
35 Hexane	57	3.197	3.197	0.0	90	177716	16.8	
36 1,1-Dichloroethane	63	3.294	3.294	0.0	82	203651	18.5	
37 Vinyl acetate	43	3.300	3.300	0.0	97	465536	35.5	
38 Isopropyl ether	45	3.312	3.313	-0.001	79	301163	18.7	
39 2-Chloro-1,3-butadiene	53	3.355	3.355	0.0	81	160928	17.8	
40 Tert-butyl ethyl ether	59	3.550	3.544	0.006	88	167880	30.2	
44 2-Butanone (MEK)	72	3.659	3.659	0.0	97	60360	87.1	
41 cis-1,2-Dichloroethene	61	3.659	3.659	0.0	67	201923	19.8	
43 Ethyl acetate	43	3.659	3.659	0.0	79	189631	19.9	
42 2,2-Dichloropropane	77	3.665	3.672	-0.007	77	142110	24.4	
45 Propionitrile	54	3.702	3.702	0.0	91	143917	165.1	
46 Methacrylonitrile	41	3.799	3.799	0.0	89	544563	162.2	
47 Chlorobromomethane	130	3.823	3.824	-0.001	84	80852	21.6	
48 Chloroform	83	3.854	3.854	0.0	81	212998	18.9	
49 Tetrahydrofuran	42	3.866	3.866	0.0	90	47833	26.8	
51 1,1,1-Trichloroethane	97	4.006	4.006	0.0	92	177348	23.5	
52 Cyclohexane	56	4.055	4.055	0.0	87	204086	17.6	
53 1,1-Dichloropropene	75	4.109	4.116	-0.007	92	154732	19.5	
54 Carbon tetrachloride	117	4.122	4.122	0.0	86	162090	21.8	
55 Isobutyl alcohol	43	4.134	4.134	0.0	83	80617	134.5	
58 1,2-Dichloroethane	62	4.255	4.256	-0.001	55	162764	17.5	
57 Benzene	78	4.262	4.262	0.0	95	488481	19.2	
59 Tert-amyl methyl ether	73	4.316	4.316	0.0	77	137938	33.1	
60 n-Heptane	43	4.408	4.408	0.0	87	164671	17.6	
61 n-Butanol	56	4.602	4.602	0.0	90	50224	425.8	
62 Trichloroethene	130	4.700	4.700	0.0	92	142030	21.0	
63 Ethyl acrylate	55	4.748	4.742	0.006	0	121372	17.5	
64 Methylcyclohexane	83	4.858	4.858	0.0	90	234617	19.7	
65 1,2-Dichloropropane	63	4.870	4.870	0.0	92	117913	19.4	
67 Methyl methacrylate	41	4.919	4.919	0.0	85	166350	32.6	
68 Dibromomethane	93	4.955	4.955	0.0	86	70257	19.5	
69 1,4-Dioxane	88	4.973	4.973	0.0	79	21285	315.9	
70 Dichlorobromomethane	83	5.058	5.059	-0.001	93	158864	22.3	
71 2-Nitropropane	43	5.229	5.223	0.006	93	48920	31.2	
72 2-Chloroethyl vinyl ether	63	5.265	5.265	0.0	78	55270	14.8	
73 cis-1,3-Dichloropropene	75	5.399	5.399	0.0	94	165945	19.0	
74 4-Methyl-2-pentanone (MIBK)	58	5.515	5.515	0.0	94	182301	84.4	
75 Toluene	91	5.679	5.679	0.0	98	503659	17.7	
76 trans-1,3-Dichloropropene	75	5.831	5.831	0.0	87	124681	19.6	
77 Ethyl methacrylate	69	5.892	5.892	0.0	88	125964	16.0	
78 1,1,2-Trichloroethane	97	5.989	5.989	0.0	1	107246	17.6	
79 Tetrachloroethene	166	6.129	6.135	-0.006	90	149959	17.7	
80 1,3-Dichloropropane	76	6.135	6.135	0.0	88	186112	17.8	
81 2-Hexanone	58	6.190	6.190	0.0	93	161264	76.6	
82 n-Butyl acetate	43	6.287	6.287	0.0	97	113967	25.3	
83 Chlorodibromomethane	127	6.330	6.330	0.0	87	89266	19.4	
84 Ethylene Dibromide	107	6.439	6.446	-0.007	99	103788	18.4	
86 Chlorobenzene	112	6.865	6.865	0.0	95	345905	18.5	
87 1,1,1,2-Tetrachloroethane	131	6.926	6.926	0.0	88	121730	21.4	
88 Ethylbenzene	91	6.950	6.951	-0.001	97	535875	18.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
89 m-Xylene & p-Xylene	91	7.054	7.054	0.0	99	422743	18.1	
90 o-Xylene	91	7.419	7.413	0.006	93	443052	18.2	
91 Styrene	104	7.425	7.425	0.0	91	339790	18.9	
92 Bromoform	173	7.601	7.602	-0.001	98	70824	21.8	
93 Isopropylbenzene	105	7.753	7.754	-0.001	95	553490	18.7	
94 Cyclohexanone	55	7.851	7.857	-0.006	89	26281	169.1	
95 1,1,2,2-Tetrachloroethane	83	8.015	8.015	0.0	89	118429	16.3	
96 Bromobenzene	77	8.045	8.046	-0.001	90	243308	16.3	
97 1,2,3-Trichloropropane	110	8.064	8.064	0.0	73	41465	17.6	
98 trans-1,4-Dichloro-2-butene	53	8.076	8.070	0.006	66	27102	13.0	
99 N-Propylbenzene	91	8.137	8.137	0.0	97	612005	16.8	
100 2-Chlorotoluene	91	8.228	8.228	0.0	97	385221	17.1	
101 1,3,5-Trimethylbenzene	105	8.301	8.301	0.0	85	444240	17.9	
102 4-Chlorotoluene	91	8.325	8.325	0.0	97	443771	16.9	
103 tert-Butylbenzene	119	8.617	8.617	0.0	91	413310	16.6	
105 1,2,4-Trimethylbenzene	105	8.666	8.666	0.0	95	454597	18.7	
106 sec-Butylbenzene	105	8.830	8.830	0.0	94	578397	18.1	
107 1,3-Dichlorobenzene	146	8.940	8.940	0.0	97	287948	18.3	
108 4-Isopropyltoluene	119	8.964	8.964	0.0	95	503433	19.7	
109 1,4-Dichlorobenzene	146	9.025	9.025	0.0	94	275640	17.5	
110 1,2,3-Trimethylbenzene	105	9.074	9.074	0.0	0	449941	18.3	
111 Benzyl chloride	91	9.153	9.153	0.0	97	134593	21.5	
112 n-Butylbenzene	91	9.366	9.366	0.0	96	445776	18.6	
113 1,2-Dichlorobenzene	146	9.390	9.390	0.0	98	272452	18.8	
114 1,2-Dibromo-3-Chloropropane	157	10.236	10.236	0.0	76	20601	22.3	
115 1,3,5-Trichlorobenzene	180	10.503	10.497	0.006	98	201265	21.2	
116 1,2,4-Trichlorobenzene	180	11.197	11.197	0.0	93	156668	20.5	
117 Hexachlorobutadiene	225	11.379	11.379	0.0	93	92694	23.7	
118 Naphthalene	128	11.458	11.452	0.006	97	306160	18.4	
119 1,2,3-Trichlorobenzene	180	11.696	11.702	-0.006	94	147925	22.6	
S 132 Xylenes, Total	1				0		36.3	
S 133 1,2-Dichloroethene, Total	1				0		38.1	

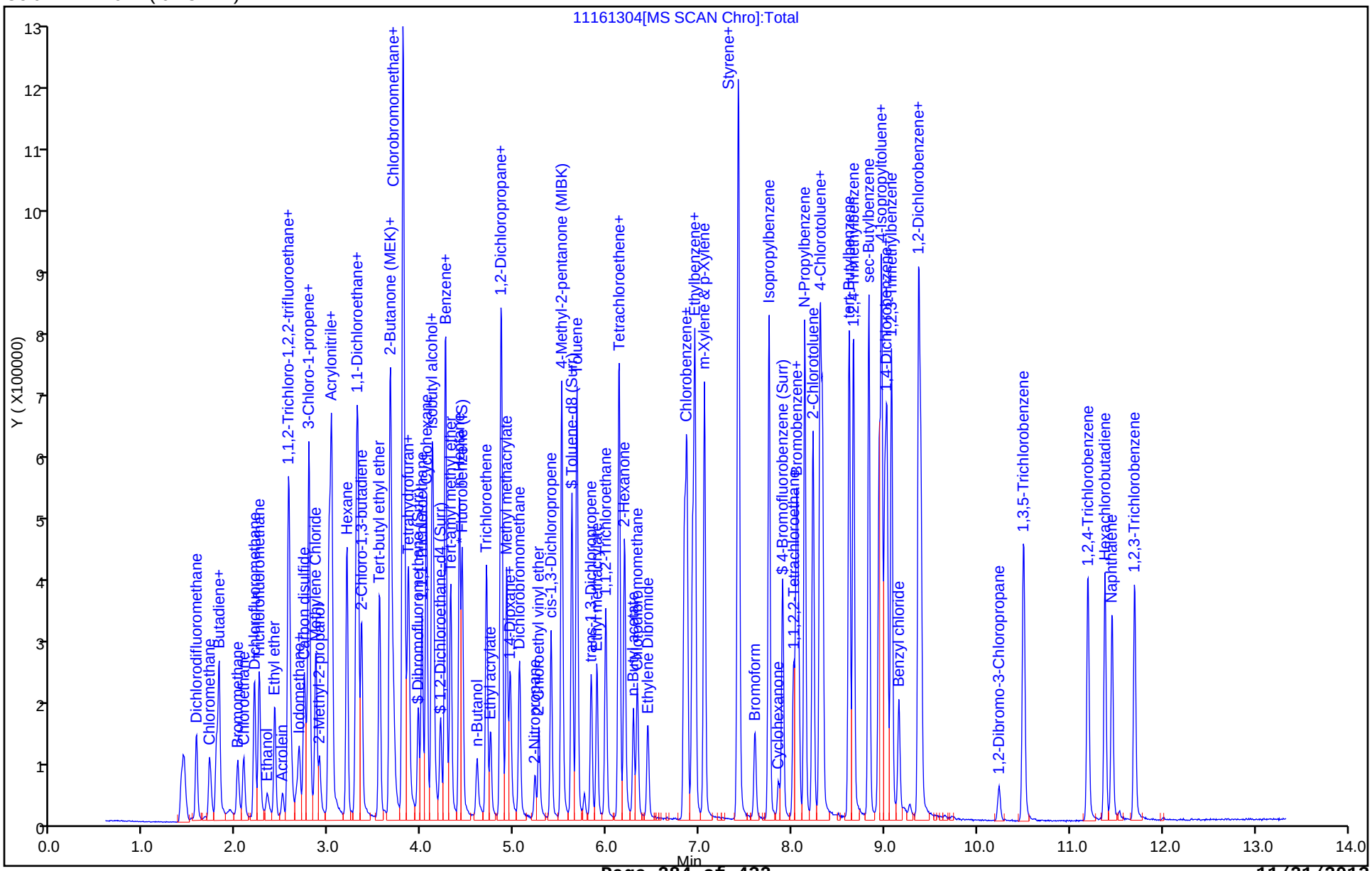
Report Date: 16-Nov-2013 18:23:23 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP34\20131116-28565.b\11161304.D

Injection Date:	16-Nov-2013 14:20:30	Instrument ID:	HP34	Operator ID:	JJR HP34
Lims ID:	lcs	Lab Sample ID:	LCS 490-122547/3-A	Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260HP34	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: | Lab Sample ID: 490-39934-B-3 MS

Matrix: Water | Lab File ID: 11161326.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/17/2013 00:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122545 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	182.2		5.00	2.66
71-43-2	Benzene	46.49		1.00	0.200
74-97-5	Bromochloromethane	53.40		1.00	0.150
75-27-4	Bromodichloromethane	56.61		1.00	0.170
75-25-2	Bromoform	53.64		1.00	0.290
74-83-9	Bromomethane	60.64		1.00	0.350
78-93-3	2-Butanone (MEK)	210.1		50.0	2.64
75-15-0	Carbon disulfide	46.49		1.00	0.220
56-23-5	Carbon tetrachloride	61.23		1.00	0.180
108-90-7	Chlorobenzene	46.22		1.00	0.180
124-48-1	Chlorodibromomethane	50.88		1.00	0.250
75-00-3	Chloroethane	47.63		1.00	0.360
67-66-3	Chloroform	47.59		1.00	0.230
74-87-3	Chloromethane	48.25		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	47.41		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	45.62		1.00	0.170
110-82-7	Cyclohexane	45.04		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	48.85		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	44.86		1.00	0.210
95-50-1	1,2-Dichlorobenzene	44.62		1.00	0.190
541-73-1	1,3-Dichlorobenzene	43.41		1.00	0.180
106-46-7	1,4-Dichlorobenzene	42.14		1.00	0.170
75-71-8	Dichlorodifluoromethane	39.77		1.00	0.170
75-34-3	1,1-Dichloroethane	45.44		1.00	0.240
107-06-2	1,2-Dichloroethane	41.26		1.00	0.200
75-35-4	1,1-Dichloroethene	49.67		1.00	0.250
78-87-5	1,2-Dichloropropane	45.78		1.00	0.250
100-41-4	Ethylbenzene	44.72		1.00	0.190
591-78-6	2-Hexanone	176.3		5.00	1.28
98-82-8	Isopropylbenzene	48.21		1.00	0.330
79-20-9	Methyl acetate	142.9		10.0	0.720
108-87-2	Methylcyclohexane	51.42		5.00	0.200
75-09-2	Methylene Chloride	42.48		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	200.6		5.00	0.810
1634-04-4	Methyl tert-butyl ether	54.81		1.00	0.170
103-65-1	N-Propylbenzene	41.83		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: | Lab Sample ID: 490-39934-B-3 MS

Matrix: Water | Lab File ID: 11161326.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/17/2013 00:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122545 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	46.60		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	38.71		1.00	0.190
127-18-4	Tetrachloroethene	46.54		1.00	0.140
109-99-9	Tetrahydrofuran	68.17		5.00	2.84
108-88-3	Toluene	43.62		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	44.97		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	45.68		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	55.11		1.00	0.200
71-55-6	1,1,1-Trichloroethane	62.31		1.00	0.190
79-00-5	1,1,2-Trichloroethane	42.19		1.00	0.190
79-01-6	Trichloroethene	53.95		1.00	0.200
75-69-4	Trichlorofluoromethane	53.65		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	48.71		1.00	0.330
75-01-4	Vinyl chloride	43.23		1.00	0.180
1330-20-7	Xylenes, Total	89.73		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		70-130
1868-53-7	Dibromofluoromethane (Surr)	106		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		70-130
2037-26-5	Toluene-d8 (Surr)	92		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP34\20131116-28565.b\11161326.D
Lims ID: 490-39934-B-3 MS Lab Sample ID: 490-39934-3
Client ID:
Sample Type: MS
Inject. Date: 17-Nov-2013 00:30:30 ALS Bottle#: 26 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 490-39934-B-3 MS
Misc. Info.: 490-0028565-047
Operator ID: JJR HP34 Instrument ID: HP34

Method: \\Nvlchrom\ChromData\HP34\20131116-28565.b\8260HP34.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-77
Last Update: 18-Nov-2013 12:11:24 Calib Date: 21-Aug-2013 16:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211317.D

Column 1 : DB-624 (0.18 mm) Detector MS SCAN
Process Host: XAWRK020

First Level Reviewer: mcmillins Date: 18-Nov-2013 12:15:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.438	4.438	0.0	98	335661	30.0	
* 2 Chlorobenzene-d5	117	6.835	6.835	0.0	82	273966	30.0	
* 3 1,4-Dichlorobenzene-d4	152	9.001	9.001	0.0	71	154591	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.964	3.964	0.0	59	89370	31.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.207	4.207	0.0	91	96770	26.8	
$ 6 Toluene-d8 (Surr)	98	5.624	5.624	0.0	91	335427	27.6	
$ 8 4-Bromofluorobenzene (Surr)	95	7.900	7.900	0.0	94	127694	28.1	
9 Dichlorodifluoromethane	85	1.567	1.573	-0.006	88	326045	39.8	
10 Chloromethane	50	1.713	1.713	0.0	88	324334	48.2	
11 Vinyl chloride	62	1.786	1.786	0.0	79	328592	43.2	
12 Butadiene	54	1.810	1.816	-0.006	0	281473	43.0	
13 Bromomethane	96	2.011	2.017	-0.006	91	141793	60.6	
14 Chloroethane	64	2.078	2.084	-0.006	99	212193	47.6	
15 Dichlorofluoromethane	67	2.193	2.199	-0.006	97	546512	47.7	
16 Trichlorofluoromethane	101	2.248	2.248	0.0	82	520549	53.7	
17 Ethanol	45	2.339	2.333	0.006	100	98076	1682.5	
18 Ethyl ether	59	2.412	2.418	-0.006	88	215035	42.1	
19 Acrolein	56	2.497	2.497	0.0	94	76271	100.6	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.558	2.564	-0.006	84	304534	48.7	
21 1,1-Dichloroethene	96	2.570	2.570	0.0	90	266387	49.7	
22 Acetone	58	2.595	2.595	0.0	100	91770	182.2	
23 Isopropyl alcohol	45	2.656	2.656	0.0	96	87951	364.6	
24 Iodomethane	142	2.674	2.680	-0.006	99	320083	57.6	
25 Ethyl bromide	108	2.692	2.680	0.012	1	4813	1.32	
26 Carbon disulfide	76	2.729	2.735	-0.006	98	749296	46.5	
27 Acetonitrile	41	2.783	2.783	0.0	99	590991	375.6	
29 Methyl acetate	43	2.783	2.783	0.0	95	741006	142.9	
28 3-Chloro-1-propene	76	2.783	2.783	0.0	66	206635	48.0	
30 Methylene Chloride	84	2.856	2.856	0.0	79	289710	42.5	
31 2-Methyl-2-propanol	59	2.899	2.899	0.0	78	96092	528.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
32 Acrylonitrile	53	3.002	3.002	0.0	99	832158	378.1	
33 Methyl tert-butyl ether	73	3.027	3.027	0.0	80	355592	54.8	
34 trans-1,2-Dichloroethene	61	3.027	3.033	-0.006	99	365989	45.0	
35 Hexane	57	3.191	3.197	-0.006	90	422001	41.9	
36 1,1-Dichloroethane	63	3.288	3.294	-0.006	85	483608	45.4	
37 Vinyl acetate	43	3.300	3.300	0.0	97	926276	73.1	
38 Isopropyl ether	45	3.313	3.313	0.0	79	638966	41.0	
39 2-Chloro-1,3-butadiene	53	3.349	3.355	-0.006	88	431457	49.4	
40 Tert-butyl ethyl ether	59	3.544	3.544	0.0	84	344948	64.2	
44 2-Butanone (MEK)	72	3.659	3.659	0.0	97	140603	210.1	
41 cis-1,2-Dichloroethene	61	3.659	3.659	0.0	67	467646	47.4	
43 Ethyl acetate	43	3.659	3.659	0.0	95	750426	81.6	
42 2,2-Dichloropropane	77	3.665	3.672	-0.007	88	334805	55.8	
45 Propionitrile	54	3.702	3.702	0.0	99	322534	383.2	
46 Methacrylonitrile	41	3.799	3.799	0.0	88	1153131	355.7	
47 Chlorobromomethane	130	3.824	3.824	0.0	81	193426	53.4	
48 Chloroform	83	3.854	3.854	0.0	69	517605	47.6	
49 Tetrahydrofuran	42	3.866	3.866	0.0	87	117660	68.2	
50 tert-Butyl Formate	59	3.860	3.903	-0.043	8	234	0.0612	
51 1,1,1-Trichloroethane	97	4.006	4.006	0.0	91	454137	62.3	
52 Cyclohexane	56	4.049	4.055	-0.006	86	503947	45.0	
53 1,1-Dichloropropene	75	4.110	4.116	-0.006	92	390603	51.0	
54 Carbon tetrachloride	117	4.122	4.122	0.0	86	440013	61.2	
55 Isobutyl alcohol	43	4.055	4.134	-0.079	40	50093	87.9	
56 t-Amyl alcohol	59	4.201	4.219	-0.018	1	689	1.87	
58 1,2-Dichloroethane	62	4.256	4.256	0.0	53	371411	41.3	
57 Benzene	78	4.256	4.262	-0.006	96	1140385	46.5	
59 Tert-amyl methyl ether	73	4.316	4.316	0.0	73	286420	71.1	
60 n-Heptane	43	4.408	4.408	0.0	88	392863	43.5	
61 n-Butanol	56	4.602	4.602	0.0	90	128852	997.9	
62 Trichloroethene	130	4.700	4.700	0.0	93	351761	54.0	
63 Ethyl acrylate	55	4.748	4.742	0.006	0	277104	40.9	
64 Methylcyclohexane	83	4.858	4.858	0.0	90	591138	51.4	
65 1,2-Dichloropropane	63	4.870	4.870	0.0	90	268930	45.8	
66 2,3-Dichloro-1-propene	75	4.870	4.888	-0.018	53	15765	1.61	
67 Methyl methacrylate	41	4.919	4.919	0.0	85	381509	77.5	
68 Dibromomethane	93	4.955	4.955	0.0	82	164969	47.4	
69 1,4-Dioxane	88	4.973	4.973	0.0	77	51639	770.4	
70 Dichlorobromomethane	83	5.059	5.059	0.0	94	390054	56.6	
71 2-Nitropropane	43	5.223	5.223	0.0	96	128087	70.8	
73 cis-1,3-Dichloropropene	75	5.399	5.399	0.0	96	404747	45.6	
74 4-Methyl-2-pentanone (MIBK)	58	5.515	5.515	0.0	93	422666	200.6	
75 Toluene	91	5.679	5.679	0.0	99	1210032	43.6	
76 trans-1,3-Dichloropropene	75	5.831	5.831	0.0	87	314459	45.7	
77 Ethyl methacrylate	69	5.892	5.892	0.0	88	294866	37.8	
78 1,1,2-Trichloroethane	97	5.989	5.989	0.0	1	250758	42.2	
79 Tetrachloroethene	166	6.129	6.135	-0.006	92	385737	46.5	
80 1,3-Dichloropropane	76	6.135	6.135	0.0	89	421249	41.3	
81 2-Hexanone	58	6.190	6.190	0.0	92	367276	176.3	
82 n-Butyl acetate	43	6.287	6.287	0.0	96	231124	52.4	
83 Chlorodibromomethane	127	6.330	6.330	0.0	88	231183	50.9	
84 Ethylene Dibromide	107	6.446	6.446	0.0	99	247272	44.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
85 1-Chlorohexane	91	6.829	6.823	0.006	14	480	0.0547	
86 Chlorobenzene	112	6.865	6.865	0.0	95	842647	46.2	
87 1,1,1,2-Tetrachloroethane	131	6.926	6.926	0.0	84	306961	55.0	
88 Ethylbenzene	91	6.951	6.951	0.0	97	1292312	44.7	
89 m-Xylene & p-Xylene	91	7.054	7.054	0.0	99	1028672	45.1	
90 o-Xylene	91	7.419	7.413	0.006	93	1057792	44.6	
91 Styrene	104	7.425	7.425	0.0	91	817930	46.6	
92 Bromoform	173	7.601	7.602	-0.001	98	185000	53.6	
93 Isopropylbenzene	105	7.754	7.754	0.0	95	1391593	48.2	
94 Cyclohexanone	55	7.857	7.857	0.0	88	61521	352.8	
95 1,1,2,2-Tetrachloroethane	83	8.015	8.015	0.0	89	280735	38.7	
96 Bromobenzene	77	8.046	8.046	0.0	89	571829	38.4	
97 1,2,3-Trichloropropane	110	8.070	8.064	0.006	77	97238	41.3	
98 trans-1,4-Dichloro-2-butene	53	8.070	8.070	0.0	73	64882	30.3	
99 N-Propylbenzene	91	8.137	8.137	0.0	97	1516634	41.8	
100 2-Chlorotoluene	91	8.228	8.228	0.0	97	930611	41.5	
101 1,3,5-Trimethylbenzene	105	8.301	8.301	0.0	94	1112880	44.9	
102 4-Chlorotoluene	91	8.325	8.325	0.0	97	1055189	40.2	
103 tert-Butylbenzene	119	8.617	8.617	0.0	87	1076341	43.4	
105 1,2,4-Trimethylbenzene	105	8.666	8.666	0.0	96	1096648	45.1	
106 sec-Butylbenzene	105	8.830	8.830	0.0	94	1477406	46.3	
107 1,3-Dichlorobenzene	146	8.940	8.940	0.0	96	681905	43.4	
108 4-Isopropyltoluene	119	8.970	8.964	0.006	90	1271419	49.8	
109 1,4-Dichlorobenzene	146	9.025	9.025	0.0	94	662284	42.1	
110 1,2,3-Trimethylbenzene	105	9.074	9.074	0.0	0	1099144	44.8	
111 Benzyl chloride	91	9.153	9.153	0.0	97	303775	43.6	
112 n-Butylbenzene	91	9.366	9.366	0.0	95	1116760	46.8	
113 1,2-Dichlorobenzene	146	9.390	9.390	0.0	97	646657	44.6	
114 1,2-Dibromo-3-Chloropropane	157	10.236	10.236	0.0	85	56280	48.9	
115 1,3,5-Trichlorobenzene	180	10.497	10.497	0.0	97	542335	57.1	
116 1,2,4-Trichlorobenzene	180	11.197	11.197	0.0	93	421044	55.1	
117 Hexachlorobutadiene	225	11.379	11.379	0.0	93	244105	62.6	
118 Naphthalene	128	11.452	11.452	0.0	97	814437	49.0	
119 1,2,3-Trichlorobenzene	180	11.702	11.702	0.0	94	361484	55.2	
S 132 Xylenes, Total	1				0		89.7	
S 133 1,2-Dichloroethene, Total	1				0		92.4	

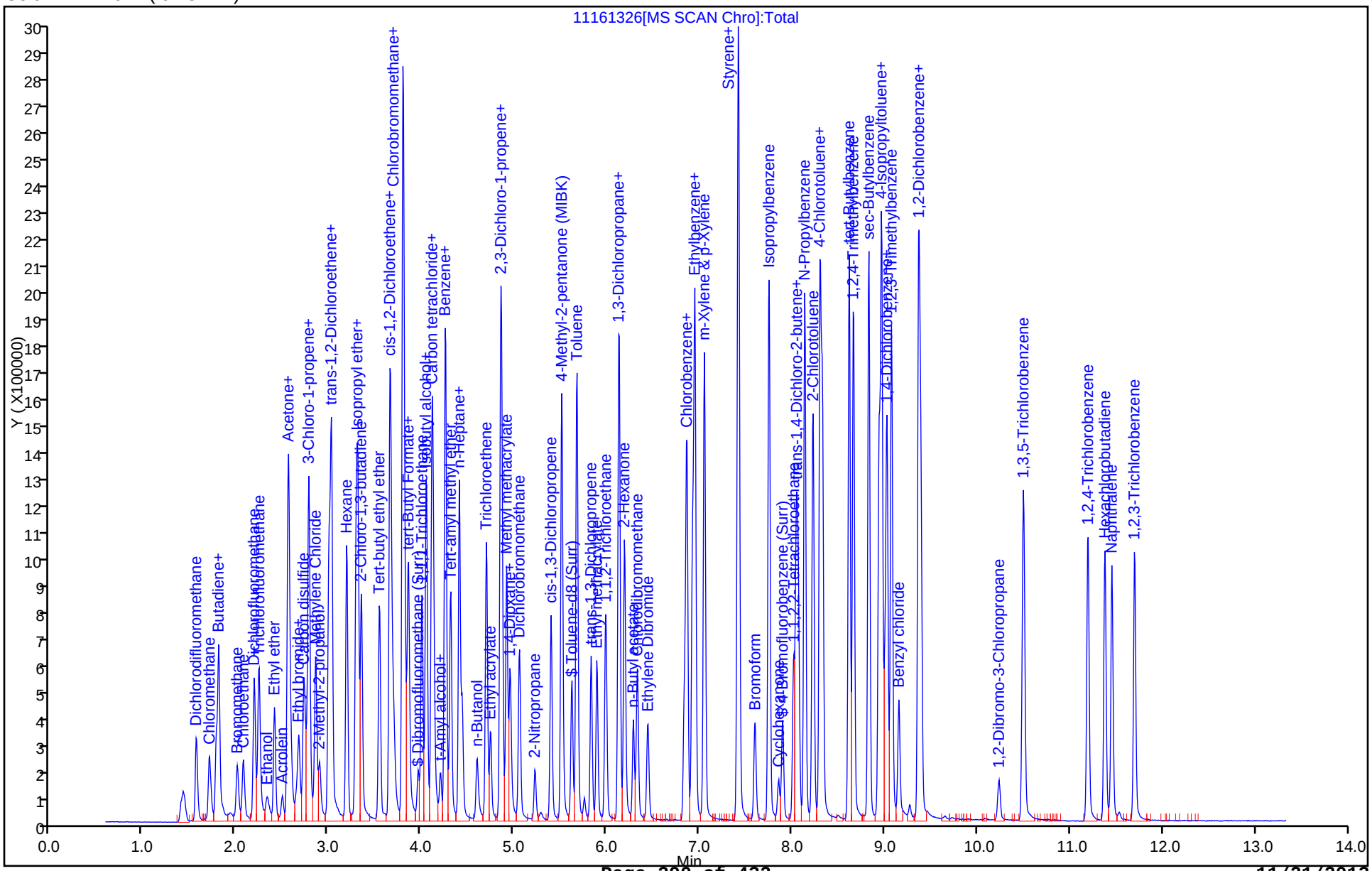
Report Date: 18-Nov-2013 12:15:43 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP34\20131116-28565.b\11161326.D

Injection Date:	17-Nov-2013 00:30:30	Instrument ID:	HP34	Operator ID:	JJR HP34
Lims ID:	490-39934-B-3 MS	Lab Sample ID:	490-39934-3	Worklist Smp#:	47
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	8260HP34	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: | Lab Sample ID: 490-39934-C-3 MSD

Matrix: Water | Lab File ID: 11161327.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/17/2013 00:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122545 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	206.0		5.00	2.66
71-43-2	Benzene	46.62		1.00	0.200
74-97-5	Bromochloromethane	51.27		1.00	0.150
75-27-4	Bromodichloromethane	55.82		1.00	0.170
75-25-2	Bromoform	54.16		1.00	0.290
74-83-9	Bromomethane	65.20		1.00	0.350
78-93-3	2-Butanone (MEK)	217.6		50.0	2.64
75-15-0	Carbon disulfide	46.83		1.00	0.220
56-23-5	Carbon tetrachloride	61.50		1.00	0.180
108-90-7	Chlorobenzene	46.44		1.00	0.180
124-48-1	Chlorodibromomethane	51.93		1.00	0.250
75-00-3	Chloroethane	46.91		1.00	0.360
67-66-3	Chloroform	46.41		1.00	0.230
74-87-3	Chloromethane	47.23		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	48.12		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	47.49		1.00	0.170
110-82-7	Cyclohexane	45.78		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	52.75		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	46.38		1.00	0.210
95-50-1	1,2-Dichlorobenzene	45.66		1.00	0.190
541-73-1	1,3-Dichlorobenzene	45.21		1.00	0.180
106-46-7	1,4-Dichlorobenzene	43.58		1.00	0.170
75-71-8	Dichlorodifluoromethane	39.73		1.00	0.170
75-34-3	1,1-Dichloroethane	45.62		1.00	0.240
107-06-2	1,2-Dichloroethane	41.91		1.00	0.200
75-35-4	1,1-Dichloroethene	48.64		1.00	0.250
78-87-5	1,2-Dichloropropane	45.54		1.00	0.250
100-41-4	Ethylbenzene	46.16		1.00	0.190
591-78-6	2-Hexanone	185.1		5.00	1.28
98-82-8	Isopropylbenzene	49.23		1.00	0.330
79-20-9	Methyl acetate	144.8		10.0	0.720
108-87-2	Methylcyclohexane	51.43		5.00	0.200
75-09-2	Methylene Chloride	42.83		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	209.4		5.00	0.810
1634-04-4	Methyl tert-butyl ether	57.14		1.00	0.170
103-65-1	N-Propylbenzene	43.69		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: | Lab Sample ID: 490-39934-C-3 MSD

Matrix: Water | Lab File ID: 11161327.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/17/2013 00:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122545 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	48.12		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	40.25		1.00	0.190
127-18-4	Tetrachloroethene	47.14		1.00	0.140
109-99-9	Tetrahydrofuran	68.59		5.00	2.84
108-88-3	Toluene	44.79		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	44.37		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	47.84		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	62.09		1.00	0.200
71-55-6	1,1,1-Trichloroethane	62.30		1.00	0.190
79-00-5	1,1,2-Trichloroethane	43.17		1.00	0.190
79-01-6	Trichloroethene	53.94		1.00	0.200
75-69-4	Trichlorofluoromethane	49.41		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	48.82		1.00	0.330
75-01-4	Vinyl chloride	44.05		1.00	0.180
1330-20-7	Xylenes, Total	92.18		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	103		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		70-130
2037-26-5	Toluene-d8 (Surr)	95		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP34\20131116-28565.b\11161327.D
Lims ID: 490-39934-C-3 MSD Lab Sample ID: 490-39934-3
Client ID:
Sample Type: MSD
Inject. Date: 17-Nov-2013 00:57:30 ALS Bottle#: 27 Worklist Smp#: 48
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 490-39934-C-3 MSD
Misc. Info.: 490-0028565-048
Operator ID: JJR HP34 Instrument ID: HP34

Method: \\Nvlchrom\ChromData\HP34\20131116-28565.b\8260HP34.m
Limit Group: MSV 8260B ICAL
Method Label: 8260B Volatile Organics 8260/SA/NV05-77
Last Update: 18-Nov-2013 12:11:24 Calib Date: 21-Aug-2013 16:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP34\20130821-23915.b\08211317.D

Column 1 : DB-624 (0.18 mm) Detector MS SCAN
Process Host: XAWRK020

First Level Reviewer: mcmillins Date: 18-Nov-2013 12:15:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.438	4.438	0.0	99	349501	30.0	
* 2 Chlorobenzene-d5	117	6.835	6.835	0.0	84	277062	30.0	
* 3 1,4-Dichlorobenzene-d4	152	9.001	9.001	0.0	75	153803	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.963	3.964	-0.001	59	90904	31.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.201	4.207	-0.006	97	98093	26.1	
$ 6 Toluene-d8 (Surr)	98	5.624	5.624	0.0	91	348550	28.4	
$ 8 4-Bromofluorobenzene (Surr)	95	7.899	7.900	-0.001	91	133319	29.4	
9 Dichlorodifluoromethane	85	1.566	1.573	-0.007	88	339157	39.7	
10 Chloromethane	50	1.712	1.713	-0.001	88	330576	47.2	
11 Vinyl chloride	62	1.785	1.786	-0.001	79	348672	44.1	
12 Butadiene	54	1.810	1.816	-0.006	0	301195	44.2	
13 Bromomethane	96	2.011	2.017	-0.006	91	158740	65.2	
14 Chloroethane	64	2.077	2.084	-0.007	95	217581	46.9	
15 Dichlorofluoromethane	67	2.193	2.199	-0.006	82	569687	47.7	
16 Trichlorofluoromethane	101	2.248	2.248	0.0	86	499153	49.4	
17 Ethanol	45	2.339	2.333	0.006	99	102987	1696.8	
18 Ethyl ether	59	2.412	2.418	-0.006	88	225434	42.4	
19 Acrolein	56	2.497	2.497	0.0	94	79003	100.1	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.558	2.564	-0.006	83	317793	48.8	
21 1,1-Dichloroethene	96	2.570	2.570	0.0	89	271642	48.6	
22 Acetone	58	2.588	2.595	-0.007	100	107847	206.0	
23 Isopropyl alcohol	45	2.655	2.656	-0.001	96	96526	384.3	
24 Iodomethane	142	2.674	2.680	-0.006	98	339177	58.6	
25 Ethyl bromide	108	2.692	2.680	0.012	71	7913	2.08	
26 Carbon disulfide	76	2.728	2.735	-0.007	98	785904	46.8	
27 Acetonitrile	41	2.783	2.783	0.0	99	630079	384.6	
29 Methyl acetate	43	2.783	2.783	0.0	95	781734	144.8	
28 3-Chloro-1-propene	76	2.783	2.783	0.0	55	215653	48.1	
30 Methylene Chloride	84	2.856	2.856	0.0	78	304109	42.8	
31 2-Methyl-2-propanol	59	2.899	2.899	0.0	78	114550	604.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
32 Acrylonitrile	53	3.002	3.002	0.0	99	866955	378.3	
33 Methyl tert-butyl ether	73	3.027	3.027	-0.001	81	386016	57.1	
34 trans-1,2-Dichloroethene	61	3.027	3.033	-0.007	95	375971	44.4	
35 Hexane	57	3.191	3.197	-0.006	90	446244	42.5	
36 1,1-Dichloroethane	63	3.288	3.294	-0.006	85	505530	45.6	
37 Vinyl acetate	43	3.300	3.300	0.0	97	983773	74.6	
38 Isopropyl ether	45	3.312	3.313	-0.001	79	678358	41.8	
39 2-Chloro-1,3-butadiene	53	3.349	3.355	-0.006	79	447103	49.1	
40 Tert-butyl ethyl ether	59	3.544	3.544	0.0	85	370104	66.1	
44 2-Butanone (MEK)	72	3.659	3.659	0.0	97	151647	217.6	
41 cis-1,2-Dichloroethene	61	3.659	3.659	0.0	79	494249	48.1	
43 Ethyl acetate	43	3.659	3.659	0.0	98	796383	83.2	
42 2,2-Dichloropropane	77	3.665	3.672	-0.007	79	348864	55.9	
45 Propionitrile	54	3.702	3.702	0.0	98	348848	398.0	
46 Methacrylonitrile	41	3.799	3.799	0.0	88	1210275	358.6	
47 Chlorobromomethane	130	3.823	3.824	-0.001	81	193368	51.3	
48 Chloroform	83	3.854	3.854	0.0	69	525674	46.4	
49 Tetrahydrofuran	42	3.866	3.866	0.0	86	123264	68.6	
51 1,1,1-Trichloroethane	97	4.006	4.006	0.0	91	472822	62.3	
52 Cyclohexane	56	4.055	4.055	0.0	86	533289	45.8	
53 1,1-Dichloropropene	75	4.109	4.116	-0.007	95	410465	51.5	
54 Carbon tetrachloride	117	4.122	4.122	0.0	87	460157	61.5	
55 Isobutyl alcohol	43	4.049	4.134	-0.085	39	50607	85.4	
56 t-Amyl alcohol	59	4.219	4.219	0.0	1	497	1.30	
58 1,2-Dichloroethane	62	4.255	4.256	-0.001	54	392781	41.9	
57 Benzene	78	4.255	4.262	-0.007	95	1190666	46.6	
59 Tert-amyl methyl ether	73	4.316	4.316	0.0	73	300150	71.6	
60 n-Heptane	43	4.407	4.408	-0.001	86	409336	43.5	
61 n-Butanol	56	4.602	4.602	0.0	88	142419	1054.3	
62 Trichloroethene	130	4.699	4.700	-0.001	97	366148	53.9	
63 Ethyl acrylate	55	4.742	4.742	0.0	0	298522	42.3	
64 Methylcyclohexane	83	4.858	4.858	0.0	90	615656	51.4	
65 1,2-Dichloropropane	63	4.870	4.870	0.0	90	278563	45.5	
66 2,3-Dichloro-1-propene	75	4.870	4.888	-0.018	51	16155	1.59	
67 Methyl methacrylate	41	4.919	4.919	-0.001	86	408930	79.8	
68 Dibromomethane	93	4.955	4.955	0.0	81	169982	47.0	
69 1,4-Dioxane	88	4.973	4.973	0.0	76	57052	816.5	
70 Dichlorobromomethane	83	5.058	5.059	-0.001	93	400531	55.8	
71 2-Nitropropane	43	5.223	5.223	0.0	96	135106	71.7	
73 cis-1,3-Dichloropropene	75	5.399	5.399	0.0	96	426563	47.5	
74 4-Methyl-2-pentanone (MIBK)	58	5.515	5.515	0.0	92	446277	209.4	
75 Toluene	91	5.679	5.679	0.0	98	1256430	44.8	
76 trans-1,3-Dichloropropene	75	5.831	5.831	0.0	90	334168	47.8	
77 Ethyl methacrylate	69	5.892	5.892	0.0	89	313890	39.7	
78 1,1,2-Trichloroethane	97	5.989	5.989	0.0	1	259460	43.2	
79 Tetrachloroethene	166	6.129	6.135	-0.006	93	395125	47.1	
80 1,3-Dichloropropane	76	6.135	6.135	0.0	87	437272	42.4	
81 2-Hexanone	58	6.190	6.190	0.0	92	390199	185.1	
82 n-Butyl acetate	43	6.287	6.287	0.0	96	238473	51.9	
83 Chlorodibromomethane	127	6.330	6.330	0.0	88	238658	51.9	
84 Ethylene Dibromide	107	6.445	6.446	-0.001	99	258499	46.4	
85 1-Chlorohexane	91	6.829	6.823	0.006	13	555	0.0608	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
86 Chlorobenzene	112	6.865	6.865	0.0	94	856233	46.4	
87 1,1,1,2-Tetrachloroethane	131	6.926	6.926	0.0	89	313430	55.5	
88 Ethylbenzene	91	6.950	6.951	-0.001	97	1349024	46.2	
89 m-Xylene & p-Xylene	91	7.054	7.054	0.0	99	1080195	46.8	
90 o-Xylene	91	7.413	7.413	0.0	92	1087007	45.4	
91 Styrene	104	7.425	7.425	0.0	91	854153	48.1	
92 Bromoform	173	7.601	7.602	-0.001	99	188989	54.2	
93 Isopropylbenzene	105	7.753	7.754	-0.001	95	1437155	49.2	
94 Cyclohexanone	55	7.857	7.857	0.0	90	68837	376.2	
95 1,1,2,2-Tetrachloroethane	83	8.015	8.015	0.0	89	290446	40.2	
96 Bromobenzene	77	8.045	8.046	-0.001	90	598349	40.3	
97 1,2,3-Trichloropropane	110	8.070	8.064	0.006	74	100735	43.0	
98 trans-1,4-Dichloro-2-butene	53	8.076	8.070	0.006	68	67998	31.9	
99 N-Propylbenzene	91	8.137	8.137	0.0	97	1576022	43.7	
100 2-Chlorotoluene	91	8.228	8.228	0.0	98	967467	43.3	
101 1,3,5-Trimethylbenzene	105	8.301	8.301	0.0	94	1151047	46.7	
102 4-Chlorotoluene	91	8.325	8.325	0.0	97	1123717	43.0	
103 tert-Butylbenzene	119	8.617	8.617	0.0	91	1106333	44.8	
105 1,2,4-Trimethylbenzene	105	8.666	8.666	0.0	96	1151418	47.6	
106 sec-Butylbenzene	105	8.830	8.830	0.0	94	1523875	48.0	
107 1,3-Dichlorobenzene	146	8.940	8.940	0.0	96	706514	45.2	
108 4-Isopropyltoluene	119	8.970	8.964	0.006	90	1314357	51.8	
109 1,4-Dichlorobenzene	146	9.025	9.025	0.0	93	681453	43.6	
110 1,2,3-Trimethylbenzene	105	9.074	9.074	0.0	0	1136853	46.5	
111 Benzyl chloride	91	9.153	9.153	0.0	96	331326	46.7	
112 n-Butylbenzene	91	9.366	9.366	0.0	95	1163882	49.0	
113 1,2-Dichlorobenzene	146	9.390	9.390	0.0	96	658406	45.7	
114 1,2-Dibromo-3-Chloropropane	157	10.236	10.236	0.0	85	61196	52.7	
115 1,3,5-Trichlorobenzene	180	10.497	10.497	0.0	97	575379	60.9	
116 1,2,4-Trichlorobenzene	180	11.197	11.197	0.0	94	471955	62.1	
117 Hexachlorobutadiene	225	11.379	11.379	0.0	94	257635	66.5	
118 Naphthalene	128	11.452	11.452	0.0	97	878849	53.2	
119 1,2,3-Trichlorobenzene	180	11.702	11.702	0.0	95	381462	58.6	
S 132 Xylenes, Total	1				0		92.2	
S 133 1,2-Dichloroethene, Total	1				0		92.5	

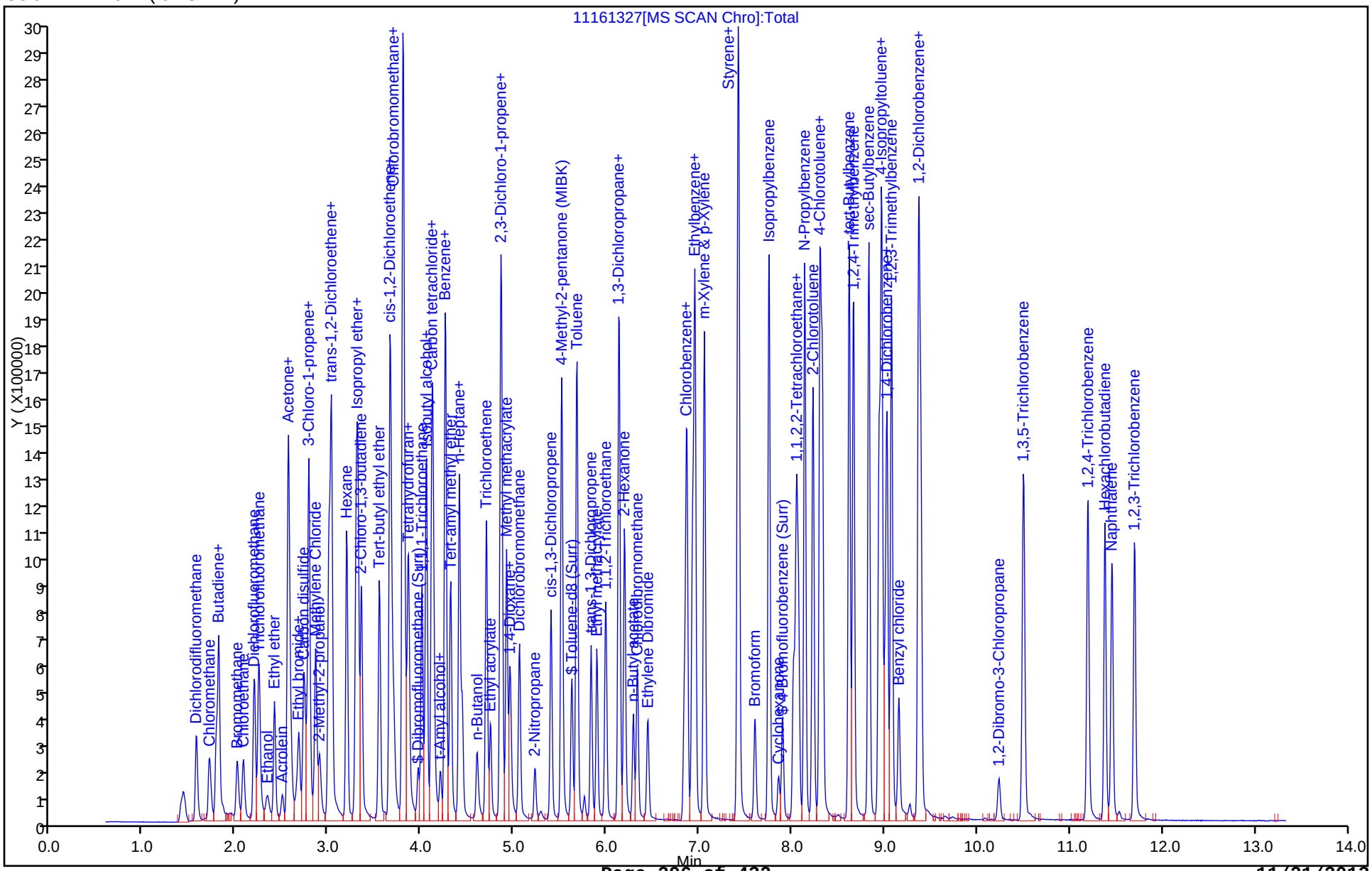
Report Date: 18-Nov-2013 12:15:54 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP34\20131116-28565.b\11161327.D

Injection Date:	17-Nov-2013 00:57:30	Instrument ID:	HP34	Operator ID:	JJR HP34
Lims ID:	490-39934-C-3 MSD	Lab Sample ID:	490-39934-3	Worklist Smp#:	48
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	8260HP34	Limit Group:	MSV 8260B ICAL		

Column: DB-624 (0.18 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Instrument ID: HP34 Start Date: 08/21/2013 11:04

Analysis Batch Number: 101606 End Date: 08/21/2013 16:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-101606/1		08/21/2013 11:04	1	08211306.D	DB-624 0.18(mm)
STD0005 490-101606/2 IC		08/21/2013 12:03	1	08211308.D	DB-624 0.18(mm)
STD001 490-101606/3 IC		08/21/2013 12:30	1	08211309.D	DB-624 0.18(mm)
STD002 490-101606/4 IC		08/21/2013 12:57	1	08211310.D	DB-624 0.18(mm)
STD005 490-101606/5 IC		08/21/2013 13:24	1	08211311.D	DB-624 0.18(mm)
STD010 490-101606/6 IC		08/21/2013 13:51	1	08211312.D	DB-624 0.18(mm)
ICIS 490-101606/7		08/21/2013 14:18	1	08211313.D	DB-624 0.18(mm)
STD050 490-101606/8 IC		08/21/2013 14:45	1	08211314.D	DB-624 0.18(mm)
ICV 490-101606/9		08/21/2013 15:12	1	08211315.D	DB-624 0.18(mm)
STD100 490-101606/10 IC		08/21/2013 15:39	1	08211316.D	DB-624 0.18(mm)
STD200 490-101606/11 IC		08/21/2013 16:06	1	08211317.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Instrument ID: HP34 Start Date: 11/16/2013 13:21

Analysis Batch Number: 122545 End Date: 11/17/2013 00:57

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-122545/1		11/16/2013 13:21	1	11161302.D	DB-624 0.18(mm)
CCVIS 490-122545/2		11/16/2013 13:47	1	11161303.D	DB-624 0.18(mm)
LCS 490-122545/3		11/16/2013 14:20	1	11161304.D	DB-624 0.18(mm)
MB 490-122545/5		11/16/2013 15:33	1	11161306.D	DB-624 0.18(mm)
ZZZZZ		11/16/2013 16:00	1		DB-624 0.18(mm)
ZZZZZ		11/16/2013 16:26	1		DB-624 0.18(mm)
ZZZZZ		11/16/2013 16:53	1		DB-624 0.18(mm)
ZZZZZ		11/16/2013 17:20	10		DB-624 0.18(mm)
ZZZZZ		11/16/2013 17:47	1		DB-624 0.18(mm)
ZZZZZ		11/16/2013 18:14	10		DB-624 0.18(mm)
ZZZZZ		11/16/2013 18:41	5		DB-624 0.18(mm)
ZZZZZ		11/16/2013 19:08	50		DB-624 0.18(mm)
ZZZZZ		11/16/2013 19:34	5		DB-624 0.18(mm)
ZZZZZ		11/16/2013 20:01	50		DB-624 0.18(mm)
490-39686-7	Trip Blank	11/16/2013 20:28	1	11161317.D	DB-624 0.18(mm)
ZZZZZ		11/16/2013 20:55	1		DB-624 0.18(mm)
ZZZZZ		11/16/2013 21:22	1		DB-624 0.18(mm)
ZZZZZ		11/16/2013 21:49	1		DB-624 0.18(mm)
ZZZZZ		11/16/2013 22:16	1		DB-624 0.18(mm)
490-39686-1	MW-04B-GW-001	11/16/2013 22:43	1	11161322.D	DB-624 0.18(mm)
490-39686-2	MW-04B-GW-002	11/16/2013 23:09	1	11161323.D	DB-624 0.18(mm)
490-39686-3	MW-08-GW-001	11/16/2013 23:36	1	11161324.D	DB-624 0.18(mm)
490-39686-5	MW-09-GW-001	11/17/2013 00:03	1	11161325.D	DB-624 0.18(mm)
490-39934-B-3 MS		11/17/2013 00:30	1	11161326.D	DB-624 0.18(mm)
490-39934-C-3 MSD		11/17/2013 00:57	1	11161327.D	DB-624 0.18(mm)

Method 8270C

Semivolatile Organic Compounds (GC/MS) by Method 8270C

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Matrix: Water Level: Low

GC Column (1): ZB-5MSi ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPH #
MW-04B-GW-001	490-39686-1	36	21	79	77	91	63
MW-04B-GW-002	490-39686-2	40	23	81	78	89	57
MW-08-GW-001	490-39686-3	33	20	69	73	85	57
MW-09-GW-001	490-39686-5	41	24	86	87	98	62
	MB 490-121117/1-A	10	18	66	62	16	81
	LCS 490-121117/2-A	41	27	69	71	82	78

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	10-120
PHL = Phenol-d5 (Surr)	10-120
NBZ = Nitrobenzene-d5 (Surr)	27-120
FBP = 2-Fluorobiphenyl (Surr)	29-120
TBP = 2,4,6-Tribromophenol (Surr)	10-120
TPH = Terphenyl-d14 (Surr)	13-120

Column to be used to flag recovery values

FORM II 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 1112005.D

Lab ID: LCS 490-121117/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	50.0	38.57	77	46-120	
Acenaphthylene	50.0	37.66	75	48-120	
Acetophenone	50.0	34.97	70	52-133	
Anthracene	50.0	39.10	78	58-130	
Atrazine	50.0	38.51	77	24-133	
Benzaldehyde	50.0	72.54	145	34-120	*
Benzo[a]anthracene	50.0	40.15	80	57-120	
Benzo[a]pyrene	50.0	39.50	79	57-124	
Benzo[b]fluoranthene	50.0	37.66	75	51-125	
Benzo[g,h,i]perylene	50.0	39.54	79	51-123	
Benzo[k]fluoranthene	50.0	41.78	84	51-120	
Biphenyl	50.0	34.23	68	10-146	
Bis(2-chloroethoxy)methane	50.0	34.07	68	44-120	
Bis(2-chloroethyl)ether	50.0	33.27	67	47-120	
bis (2-chloroisopropyl) ether	50.0	24.96	50	44-120	
Bis(2-ethylhexyl) phthalate	50.0	42.15	84	47-138	
4-Bromophenyl phenyl ether	50.0	39.47	79	47-127	
Butyl benzyl phthalate	50.0	42.65	85	51-146	
Caprolactam	50.0	11.47	23	10-120	
Carbazole	50.0	39.48	79	54-123	
4-Chloroaniline	50.0	31.54	63	44-120	
4-Chloro-3-methylphenol	50.0	37.43	75	44-120	
2-Chloronaphthalene	50.0	34.66	69	39-120	
2-Chlorophenol	50.0	31.23	62	40-120	
4-Chlorophenyl phenyl ether	50.0	38.44	77	50-120	
Chrysene	50.0	41.84	84	55-120	
Dibenz(a,h)anthracene	50.0	39.26	79	50-125	
Dibenzofuran	50.0	38.00	76	50-120	
3,3'-Dichlorobenzidine	50.0	33.04	66	46-129	
2,4-Dichlorophenol	50.0	36.86	74	38-120	
Diethyl phthalate	50.0	39.70	79	54-128	
2,4-Dimethylphenol	50.0	28.25	56	21-126	
Dimethyl phthalate	50.0	40.08	80	53-127	
Di-n-butyl phthalate	50.0	40.84	82	54-140	
4,6-Dinitro-2-methylphenol	100	80.88	81	19-150	
2,4-Dinitrophenol	100	84.66	85	20-150	
2,4-Dinitrotoluene	50.0	41.08	82	46-132	
2,6-Dinitrotoluene	50.0	42.78	86	54-128	
Di-n-octyl phthalate	50.0	43.70	87	50-142	
Fluoranthene	50.0	40.87	82	56-120	
Fluorene	50.0	38.94	78	52-120	
Hexachlorobenzene	50.0	40.13	80	48-131	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 1112005.D

Lab ID: LCS 490-121117/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Hexachlorobutadiene	50.0	17.45	35	28-120	
Hexachlorocyclopentadiene	50.0	24.86	50	17-120	
Hexachloroethane	50.0	15.45	31	30-120	
Indeno[1,2,3-cd]pyrene	50.0	39.07	78	54-125	
Isophorone	50.0	38.46	77	47-120	
2-Methylnaphthalene	50.0	28.73	57	31-120	
2-Methylphenol	50.0	30.18	60	38-120	
3 & 4 Methylphenol	50.0	28.46	57	33-120	
Naphthalene	50.0	25.10	50	37-120	
2-Nitroaniline	50.0	43.70	87	46-131	
3-Nitroaniline	50.0	39.98	80	54-121	
4-Nitroaniline	50.0	41.75	83	55-123	
Nitrobenzene	50.0	33.77	68	36-120	
2-Nitrophenol	50.0	35.33	71	32-120	
4-Nitrophenol	100	32.71	33	10-120	
N-Nitrosodi-n-propylamine	50.0	36.53	73	51-120	
n-Nitrosodiphenylamine(as diphenylamine)	50.0	48.36	97	58-149	
Pentachlorophenol	100	82.42	82	21-150	
Phenanthrene	50.0	39.23	78	56-120	
Phenol	50.0	14.49	29	14-120	
Pyrene	50.0	40.64	81	53-129	
2,4,5-Trichlorophenol	50.0	40.28	81	40-129	
2,4,6-Trichlorophenol	50.0	40.52	81	39-135	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Lab File ID: 1112004.D Lab Sample ID: MB 490-121117/1-A

Matrix: Water Date Extracted: 11/12/2013 07:14

Instrument ID: HP83 Date Analyzed: 11/12/2013 18:12

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 490-121117/2-A	1112005.D	11/12/2013 18:34
MW-04B-GW-001	490-39686-1	1112010.D	11/12/2013 20:25
MW-04B-GW-002	490-39686-2	1112011.D	11/12/2013 20:47
MW-08-GW-001	490-39686-3	1112012.D	11/12/2013 21:10
MW-09-GW-001	490-39686-5	1112013.D	11/12/2013 21:32

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Lab File ID: 1022002.D DFTPP Injection Date: 10/24/2013

Instrument ID: HP83 DFTPP Injection Time: 13:34

Analysis Batch No.: 116774

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	34.1	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	50.8	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	40.0 - 60.0 % of mass 198	47.6	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.9	
275	10.0 - 30.0 % of mass 198	26.6	
365	Greater than 1.0 % of mass 198	2.7	
441	Present but less than mass 443	8.2	(83.3)3
442	Greater than 40.0 % of mass 198	48.1	
443	17.0 - 23.0 % of mass 442	9.8	(20.4)2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD1 490-116774/3	1022003.D	10/24/2013	13:51
	STD2 490-116774/4	1022004.D	10/24/2013	14:14
	STD3 490-116774/5	1022005.D	10/24/2013	14:36
	ICIS 490-116774/6	1022006.D	10/24/2013	14:59
	STD5 490-116774/7	1022007.D	10/24/2013	15:21
	STD6 490-116774/8	1022008.D	10/24/2013	15:44
	ICV 490-116774/9	1022009.D	10/24/2013	16:06

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Lab File ID: 1112002b.D DFTPP Injection Date: 11/12/2013

Instrument ID: HP83 DFTPP Injection Time: 17:21

Analysis Batch No.: 121257

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	31.0	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	47.3	
70	Less than 2.0 % of mass 69	0.1	(0.3)1
127	40.0 - 60.0 % of mass 198	45.3	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	7.0	
275	10.0 - 30.0 % of mass 198	28.3	
365	Greater than 1.0 % of mass 198	3.1	
441	Present but less than mass 443	9.9	(79.2)3
442	Greater than 40.0 % of mass 198	61.0	
443	17.0 - 23.0 % of mass 442	12.5	(20.4)2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-121257/3	1112003b.D	11/12/2013	17:37
	MB 490-121117/1-A	1112004.D	11/12/2013	18:12
	LCS 490-121117/2-A	1112005.D	11/12/2013	18:34
MW-04B-GW-001	490-39686-1	1112010.D	11/12/2013	20:25
MW-04B-GW-002	490-39686-2	1112011.D	11/12/2013	20:47
MW-08-GW-001	490-39686-3	1112012.D	11/12/2013	21:10
MW-09-GW-001	490-39686-5	1112013.D	11/12/2013	21:32

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Sample No.: ICIS 490-116774/6 Date Analyzed: 10/24/2013 14:59

Instrument ID: HP83 GC Column: ZB-5MSi ID: 0.25(mm)

Lab File ID (Standard): 1022006.D Heated Purge: (Y/N) N

Calibration ID: 19923

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		30852	3.81	129669	4.60	89150	5.74
UPPER LIMIT		61704	4.31	259338	5.10	178300	6.24
LOWER LIMIT		15426	3.31	64835	4.10	44575	5.24
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 490-116774/9		26028	3.81	111727	4.60	76728	5.74
CCVIS 490-121257/3		32984	3.59	137494	4.38	95539	5.49

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Sample No.: ICIS 490-116774/6 Date Analyzed: 10/24/2013 14:59

Instrument ID: HP83 GC Column: ZB-5MSi ID: 0.25(mm)

Lab File ID (Standard): 1022006.D Heated Purge: (Y/N) N

Calibration ID: 19923

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		177018	6.83	243911	8.92	246383	9.99
UPPER LIMIT		354036	7.33	487822	9.42	492766	10.49
LOWER LIMIT		88509	6.33	121956	8.42	123192	9.49
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 490-116774/9		157620	6.83	212483	8.92	223821	9.99
CCVIS 490-121257/3		189286	6.56	253212	8.64	252754	9.70

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Sample No.: CCVIS 490-121257/3 Date Analyzed: 11/12/2013 17:37

Instrument ID: HP83 GC Column: ZB-5MSi ID: 0.25(mm)

Lab File ID (Standard): 1112003b.D Heated Purge: (Y/N) N

Calibration ID: 19923

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		32984	3.59	137494	4.38	95539	5.49
UPPER LIMIT		65968	4.09	274988	4.88	191078	5.99
LOWER LIMIT		16492	3.09	68747	3.88	47770	4.99
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 490-121117/1-A		31208	3.59	123270	4.38	85321	5.49
LCS 490-121117/2-A		30801	3.58	132428	4.38	89607	5.49
490-39686-1	MW-04B-GW-001	27790	3.58	112511	4.38	77550	5.49
490-39686-2	MW-04B-GW-002	30714	3.58	123768	4.38	83604	5.49
490-39686-3	MW-08-GW-001	29252	3.58	119973	4.37	82740	5.49
490-39686-5	MW-09-GW-001	29142	3.58	123039	4.38	83204	5.49

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Sample No.: CCVIS 490-121257/3 Date Analyzed: 11/12/2013 17:37

Instrument ID: HP83 GC Column: ZB-5MSi ID: 0.25(mm)

Lab File ID (Standard): 1112003b.D Heated Purge: (Y/N) N

Calibration ID: 19923

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		189286	6.56	253212	8.64	252754	9.70
UPPER LIMIT		378572	7.06	506424	9.14	505508	10.20
LOWER LIMIT		94643	6.06	126606	8.14	126377	9.20
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 490-121117/1-A		168920	6.56	224845	8.64	225855	9.70
LCS 490-121117/2-A		182106	6.56	248070	8.64	251528	9.70
490-39686-1	MW-04B-GW-001	151388	6.55	201859	8.64	210349	9.69
490-39686-2	MW-04B-GW-002	162016	6.55	221089	8.64	233945	9.69
490-39686-3	MW-08-GW-001	161616	6.55	224397	8.64	235414	9.69
490-39686-5	MW-09-GW-001	163643	6.55	225893	8.64	227802	9.69

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: MW-04B-GW-001 | Lab Sample ID: 490-39686-1

Matrix: Water | Lab File ID: 1112010.D

Analysis Method: 8270C | Date Collected: 11/06/2013 15:42

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:20

Sample wt/vol: 1060(mL) | Date Analyzed: 11/12/2013 20:25

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		1.89	0.345
208-96-8	Acenaphthylene	ND		1.89	0.311
98-86-2	Acetophenone	ND		9.43	1.79
120-12-7	Anthracene	ND		1.89	0.833
1912-24-9	Atrazine	ND		9.43	3.49
100-52-7	Benzaldehyde	ND	*	9.43	2.03
56-55-3	Benzo[a]anthracene	ND		1.89	0.306
50-32-8	Benzo[a]pyrene	ND		1.89	0.311
205-99-2	Benzo[b]fluoranthene	ND		1.89	0.398
191-24-2	Benzo[g,h,i]perylene	ND		1.89	0.271
207-08-9	Benzo[k]fluoranthene	ND		1.89	0.343
92-52-4	Biphenyl	ND		9.43	3.14
111-91-1	Bis(2-chloroethoxy)methane	ND		9.43	1.28
111-44-4	Bis(2-chloroethyl)ether	ND		9.43	1.31
108-60-1	bis (2-chloroisopropyl) ether	ND		9.43	1.85
117-81-7	Bis(2-ethylhexyl) phthalate	ND		9.43	1.94
101-55-3	4-Bromophenyl phenyl ether	ND		9.43	1.29
85-68-7	Butyl benzyl phthalate	ND		9.43	1.64
105-60-2	Caprolactam	ND		9.43	3.14
86-74-8	Carbazole	ND		9.43	0.282
106-47-8	4-Chloroaniline	ND		9.43	1.10
59-50-7	4-Chloro-3-methylphenol	ND		9.43	3.14
91-58-7	2-Chloronaphthalene	ND		9.43	1.55
95-57-8	2-Chlorophenol	ND		9.43	1.50
7005-72-3	4-Chlorophenyl phenyl ether	ND		9.43	1.65
218-01-9	Chrysene	ND		1.89	1.03
53-70-3	Dibenz(a,h)anthracene	ND		1.89	0.608
132-64-9	Dibenzofuran	ND		9.43	0.320
91-94-1	3,3'-Dichlorobenzidine	ND		9.43	1.43
120-83-2	2,4-Dichlorophenol	ND		9.43	0.962
84-66-2	Diethyl phthalate	ND		9.43	1.53
105-67-9	2,4-Dimethylphenol	ND		9.43	0.940
131-11-3	Dimethyl phthalate	ND		9.43	1.71
84-74-2	Di-n-butyl phthalate	ND		9.43	1.42

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: MW-04B-GW-001 | Lab Sample ID: 490-39686-1

Matrix: Water | Lab File ID: 1112010.D

Analysis Method: 8270C | Date Collected: 11/06/2013 15:42

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:20

Sample wt/vol: 1060(mL) | Date Analyzed: 11/12/2013 20:25

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
534-52-1	4,6-Dinitro-2-methylphenol	ND		23.6	1.95
51-28-5	2,4-Dinitrophenol	ND		23.6	2.32
121-14-2	2,4-Dinitrotoluene	ND		9.43	3.14
606-20-2	2,6-Dinitrotoluene	ND		9.43	1.83
117-84-0	Di-n-octyl phthalate	ND		9.43	2.18
206-44-0	Fluoranthene	ND		1.89	0.327
86-73-7	Fluorene	ND		1.89	0.298
118-74-1	Hexachlorobenzene	ND		9.43	1.59
87-68-3	Hexachlorobutadiene	ND		9.43	3.14
77-47-4	Hexachlorocyclopentadiene	ND		9.43	3.14
67-72-1	Hexachloroethane	ND		9.43	3.14
193-39-5	Indeno[1,2,3-cd]pyrene	ND		1.89	0.359
78-59-1	Isophorone	ND		9.43	1.17
91-57-6	2-Methylnaphthalene	ND		1.89	0.293
95-48-7	2-Methylphenol	ND		9.43	3.14
15831-10-4	3 & 4 Methylphenol	ND		9.43	3.14
91-20-3	Naphthalene	ND		1.89	0.375
88-74-4	2-Nitroaniline	ND		23.6	0.981
99-09-2	3-Nitroaniline	ND		23.6	1.75
100-01-6	4-Nitroaniline	ND		23.6	2.25
98-95-3	Nitrobenzene	ND		9.43	1.17
88-75-5	2-Nitrophenol	ND		9.43	1.48
100-02-7	4-Nitrophenol	ND		23.6	3.14
621-64-7	N-Nitrosodi-n-propylamine	ND		9.43	1.34
86-30-6	n-Nitrosodiphenylamine(as diphenylamine)	ND		9.43	1.36
87-86-5	Pentachlorophenol	ND		23.6	1.56
85-01-8	Phenanthrene	ND		1.89	0.324
108-95-2	Phenol	ND		9.43	3.25
129-00-0	Pyrene	ND		1.89	0.312
95-95-4	2,4,5-Trichlorophenol	ND		23.6	1.92
88-06-2	2,4,6-Trichlorophenol	ND		9.43	1.66

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: MW-04B-GW-001 | Lab Sample ID: 490-39686-1

Matrix: Water | Lab File ID: 1112010.D

Analysis Method: 8270C | Date Collected: 11/06/2013 15:42

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:20

Sample wt/vol: 1060(mL) | Date Analyzed: 11/12/2013 20:25

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	77		29-120
367-12-4	2-Fluorophenol (Surr)	36		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	79		27-120
4165-62-2	Phenol-d5 (Surr)	21		10-120
1718-51-0	Terphenyl-d14 (Surr)	63		13-120
118-79-6	2,4,6-Tribromophenol (Surr)	91		10-120

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112010.D
Lims ID: 490-39686-U-1-A Lab Sample ID: 490-39686-1
Client ID: MW-04B-GW-001
Sample Type: Client
Inject. Date: 12-Nov-2013 20:25:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 490-39686-U-1-A
Misc. Info.: 490-0028283-010
Operator ID: HP83 Instrument ID: HP83

Method: \\Nvlchrom\ChromData\HP83\20131112-28283.b\8270HP83.m
Limit Group: MSS 8270C ICAL
Last Update: 13-Nov-2013 11:18:44 Calib Date: 24-Oct-2013 15:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D

Column 1 : Detector MS SCAN
Process Host: XAWRK019

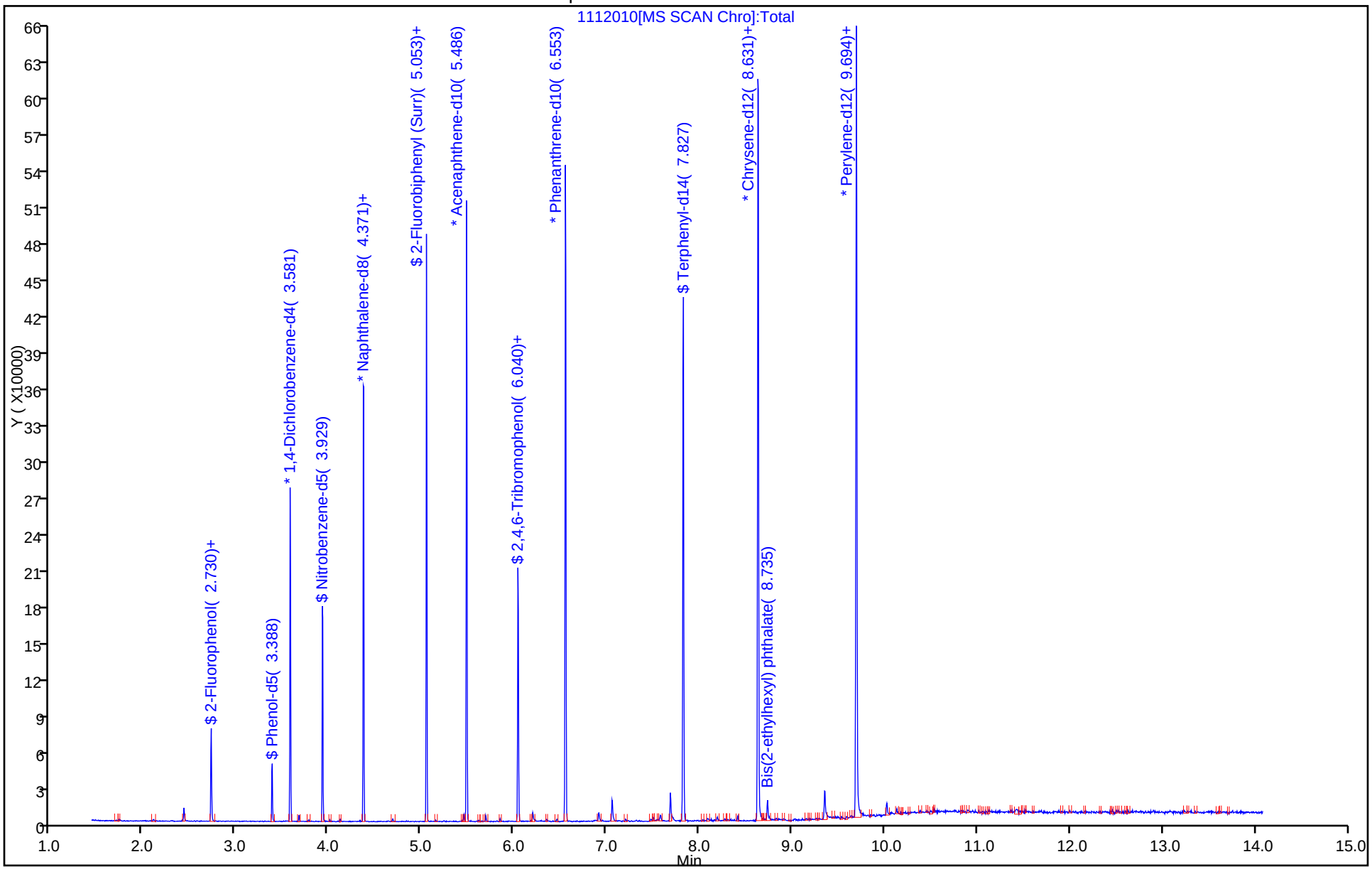
First Level Reviewer: salomonb Date: 13-Nov-2013 11:22:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.581	3.586	-0.005	97	27790	40.0	
$ 21 2-Fluorophenol	112	2.730	2.730	0.0	90	14811	18.1	
$ 22 Phenol-d5	99	3.388	3.389	-0.001	0	11778	10.5	
* 37 Naphthalene-d8	136	4.376	4.376	0.0	99	112511	40.0	
$ 49 Nitrobenzene-d5	82	3.929	3.934	-0.005	88	41361	39.4	
* 69 Acenaphthene-d10	164	5.486	5.490	-0.004	85	77550	40.0	
$ 83 2-Fluorobiphenyl (Surr)	172	5.053	5.058	-0.005	100	94703	38.4	
* 102 Phenanthrene-d10	188	6.553	6.558	-0.005	97	151388	40.0	
$ 127 2,4,6-Tribromophenol	330	6.045	6.050	-0.005	90	15810	45.7	
* 136 Chrysene-d12	240	8.636	8.641	-0.005	84	201859	40.0	
$ 147 Terphenyl-d14	244	7.827	7.828	-0.001	96	119012	31.7	
155 Bis(2-ethylhexyl) phthalate	149	8.735	8.740	-0.005	88	4085	1.53	
* 156 Perylene-d12	264	9.694	9.699	-0.005	83	210349	40.0	

Report Date: 13-Nov-2013 11:22:17 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP83\20131112-28283.b\1112010.D				
Injection Date:	12-Nov-2013 20:25:30	Instrument ID:	HP83	Operator ID:	HP83
Lims ID:	490-39686-U-1-A	Lab Sample ID:	490-39686-1	Worklist Smp#:	10
Client ID:	MW-04B-GW-001				
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8270HP83	Limit Group:	MSS 8270C ICAL		



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: MW-04B-GW-002 | Lab Sample ID: 490-39686-2

Matrix: Water | Lab File ID: 1112011.D

Analysis Method: 8270C | Date Collected: 11/06/2013 15:42

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:20

Sample wt/vol: 1060(mL) | Date Analyzed: 11/12/2013 20:47

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		1.89	0.345
208-96-8	Acenaphthylene	ND		1.89	0.311
98-86-2	Acetophenone	ND		9.43	1.79
120-12-7	Anthracene	ND		1.89	0.833
1912-24-9	Atrazine	ND		9.43	3.49
100-52-7	Benzaldehyde	ND	*	9.43	2.03
56-55-3	Benzo[a]anthracene	ND		1.89	0.306
50-32-8	Benzo[a]pyrene	ND		1.89	0.311
205-99-2	Benzo[b]fluoranthene	ND		1.89	0.398
191-24-2	Benzo[g,h,i]perylene	ND		1.89	0.271
207-08-9	Benzo[k]fluoranthene	ND		1.89	0.343
92-52-4	Biphenyl	ND		9.43	3.14
111-91-1	Bis(2-chloroethoxy)methane	ND		9.43	1.28
111-44-4	Bis(2-chloroethyl)ether	ND		9.43	1.31
108-60-1	bis (2-chloroisopropyl) ether	ND		9.43	1.85
117-81-7	Bis(2-ethylhexyl) phthalate	14.1		9.43	1.94
101-55-3	4-Bromophenyl phenyl ether	ND		9.43	1.29
85-68-7	Butyl benzyl phthalate	ND		9.43	1.64
105-60-2	Caprolactam	ND		9.43	3.14
86-74-8	Carbazole	ND		9.43	0.282
106-47-8	4-Chloroaniline	ND		9.43	1.10
59-50-7	4-Chloro-3-methylphenol	ND		9.43	3.14
91-58-7	2-Chloronaphthalene	ND		9.43	1.55
95-57-8	2-Chlorophenol	ND		9.43	1.50
7005-72-3	4-Chlorophenyl phenyl ether	ND		9.43	1.65
218-01-9	Chrysene	ND		1.89	1.03
53-70-3	Dibenz(a,h)anthracene	ND		1.89	0.608
132-64-9	Dibenzofuran	ND		9.43	0.320
91-94-1	3,3'-Dichlorobenzidine	ND		9.43	1.43
120-83-2	2,4-Dichlorophenol	ND		9.43	0.962
84-66-2	Diethyl phthalate	ND		9.43	1.53
105-67-9	2,4-Dimethylphenol	ND		9.43	0.940
131-11-3	Dimethyl phthalate	ND		9.43	1.71
84-74-2	Di-n-butyl phthalate	ND		9.43	1.42

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: MW-04B-GW-002 | Lab Sample ID: 490-39686-2

Matrix: Water | Lab File ID: 1112011.D

Analysis Method: 8270C | Date Collected: 11/06/2013 15:42

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:20

Sample wt/vol: 1060(mL) | Date Analyzed: 11/12/2013 20:47

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
534-52-1	4,6-Dinitro-2-methylphenol	ND		23.6	1.95
51-28-5	2,4-Dinitrophenol	ND		23.6	2.32
121-14-2	2,4-Dinitrotoluene	ND		9.43	3.14
606-20-2	2,6-Dinitrotoluene	ND		9.43	1.83
117-84-0	Di-n-octyl phthalate	ND		9.43	2.18
206-44-0	Fluoranthene	ND		1.89	0.327
86-73-7	Fluorene	ND		1.89	0.298
118-74-1	Hexachlorobenzene	ND		9.43	1.59
87-68-3	Hexachlorobutadiene	ND		9.43	3.14
77-47-4	Hexachlorocyclopentadiene	ND		9.43	3.14
67-72-1	Hexachloroethane	ND		9.43	3.14
193-39-5	Indeno[1,2,3-cd]pyrene	ND		1.89	0.359
78-59-1	Isophorone	ND		9.43	1.17
91-57-6	2-Methylnaphthalene	ND		1.89	0.293
95-48-7	2-Methylphenol	ND		9.43	3.14
15831-10-4	3 & 4 Methylphenol	ND		9.43	3.14
91-20-3	Naphthalene	ND		1.89	0.375
88-74-4	2-Nitroaniline	ND		23.6	0.981
99-09-2	3-Nitroaniline	ND		23.6	1.75
100-01-6	4-Nitroaniline	ND		23.6	2.25
98-95-3	Nitrobenzene	ND		9.43	1.17
88-75-5	2-Nitrophenol	ND		9.43	1.48
100-02-7	4-Nitrophenol	ND		23.6	3.14
621-64-7	N-Nitrosodi-n-propylamine	ND		9.43	1.34
86-30-6	n-Nitrosodiphenylamine(as diphenylamine)	ND		9.43	1.36
87-86-5	Pentachlorophenol	ND		23.6	1.56
85-01-8	Phenanthrene	ND		1.89	0.324
108-95-2	Phenol	ND		9.43	3.25
129-00-0	Pyrene	ND		1.89	0.312
95-95-4	2,4,5-Trichlorophenol	ND		23.6	1.92
88-06-2	2,4,6-Trichlorophenol	ND		9.43	1.66

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: MW-04B-GW-002 | Lab Sample ID: 490-39686-2

Matrix: Water | Lab File ID: 1112011.D

Analysis Method: 8270C | Date Collected: 11/06/2013 15:42

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:20

Sample wt/vol: 1060(mL) | Date Analyzed: 11/12/2013 20:47

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	78		29-120
367-12-4	2-Fluorophenol (Surr)	40		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	81		27-120
4165-62-2	Phenol-d5 (Surr)	23		10-120
1718-51-0	Terphenyl-d14 (Surr)	57		13-120
118-79-6	2,4,6-Tribromophenol (Surr)	89		10-120

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112011.D
Lims ID: 490-39686-U-2-A Lab Sample ID: 490-39686-2
Client ID: MW-04B-GW-002
Sample Type: Client
Inject. Date: 12-Nov-2013 20:47:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 490-39686-U-2-A
Misc. Info.: 490-0028283-011
Operator ID: HP83 Instrument ID: HP83

Method: \\Nvlchrom\ChromData\HP83\20131112-28283.b\8270HP83.m
Limit Group: MSS 8270C ICAL
Last Update: 13-Nov-2013 11:18:44 Calib Date: 24-Oct-2013 15:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D

Column 1 : Detector MS SCAN
Process Host: XAWRK019

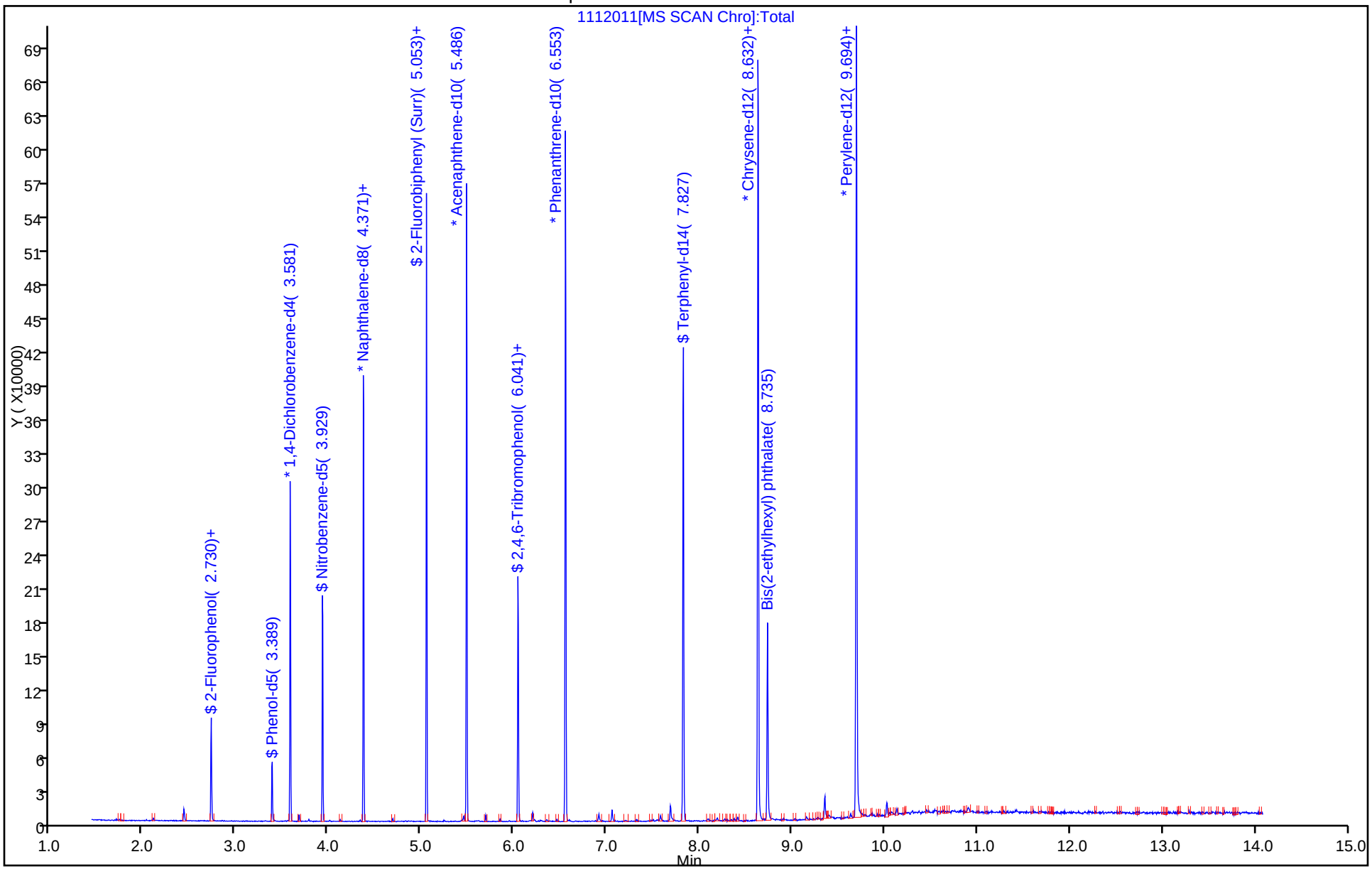
First Level Reviewer: salomonb Date: 13-Nov-2013 11:22:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.581	3.586	-0.005	94	30714	40.0	
$ 21 2-Fluorophenol	112	2.730	2.730	0.0	89	18005	19.9	
$ 22 Phenol-d5	99	3.389	3.389	0.0	0	14155	11.4	
* 37 Naphthalene-d8	136	4.376	4.376	0.0	99	123768	40.0	
$ 49 Nitrobenzene-d5	82	3.929	3.934	-0.005	86	46526	40.3	
* 69 Acenaphthene-d10	164	5.486	5.490	-0.004	92	83604	40.0	
$ 83 2-Fluorobiphenyl (Surr)	172	5.053	5.058	-0.005	100	103979	39.1	
* 102 Phenanthrene-d10	188	6.553	6.558	-0.005	97	162016	40.0	
$ 127 2,4,6-Tribromophenol	330	6.045	6.050	-0.005	90	16513	44.6	
* 136 Chrysene-d12	240	8.636	8.641	-0.005	81	221089	40.0	
$ 147 Terphenyl-d14	244	7.827	7.828	-0.001	96	117714	28.6	
155 Bis(2-ethylhexyl) phthalate	149	8.735	8.740	-0.005	95	43692	14.9	
* 156 Perylene-d12	264	9.694	9.699	-0.005	84	233945	40.0	

Report Date: 13-Nov-2013 11:22:51 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP83\20131112-28283.b\1112011.D				
Injection Date:	12-Nov-2013 20:47:30	Instrument ID:	HP83	Operator ID:	HP83
Lims ID:	490-39686-U-2-A	Lab Sample ID:	490-39686-2	Worklist Smp#:	11
Client ID:	MW-04B-GW-002				
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8270HP83	Limit Group:	MSS 8270C ICAL		



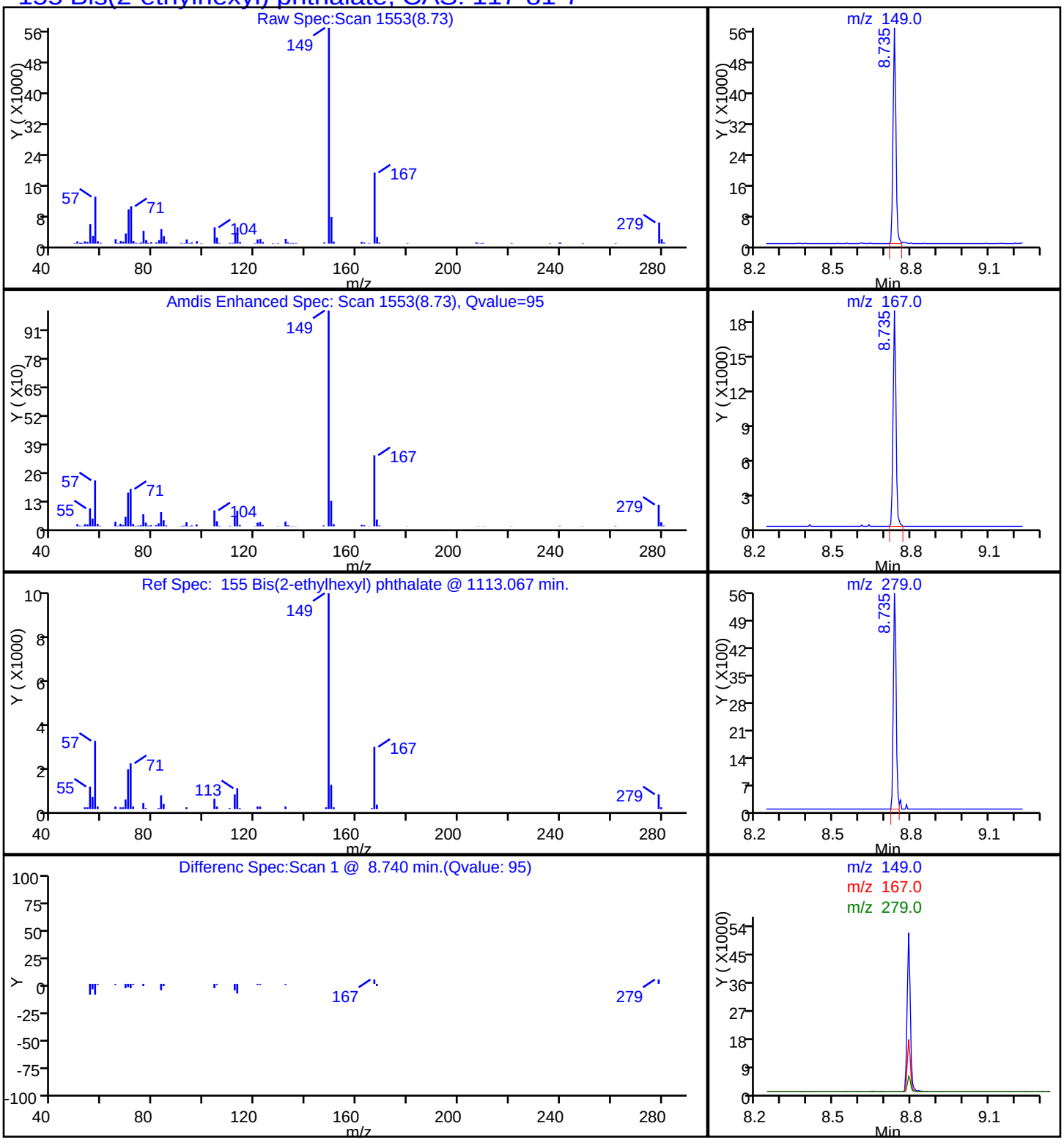
Report Date: 13-Nov-2013 11:22:51 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112011.D

Injection Date:	12-Nov-2013 20:47:30	Instrument ID:	HP83		
Lims ID:	490-39686-U-2-A	Lab Sample ID:	490-39686-2		
Client ID:	MW-04B-GW-002				
Operator ID:	HP83	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	8270HP83	Limit Group:	MSS 8270C ICAL		
Column:		Detector	MS SCAN		

155 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: MW-08-GW-001 | Lab Sample ID: 490-39686-3

Matrix: Water | Lab File ID: 1112012.D

Analysis Method: 8270C | Date Collected: 11/06/2013 11:08

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:20

Sample wt/vol: 1060(mL) | Date Analyzed: 11/12/2013 21:10

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		1.89	0.345
208-96-8	Acenaphthylene	ND		1.89	0.311
98-86-2	Acetophenone	ND		9.43	1.79
120-12-7	Anthracene	ND		1.89	0.833
1912-24-9	Atrazine	ND		9.43	3.49
100-52-7	Benzaldehyde	ND	*	9.43	2.03
56-55-3	Benzo[a]anthracene	ND		1.89	0.306
50-32-8	Benzo[a]pyrene	ND		1.89	0.311
205-99-2	Benzo[b]fluoranthene	ND		1.89	0.398
191-24-2	Benzo[g,h,i]perylene	ND		1.89	0.271
207-08-9	Benzo[k]fluoranthene	ND		1.89	0.343
92-52-4	Biphenyl	ND		9.43	3.14
111-91-1	Bis(2-chloroethoxy)methane	ND		9.43	1.28
111-44-4	Bis(2-chloroethyl)ether	ND		9.43	1.31
108-60-1	bis (2-chloroisopropyl) ether	ND		9.43	1.85
117-81-7	Bis(2-ethylhexyl) phthalate	3.96	J	9.43	1.94
101-55-3	4-Bromophenyl phenyl ether	ND		9.43	1.29
85-68-7	Butyl benzyl phthalate	ND		9.43	1.64
105-60-2	Caprolactam	6.38	J	9.43	3.14
86-74-8	Carbazole	ND		9.43	0.282
106-47-8	4-Chloroaniline	ND		9.43	1.10
59-50-7	4-Chloro-3-methylphenol	ND		9.43	3.14
91-58-7	2-Chloronaphthalene	ND		9.43	1.55
95-57-8	2-Chlorophenol	ND		9.43	1.50
7005-72-3	4-Chlorophenyl phenyl ether	ND		9.43	1.65
218-01-9	Chrysene	ND		1.89	1.03
53-70-3	Dibenz(a,h)anthracene	ND		1.89	0.608
132-64-9	Dibenzofuran	ND		9.43	0.320
91-94-1	3,3'-Dichlorobenzidine	ND		9.43	1.43
120-83-2	2,4-Dichlorophenol	ND		9.43	0.962
84-66-2	Diethyl phthalate	ND		9.43	1.53
105-67-9	2,4-Dimethylphenol	ND		9.43	0.940
131-11-3	Dimethyl phthalate	ND		9.43	1.71
84-74-2	Di-n-butyl phthalate	ND		9.43	1.42

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: MW-08-GW-001 | Lab Sample ID: 490-39686-3

Matrix: Water | Lab File ID: 1112012.D

Analysis Method: 8270C | Date Collected: 11/06/2013 11:08

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:20

Sample wt/vol: 1060(mL) | Date Analyzed: 11/12/2013 21:10

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
534-52-1	4,6-Dinitro-2-methylphenol	ND		23.6	1.95
51-28-5	2,4-Dinitrophenol	ND		23.6	2.32
121-14-2	2,4-Dinitrotoluene	ND		9.43	3.14
606-20-2	2,6-Dinitrotoluene	ND		9.43	1.83
117-84-0	Di-n-octyl phthalate	ND		9.43	2.18
206-44-0	Fluoranthene	ND		1.89	0.327
86-73-7	Fluorene	ND		1.89	0.298
118-74-1	Hexachlorobenzene	ND		9.43	1.59
87-68-3	Hexachlorobutadiene	ND		9.43	3.14
77-47-4	Hexachlorocyclopentadiene	ND		9.43	3.14
67-72-1	Hexachloroethane	ND		9.43	3.14
193-39-5	Indeno[1,2,3-cd]pyrene	ND		1.89	0.359
78-59-1	Isophorone	ND		9.43	1.17
91-57-6	2-Methylnaphthalene	ND		1.89	0.293
95-48-7	2-Methylphenol	ND		9.43	3.14
15831-10-4	3 & 4 Methylphenol	ND		9.43	3.14
91-20-3	Naphthalene	ND		1.89	0.375
88-74-4	2-Nitroaniline	ND		23.6	0.981
99-09-2	3-Nitroaniline	ND		23.6	1.75
100-01-6	4-Nitroaniline	ND		23.6	2.25
98-95-3	Nitrobenzene	ND		9.43	1.17
88-75-5	2-Nitrophenol	ND		9.43	1.48
100-02-7	4-Nitrophenol	ND		23.6	3.14
621-64-7	N-Nitrosodi-n-propylamine	ND		9.43	1.34
86-30-6	n-Nitrosodiphenylamine(as diphenylamine)	ND		9.43	1.36
87-86-5	Pentachlorophenol	ND		23.6	1.56
85-01-8	Phenanthrene	ND		1.89	0.324
108-95-2	Phenol	ND		9.43	3.25
129-00-0	Pyrene	ND		1.89	0.312
95-95-4	2,4,5-Trichlorophenol	ND		23.6	1.92
88-06-2	2,4,6-Trichlorophenol	ND		9.43	1.66

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: MW-08-GW-001 | Lab Sample ID: 490-39686-3

Matrix: Water | Lab File ID: 1112012.D

Analysis Method: 8270C | Date Collected: 11/06/2013 11:08

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:20

Sample wt/vol: 1060(mL) | Date Analyzed: 11/12/2013 21:10

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	73		29-120
367-12-4	2-Fluorophenol (Surr)	33		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	69		27-120
4165-62-2	Phenol-d5 (Surr)	20		10-120
1718-51-0	Terphenyl-d14 (Surr)	57		13-120
118-79-6	2,4,6-Tribromophenol (Surr)	85		10-120

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112012.D
Lims ID: 490-39686-V-3-A Lab Sample ID: 490-39686-3
Client ID: MW-08-GW-001
Sample Type: Client
Inject. Date: 12-Nov-2013 21:10:30 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 490-39686-V-3-A
Misc. Info.: 490-0028283-012
Operator ID: HP83 Instrument ID: HP83

Method: \\Nvlchrom\ChromData\HP83\20131112-28283.b\8270HP83.m
Limit Group: MSS 8270C ICAL
Last Update: 13-Nov-2013 11:18:44 Calib Date: 24-Oct-2013 15:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D

Column 1 : Detector MS SCAN
Process Host: XAWRK019

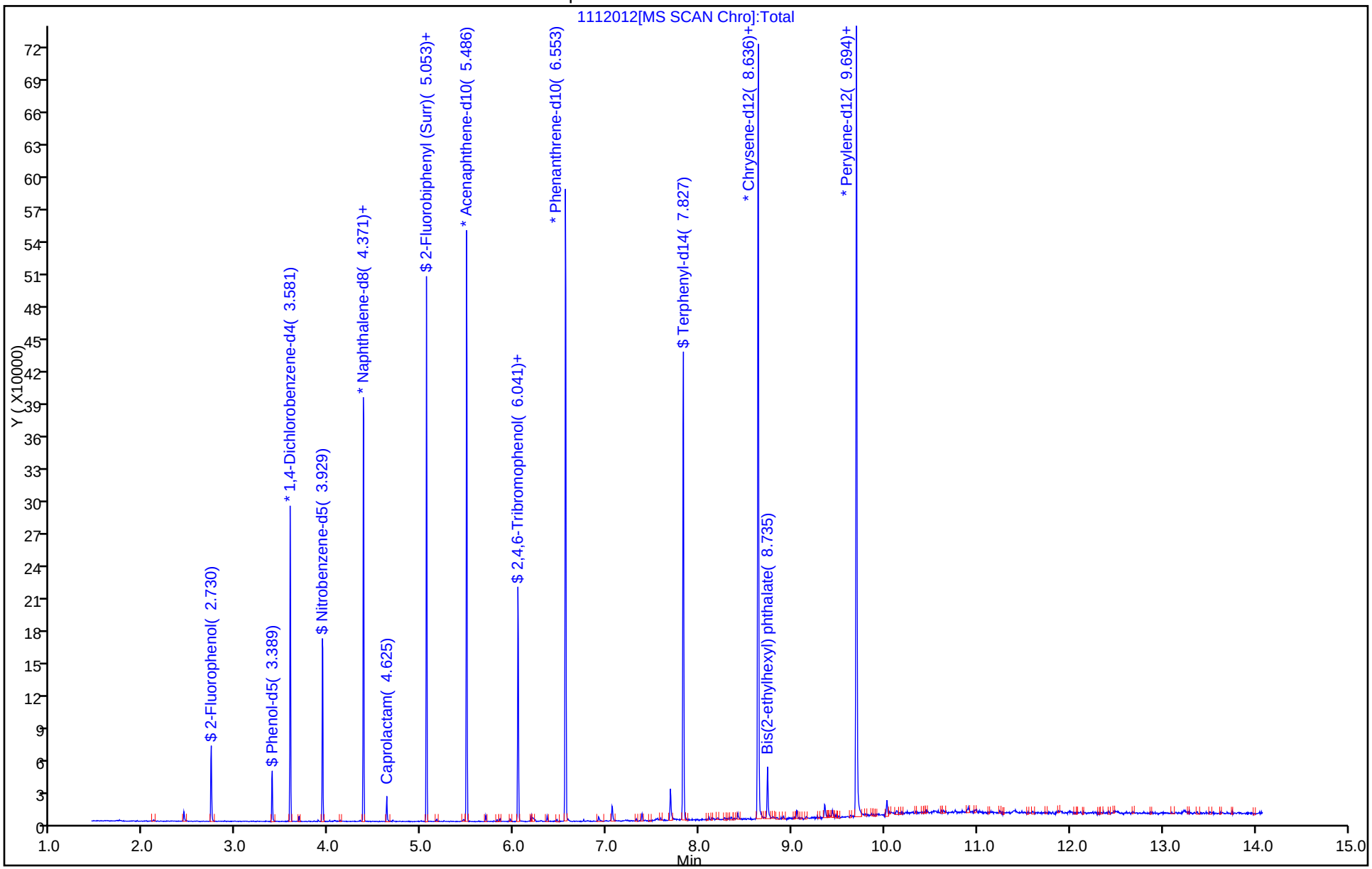
First Level Reviewer: salomonb Date: 13-Nov-2013 11:23:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.581	3.586	-0.005	96	29252	40.0	
$ 21 2-Fluorophenol	112	2.730	2.730	0.0	87	14230	16.5	
$ 22 Phenol-d5	99	3.389	3.389	0.0	0	11850	10.1	
* 37 Naphthalene-d8	136	4.371	4.376	-0.005	99	119973	40.0	
$ 49 Nitrobenzene-d5	82	3.929	3.934	-0.005	87	38740	34.6	
42 Caprolactam	113	4.625	4.653	-0.028	73	2376	6.77	
* 69 Acenaphthene-d10	164	5.486	5.490	-0.004	88	82740	40.0	
$ 83 2-Fluorobiphenyl (Surr)	172	5.053	5.058	-0.005	99	96609	36.7	
* 102 Phenanthrene-d10	188	6.553	6.558	-0.005	96	161616	40.0	
$ 127 2,4,6-Tribromophenol	330	6.045	6.050	-0.005	89	15681	42.5	
* 136 Chrysene-d12	240	8.636	8.641	-0.005	80	224397	40.0	
$ 147 Terphenyl-d14	244	7.827	7.828	-0.001	96	119406	28.6	
155 Bis(2-ethylhexyl) phthalate	149	8.735	8.740	-0.005	94	12508	4.20	
* 156 Perylene-d12	264	9.694	9.699	-0.005	84	235414	40.0	

Report Date: 13-Nov-2013 11:23:30 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP83\20131112-28283.b\1112012.D				
Injection Date:	12-Nov-2013 21:10:30	Instrument ID:	HP83	Operator ID:	HP83
Lims ID:	490-39686-V-3-A	Lab Sample ID:	490-39686-3	Worklist Smp#:	12
Client ID:	MW-08-GW-001				
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8270HP83	Limit Group:	MSS 8270C ICAL		



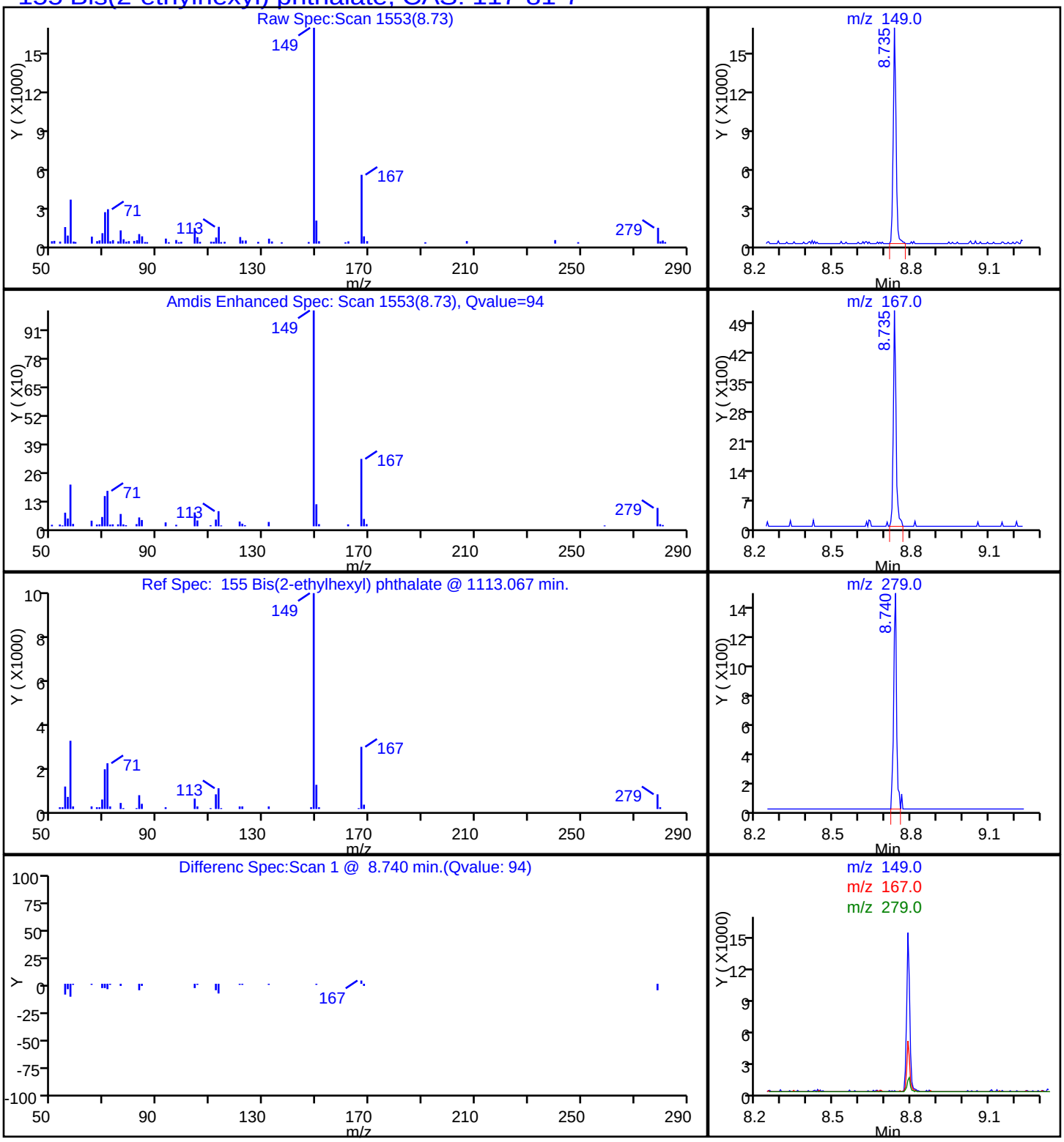
Report Date: 13-Nov-2013 11:23:30 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112012.D

Injection Date:	12-Nov-2013 21:10:30	Instrument ID:	HP83		
Lims ID:	490-39686-V-3-A	Lab Sample ID:	490-39686-3		
Client ID:	MW-08-GW-001				
Operator ID:	HP83	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	8270HP83	Limit Group:	MSS 8270C ICAL		
Column:		Detector	MS SCAN		

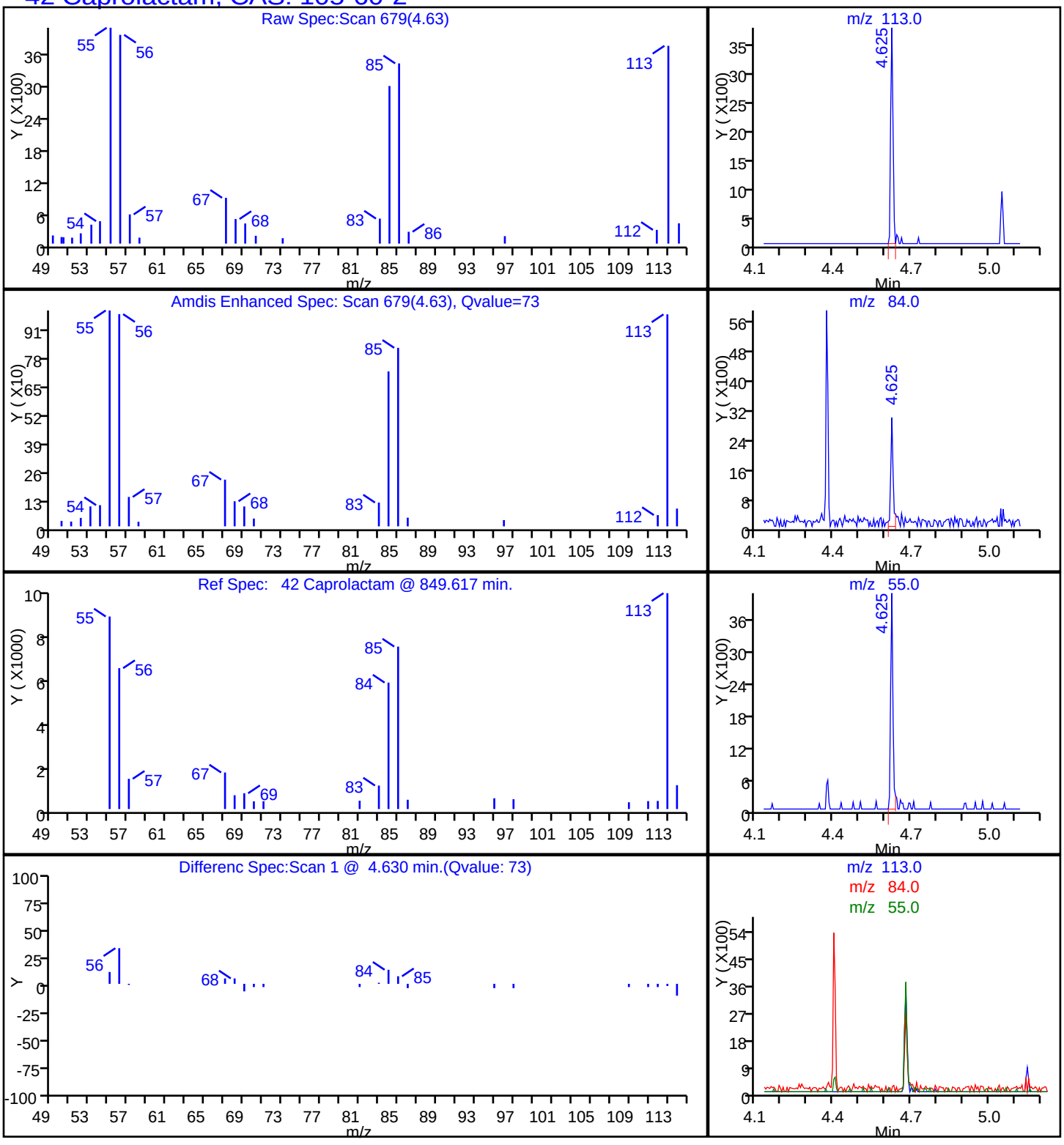
155 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7



TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP83\20131112-28283.b\1112012.D				
Injection Date:	12-Nov-2013 21:10:30	Instrument ID:	HP83		
Lims ID:	490-39686-V-3-A	Lab Sample ID:	490-39686-3		
Client ID:	MW-08-GW-001				
Operator ID:	HP83	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	8270HP83	Limit Group:	MSS 8270C ICAL		
Column:		Detector	MS SCAN		

42 Caprolactam, CAS: 105-60-2



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: MW-09-GW-001 | Lab Sample ID: 490-39686-5

Matrix: Water | Lab File ID: 1112013.D

Analysis Method: 8270C | Date Collected: 11/06/2013 13:26

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:20

Sample wt/vol: 1060(mL) | Date Analyzed: 11/12/2013 21:32

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		1.89	0.345
208-96-8	Acenaphthylene	ND		1.89	0.311
98-86-2	Acetophenone	ND		9.43	1.79
120-12-7	Anthracene	ND		1.89	0.833
1912-24-9	Atrazine	ND		9.43	3.49
100-52-7	Benzaldehyde	ND	*	9.43	2.03
56-55-3	Benzo[a]anthracene	ND		1.89	0.306
50-32-8	Benzo[a]pyrene	ND		1.89	0.311
205-99-2	Benzo[b]fluoranthene	ND		1.89	0.398
191-24-2	Benzo[g,h,i]perylene	ND		1.89	0.271
207-08-9	Benzo[k]fluoranthene	ND		1.89	0.343
92-52-4	Biphenyl	ND		9.43	3.14
111-91-1	Bis(2-chloroethoxy)methane	ND		9.43	1.28
111-44-4	Bis(2-chloroethyl)ether	ND		9.43	1.31
108-60-1	bis (2-chloroisopropyl) ether	ND		9.43	1.85
117-81-7	Bis(2-ethylhexyl) phthalate	ND		9.43	1.94
101-55-3	4-Bromophenyl phenyl ether	ND		9.43	1.29
85-68-7	Butyl benzyl phthalate	ND		9.43	1.64
105-60-2	Caprolactam	ND		9.43	3.14
86-74-8	Carbazole	ND		9.43	0.282
106-47-8	4-Chloroaniline	ND		9.43	1.10
59-50-7	4-Chloro-3-methylphenol	ND		9.43	3.14
91-58-7	2-Chloronaphthalene	ND		9.43	1.55
95-57-8	2-Chlorophenol	ND		9.43	1.50
7005-72-3	4-Chlorophenyl phenyl ether	ND		9.43	1.65
218-01-9	Chrysene	ND		1.89	1.03
53-70-3	Dibenz(a,h)anthracene	ND		1.89	0.608
132-64-9	Dibenzofuran	ND		9.43	0.320
91-94-1	3,3'-Dichlorobenzidine	ND		9.43	1.43
120-83-2	2,4-Dichlorophenol	ND		9.43	0.962
84-66-2	Diethyl phthalate	ND		9.43	1.53
105-67-9	2,4-Dimethylphenol	ND		9.43	0.940
131-11-3	Dimethyl phthalate	ND		9.43	1.71
84-74-2	Di-n-butyl phthalate	ND		9.43	1.42

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: MW-09-GW-001 | Lab Sample ID: 490-39686-5

Matrix: Water | Lab File ID: 1112013.D

Analysis Method: 8270C | Date Collected: 11/06/2013 13:26

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:20

Sample wt/vol: 1060(mL) | Date Analyzed: 11/12/2013 21:32

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
534-52-1	4,6-Dinitro-2-methylphenol	ND		23.6	1.95
51-28-5	2,4-Dinitrophenol	ND		23.6	2.32
121-14-2	2,4-Dinitrotoluene	ND		9.43	3.14
606-20-2	2,6-Dinitrotoluene	ND		9.43	1.83
117-84-0	Di-n-octyl phthalate	ND		9.43	2.18
206-44-0	Fluoranthene	ND		1.89	0.327
86-73-7	Fluorene	ND		1.89	0.298
118-74-1	Hexachlorobenzene	ND		9.43	1.59
87-68-3	Hexachlorobutadiene	ND		9.43	3.14
77-47-4	Hexachlorocyclopentadiene	ND		9.43	3.14
67-72-1	Hexachloroethane	ND		9.43	3.14
193-39-5	Indeno[1,2,3-cd]pyrene	ND		1.89	0.359
78-59-1	Isophorone	ND		9.43	1.17
91-57-6	2-Methylnaphthalene	ND		1.89	0.293
95-48-7	2-Methylphenol	ND		9.43	3.14
15831-10-4	3 & 4 Methylphenol	ND		9.43	3.14
91-20-3	Naphthalene	ND		1.89	0.375
88-74-4	2-Nitroaniline	ND		23.6	0.981
99-09-2	3-Nitroaniline	ND		23.6	1.75
100-01-6	4-Nitroaniline	ND		23.6	2.25
98-95-3	Nitrobenzene	ND		9.43	1.17
88-75-5	2-Nitrophenol	ND		9.43	1.48
100-02-7	4-Nitrophenol	ND		23.6	3.14
621-64-7	N-Nitrosodi-n-propylamine	ND		9.43	1.34
86-30-6	n-Nitrosodiphenylamine(as diphenylamine)	ND		9.43	1.36
87-86-5	Pentachlorophenol	ND		23.6	1.56
85-01-8	Phenanthrene	ND		1.89	0.324
108-95-2	Phenol	ND		9.43	3.25
129-00-0	Pyrene	ND		1.89	0.312
95-95-4	2,4,5-Trichlorophenol	ND		23.6	1.92
88-06-2	2,4,6-Trichlorophenol	ND		9.43	1.66

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: MW-09-GW-001 | Lab Sample ID: 490-39686-5

Matrix: Water | Lab File ID: 1112013.D

Analysis Method: 8270C | Date Collected: 11/06/2013 13:26

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:20

Sample wt/vol: 1060(mL) | Date Analyzed: 11/12/2013 21:32

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	87		29-120
367-12-4	2-Fluorophenol (Surr)	41		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	86		27-120
4165-62-2	Phenol-d5 (Surr)	24		10-120
1718-51-0	Terphenyl-d14 (Surr)	62		13-120
118-79-6	2,4,6-Tribromophenol (Surr)	98		10-120

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112013.D
Lims ID: 490-39686-V-5-A Lab Sample ID: 490-39686-5
Client ID: MW-09-GW-001
Sample Type: Client
Inject. Date: 12-Nov-2013 21:32:30 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 490-39686-V-5-A
Misc. Info.: 490-0028283-013
Operator ID: HP83 Instrument ID: HP83

Method: \\Nvlchrom\ChromData\HP83\20131112-28283.b\8270HP83.m
Limit Group: MSS 8270C ICAL
Last Update: 13-Nov-2013 11:18:44 Calib Date: 24-Oct-2013 15:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D

Column 1 : Detector MS SCAN
Process Host: XAWRK019

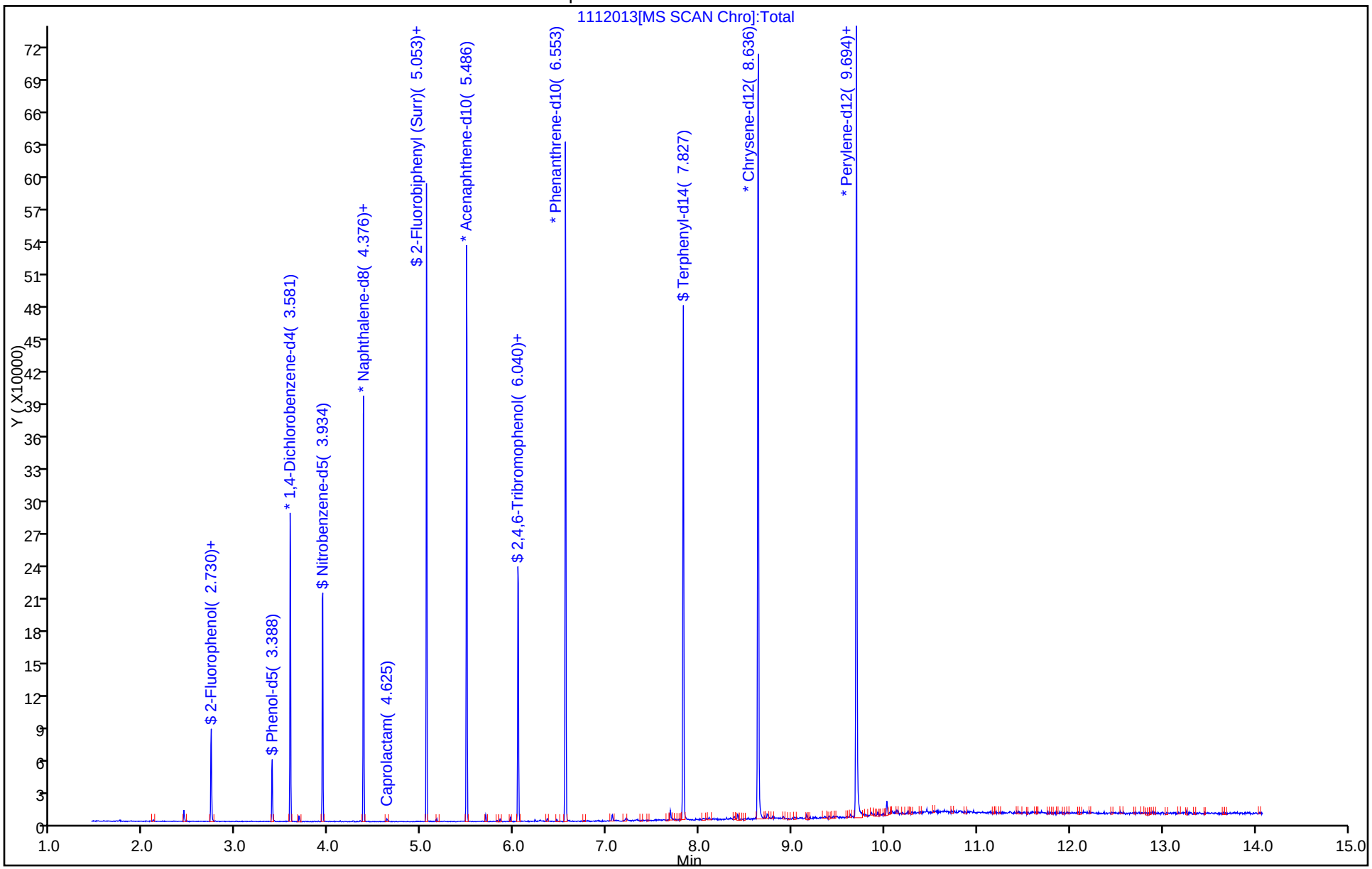
First Level Reviewer: salomonb Date: 13-Nov-2013 11:24:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.581	3.586	-0.005	96	29142	40.0	
$ 21 2-Fluorophenol	112	2.730	2.730	0.0	92	17541	20.4	
$ 22 Phenol-d5	99	3.388	3.389	-0.001	0	14336	12.2	
* 37 Naphthalene-d8	136	4.376	4.376	0.0	99	123039	40.0	
$ 49 Nitrobenzene-d5	82	3.934	3.934	0.0	84	49626	43.2	
42 Caprolactam	113	4.625	4.653	-0.028	41	384	1.60	
* 69 Acenaphthene-d10	164	5.486	5.490	-0.004	93	83204	40.0	
$ 83 2-Fluorobiphenyl (Surr)	172	5.053	5.058	-0.005	99	114397	43.3	
* 102 Phenanthrene-d10	188	6.553	6.558	-0.005	97	163643	40.0	
$ 127 2,4,6-Tribromophenol	330	6.045	6.050	-0.005	91	18224	48.8	
* 136 Chrysene-d12	240	8.636	8.641	-0.005	80	225893	40.0	
$ 147 Terphenyl-d14	244	7.827	7.828	-0.001	97	130437	31.0	
* 156 Perylene-d12	264	9.694	9.699	-0.005	87	227802	40.0	

Report Date: 13-Nov-2013 11:24:00 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP83\20131112-28283.b\1112013.D				
Injection Date:	12-Nov-2013 21:32:30	Instrument ID:	HP83	Operator ID:	HP83
Lims ID:	490-39686-V-5-A	Lab Sample ID:	490-39686-5	Worklist Smp#:	13
Client ID:	MW-09-GW-001				
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8270HP83	Limit Group:	MSS 8270C ICAL		



FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39686-2 Analy Batch No.: 116774

SDG No.:

Instrument ID: HP83 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2013 13:51 Calibration End Date: 10/24/2013 15:44 Calibration ID: 19923

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 490-116774/3	1022003.D
Level 2	STD2 490-116774/4	1022004.D
Level 3	STD3 490-116774/5	1022005.D
Level 4	ICIS 490-116774/6	1022006.D
Level 5	STD5 490-116774/7	1022007.D
Level 6	STD6 490-116774/8	1022008.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
N-Nitrosodimethylamine	0.5692 0.8158	0.7574	0.7907	0.7781	0.7951	Ave		0.7511				12.0		15.0			
Pyridine	0.5519 0.6452	0.5791	0.6785	0.5651	0.6376	Ave		0.6096				8.4		15.0			
Benzaldehyde	0.3931 0.5006	0.5017	0.5775	0.4898	0.5016	Ave		0.4940				12.0		15.0			
Aniline	1.6959 2.0672	2.0064	2.2333	1.9704	2.0354	Ave		2.0014				8.8		15.0			
Phenol	1.7139 1.7064	1.6922	1.8644	1.6113	1.6945	Ave		1.7138				4.8		15.0			
Bis(2-chloroethyl)ether	1.2538 1.2405	1.2165	1.4193	1.1830	1.2239	Ave		1.2562				6.6		15.0			
2-Chlorophenol	1.4037 1.3374	1.3073	1.4394	1.2897	1.2939	Ave		1.3453				4.6		15.0			
n-Decane	1.0099 0.9540	0.9930	1.0171	0.9153	0.9218	Ave		0.9685				4.6		15.0			
1,3-Dichlorobenzene	1.5170 1.5139	1.4832	1.6437	1.4535	1.4821	Ave		1.5156				4.4		15.0			
1,4-Dichlorobenzene	1.6206 1.5301	1.5965	1.7087	1.4372	1.4866	Ave		1.5633				6.3		15.0			
Benzyl alcohol	0.8545 0.9493	0.9510	0.9594	0.8914	0.9410	Ave		0.9244				4.5		15.0			
1,2-Dichlorobenzene	1.5729 1.5327	1.5097	1.6418	1.4319	1.4807	Ave		1.5283				4.8		15.0			
Indene	2.2002 2.3071	2.3567	2.5976	2.2857	2.2883	Ave		2.3393				5.8		15.0			
2-Methylphenol	1.0611 1.3054	1.2277	1.3876	1.2043	1.2889	Ave		1.2458				8.9		15.0			
bis (2-chloroisopropyl) ether	0.7233 0.9873	0.9838	1.0562	0.9366	0.9644	Ave		0.9420				12.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39686-2 Analy Batch No.: 116774

SDG No.:

Instrument ID: HP83 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2013 13:51 Calibration End Date: 10/24/2013 15:44 Calibration ID: 19923

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acetophenone	1.9646 2.0325	1.9105	2.2659	1.9564	2.0110	Ave		2.0235				6.2		15.0			
N-Nitrosodi-n-propylamine	1.0928 1.1841	1.0786	1.2923	1.1261	1.1602	Ave		1.1557			0.0500	6.7		15.0			
3 & 4 Methylphenol	1.1087 1.3739	1.3410	1.4600	1.2950	1.3195	Ave		1.3164				8.9		15.0			
Hexachloroethane	0.6728 0.5651	0.5642	0.6448	0.5438	0.5604	Ave		0.5918				9.0		15.0			
Nitrobenzene	0.3723 0.3717	0.3962	0.4236	0.3758	0.3681	Ave		0.3846				5.6		15.0			
Isophorone	0.6013 0.6420	0.6666	0.7344	0.6522	0.6440	Ave		0.6567				6.7		15.0			
2-Nitrophenol	0.1721 0.1897	0.1995	0.1967	0.1897	0.1871	Ave		0.1891				5.1		15.0			
2,4-Dimethylphenol	0.3474 0.3591	0.3769	0.4112	0.3605	0.3589	Ave		0.3690				6.2		15.0			
Bis(2-chloroethoxy)methane	0.3989 0.3716	0.3987	0.4354	0.3661	0.3701	Ave		0.3901				6.8		15.0			
Benzoic acid	0.2383 0.3289	0.2635	0.3279	0.3187	0.3280	Ave		0.3009				13.0		15.0			
2,4-Dichlorophenol	0.3138 0.3057	0.2981	0.3523	0.3066	0.3047	Ave		0.3135				6.3		15.0			
1,2,4-Trichlorobenzene	0.3033 0.3246	0.3352	0.3823	0.3362	0.3282	Ave		0.3349				7.8		15.0			
Naphthalene	0.9790 0.9335	0.9983	1.0753	0.9592	0.9511	Ave		0.9827				5.1		15.0			
4-Chloroaniline	0.3402 0.4268	0.4207	0.4843	0.4327	0.4318	Ave		0.4227				11.0		15.0			
Hexachlorobutadiene	0.2301 0.1994	0.2067	0.2289	0.1974	0.1970	Ave		0.2099				7.4		15.0			
Caprolactam	0.0894 0.1289	0.1060	0.1441	0.1231	0.1268	Lin2	-0.082	0.1292							0.9910		0.9900
4-Chloro-3-methylphenol	0.3252 0.3491	0.3489	0.3871	0.3507	0.3429	Ave		0.3506				5.8		15.0			
2-Methylnaphthalene	0.7072 0.7104	0.7381	0.8352	0.7167	0.7249	Ave		0.7388				6.6		15.0			
1-Methylnaphthalene	0.6600 0.6703	0.6967	0.7636	0.6748	0.6606	Ave		0.6877				5.7		15.0			
Hexachlorocyclopentadiene	0.1643 0.3220	0.2212	0.2849	0.3005	0.3050	Lin2	-0.289	0.2996			0.0500				0.9910		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39686-2 Analy Batch No.: 116774

SDG No.:

Instrument ID: HP83 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2013 13:51 Calibration End Date: 10/24/2013 15:44 Calibration ID: 19923

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4,5-Tetrachlorobenzene	0.4023 0.3722	0.3845	0.4321	0.3668	0.3720	Ave		0.3883				6.4		15.0			
2,4,6-Trichlorophenol	0.2866 0.3562	0.3619	0.4037	0.3579	0.3491	Ave		0.3526				11.0		15.0			
2,4,5-Trichlorophenol	0.3698 0.3795	0.4008	0.4159	0.3846	0.3822	Ave		0.3888				4.3		15.0			
Biphenyl	0.8857 0.9011	0.9345	1.0500	0.8961	0.8993	Ave		0.9278				6.7		15.0			
2-Chloronaphthalene	1.0419 1.0160	1.0162	1.1628	1.0169	0.9977	Ave		1.0419				5.8		15.0			
2-Nitroaniline	0.2602 0.3290	0.2967	0.3560	0.3136	0.3244	Ave		0.3133				10.0		15.0			
Dimethyl phthalate	1.2093 1.2569	1.2685	1.4377	1.2693	1.2525	Ave		1.2824				6.2		15.0			
1,3-Dinitrobenzene	0.1396 0.2333	0.2042	0.2371	0.2267	0.2284	Lin2	-0.189	0.2334							0.9990		0.9900
2,6-Dinitrotoluene	0.2445 0.3021	0.3108	0.3167	0.2971	0.3021	Ave		0.2956				8.8		15.0			
Acenaphthylene	1.5217 1.5860	1.6900	1.8480	1.6215	1.5993	Ave		1.6444				6.9		15.0			
3-Nitroaniline	0.2414 0.3270	0.2919	0.3614	0.3214	0.3189	Ave		0.3103				13.0		15.0			
Acenaphthene	1.1359 1.0639	1.1090	1.2206	1.0977	1.0702	Ave		1.1162				5.2		15.0			
2,4-Dinitrophenol	0.0956 0.2425	0.1760	0.2281	0.2235	0.2359	Lin2	-0.568	0.2331			0.0500				0.9950		0.9900
4-Nitrophenol	0.2729 0.2792	0.2627	0.2954	0.2724	0.2764	Ave		0.2765			0.0500	3.9		15.0			
2,4-Dinitrotoluene	0.3159 0.4387	0.4267	0.5004	0.4314	0.4320	Ave		0.4242				14.0		15.0			
Dibenzofuran	1.6552 1.4981	1.6065	1.7554	1.5437	1.5358	Ave		1.5991				5.9		15.0			
2,3,4,6-Tetrachlorophenol	0.3420 0.3609	0.3699	0.3896	0.3624	0.3558	Ave		0.3635				4.4		15.0			
Diethyl phthalate	1.2819 1.2241	1.3002	1.4082	1.2372	1.2279	Ave		1.2799				5.5		15.0			
Hexadecane	0.4558 0.4798	0.5203	0.5565	0.4819	0.4793	Ave		0.4956				7.3		15.0			
Fluorene	1.2803 1.3119	1.3271	1.4948	1.3173	1.3074	Ave		1.3398				5.8		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39686-2 Analy Batch No.: 116774

SDG No.:

Instrument ID: HP83 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2013 13:51 Calibration End Date: 10/24/2013 15:44 Calibration ID: 19923

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
4-Chlorophenyl phenyl ether	0.7146 0.6647	0.6822	0.7798	0.6524	0.6561	Ave		0.6916				7.1		15.0			
4-Nitroaniline	0.2379 0.3333	0.3293	0.3457	0.3227	0.3292	Ave		0.3164				12.0		15.0			
4,6-Dinitro-2-methylphenol	0.0943 0.1626	0.1392	0.1677	0.1541	0.1531	Lin2	-0.267	0.1606							0.9970		0.9900
n-Nitrosodiphenylamine(as diphenylamine)	0.4136 0.4040	0.4047	0.4514	0.3981	0.3918	Ave		0.4106				5.2		15.0			
1,2-Diphenylhydrazine (as Azobenzene)	1.1761 1.2397	1.2864	1.4208	1.2278	1.2446	Ave		1.2659				6.6		15.0			
4-Bromophenyl phenyl ether	0.2198 0.2079	0.2056	0.2396	0.2057	0.2014	Ave		0.2133				6.7		15.0			
Hexachlorobenzene	0.2188 0.2138	0.2157	0.2363	0.2075	0.2063	Ave		0.2164				5.0		15.0			
Atrazine	0.1938 0.2128	0.2064	0.2405	0.2101	0.2066	Ave		0.2117				7.4		15.0			
Pentachlorophenol	0.1466 0.1602	0.1538	0.1780	0.1543	0.1540	Ave		0.1578				6.8		15.0			
n-Octadecane	0.2401 0.2700	0.2680	0.2957	0.2581	0.2585	Ave		0.2651				6.9		15.0			
Phenanthrene	1.0337 0.9892	1.0489	1.1322	0.9855	0.9592	Ave		1.0248				6.1		15.0			
Anthracene	0.9891 1.0293	1.0611	1.1564	1.0001	0.9996	Ave		1.0393				6.1		15.0			
Carbazole	0.9654 0.9775	1.0168	1.1010	0.9686	0.9493	Ave		0.9964				5.6		15.0			
Di-n-butyl phthalate	0.9611 1.1228	1.0856	1.2241	1.1032	1.0745	Ave		1.0952				7.7		15.0			
Fluoranthene	1.1556 1.2253	1.2226	1.3842	1.2283	1.1888	Ave		1.2341				6.4		15.0			
Benzidine	0.2532 0.2378	0.2028	0.3282	0.2339	0.2298	Lin	0.4202	0.2306							0.9920		0.9900
Pyrene	0.9058 0.8886	0.9463	1.0669	0.9107	0.8950	Ave		0.9355				7.2		15.0			
Butyl benzyl phthalate	0.3428 0.3919	0.3507	0.4305	0.3785	0.3805	Ave		0.3792				8.3		15.0			
3,3'-Dichlorobenzidine	0.3243 0.3524	0.3330	0.3803	0.3431	0.3418	Ave		0.3458				5.6		15.0			
Benzo[a]anthracene	1.0631 0.9620	1.0155	1.1214	0.9709	0.9549	Ave		1.0146				6.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39686-2 Analy Batch No.: 116774

SDG No.:

Instrument ID: HP83 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2013 13:51 Calibration End Date: 10/24/2013 15:44 Calibration ID: 19923

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chrysene	1.0256 0.8797	0.9753	1.0663	0.9069	0.8473	Ave		0.9502				9.1		15.0			
Bis(2-ethylhexyl) phthalate	0.4486 0.5466	0.5157	0.5961	0.5355	0.5411	Ave		0.5306				9.1		15.0			
Di-n-octyl phthalate	0.7553 0.9475	0.8241	1.0035	0.9104	0.9428	Ave		0.8973				10.0		15.0			
Benzo[b]fluoranthene	0.9827 1.0097	1.0120	1.2724	1.0250	1.0399	Ave		1.0570				10.0		15.0			
Benzo[k]fluoranthene	1.1098 1.0913	1.1871	1.2619	1.1215	1.0746	Ave		1.1410				6.2		15.0			
Benzo[a]pyrene	0.9180 0.9805	0.9599	1.1105	1.0013	0.9845	Ave		0.9925				6.5		15.0			
Indeno[1,2,3-cd]pyrene	1.1120 1.1590	1.1429	1.3255	1.1485	1.1557	Ave		1.1739				6.5		15.0			
Dibenz(a,h)anthracene	0.9276 0.9602	0.9782	1.0946	0.9689	0.9659	Ave		0.9826				5.9		15.0			
Benzo[g,h,i]perylene	1.0018 0.9747	0.9694	1.1496	0.9943	0.9732	Ave		1.0105				6.9		15.0			
2-Fluorophenol (Surr)	1.1295 1.1858	1.1649	1.2968	1.1455	1.1535	Ave		1.1793				5.1		15.0			
Phenol-d5 (Surr)	1.4445 1.6863	1.5457	1.7862	1.5827	1.6231	Ave		1.6114				7.3		15.0			
Nitrobenzene-d5 (Surr)	0.3323 0.3619	0.3803	0.4165	0.3741	0.3732	Ave		0.3731				7.3		15.0			
2-Fluorobiphenyl (Surr)	1.2864 1.2110	1.2754	1.4072	1.2368	1.2100	Ave		1.2711				5.8		15.0			
2,4,6-Tribromophenol (Surr)	0.0707 0.0976	0.0862	0.1048	0.0945	0.0944	Ave		0.0914				13.0		15.0			
Terphenyl-d14 (Surr)	0.7714 0.7004	0.7550	0.8309	0.7128	0.6982	Ave		0.7448				6.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39686-2 Analy Batch No.: 116774

SDG No.:

Instrument ID: HP83 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2013 13:51 Calibration End Date: 10/24/2013 15:44 Calibration ID: 19923

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 490-116774/3	1022003.D
Level 2	STD2 490-116774/4	1022004.D
Level 3	STD3 490-116774/5	1022005.D
Level 4	ICIS 490-116774/6	1022006.D
Level 5	STD5 490-116774/7	1022007.D
Level 6	STD6 490-116774/8	1022008.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
N-Nitrosodimethylamine	DCB	Ave	824 59312	5755	11980	30009	48562	2.00 100	10.0	20.0	50.0	80.0
Pyridine	DCB	Ave	799 46907	4400	10280	21792	38944	2.00 100	10.0	20.0	50.0	80.0
Benzaldehyde	DCB	Ave	569 36390	3812	8750	18889	30639	2.00 100	10.0	20.0	50.0	80.0
Aniline	DCB	Ave	2455 150287	15245	33837	75987	124324	2.00 100	10.0	20.0	50.0	80.0
Phenol	DCB	Ave	2481 124053	12857	28247	62141	103500	2.00 100	10.0	20.0	50.0	80.0
Bis(2-chloroethyl)ether	DCB	Ave	1815 90181	9243	21504	45622	74758	2.00 100	10.0	20.0	50.0	80.0
2-Chlorophenol	DCB	Ave	2032 97230	9933	21809	49738	79032	2.00 100	10.0	20.0	50.0	80.0
n-Decane	DCB	Ave	1462 69356	7545	15410	35297	56304	2.00 100	10.0	20.0	50.0	80.0
1,3-Dichlorobenzene	DCB	Ave	2196 110062	11269	24904	56053	90529	2.00 100	10.0	20.0	50.0	80.0
1,4-Dichlorobenzene	DCB	Ave	2346 111239	12130	25889	55426	90799	2.00 100	10.0	20.0	50.0	80.0
Benzyl alcohol	DCB	Ave	1237 69015	7226	14536	34377	57475	2.00 100	10.0	20.0	50.0	80.0
1,2-Dichlorobenzene	DCB	Ave	2277 111429	11471	24875	55223	90444	2.00 100	10.0	20.0	50.0	80.0
Indene	DCB	Ave	3185 167723	17906	39356	88148	139770	2.00 100	10.0	20.0	50.0	80.0
2-Methylphenol	DCB	Ave	1536 94903	9328	21023	46443	78729	2.00 100	10.0	20.0	50.0	80.0
bis (2-chloroisopropyl) ether	DCB	Ave	1047 71780	7475	16003	36121	58908	2.00 100	10.0	20.0	50.0	80.0
Acetophenone	DCB	Ave	2844 147765	14516	34331	75450	122834	2.00 100	10.0	20.0	50.0	80.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39686-2 Analy Batch No.: 116774

SDG No.:

Instrument ID: HP83 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2013 13:51 Calibration End Date: 10/24/2013 15:44 Calibration ID: 19923

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
N-Nitrosodi-n-propylamine	DCB	Ave	1582 86082	8195	19580	43427	70867	2.00 100	10.0	20.0	50.0	80.0
3 & 4 Methylphenol	DCB	Ave	1605 99884	10189	22121	49941	80593	2.00 100	10.0	20.0	50.0	80.0
Hexachloroethane	DCB	Ave	974 41081	4287	9769	20972	34227	2.00 100	10.0	20.0	50.0	80.0
Nitrobenzene	NPT	Ave	2270 119632	12637	26696	60919	96863	2.00 100	10.0	20.0	50.0	80.0
Isophorone	NPT	Ave	3666 206611	21263	46279	105717	169449	2.00 100	10.0	20.0	50.0	80.0
2-Nitrophenol	NPT	Ave	1049 61061	6364	12393	30741	49238	2.00 100	10.0	20.0	50.0	80.0
2,4-Dimethylphenol	NPT	Ave	2118 115578	12021	25916	58430	94438	2.00 100	10.0	20.0	50.0	80.0
Bis(2-chloroethoxy)methane	NPT	Ave	2432 119578	12717	27441	59347	97385	2.00 100	10.0	20.0	50.0	80.0
Benzoic acid	NPT	Ave	1453 105846	8406	20666	51662	86311	2.00 100	10.0	20.0	50.0	80.0
2,4-Dichlorophenol	NPT	Ave	1913 98367	9510	22201	49696	80174	2.00 100	10.0	20.0	50.0	80.0
1,2,4-Trichlorobenzene	NPT	Ave	1849 104460	10692	24091	54486	86364	2.00 100	10.0	20.0	50.0	80.0
Naphthalene	NPT	Ave	5969 300418	31843	67767	155477	250267	2.00 100	10.0	20.0	50.0	80.0
4-Chloroaniline	NPT	Ave	2074 137340	13420	30522	70137	113618	2.00 100	10.0	20.0	50.0	80.0
Hexachlorobutadiene	NPT	Ave	1403 64171	6595	14424	31999	51838	2.00 100	10.0	20.0	50.0	80.0
Caprolactam	NPT	Lin2	545 41493	3382	9084	19955	33365	2.00 100	10.0	20.0	50.0	80.0
4-Chloro-3-methylphenol	NPT	Ave	1983 112343	11129	24395	56836	90226	2.00 100	10.0	20.0	50.0	80.0
2-Methylnaphthalene	NPT	Ave	4312 228635	23544	52635	116172	190755	2.00 100	10.0	20.0	50.0	80.0
1-Methylnaphthalene	NPT	Ave	4024 215713	22224	48123	109382	173829	2.00 100	10.0	20.0	50.0	80.0
Hexachlorocyclopentadiene	ANT	Lin2	699 71685	4846	12397	33483	55990	2.00 100	10.0	20.0	50.0	80.0
1,2,4,5-Tetrachlorobenzene	NPT	Ave	2453 119793	12264	27233	59452	97882	2.00 100	10.0	20.0	50.0	80.0
2,4,6-Trichlorophenol	ANT	Ave	1219 79296	7927	17563	39880	64071	2.00 100	10.0	20.0	50.0	80.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39686-2 Analy Batch No.: 116774

SDG No.:

Instrument ID: HP83 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2013 13:51 Calibration End Date: 10/24/2013 15:44 Calibration ID: 19923

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
2,4,5-Trichlorophenol	ANT	Ave	1573 84486	8779	18096	42858	70153	2.00 100	10.0	20.0	50.0	80.0
Biphenyl	NPT	Ave	5400 290001	29809	66172	145252	236641	2.00 100	10.0	20.0	50.0	80.0
2-Chloronaphthalene	ANT	Ave	4432 226148	22258	50590	113325	183132	2.00 100	10.0	20.0	50.0	80.0
2-Nitroaniline	ANT	Ave	1107 73230	6499	15490	34947	59553	2.00 100	10.0	20.0	50.0	80.0
Dimethyl phthalate	ANT	Ave	5144 279789	27785	62552	141446	229896	2.00 100	10.0	20.0	50.0	80.0
1,3-Dinitrobenzene	ANT	Lin2	594 51932	4473	10314	25264	41922	2.00 100	10.0	20.0	50.0	80.0
2,6-Dinitrotoluene	ANT	Ave	1040 67251	6808	13777	33111	55450	2.00 100	10.0	20.0	50.0	80.0
Acenaphthylene	ANT	Ave	6473 353032	37018	80403	180699	293551	2.00 100	10.0	20.0	50.0	80.0
3-Nitroaniline	ANT	Ave	1027 72787	6393	15722	35815	58542	2.00 100	10.0	20.0	50.0	80.0
Acenaphthene	ANT	Ave	4832 236818	24292	53104	122323	196434	2.00 100	10.0	20.0	50.0	80.0
2,4-Dinitrophenol	ANT	Lin2	813 107958	7708	19851	49819	86615	4.00 200	20.0	40.0	100	160
4-Nitrophenol	ANT	Ave	2322 124287	11510	25705	60713	101485	4.00 200	20.0	40.0	100	160
2,4-Dinitrotoluene	ANT	Ave	1344 97664	9346	21773	48069	79300	2.00 100	10.0	20.0	50.0	80.0
Dibenzofuran	ANT	Ave	7041 333483	35189	76371	172022	281891	2.00 100	10.0	20.0	50.0	80.0
2,3,4,6-Tetrachlorophenol	ANT	Ave	1455 80344	8103	16951	40390	65301	2.00 100	10.0	20.0	50.0	80.0
Diethyl phthalate	ANT	Ave	5453 272478	28478	61266	137874	225381	2.00 100	10.0	20.0	50.0	80.0
Hexadecane	ANT	Ave	1939 106808	11396	24212	53703	87979	2.00 100	10.0	20.0	50.0	80.0
Fluorene	ANT	Ave	5446 292017	29068	65033	146802	239972	2.00 100	10.0	20.0	50.0	80.0
4-Chlorophenyl phenyl ether	ANT	Ave	3040 147963	14943	33929	72699	120425	2.00 100	10.0	20.0	50.0	80.0
4-Nitroaniline	ANT	Ave	1012 74187	7212	15042	35966	60422	2.00 100	10.0	20.0	50.0	80.0
4,6-Dinitro-2-methylphenol	PHN	Lin2	1572 141721	12023	28896	68218	113560	4.00 200	20.0	40.0	100	160

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39686-2 Analy Batch No.: 116774

SDG No.:

Instrument ID: HP83 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2013 13:51 Calibration End Date: 10/24/2013 15:44 Calibration ID: 19923

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
n-Nitrosodiphenylamine(as diphenylamine)	PHN	Ave	3447 176132	17480	38886	88094	145333	2.00 100	10.0	20.0	50.0	80.0
1,2-Diphenylhydrazine (as Azobenzene)	ANT	Ave	5003 275957	28177	61814	136818	228447	2.00 100	10.0	20.0	50.0	80.0
4-Bromophenyl phenyl ether	PHN	Ave	1832 90611	8878	20639	45521	74711	2.00 100	10.0	20.0	50.0	80.0
Hexachlorobenzene	PHN	Ave	1824 93190	9317	20360	45917	76526	2.00 100	10.0	20.0	50.0	80.0
Atrazine	PHN	Ave	1615 92748	8913	20720	46489	76638	2.00 100	10.0	20.0	50.0	80.0
Pentachlorophenol	PHN	Ave	2444 139680	13281	30669	68291	114243	4.00 200	20.0	40.0	100	160
n-Octadecane	PHN	Ave	2001 117691	11576	25474	57121	95901	2.00 100	10.0	20.0	50.0	80.0
Phenanthrene	PHN	Ave	8616 431221	45303	97530	218070	355819	2.00 100	10.0	20.0	50.0	80.0
Anthracene	PHN	Ave	8244 448695	45828	99618	221305	370829	2.00 100	10.0	20.0	50.0	80.0
Carbazole	PHN	Ave	8047 426109	43915	94841	214328	352170	2.00 100	10.0	20.0	50.0	80.0
Di-n-butyl phthalate	PHN	Ave	8011 489450	46888	105452	244100	398606	2.00 100	10.0	20.0	50.0	80.0
Fluoranthene	PHN	Ave	9632 534141	52803	119237	271783	440996	2.00 100	10.0	20.0	50.0	80.0
Benzidine	CRY	Lin	2769 145735	11644	37844	71305	116540	2.00 100	10.0	20.0	50.0	80.0
Pyrene	CRY	Ave	9907 544630	54345	123037	277667	453920	2.00 100	10.0	20.0	50.0	80.0
Butyl benzyl phthalate	CRY	Ave	3749 240180	20142	49645	115411	192996	2.00 100	10.0	20.0	50.0	80.0
3,3'-Dichlorobenzidine	CRY	Ave	3547 215998	19122	43858	104602	173349	2.00 100	10.0	20.0	50.0	80.0
Benzo[a]anthracene	CRY	Ave	11628 589626	58316	129327	296018	484282	2.00 100	10.0	20.0	50.0	80.0
Chrysene	CRY	Ave	11218 539192	56010	122971	276500	429731	2.00 100	10.0	20.0	50.0	80.0
Bis(2-ethylhexyl) phthalate	CRY	Ave	4907 335020	29617	68740	163260	274434	2.00 100	10.0	20.0	50.0	80.0
Di-n-octyl phthalate	PRY	Ave	8547 587633	47576	116469	280381	474258	2.00 100	10.0	20.0	50.0	80.0
Benzo[b]fluoranthene	PRY	Ave	11120 626189	58420	147675	315682	523092	2.00 100	10.0	20.0	50.0	80.0

FORM VI

GC/MS SEMI VOA INITIAL CALIBRATION DATA

INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39686-2 Analy Batch No.: 116774

SDG No.:

Instrument ID: HP83 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/24/2013 13:51 Calibration End Date: 10/24/2013 15:44 Calibration ID: 19923

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Benzo[k]fluoranthene	PRY	Ave	12558 676790	68532	146452	345405	540548	2.00 100	10.0	20.0	50.0	80.0
Benzo[a]pyrene	PRY	Ave	10388 608083	55414	128879	308385	495232	2.00 100	10.0	20.0	50.0	80.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	12583 718749	65980	153835	353721	581306	2.00 100	10.0	20.0	50.0	80.0
Dibenz(a,h)anthracene	PRY	Ave	10497 595490	56473	127034	298406	485876	2.00 100	10.0	20.0	50.0	80.0
Benzo[g,h,i]perylene	PRY	Ave	11336 604467	55963	133420	306223	489529	2.00 100	10.0	20.0	50.0	80.0
2-Fluorophenol (Surr)	DCB	Ave	1635 86210	8851	19648	44175	70454	2.00 100	10.0	20.0	50.0	80.0
Phenol-d5 (Surr)	DCB	Ave	2091 122592	11744	27063	61038	99138	2.00 100	10.0	20.0	50.0	80.0
Nitrobenzene-d5 (Surr)	NPT	Ave	2026 116478	12130	26250	60631	98208	2.00 100	10.0	20.0	50.0	80.0
2-Fluorobiphenyl (Surr)	ANT	Ave	5472 269565	27936	61223	137830	222091	2.00 100	10.0	20.0	50.0	80.0
2,4,6-Tribromophenol (Surr)	PHN	Ave	589 42546	3723	9025	20921	35002	2.00 100	10.0	20.0	50.0	80.0
Terphenyl-d14 (Surr)	CRY	Ave	8437 429278	43355	95821	217310	354099	2.00 100	10.0	20.0	50.0	80.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022003.D
Lims ID: std1 Client ID:
Inject. Date: 24-Oct-2013 13:51:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: std1
Misc. Info.: 490-0027300-003
Operator: HP83 Instrument ID: HP83
Injection Vol: 1.0 uL ALS Bottle#: 3
Lims Batch ID: 116774 Lims Sample ID: 3
Sublist: chrom-8270HP83*sub16
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP83\20131024-27300.b\8270HP83.m
Last Update: 25-Oct-2013 12:55:18 Calib Date: 24-Oct-2013 15:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D
Limit Group: MSS 8270C ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK029

First Level Reviewer: salomonb Date: 24-Oct-2013 14:36:11

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.804	3.808	-0.004	97	28952	40.0	
19 N-Nitrosodimethylamine	74	1.838	1.819	0.019	58	824	1.52	
20 Pyridine	52	1.899	1.852	0.047	65	799	1.81	
$ 21 2-Fluorophenol	112	2.976	2.971	0.005	64	1635	1.92	
3 Benzaldehyde	105	3.526	3.526	0.0	74	569	1.59	
23 Aniline	93	3.601	3.601	0.0	93	2455	1.69	
$ 22 Phenol-d5	99	3.606	3.606	0.0	0	2091	1.79	
24 Phenol	94	3.615	3.615	0.0	84	2481	2.00	
25 Bis(2-chloroethyl)ether	93	3.648	3.648	0.0	74	1815	2.00	
26 2-Chlorophenol	128	3.677	3.676	0.001	86	2032	2.09	
6 n-Decane	57	3.724	3.723	0.001	88	1462	2.09	
27 1,3-Dichlorobenzene	146	3.766	3.770	-0.004	84	2196	2.00	
28 1,4-Dichlorobenzene	146	3.818	3.817	0.001	49	2346	2.07	
29 Benzyl alcohol	108	3.902	3.907	-0.005	83	1237	1.85	
30 1,2-Dichlorobenzene	146	3.912	3.912	0.0	74	2277	2.06	
12 Indene	115	3.968	3.968	0.0	85	3185	1.88	
31 2-Methylphenol	108	3.987	3.987	0.0	81	1536	1.70	
32 2,2'-oxybis[1-chloropropane]	45	3.992	3.991	0.001	58	1047	1.54	
17 Acetophenone	105	4.062	4.062	0.0	90	2844	1.94	
33 N-Nitrosodi-n-propylamine	70	4.067	4.071	-0.004	69	1582	1.89	
35 3 & 4 Methylphenol	108	4.086	4.086	0.001	0	1605	1.68	
36 Hexachloroethane	117	4.119	4.123	-0.004	83	974	2.27	
* 37 Naphthalene-d8	136	4.594	4.598	-0.004	100	121938	40.0	
$ 49 Nitrobenzene-d5	82	4.152	4.151	0.001	71	2026	1.78	
50 Nitrobenzene	77	4.161	4.165	-0.004	73	2270	1.94	
51 Isophorone	82	4.316	4.316	0.0	83	3666	1.83	
52 2-Nitrophenol	139	4.363	4.363	0.0	70	1049	1.82	
53 2,4-Dimethylphenol	107	4.405	4.405	0.0	86	2118	1.88	
54 Bis(2-chloroethoxy)methane	93	4.457	4.462	-0.005	89	2432	2.04	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
55 Benzoic acid	105	4.452	4.485	-0.033	58	1453	1.58	
56 2,4-Dichlorophenol	162	4.523	4.518	0.005	69	1913	2.00	
57 1,2,4-Trichlorobenzene	180	4.565	4.565	0.0	82	1849	1.81	
58 Naphthalene	128	4.608	4.612	-0.004	65	5969	1.99	
59 4-Chloroaniline	127	4.650	4.650	0.0	69	2074	1.61	
60 Hexachlorobutadiene	225	4.692	4.697	-0.005	70	1403	2.19	
42 Caprolactam	113	4.847	4.871	-0.024	58	545	2.02	
61 4-Chloro-3-methylphenol	107	4.960	4.965	-0.005	74	1983	1.86	
62 2-Methylnaphthalene	142	5.040	5.040	0.0	81	4312	1.91	
64 1-Methylnaphthalene	142	5.101	5.106	-0.005	71	4024	1.92	
47 1,2,4,5-Tetrachlorobenzene	216	5.148	5.153	-0.005	81	2453	2.07	
170 1,1'-Biphenyl	154	5.346	5.350	-0.004	92	5400	1.91	
* 69 Acenaphthene-d10	164	5.736	5.736	0.0	89	85077	40.0	
80 Hexachlorocyclopentadiene	237	5.148	5.148	0.0	26	699	2.06	
81 2,4,6-Trichlorophenol	196	5.228	5.233	-0.005	65	1219	1.63	
82 2,4,5-Trichlorophenol	196	5.257	5.261	-0.004	84	1573	1.90	
$ 83 2-Fluorobiphenyl (Surr)	172	5.285	5.285	0.0	90	5472	2.02	
84 2-Chloronaphthalene	162	5.355	5.360	-0.005	90	4432	2.00	
85 2-Nitroaniline	65	5.426	5.430	-0.004	46	1107	1.66	
86 Dimethyl phthalate	163	5.557	5.562	-0.005	91	5144	1.89	
76 1,3-Dinitrobenzene	168	5.572	5.576	-0.004	51	594	2.01	
87 2,6-Dinitrotoluene	165	5.595	5.600	-0.005	63	1040	1.65	
88 Acenaphthylene	152	5.633	5.637	-0.004	86	6473	1.85	
89 3-Nitroaniline	138	5.708	5.712	-0.004	81	1027	1.56	
90 Acenaphthene	153	5.755	5.760	-0.005	87	4832	2.04	
91 2,4-Dinitrophenol	184	5.788	5.788	0.0	55	813	4.08	
92 4-Nitrophenol	65	5.854	5.854	0.0	87	2322	3.95	
93 2,4-Dinitrotoluene	165	5.877	5.877	0.0	41	1344	1.49	
94 Dibenzofuran	168	5.877	5.882	-0.005	77	7041	2.07	
77 2,3,4,6-Tetrachlorophenol	232	5.971	5.976	-0.005	42	1455	1.88	
95 Diethyl phthalate	149	6.061	6.065	-0.004	91	5453	2.00	
197 Hexadecane	57	6.089	6.089	0.0	0	1939	1.84	
96 Fluorene	166	6.122	6.126	-0.004	76	5446	1.91	
97 4-Chlorophenyl phenyl ether	204	6.131	6.136	-0.005	80	3040	2.07	
98 4-Nitroaniline	138	6.141	6.150	-0.009	46	1012	1.50	
99 Azobenzene	77	6.244	6.249	-0.005	92	5003	1.86	
* 102 Phenanthrene-d10	188	6.822	6.827	-0.005	96	166702	40.0	
125 4,6-Dinitro-2-methylphenol	198	6.169	6.178	-0.009	79	1572	4.01	
126 N-Nitrosodiphenylamine	169	6.221	6.220	0.0	50	3447	2.01	
$ 127 2,4,6-Tribromophenol	330	6.300	6.305	-0.005	23	589	1.55	
128 4-Bromophenyl phenyl ether	248	6.493	6.498	-0.005	43	1832	2.06	
129 Hexachlorobenzene	284	6.536	6.535	0.001	77	1824	2.02	
168 Atrazine	200	6.630	6.639	-0.009	49	1615	1.83	
130 Pentachlorophenol	266	6.691	6.691	0.0	71	2444	3.72	
115 n-Octadecane	57	6.785	6.789	-0.004	75	2001	1.81	
131 Phenanthrene	178	6.841	6.841	0.0	91	8616	2.02	
132 Anthracene	178	6.879	6.883	-0.004	93	8244	1.90	
133 Carbazole	167	7.010	7.015	-0.005	88	8047	1.94	
134 Di-n-butyl phthalate	149	7.316	7.321	-0.005	93	8011	1.76	
135 Fluoranthene	202	7.772	7.772	0.0	90	9632	1.87	
* 136 Chrysene-d12	240	8.920	8.924	-0.004	80	218757	40.0	
146 Benzidine	184	7.895	7.894	0.0	42	2769	0.3736	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
152 Pyrene	202	7.946	7.951	-0.005	97	9907	1.94	
$ 147 Terphenyl-d14	244	8.097	8.101	-0.004	85	8437	2.07	
149 Butyl benzyl phthalate	149	8.511	8.515	-0.005	83	3749	1.81	
151 3,3'-Dichlorobenzidine	252	8.910	8.910	0.0	38	3547	1.88	
153 Benzo[a]anthracene	228	8.915	8.915	0.0	90	11628	2.10	
154 Chrysene	228	8.938	8.943	-0.005	84	11218	2.16	
155 Bis(2-ethylhexyl) phthalate	149	8.995	8.995	0.0	93	4907	1.69	
* 156 Perylene-d12	264	9.992	9.992	0.0	99	226320	40.0	
158 Di-n-octyl phthalate	149	9.493	9.493	0.0	88	8547	1.68	
159 Benzo[b]fluoranthene	252	9.724	9.728	-0.004	89	11120	1.86	
160 Benzo[k]fluoranthene	252	9.742	9.747	-0.005	91	12558	1.95	
161 Benzo[a]pyrene	252	9.949	9.954	-0.005	63	10388	1.85	
162 Indeno[1,2,3-cd]pyrene	276	10.735	10.744	-0.009	98	12583	1.89	
163 Dibenz(a,h)anthracene	278	10.753	10.763	-0.010	56	10497	1.89	
164 Benzo[g,h,i]perylene	276	10.946	10.955	-0.009	87	11336	1.98	
S 169 Methyl Phenols,Total	1				0		3.39	

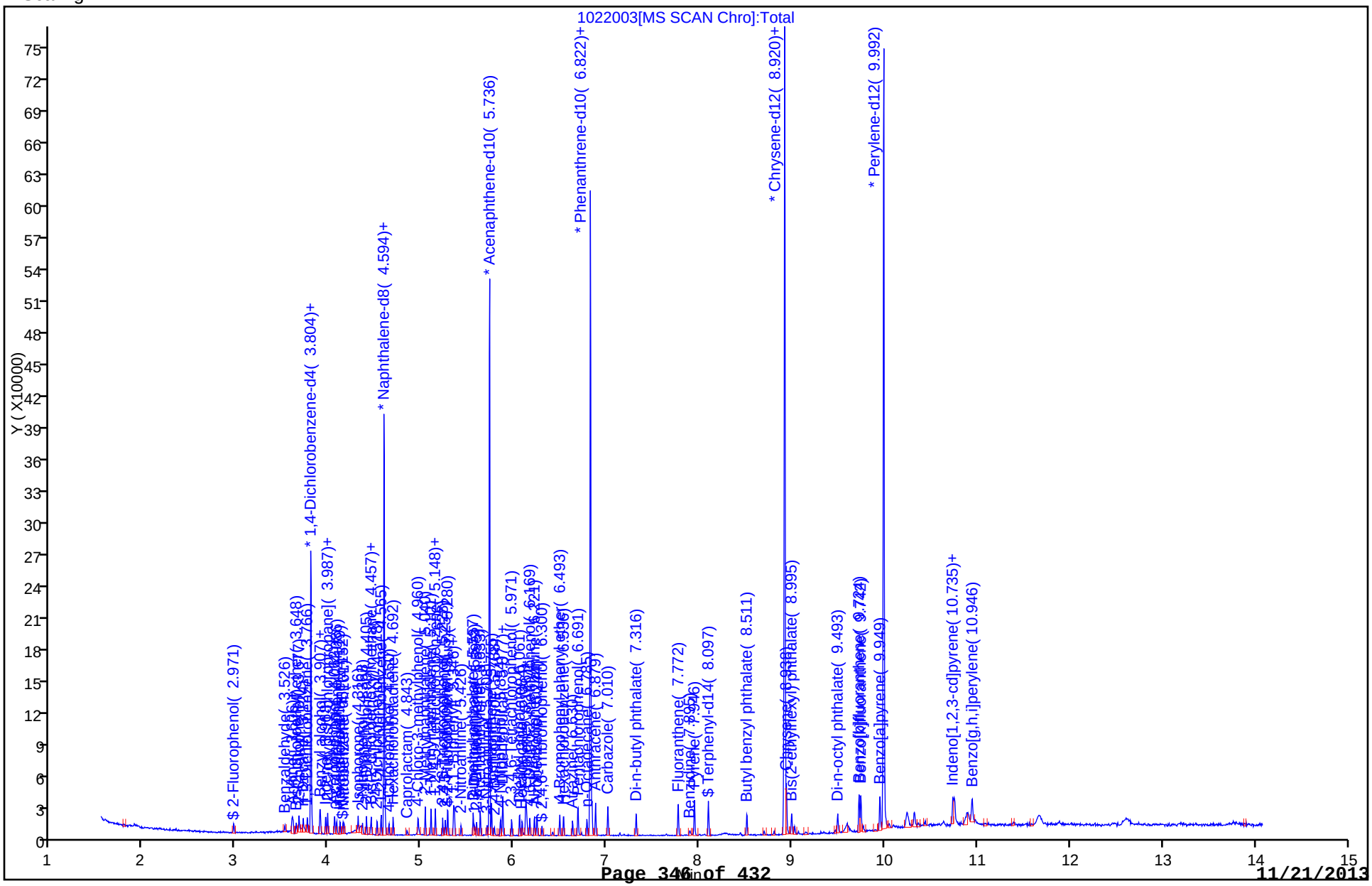
Report Date: 25-Oct-2013 12:55:18 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022003.D

Injection Date:	24-Oct-2013 13:51:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	3
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022004.D		
Lims ID:	std2	Client ID:	
Inject. Date:	24-Oct-2013 14:14:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	std2		
Misc. Info.:	490-0027300-004		
Operator:	HP83	Instrument ID:	HP83
Injection Vol:	1.0 uL	ALS Bottle#:	4
Lims Batch ID:	116774	Lims Sample ID:	4
Sublist:	chrom-8270HP83*sub16		
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\8270HP83.m		
Last Update:	25-Oct-2013 12:55:17	Calib Date:	24-Oct-2013 15:44:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D		
Limit Group:	MSS 8270C ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK029		
First Level Reviewer: salomonb		Date:	24-Oct-2013 14:37:23

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.803	3.808	-0.005	96	30392	40.0	
19 N-Nitrosodimethylamine	74	1.824	1.819	0.005	78	5755	10.1	
20 Pyridine	52	1.871	1.852	0.019	89	4400	9.50	
$ 21 2-Fluorophenol	112	2.971	2.971	0.0	87	8851	9.88	
3 Benzaldehyde	105	3.526	3.526	0.0	88	3812	10.2	
23 Aniline	93	3.601	3.601	0.0	95	15245	10.0	
$ 22 Phenol-d5	99	3.606	3.606	0.0	0	11744	9.59	
24 Phenol	94	3.615	3.615	0.0	91	12857	9.87	
25 Bis(2-chloroethyl)ether	93	3.648	3.648	0.0	99	9243	9.68	
26 2-Chlorophenol	128	3.677	3.676	0.001	94	9933	9.72	
6 n-Decane	57	3.724	3.723	0.001	92	7545	10.3	
27 1,3-Dichlorobenzene	146	3.766	3.770	-0.004	88	11269	9.79	
28 1,4-Dichlorobenzene	146	3.818	3.817	0.001	86	12130	10.2	
29 Benzyl alcohol	108	3.902	3.907	-0.005	88	7226	10.3	
30 1,2-Dichlorobenzene	146	3.912	3.912	0.0	94	11471	9.88	
12 Indene	115	3.963	3.968	-0.005	74	17906	10.1	
31 2-Methylphenol	108	3.987	3.987	0.0	93	9328	9.85	
32 2,2'-oxybis[1-chloropropane]	45	3.992	3.991	0.001	89	7475	10.4	
17 Acetophenone	105	4.062	4.062	0.0	93	14516	9.44	
33 N-Nitrosodi-n-propylamine	70	4.067	4.071	-0.004	88	8195	9.33	
35 3 & 4 Methylphenol	108	4.086	4.086	0.001	0	10189	10.2	
36 Hexachloroethane	117	4.119	4.123	-0.004	94	4287	9.53	
* 37 Naphthalene-d8	136	4.598	4.598	0.0	99	127594	40.0	
$ 49 Nitrobenzene-d5	82	4.151	4.151	0.0	85	12130	10.2	
50 Nitrobenzene	77	4.161	4.165	-0.004	81	12637	10.3	
51 Isophorone	82	4.316	4.316	0.0	96	21263	10.1	
52 2-Nitrophenol	139	4.363	4.363	0.0	93	6364	10.5	
53 2,4-Dimethylphenol	107	4.405	4.405	0.0	97	12021	10.2	
54 Bis(2-chloroethoxy)methane	93	4.457	4.462	-0.005	96	12717	10.2	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
55 Benzoic acid	105	4.457	4.485	-0.028	31	8406	8.76	M
56 2,4-Dichlorophenol	162	4.518	4.518	0.0	93	9510	9.51	
57 1,2,4-Trichlorobenzene	180	4.565	4.565	0.0	89	10692	10.0	
58 Naphthalene	128	4.608	4.612	-0.004	94	31843	10.2	
59 4-Chloroaniline	127	4.650	4.650	0.0	83	13420	9.95	
60 Hexachlorobutadiene	225	4.692	4.697	-0.005	94	6595	9.85	
42 Caprolactam	113	4.852	4.871	-0.019	78	3382	8.84	
61 4-Chloro-3-methylphenol	107	4.960	4.965	-0.005	87	11129	9.95	
62 2-Methylnaphthalene	142	5.040	5.040	0.0	88	23544	10.0	
64 1-Methylnaphthalene	142	5.101	5.106	-0.005	80	22224	10.1	
47 1,2,4,5-Tetrachlorobenzene	216	5.148	5.153	-0.005	97	12264	9.90	
170 1,1'-Biphenyl	154	5.346	5.350	-0.004	95	29809	10.1	
* 69 Acenaphthene-d10	164	5.736	5.736	0.0	91	87614	40.0	
80 Hexachlorocyclopentadiene	237	5.148	5.148	0.0	75	4846	8.35	
81 2,4,6-Trichlorophenol	196	5.228	5.233	-0.005	90	7927	10.3	
82 2,4,5-Trichlorophenol	196	5.256	5.261	-0.005	95	8779	10.3	
$ 83 2-Fluorobiphenyl (Surr)	172	5.285	5.285	0.0	99	27936	10.0	
84 2-Chloronaphthalene	162	5.355	5.360	-0.005	97	22258	9.75	
85 2-Nitroaniline	65	5.426	5.430	-0.004	80	6499	9.47	
86 Dimethyl phthalate	163	5.557	5.562	-0.005	98	27785	9.89	
76 1,3-Dinitrobenzene	168	5.576	5.576	0.0	80	4473	9.56	
87 2,6-Dinitrotoluene	165	5.595	5.600	-0.005	94	6808	10.5	
88 Acenaphthylene	152	5.633	5.637	-0.004	91	37018	10.3	
89 3-Nitroaniline	138	5.708	5.712	-0.004	93	6393	9.41	
90 Acenaphthene	153	5.755	5.760	-0.005	93	24292	9.94	
91 2,4-Dinitrophenol	184	5.783	5.788	-0.005	84	7708	17.5	
92 4-Nitrophenol	65	5.849	5.854	-0.005	95	11510	19.0	
93 2,4-Dinitrotoluene	165	5.877	5.877	0.0	89	9346	10.1	
94 Dibenzofuran	168	5.877	5.882	-0.005	84	35189	10.0	
77 2,3,4,6-Tetrachlorophenol	232	5.971	5.976	-0.005	73	8103	10.2	
95 Diethyl phthalate	149	6.061	6.065	-0.004	96	28478	10.2	
197 Hexadecane	57	6.084	6.089	-0.005	0	11396	10.5	
96 Fluorene	166	6.126	6.126	0.0	81	29068	9.91	
97 4-Chlorophenyl phenyl ether	204	6.131	6.136	-0.005	94	14943	9.86	
98 4-Nitroaniline	138	6.141	6.150	-0.010	84	7212	10.4	
99 Azobenzene	77	6.249	6.249	0.0	96	28177	10.2	
* 102 Phenanthrene-d10	188	6.822	6.827	-0.005	97	172758	40.0	
125 4,6-Dinitro-2-methylphenol	198	6.169	6.178	-0.009	88	12023	19.0	
126 N-Nitrosodiphenylamine	169	6.220	6.220	0.0	60	17480	9.86	
$ 127 2,4,6-Tribromophenol	330	6.300	6.305	-0.005	85	3723	9.44	
128 4-Bromophenyl phenyl ether	248	6.493	6.498	-0.005	60	8878	9.64	
129 Hexachlorobenzene	284	6.535	6.535	0.0	94	9317	9.97	
168 Atrazine	200	6.634	6.639	-0.005	90	8913	9.75	
130 Pentachlorophenol	266	6.691	6.691	0.0	89	13281	19.5	
115 n-Octadecane	57	6.785	6.789	-0.004	90	11576	10.1	
131 Phenanthrene	178	6.841	6.841	0.0	92	45303	10.2	
132 Anthracene	178	6.879	6.883	-0.004	97	45828	10.2	
133 Carbazole	167	7.010	7.015	-0.005	82	43915	10.2	
134 Di-n-butyl phthalate	149	7.316	7.321	-0.005	100	46888	9.91	
135 Fluoranthene	202	7.772	7.772	0.0	97	52803	9.91	
* 136 Chrysene-d12	240	8.920	8.924	-0.004	81	229706	40.0	
146 Benzidine	184	7.894	7.894	0.0	91	11644	6.97	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
152 Pyrene	202	7.946	7.951	-0.005	97	54345	10.1	
$ 147 Terphenyl-d14	244	8.097	8.101	-0.004	97	43355	10.1	
149 Butyl benzyl phthalate	149	8.510	8.515	-0.005	97	20142	9.25	
151 3,3'-Dichlorobenzidine	252	8.910	8.910	0.0	62	19122	9.63	
153 Benzo[a]anthracene	228	8.915	8.915	0.0	98	58316	10.0	
154 Chrysene	228	8.943	8.943	0.0	92	56010	10.3	
155 Bis(2-ethylhexyl) phthalate	149	8.995	8.995	0.0	94	29617	9.72	
* 156 Perylene-d12	264	9.992	9.992	0.0	87	230915	40.0	
158 Di-n-octyl phthalate	149	9.493	9.493	0.0	99	47576	9.18	
159 Benzo[b]fluoranthene	252	9.724	9.728	-0.004	92	58420	9.57	
160 Benzo[k]fluoranthene	252	9.742	9.747	-0.005	99	68532	10.4	
161 Benzo[a]pyrene	252	9.949	9.954	-0.005	74	55414	9.67	
162 Indeno[1,2,3-cd]pyrene	276	10.739	10.744	-0.005	95	65980	9.74	
163 Dibenz(a,h)anthracene	278	10.753	10.763	-0.010	65	56473	9.96	
164 Benzo[g,h,i]perylene	276	10.946	10.955	-0.009	93	55963	9.59	
S 169 Methyl Phenols,Total	1				0		20.0	

QC Flag Legend

Review Flags
M - Manually Integrated

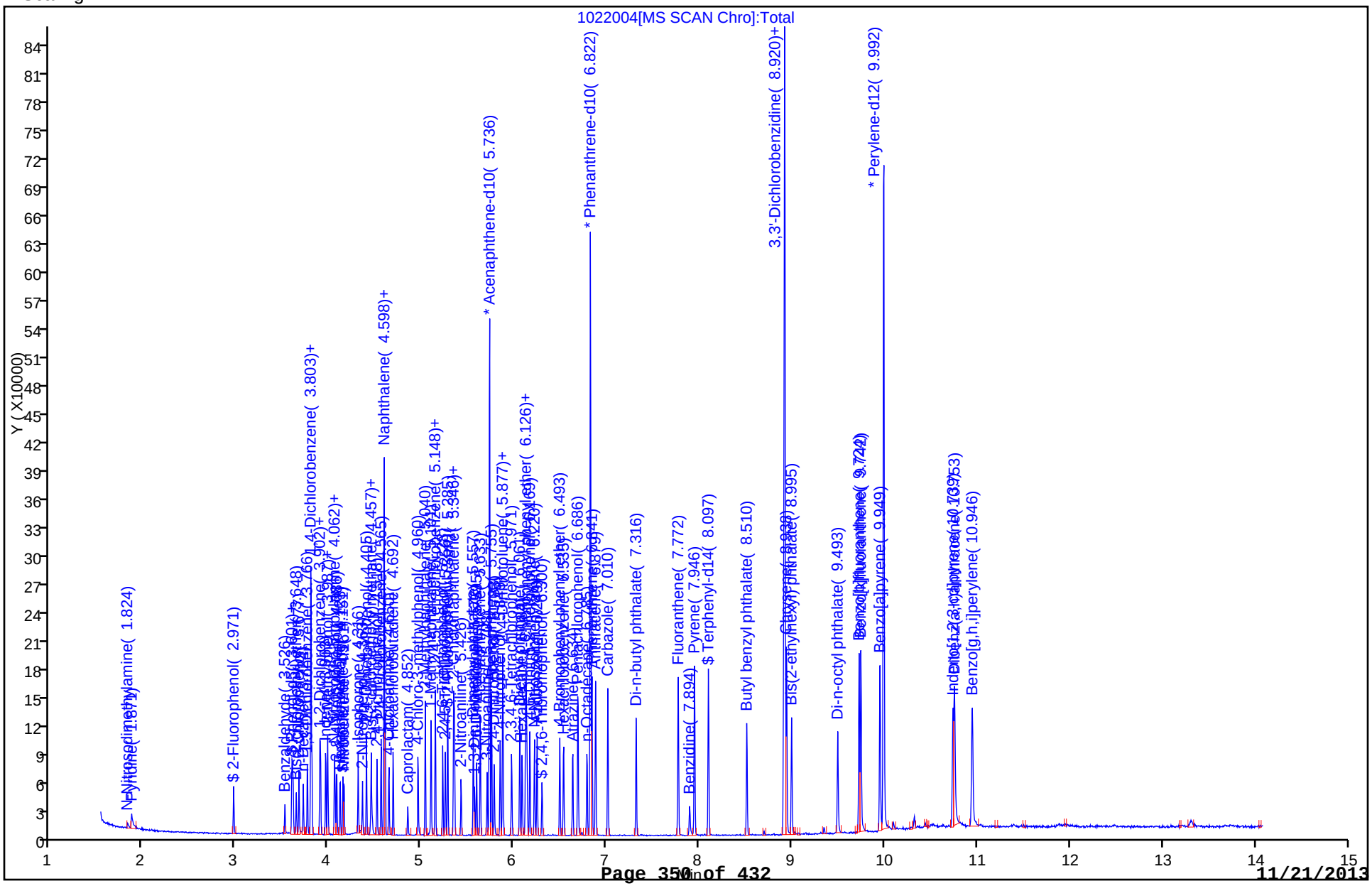
Report Date: 25-Oct-2013 12:55:17 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022004.D

Injection Date:	24-Oct-2013 14:14:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	4
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling:



Manual Integration/User Assign Peak Report

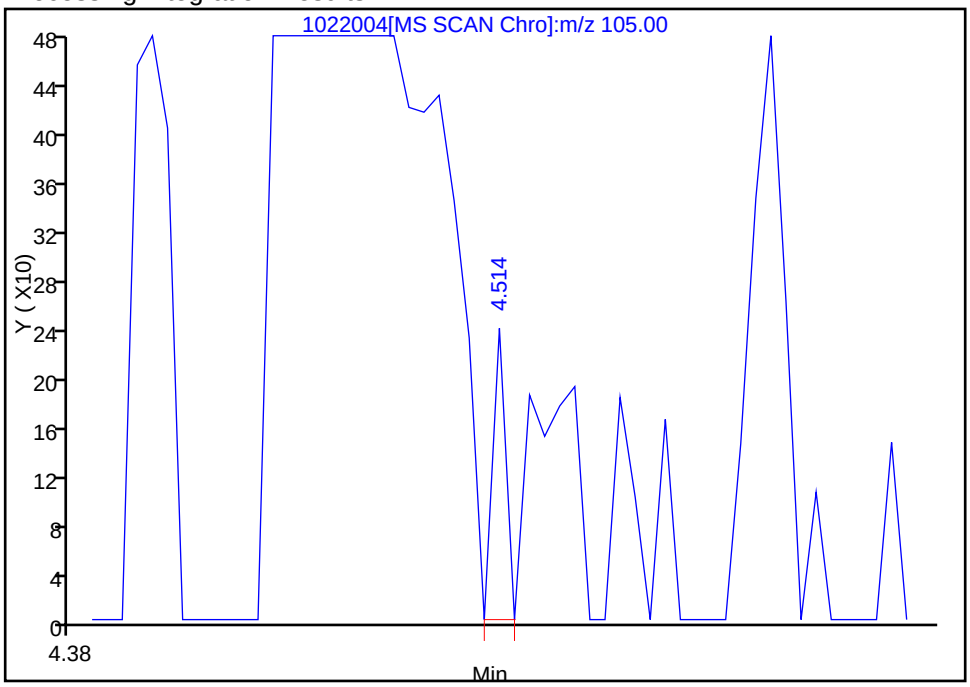
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022004.D		
Injection Date:	24-Oct-2013 14:14:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	4
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	

55 Benzoic acid, Signal: 1, m/z: 105.0 Type: quant, RT: 4.49

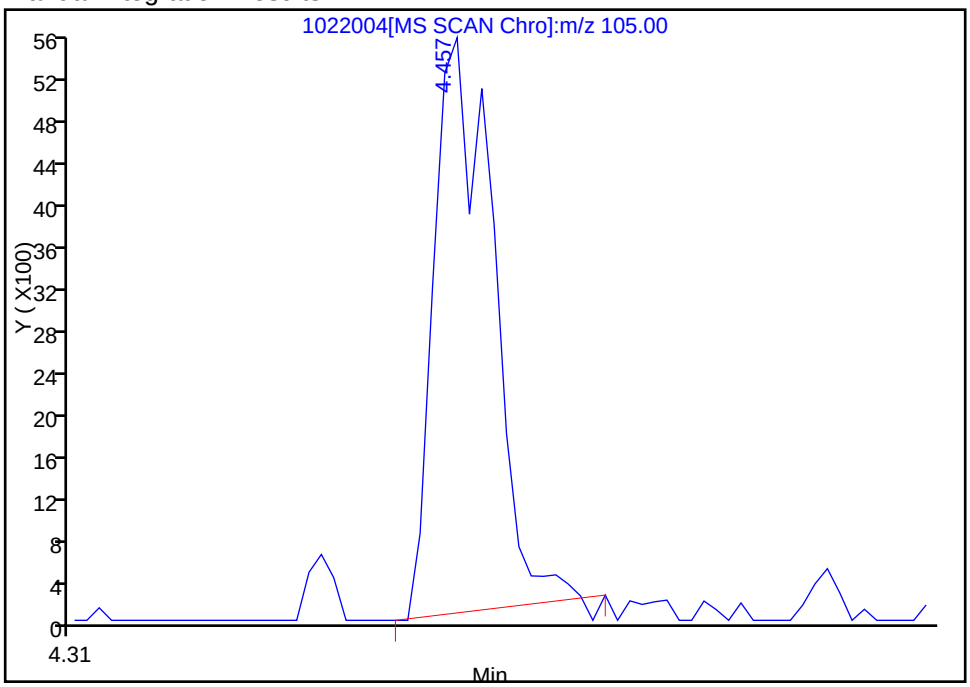
Processing Integration Results

RT: 4.51
Response: 68
Amount: 0.177315



Manual Integration Results

RT: 4.46
Response: 8406
Amount: 8.757814



Reviewer: salomonb, 24-Oct-2013 16:25:56
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022005.D		
Lims ID:	std3	Client ID:	
Inject. Date:	24-Oct-2013 14:36:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	std3		
Misc. Info.:	490-0027300-005		
Operator:	HP83	Instrument ID:	HP83
Injection Vol:	1.0 uL	ALS Bottle#:	5
Lims Batch ID:	116774	Lims Sample ID:	5
Sublist:	chrom-8270HP83*sub16		
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\8270HP83.m		
Last Update:	25-Oct-2013 12:55:16	Calib Date:	24-Oct-2013 15:44:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D		
Limit Group:	MSS 8270C ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK029		
First Level Reviewer: salomonb		Date:	24-Oct-2013 15:02:37

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.803	3.808	-0.005	93	30302	40.0	
19 N-Nitrosodimethylamine	74	1.819	1.819	0.0	78	11980	21.1	
20 Pyridine	52	1.861	1.852	0.009	92	10280	22.3	
$ 21 2-Fluorophenol	112	2.971	2.971	0.0	90	19648	22.0	
3 Benzaldehyde	105	3.526	3.526	0.0	91	8750	23.4	
23 Aniline	93	3.601	3.601	0.0	96	33837	22.3	
$ 22 Phenol-d5	99	3.606	3.606	0.0	0	27063	22.2	
24 Phenol	94	3.615	3.615	0.0	96	28247	21.8	
25 Bis(2-chloroethyl)ether	93	3.648	3.648	0.0	96	21504	22.6	
26 2-Chlorophenol	128	3.676	3.676	0.0	97	21809	21.4	
6 n-Decane	57	3.723	3.723	0.0	91	15410	21.0	
27 1,3-Dichlorobenzene	146	3.770	3.770	0.0	97	24904	21.7	
28 1,4-Dichlorobenzene	146	3.817	3.817	0.0	84	25889	21.9	
29 Benzyl alcohol	108	3.902	3.907	-0.005	87	14536	20.8	
30 1,2-Dichlorobenzene	146	3.912	3.912	0.0	96	24875	21.5	
12 Indene	115	3.968	3.968	0.0	70	39356	22.2	
31 2-Methylphenol	108	3.987	3.987	0.0	97	21023	22.3	
32 2,2'-oxybis[1-chloropropane]	45	3.991	3.991	0.0	90	16003	22.4	
17 Acetophenone	105	4.062	4.062	0.0	96	34331	22.4	
33 N-Nitrosodi-n-propylamine	70	4.067	4.071	-0.004	88	19580	22.4	
35 3 & 4 Methylphenol	108	4.085	4.086	0.0	0	22121	22.2	
36 Hexachloroethane	117	4.123	4.123	0.0	92	9769	21.8	
* 37 Naphthalene-d8	136	4.598	4.598	0.0	99	126040	40.0	
$ 49 Nitrobenzene-d5	82	4.151	4.151	0.0	85	26250	22.3	
50 Nitrobenzene	77	4.165	4.165	0.0	79	26696	22.0	
51 Isophorone	82	4.316	4.316	0.0	97	46279	22.4	
52 2-Nitrophenol	139	4.363	4.363	0.0	98	12393	20.8	
53 2,4-Dimethylphenol	107	4.405	4.405	0.0	97	25916	22.3	
54 Bis(2-chloroethoxy)methane	93	4.457	4.462	-0.005	99	27441	22.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
55 Benzoic acid	105	4.466	4.485	-0.019	83	20666	21.8	
56 2,4-Dichlorophenol	162	4.518	4.518	0.0	95	22201	22.5	
57 1,2,4-Trichlorobenzene	180	4.565	4.565	0.0	92	24091	22.8	
58 Naphthalene	128	4.607	4.612	-0.005	97	67767	21.9	
59 4-Chloroaniline	127	4.650	4.650	0.0	83	30522	22.9	
60 Hexachlorobutadiene	225	4.697	4.697	0.0	94	14424	21.8	
42 Caprolactam	113	4.857	4.871	-0.014	84	9084	22.9	
61 4-Chloro-3-methylphenol	107	4.965	4.965	0.0	88	24395	22.1	
62 2-Methylnaphthalene	142	5.040	5.040	0.0	89	52635	22.6	
64 1-Methylnaphthalene	142	5.101	5.106	-0.005	81	48123	22.2	
47 1,2,4,5-Tetrachlorobenzene	216	5.153	5.153	0.0	94	27233	22.3	
170 1,1'-Biphenyl	154	5.346	5.350	-0.004	95	66172	22.6	
* 69 Acenaphthene-d10	164	5.736	5.736	0.0	88	87015	40.0	
80 Hexachlorocyclopentadiene	237	5.148	5.148	0.0	95	12397	20.0	
81 2,4,6-Trichlorophenol	196	5.228	5.233	-0.005	93	17563	22.9	
82 2,4,5-Trichlorophenol	196	5.256	5.261	-0.005	94	18096	21.4	
$ 83 2-Fluorobiphenyl (Surr)	172	5.285	5.285	0.0	99	61223	22.1	
84 2-Chloronaphthalene	162	5.355	5.360	-0.005	98	50590	22.3	
85 2-Nitroaniline	65	5.426	5.430	-0.004	82	15490	22.7	
86 Dimethyl phthalate	163	5.562	5.562	0.0	99	62552	22.4	
76 1,3-Dinitrobenzene	168	5.576	5.576	0.0	82	10314	21.1	
87 2,6-Dinitrotoluene	165	5.595	5.600	-0.005	93	13777	21.4	
88 Acenaphthylene	152	5.637	5.637	0.0	91	80403	22.5	
89 3-Nitroaniline	138	5.708	5.712	-0.004	95	15722	23.3	
90 Acenaphthene	153	5.755	5.760	-0.005	94	53104	21.9	
91 2,4-Dinitrophenol	184	5.788	5.788	0.0	85	19851	41.6	
92 4-Nitrophenol	65	5.849	5.854	-0.005	96	25705	42.7	
93 2,4-Dinitrotoluene	165	5.877	5.877	0.0	90	21773	23.6	
94 Dibenzofuran	168	5.882	5.882	0.0	85	76371	22.0	
77 2,3,4,6-Tetrachlorophenol	232	5.976	5.976	0.0	70	16951	21.4	
95 Diethyl phthalate	149	6.060	6.065	-0.005	95	61266	22.0	
197 Hexadecane	57	6.084	6.089	-0.005	0	24212	22.5	
96 Fluorene	166	6.126	6.126	0.0	82	65033	22.3	
97 4-Chlorophenyl phenyl ether	204	6.131	6.136	-0.005	92	33929	22.6	
98 4-Nitroaniline	138	6.145	6.150	-0.005	55	15042	21.9	
99 Azobenzene	77	6.249	6.249	0.0	97	61814	22.4	
* 102 Phenanthrene-d10	188	6.822	6.827	-0.005	95	172289	40.0	
125 4,6-Dinitro-2-methylphenol	198	6.173	6.178	-0.005	92	28896	43.4	
126 N-Nitrosodiphenylamine	169	6.220	6.220	0.0	60	38886	22.0	
$ 127 2,4,6-Tribromophenol	330	6.305	6.305	0.0	90	9025	22.9	
128 4-Bromophenyl phenyl ether	248	6.493	6.498	-0.005	60	20639	22.5	
129 Hexachlorobenzene	284	6.535	6.535	0.0	95	20360	21.8	
168 Atrazine	200	6.634	6.639	-0.005	94	20720	22.7	
130 Pentachlorophenol	266	6.691	6.691	0.0	90	30669	45.1	
115 n-Octadecane	57	6.785	6.789	-0.004	91	25474	22.3	
131 Phenanthrene	178	6.841	6.841	0.0	96	97530	22.1	
132 Anthracene	178	6.879	6.883	-0.004	98	99618	22.3	
133 Carbazole	167	7.015	7.015	0.0	82	94841	22.1	
134 Di-n-butyl phthalate	149	7.321	7.321	0.0	100	105452	22.4	
135 Fluoranthene	202	7.772	7.772	0.0	97	119237	22.4	
* 136 Chrysene-d12	240	8.924	8.924	0.0	85	230648	40.0	
146 Benzidine	184	7.894	7.894	0.0	97	37844	26.6	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
152 Pyrene	202	7.946	7.951	-0.005	95	123037	22.8	
$ 147 Terphenyl-d14	244	8.097	8.101	-0.004	98	95821	22.3	
149 Butyl benzyl phthalate	149	8.515	8.515	0.0	95	49645	22.7	
151 3,3'-Dichlorobenzidine	252	8.910	8.910	0.0	68	43858	22.0	
153 Benzo[a]anthracene	228	8.915	8.915	0.0	98	129327	22.1	
154 Chrysene	228	8.943	8.943	0.0	92	122971	22.4	
155 Bis(2-ethylhexyl) phthalate	149	8.995	8.995	0.0	95	68740	22.5	
* 156 Perylene-d12	264	9.992	9.992	0.0	87	232116	40.0	
158 Di-n-octyl phthalate	149	9.493	9.493	0.0	99	116469	22.4	
159 Benzo[b]fluoranthene	252	9.723	9.728	-0.005	84	147675	24.1	
160 Benzo[k]fluoranthene	252	9.747	9.747	0.0	99	146452	22.1	
161 Benzo[a]pyrene	252	9.949	9.954	-0.005	75	128879	22.4	
162 Indeno[1,2,3-cd]pyrene	276	10.739	10.744	-0.005	99	153835	22.6	
163 Dibenz(a,h)anthracene	278	10.758	10.763	-0.005	71	127034	22.3	
164 Benzo[g,h,i]perylene	276	10.951	10.955	-0.004	93	133420	22.8	
S 169 Methyl Phenols,Total	1				0		44.5	

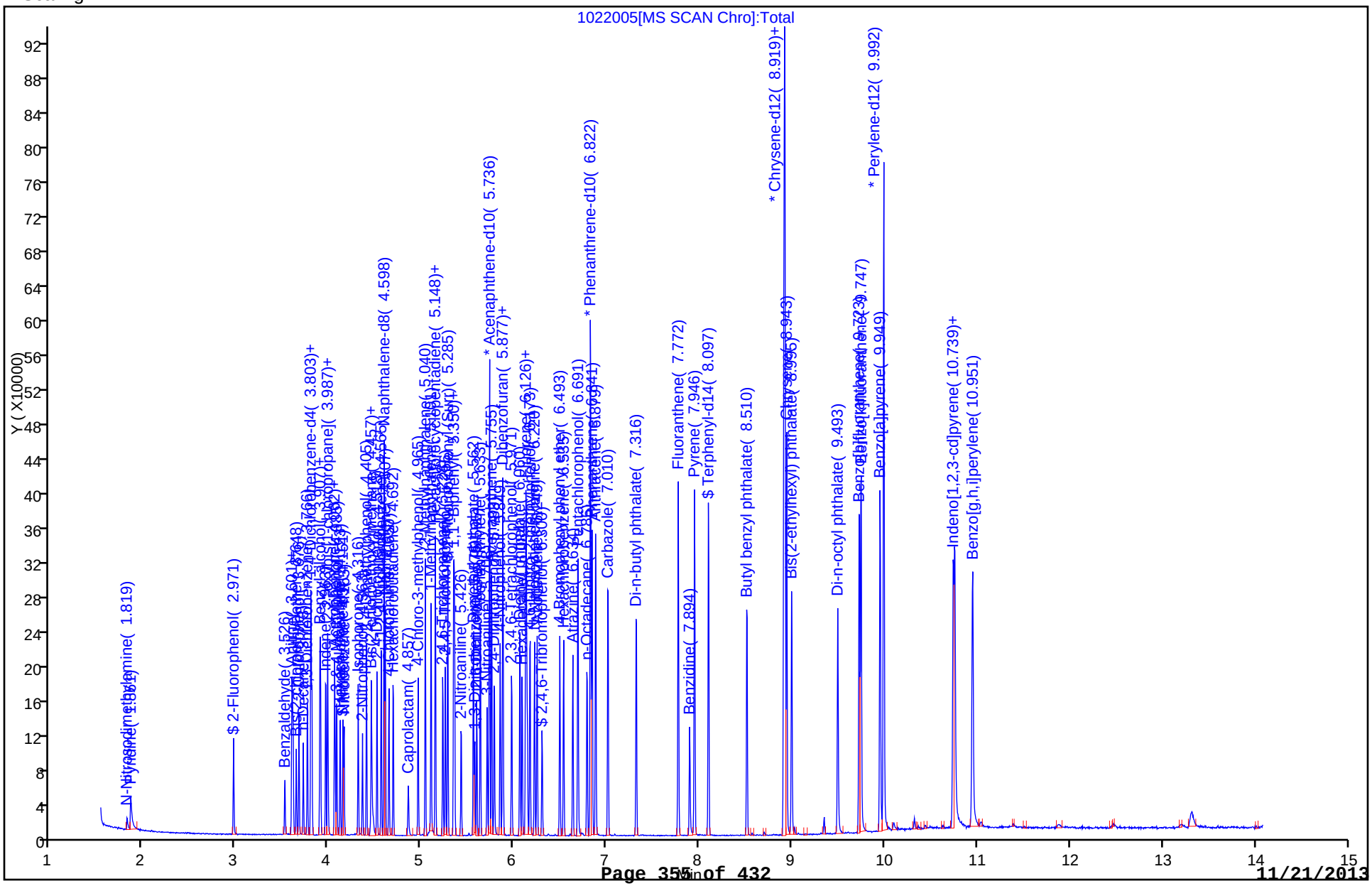
Report Date: 25-Oct-2013 12:55:16 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022005.D

Injection Date:	24-Oct-2013 14:36:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	5
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022006.D		
Lims ID:	icis	Client ID:	
Inject. Date:	24-Oct-2013 14:59:30	Dil. Factor:	1.0000
Sample Type:	ICIS	Calib Level:	4
Sample ID:	icis		
Misc. Info.:	490-0027300-006		
Operator:	HP83	Instrument ID:	HP83
Injection Vol:	1.0 uL	ALS Bottle#:	6
Lims Batch ID:	116774	Lims Sample ID:	6
Sublist:	chrom-8270HP83*sub16		
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\8270HP83.m		
Last Update:	25-Oct-2013 12:55:14	Calib Date:	24-Oct-2013 15:44:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D		
Limit Group:	MSS 8270C ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK029		
First Level Reviewer: salomonb		Date:	24-Oct-2013 16:23:35

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.808	3.808	0.0	94	30852	40.0	
19 N-Nitrosodimethylamine	74	1.819	1.819	0.0	83	30009	51.8	
20 Pyridine	52	1.852	1.852	0.0	92	21792	46.3	
$ 21 2-Fluorophenol	112	2.971	2.971	0.0	89	44175	48.6	
3 Benzaldehyde	105	3.526	3.526	0.0	93	18889	49.6	
23 Aniline	93	3.601	3.601	0.0	96	75987	49.2	
$ 22 Phenol-d5	99	3.606	3.606	0.0	0	61038	49.1	
24 Phenol	94	3.615	3.615	0.0	95	62141	47.0	
25 Bis(2-chloroethyl)ether	93	3.648	3.648	0.0	99	45622	47.1	
26 2-Chlorophenol	128	3.676	3.676	0.0	96	49738	47.9	
6 n-Decane	57	3.723	3.723	0.0	91	35297	47.3	
27 1,3-Dichlorobenzene	146	3.770	3.770	0.0	97	56053	48.0	
28 1,4-Dichlorobenzene	146	3.817	3.817	0.0	91	55426	46.0	
29 Benzyl alcohol	108	3.907	3.907	0.0	88	34377	48.2	
30 1,2-Dichlorobenzene	146	3.912	3.912	0.0	96	55223	46.8	
12 Indene	115	3.968	3.968	0.0	74	88148	48.9	
31 2-Methylphenol	108	3.987	3.987	0.0	94	46443	48.3	
32 2,2'-oxybis[1-chloropropane]	45	3.991	3.991	0.0	88	36121	49.7	
17 Acetophenone	105	4.062	4.062	0.0	95	75450	48.3	
33 N-Nitrosodi-n-propylamine	70	4.071	4.071	0.0	90	43427	48.7	
35 3 & 4 Methylphenol	108	4.086	4.086	0.0	0	49941	49.2	
36 Hexachloroethane	117	4.123	4.123	0.0	91	20972	45.9	
* 37 Naphthalene-d8	136	4.598	4.598	0.0	99	129669	40.0	
$ 49 Nitrobenzene-d5	82	4.151	4.151	0.0	87	60631	50.1	
50 Nitrobenzene	77	4.165	4.165	0.0	76	60919	48.9	
51 Isophorone	82	4.316	4.316	0.0	97	105717	49.7	
52 2-Nitrophenol	139	4.363	4.363	0.0	97	30741	50.1	
53 2,4-Dimethylphenol	107	4.405	4.405	0.0	98	58430	48.8	
54 Bis(2-chloroethoxy)methane	93	4.462	4.462	0.0	97	59347	46.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
55 Benzoic acid	105	4.485	4.485	0.0	82	51662	53.0	
56 2,4-Dichlorophenol	162	4.518	4.518	0.0	96	49696	48.9	
57 1,2,4-Trichlorobenzene	180	4.565	4.565	0.0	93	54486	50.2	
58 Naphthalene	128	4.612	4.612	0.0	97	155477	48.8	
59 4-Chloroaniline	127	4.650	4.650	0.0	82	70137	51.2	
60 Hexachlorobutadiene	225	4.697	4.697	0.0	91	31999	47.0	
42 Caprolactam	113	4.871	4.871	0.0	83	19955	48.3	M
61 4-Chloro-3-methylphenol	107	4.965	4.965	0.0	89	56836	50.0	
62 2-Methylnaphthalene	142	5.040	5.040	0.0	85	116172	48.5	
64 1-Methylnaphthalene	142	5.106	5.106	0.0	80	109382	49.1	
47 1,2,4,5-Tetrachlorobenzene	216	5.153	5.153	0.0	94	59452	47.2	
170 1,1'-Biphenyl	154	5.350	5.350	0.0	95	145252	48.3	
* 69 Acenaphthene-d10	164	5.736	5.736	0.0	90	89150	40.0	
80 Hexachlorocyclopentadiene	237	5.148	5.148	0.0	94	33483	51.1	
81 2,4,6-Trichlorophenol	196	5.233	5.233	0.0	88	39880	50.8	
82 2,4,5-Trichlorophenol	196	5.261	5.261	0.0	94	42858	49.5	
$ 83 2-Fluorobiphenyl (Surr)	172	5.285	5.285	0.0	99	137830	48.7	
84 2-Chloronaphthalene	162	5.360	5.360	0.0	95	113325	48.8	
85 2-Nitroaniline	65	5.430	5.430	0.0	82	34947	50.0	
86 Dimethyl phthalate	163	5.562	5.562	0.0	98	141446	49.5	
76 1,3-Dinitrobenzene	168	5.576	5.576	0.0	82	25264	49.4	
87 2,6-Dinitrotoluene	165	5.600	5.600	0.0	89	33111	50.3	
88 Acenaphthylene	152	5.637	5.637	0.0	91	180699	49.3	
89 3-Nitroaniline	138	5.712	5.712	0.0	95	35815	51.8	
90 Acenaphthene	153	5.760	5.760	0.0	95	122323	49.2	
91 2,4-Dinitrophenol	184	5.788	5.788	0.0	84	49819	98.3	
92 4-Nitrophenol	65	5.854	5.854	0.0	96	60713	98.5	
93 2,4-Dinitrotoluene	165	5.877	5.877	0.0	87	48069	50.8	
94 Dibenzofuran	168	5.882	5.882	0.0	84	172022	48.3	
77 2,3,4,6-Tetrachlorophenol	232	5.976	5.976	0.0	70	40390	49.9	
95 Diethyl phthalate	149	6.065	6.065	0.0	96	137874	48.3	
197 Hexadecane	57	6.089	6.089	0.0	0	53703	48.6	
96 Fluorene	166	6.126	6.126	0.0	82	146802	49.2	
97 4-Chlorophenyl phenyl ether	204	6.136	6.136	0.0	88	72699	47.2	
98 4-Nitroaniline	138	6.150	6.150	0.0	78	35966	51.0	
99 Azobenzene	77	6.249	6.249	0.0	97	136818	48.5	
* 102 Phenanthrene-d10	188	6.827	6.827	0.0	96	177018	40.0	
125 4,6-Dinitro-2-methylphenol	198	6.178	6.178	0.0	91	68218	97.7	
126 N-Nitrosodiphenylamine	169	6.220	6.220	0.0	61	88094	48.5	
$ 127 2,4,6-Tribromophenol	330	6.305	6.305	0.0	91	20921	51.7	
128 4-Bromophenyl phenyl ether	248	6.498	6.498	0.0	60	45521	48.2	
129 Hexachlorobenzene	284	6.535	6.535	0.0	92	45917	47.9	
168 Atrazine	200	6.639	6.639	0.0	93	46489	49.6	
130 Pentachlorophenol	266	6.691	6.691	0.0	89	68291	97.8	
115 n-Octadecane	57	6.789	6.789	0.0	90	57121	48.7	
131 Phenanthrene	178	6.841	6.841	0.0	97	218070	48.1	
132 Anthracene	178	6.883	6.883	0.0	97	221305	48.1	
133 Carbazole	167	7.015	7.015	0.0	82	214328	48.6	
134 Di-n-butyl phthalate	149	7.321	7.321	0.0	100	244100	50.4	
135 Fluoranthene	202	7.772	7.772	0.0	98	271783	49.8	
* 136 Chrysene-d12	240	8.924	8.924	0.0	82	243911	40.0	
146 Benzidine	184	7.894	7.894	0.0	98	71305	48.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
152 Pyrene	202	7.951	7.951	0.0	98	277667	48.7	
$ 147 Terphenyl-d14	244	8.101	8.101	0.0	99	217310	47.9	
149 Butyl benzyl phthalate	149	8.515	8.515	0.0	96	115411	49.9	
151 3,3'-Dichlorobenzidine	252	8.910	8.910	0.0	71	104602	49.6	
153 Benzo[a]anthracene	228	8.915	8.915	0.0	99	296018	47.8	
154 Chrysene	228	8.943	8.943	0.0	92	276500	47.7	
155 Bis(2-ethylhexyl) phthalate	149	8.995	8.995	0.0	96	163260	50.5	
* 156 Perylene-d12	264	9.992	9.992	0.0	87	246383	40.0	
158 Di-n-octyl phthalate	149	9.493	9.493	0.0	100	280381	50.7	
159 Benzo[b]fluoranthene	252	9.728	9.728	0.0	90	315682	48.5	
160 Benzo[k]fluoranthene	252	9.747	9.747	0.0	96	345405	49.1	
161 Benzo[a]pyrene	252	9.954	9.954	0.0	75	308385	50.4	
162 Indeno[1,2,3-cd]pyrene	276	10.744	10.744	0.0	99	353721	48.9	
163 Dibenz(a,h)anthracene	278	10.763	10.763	0.0	72	298406	49.3	
164 Benzo[g,h,i]perylene	276	10.955	10.955	0.0	94	306223	49.2	
S 169 Methyl Phenols,Total	1				0		97.5	

QC Flag Legend

Review Flags
M - Manually Integrated

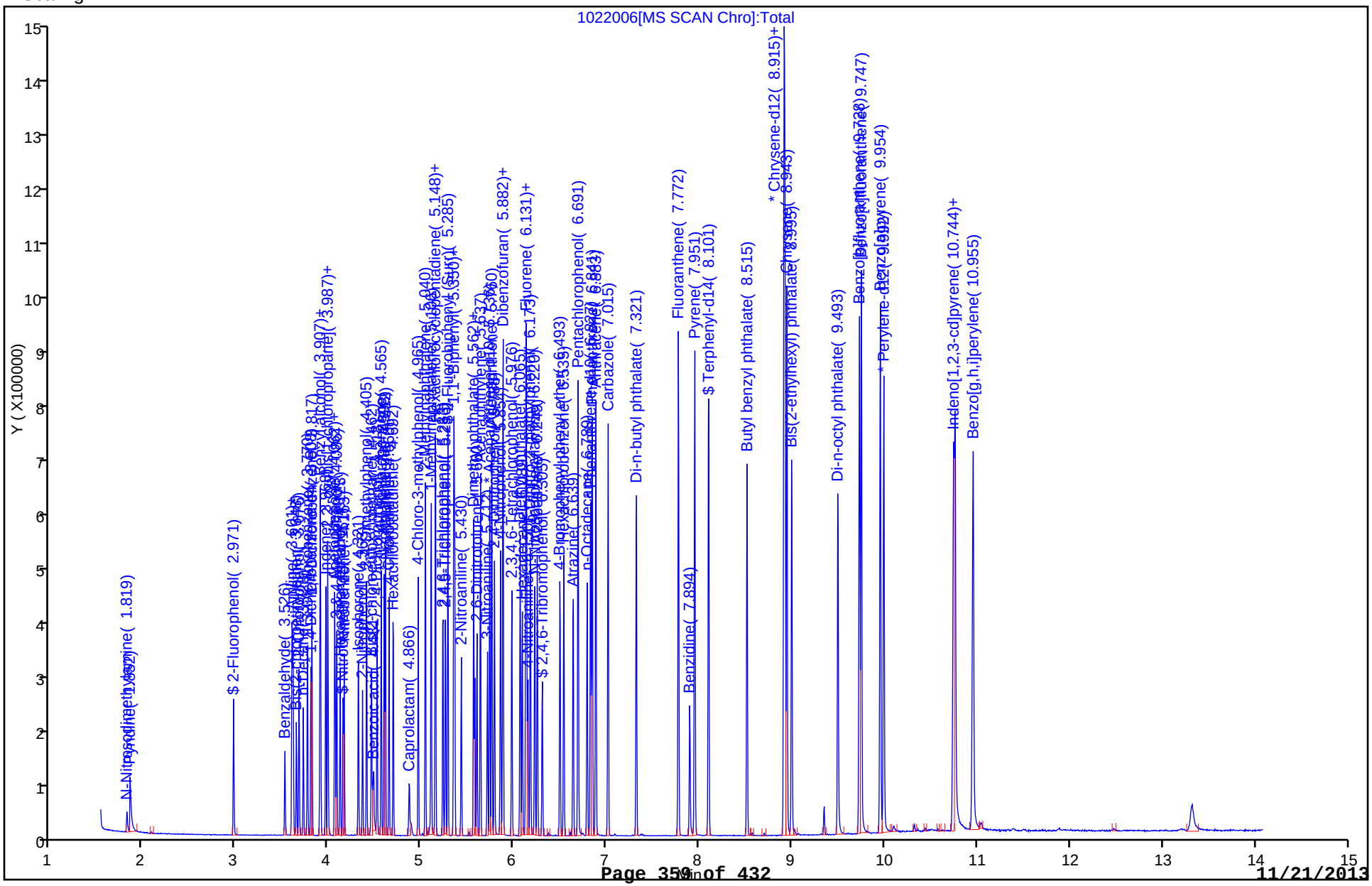
Report Date: 25-Oct-2013 12:55:15 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022006.D

Injection Date:	24-Oct-2013 14:59:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	6
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling:



Manual Integration/User Assign Peak Report

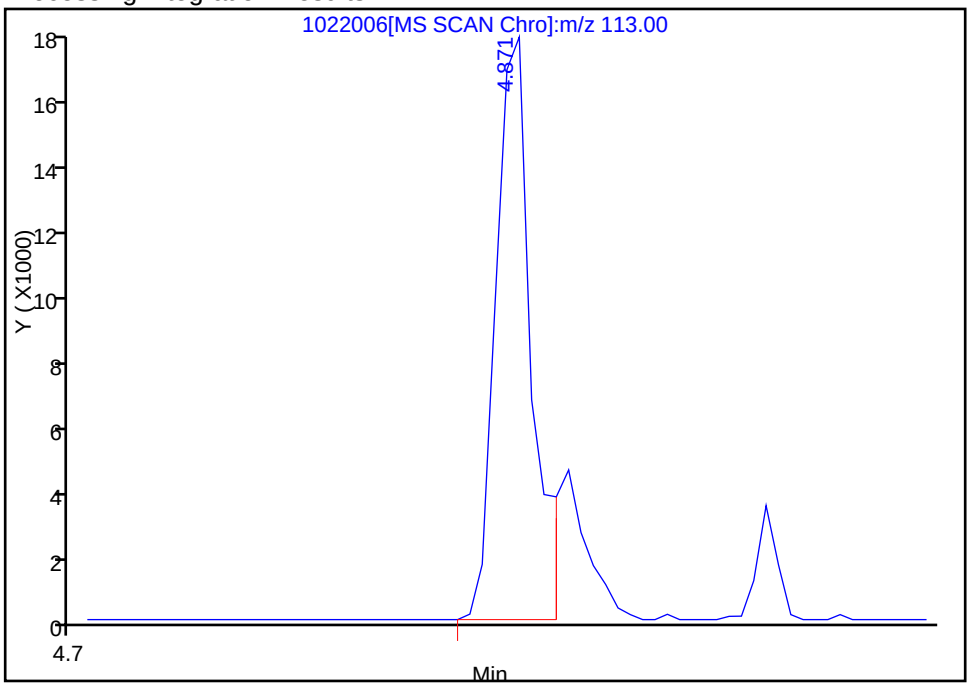
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022006.D		
Injection Date:	24-Oct-2013 14:59:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	6
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	

42 Caprolactam, Signal: 1, m/z: 113.0 Type: quant, RT: 4.87

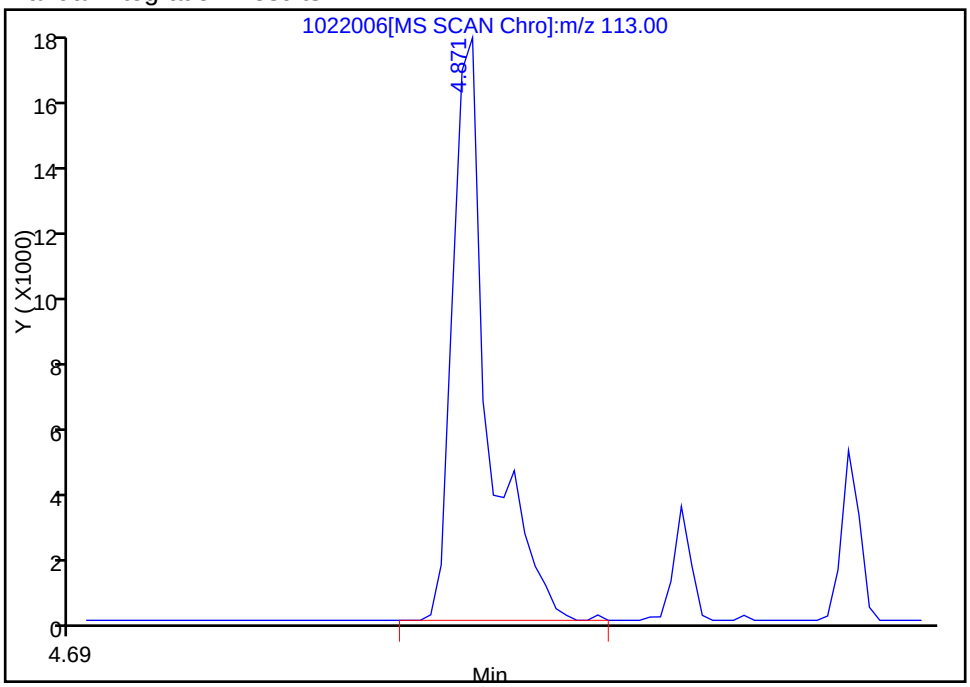
Processing Integration Results

RT: 4.87
Response: 16958
Amount: 43.022493



Manual Integration Results

RT: 4.87
Response: 19955
Amount: 48.270550



Reviewer: salomonb, 24-Oct-2013 16:23:35
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022007.D
Lims ID: std5 Client ID:
Inject. Date: 24-Oct-2013 15:21:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: std5
Misc. Info.: 490-0027300-007
Operator: HP83 Instrument ID: HP83
Injection Vol: 1.0 uL ALS Bottle#: 7
Lims Batch ID: 116774 Lims Sample ID: 7
Sublist: chrom-8270HP83*sub16
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP83\20131024-27300.b\8270HP83.m
Last Update: 25-Oct-2013 12:55:13 Calib Date: 24-Oct-2013 15:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D
Limit Group: MSS 8270C ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK029

First Level Reviewer: salomonb Date: 24-Oct-2013 16:23:17

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.808	3.808	0.0	95	30540	40.0	
19 N-Nitrosodimethylamine	74	1.819	1.819	0.0	78	48562	84.7	
20 Pyridine	52	1.852	1.852	0.0	93	38944	83.7	
$ 21 2-Fluorophenol	112	2.971	2.971	0.0	92	70454	78.2	
3 Benzaldehyde	105	3.526	3.526	0.0	93	30639	81.2	
23 Aniline	93	3.601	3.601	0.0	96	124324	81.4	
$ 22 Phenol-d5	99	3.611	3.606	0.005	0	99138	80.6	
24 Phenol	94	3.615	3.615	0.0	95	103500	79.1	
25 Bis(2-chloroethyl)ether	93	3.653	3.648	0.005	99	74758	77.9	
26 2-Chlorophenol	128	3.676	3.676	0.0	96	79032	76.9	
6 n-Decane	57	3.723	3.723	0.0	90	56304	76.1	
27 1,3-Dichlorobenzene	146	3.770	3.770	0.0	95	90529	78.2	
28 1,4-Dichlorobenzene	146	3.817	3.817	0.0	92	90799	76.1	
29 Benzyl alcohol	108	3.907	3.907	0.0	88	57475	81.4	
30 1,2-Dichlorobenzene	146	3.912	3.912	0.0	95	90444	77.5	
12 Indene	115	3.968	3.968	0.0	71	139770	78.3	
31 2-Methylphenol	108	3.991	3.987	0.004	94	78729	82.8	
32 2,2'-oxybis[1-chloropropane]	45	3.991	3.991	0.0	89	58908	81.9	
17 Acetophenone	105	4.067	4.062	0.005	95	122834	79.5	
33 N-Nitrosodi-n-propylamine	70	4.071	4.071	0.0	90	70867	80.3	
35 3 & 4 Methylphenol	108	4.086	4.086	0.0	0	80593	80.2	
36 Hexachloroethane	117	4.123	4.123	0.0	92	34227	75.7	
* 37 Naphthalene-d8	136	4.598	4.598	0.0	99	131567	40.0	
$ 49 Nitrobenzene-d5	82	4.156	4.151	0.005	85	98208	80.0	
50 Nitrobenzene	77	4.165	4.165	0.0	80	96863	76.6	
51 Isophorone	82	4.321	4.316	0.005	97	169449	78.4	
52 2-Nitrophenol	139	4.363	4.363	0.0	97	49238	79.2	
53 2,4-Dimethylphenol	107	4.410	4.405	0.005	97	94438	77.8	
54 Bis(2-chloroethoxy)methane	93	4.462	4.462	0.0	98	97385	75.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
55 Benzoic acid	105	4.495	4.485	0.010	83	86311	87.2	
56 2,4-Dichlorophenol	162	4.523	4.518	0.005	93	80174	77.7	
57 1,2,4-Trichlorobenzene	180	4.565	4.565	0.0	89	86364	78.4	
58 Naphthalene	128	4.612	4.612	0.0	98	250267	77.4	
59 4-Chloroaniline	127	4.650	4.650	0.0	81	113618	81.7	
60 Hexachlorobutadiene	225	4.697	4.697	0.0	92	51838	75.1	
42 Caprolactam	113	4.880	4.871	0.009	87	33365	79.1	M
61 4-Chloro-3-methylphenol	107	4.965	4.965	0.0	92	90226	78.2	
62 2-Methylnaphthalene	142	5.045	5.040	0.005	85	190755	78.5	
64 1-Methylnaphthalene	142	5.106	5.106	0.0	79	173829	76.9	
47 1,2,4,5-Tetrachlorobenzene	216	5.153	5.153	0.0	94	97882	76.6	
170 1,1'-Biphenyl	154	5.350	5.350	0.0	96	236641	77.5	
* 69 Acenaphthene-d10	164	5.736	5.736	0.0	91	91776	40.0	
80 Hexachlorocyclopentadiene	237	5.148	5.148	0.0	96	55990	82.4	
81 2,4,6-Trichlorophenol	196	5.233	5.233	0.0	91	64071	79.2	
82 2,4,5-Trichlorophenol	196	5.261	5.261	0.0	95	70153	78.6	
$ 83 2-Fluorobiphenyl (Surr)	172	5.285	5.285	0.0	99	222091	76.2	
84 2-Chloronaphthalene	162	5.360	5.360	0.0	97	183132	76.6	
85 2-Nitroaniline	65	5.430	5.430	0.0	82	59553	82.8	
86 Dimethyl phthalate	163	5.567	5.562	0.005	98	229896	78.1	
76 1,3-Dinitrobenzene	168	5.581	5.576	0.005	86	41922	79.1	
87 2,6-Dinitrotoluene	165	5.600	5.600	0.0	88	55450	81.8	
88 Acenaphthylene	152	5.637	5.637	0.0	91	293551	77.8	
89 3-Nitroaniline	138	5.712	5.712	0.0	95	58542	82.2	
90 Acenaphthene	153	5.760	5.760	0.0	94	196434	76.7	
91 2,4-Dinitrophenol	184	5.792	5.788	0.004	84	86615	164.4	
92 4-Nitrophenol	65	5.858	5.854	0.004	95	101485	160.0	
93 2,4-Dinitrotoluene	165	5.882	5.877	0.005	62	79300	81.5	
94 Dibenzofuran	168	5.882	5.882	0.0	82	281891	76.8	
77 2,3,4,6-Tetrachlorophenol	232	5.976	5.976	0.0	69	65301	78.3	
95 Diethyl phthalate	149	6.065	6.065	0.0	97	225381	76.7	
197 Hexadecane	57	6.089	6.089	0.0	0	87979	77.4	
96 Fluorene	166	6.126	6.126	0.0	83	239972	78.1	
97 4-Chlorophenyl phenyl ether	204	6.136	6.136	0.0	90	120425	75.9	
98 4-Nitroaniline	138	6.154	6.150	0.004	78	60422	83.2	
99 Azobenzene	77	6.253	6.249	0.004	96	228447	78.7	
* 102 Phenanthrene-d10	188	6.827	6.827	0.0	96	185480	40.0	
125 4,6-Dinitro-2-methylphenol	198	6.178	6.178	0.0	89	113560	154.2	
126 N-Nitrosodiphenylamine	169	6.225	6.220	0.005	60	145333	76.3	
$ 127 2,4,6-Tribromophenol	330	6.305	6.305	0.0	90	35002	82.6	
128 4-Bromophenyl phenyl ether	248	6.498	6.498	0.0	57	74711	75.5	
129 Hexachlorobenzene	284	6.535	6.535	0.0	92	76526	76.3	
168 Atrazine	200	6.639	6.639	0.0	92	76638	78.1	
130 Pentachlorophenol	266	6.691	6.691	0.0	89	114243	156.1	
115 n-Octadecane	57	6.789	6.789	0.0	92	95901	78.0	
131 Phenanthrene	178	6.846	6.841	0.005	97	355819	74.9	
132 Anthracene	178	6.883	6.883	0.0	97	370829	76.9	
133 Carbazole	167	7.015	7.015	0.0	83	352170	76.2	
134 Di-n-butyl phthalate	149	7.321	7.321	0.0	100	398606	78.5	
135 Fluoranthene	202	7.777	7.772	0.005	98	440996	77.1	
* 136 Chrysene-d12	240	8.929	8.924	0.005	80	253585	40.0	
146 Benzidine	184	7.899	7.894	0.005	98	116540	77.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
152 Pyrene	202	7.951	7.951	0.0	97	453920	76.5	
$ 147 Terphenyl-d14	244	8.101	8.101	0.0	98	354099	75.0	
149 Butyl benzyl phthalate	149	8.515	8.515	0.0	98	192996	80.3	
151 3,3'-Dichlorobenzidine	252	8.915	8.910	0.005	67	173349	79.1	
153 Benzo[a]anthracene	228	8.919	8.915	0.004	99	484282	75.3	
154 Chrysene	228	8.948	8.943	0.005	93	429731	71.3	
155 Bis(2-ethylhexyl) phthalate	149	8.999	8.995	0.004	95	274434	81.6	
* 156 Perylene-d12	264	9.992	9.992	0.0	86	251505	40.0	
158 Di-n-octyl phthalate	149	9.498	9.493	0.005	99	474258	84.1	
159 Benzo[b]fluoranthene	252	9.733	9.728	0.005	91	523092	78.7	
160 Benzo[k]fluoranthene	252	9.752	9.747	0.005	99	540548	75.3	
161 Benzo[a]pyrene	252	9.959	9.954	0.005	76	495232	79.4	
162 Indeno[1,2,3-cd]pyrene	276	10.749	10.744	0.005	96	581306	78.8	
163 Dibenz(a,h)anthracene	278	10.767	10.763	0.004	69	485876	78.6	
164 Benzo[g,h,i]perylene	276	10.960	10.955	0.005	90	489529	77.0	
S 169 Methyl Phenols,Total	1				0		163.0	

QC Flag Legend

Review Flags
M - Manually Integrated

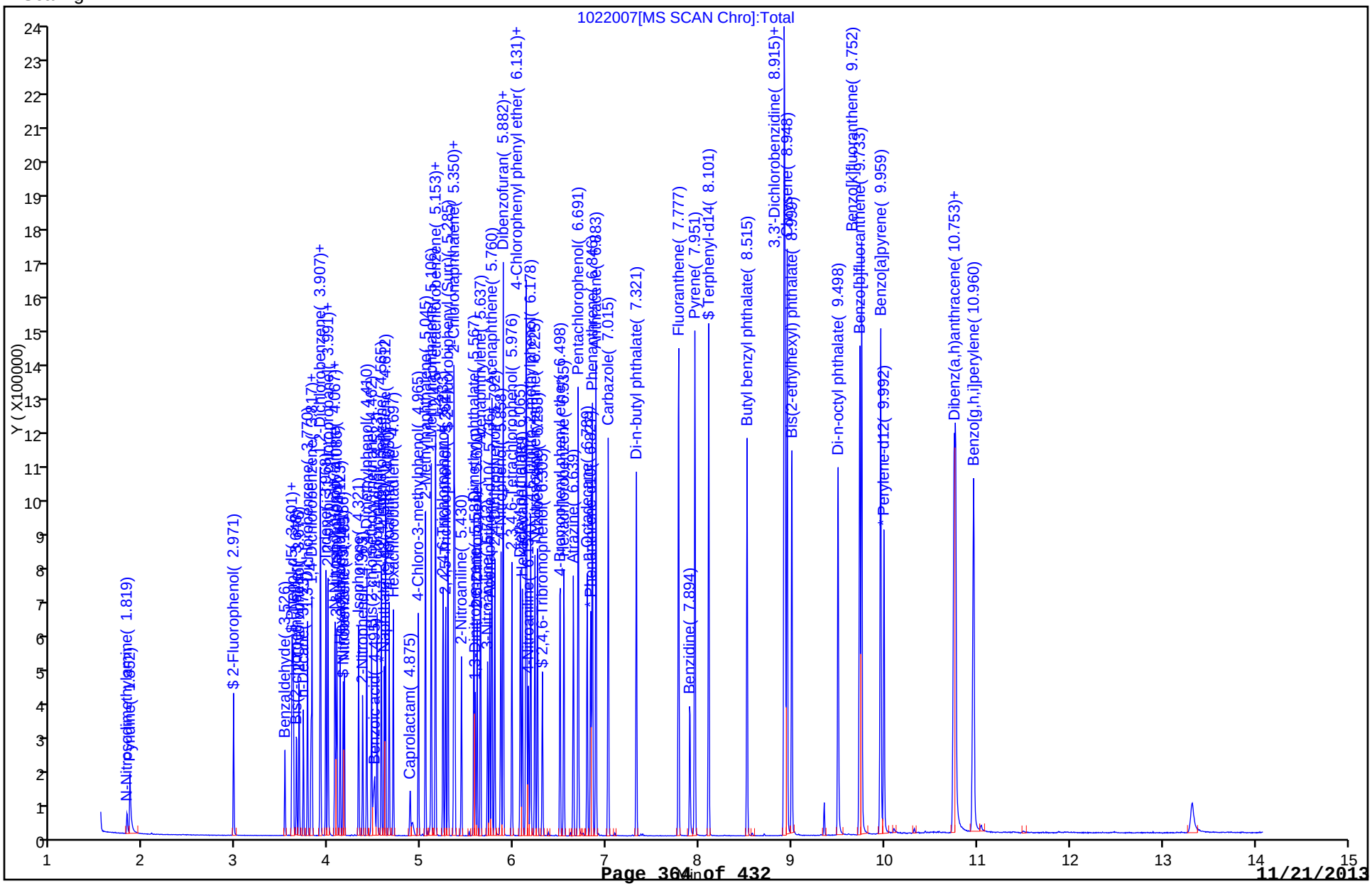
Report Date: 25-Oct-2013 12:55:13 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022007.D

Injection Date:	24-Oct-2013 15:21:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	7
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling:



Manual Integration/User Assign Peak Report

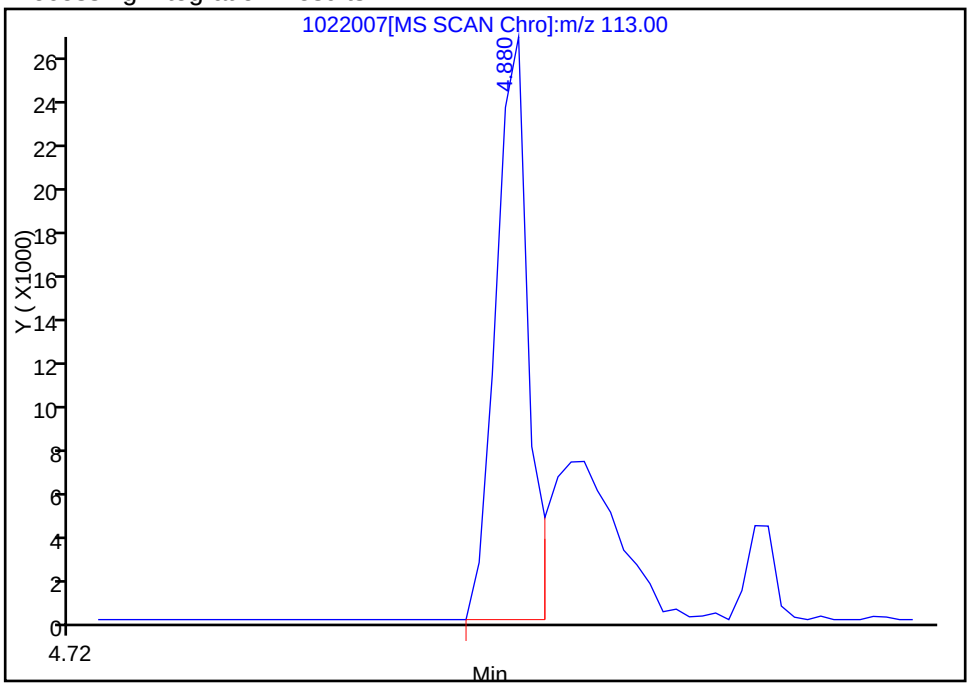
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022007.D		
Injection Date:	24-Oct-2013 15:21:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	7
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	

42 Caprolactam, Signal: 1, m/z: 113.0 Type: quant, RT: 4.87

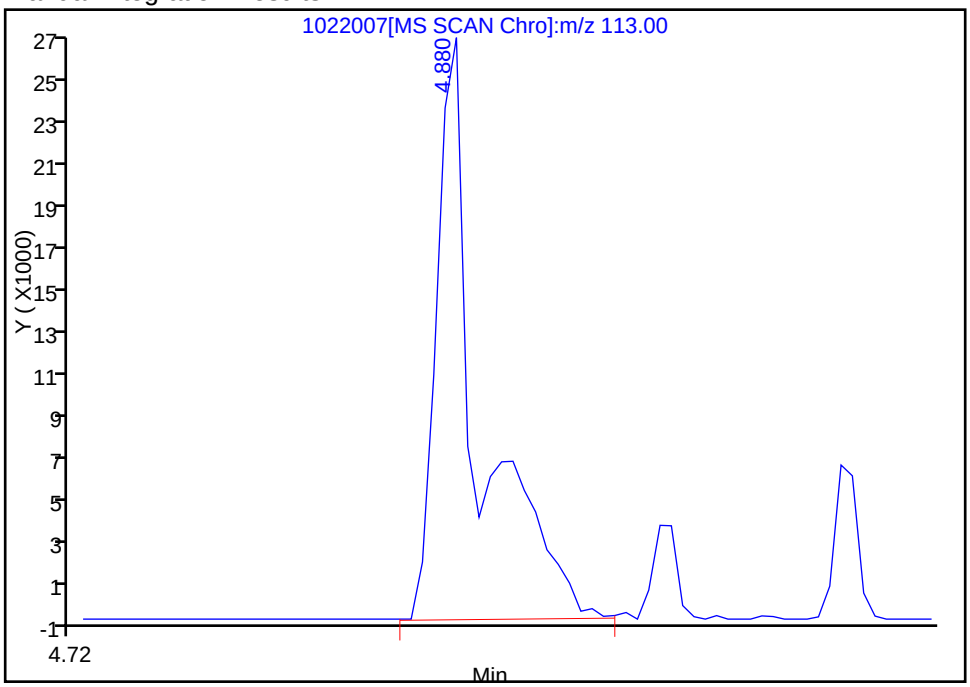
Processing Integration Results

RT: 4.88
Response: 21846
Amount: 59.889308



Manual Integration Results

RT: 4.88
Response: 33365
Amount: 79.132161



Reviewer: salomonb, 24-Oct-2013 16:24:14
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D		
Lims ID:	std6	Client ID:	
Inject. Date:	24-Oct-2013 15:44:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	std6		
Misc. Info.:	490-0027300-008		
Operator:	HP83	Instrument ID:	HP83
Injection Vol:	1.0 uL	ALS Bottle#:	8
Lims Batch ID:	116774	Lims Sample ID:	8
Sublist:	chrom-8270HP83*sub16		
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\8270HP83.m		
Last Update:	25-Oct-2013 12:55:11	Calib Date:	24-Oct-2013 15:44:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D		
Limit Group:	MSS 8270C ICAL		
Integrator:	RTE	ID Type:	RT Order ID
Column Type:		Column Dia:	
Process Host:	XAWRK029		
First Level Reviewer: salomonb		Date:	24-Oct-2013 16:22:59

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.808	3.808	0.0	95	29080	40.0	
19 N-Nitrosodimethylamine	74	1.824	1.819	0.005	89	59312	108.6	
20 Pyridine	52	1.852	1.852	0.0	90	46907	105.8	
$ 21 2-Fluorophenol	112	2.971	2.971	0.0	92	86210	100.6	
3 Benzaldehyde	105	3.526	3.526	0.0	90	36390	101.3	
23 Aniline	93	3.601	3.601	0.0	96	150287	103.3	
$ 22 Phenol-d5	99	3.611	3.606	0.005	0	122592	104.6	
24 Phenol	94	3.620	3.615	0.005	95	124053	99.6	
25 Bis(2-chloroethyl)ether	93	3.653	3.648	0.005	100	90181	98.7	
26 2-Chlorophenol	128	3.676	3.676	0.0	95	97230	99.4	
6 n-Decane	57	3.723	3.723	0.0	91	69356	98.5	
27 1,3-Dichlorobenzene	146	3.770	3.770	0.0	96	110062	99.9	
28 1,4-Dichlorobenzene	146	3.817	3.817	0.0	91	111239	97.9	
29 Benzyl alcohol	108	3.907	3.907	0.0	87	69015	102.7	
30 1,2-Dichlorobenzene	146	3.912	3.912	0.0	95	111429	100.3	
12 Indene	115	3.968	3.968	0.0	76	167723	98.6	
31 2-Methylphenol	108	3.991	3.987	0.004	95	94903	104.8	
32 2,2'-oxybis[1-chloropropane]	45	3.991	3.991	0.0	88	71780	104.8	
17 Acetophenone	105	4.067	4.062	0.005	94	147765	100.4	
33 N-Nitrosodi-n-propylamine	70	4.076	4.071	0.005	89	86082	102.5	
35 3 & 4 Methylphenol	108	4.086	4.086	0.0	0	99884	104.4	
36 Hexachloroethane	117	4.123	4.123	0.0	92	41081	95.5	
* 37 Naphthalene-d8	136	4.598	4.598	0.0	99	128730	40.0	
$ 49 Nitrobenzene-d5	82	4.156	4.151	0.005	86	116478	97.0	
50 Nitrobenzene	77	4.165	4.165	0.0	81	119632	96.6	
51 Isophorone	82	4.321	4.316	0.005	96	206611	97.8	
52 2-Nitrophenol	139	4.368	4.363	0.005	96	61061	100.3	
53 2,4-Dimethylphenol	107	4.410	4.405	0.005	96	115578	97.3	
54 Bis(2-chloroethoxy)methane	93	4.462	4.462	0.0	98	119578	95.2	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
55 Benzoic acid	105	4.499	4.485	0.014	82	105846	109.3	M
56 2,4-Dichlorophenol	162	4.523	4.518	0.005	93	98367	97.5	
57 1,2,4-Trichlorobenzene	180	4.565	4.565	0.0	94	104460	96.9	
58 Naphthalene	128	4.612	4.612	0.0	98	300418	95.0	
59 4-Chloroaniline	127	4.650	4.650	0.0	81	137340	100.9	
60 Hexachlorobutadiene	225	4.697	4.697	0.0	92	64171	95.0	
42 Caprolactam	113	4.885	4.871	0.014	86	41493	100.4	M
61 4-Chloro-3-methylphenol	107	4.970	4.965	0.005	92	112343	99.6	
62 2-Methylnaphthalene	142	5.045	5.040	0.005	86	228635	96.2	
64 1-Methylnaphthalene	142	5.106	5.106	0.0	80	215713	97.5	
47 1,2,4,5-Tetrachlorobenzene	216	5.153	5.153	0.0	95	119793	95.9	
170 1,1'-Biphenyl	154	5.350	5.350	0.0	96	290001	97.1	
* 69 Acenaphthene-d10	164	5.736	5.736	0.0	91	89039	40.0	
80 Hexachlorocyclopentadiene	237	5.148	5.148	0.0	95	71685	108.4	
81 2,4,6-Trichlorophenol	196	5.233	5.233	0.0	86	79296	101.0	
82 2,4,5-Trichlorophenol	196	5.261	5.261	0.0	94	84486	97.6	
$ 83 2-Fluorobiphenyl (Surr)	172	5.285	5.285	0.0	99	269565	95.3	
84 2-Chloronaphthalene	162	5.360	5.360	0.0	97	226148	97.5	
85 2-Nitroaniline	65	5.430	5.430	0.0	84	73230	105.0	
86 Dimethyl phthalate	163	5.567	5.562	0.005	98	279789	98.0	
76 1,3-Dinitrobenzene	168	5.581	5.576	0.005	84	51932	100.8	
87 2,6-Dinitrotoluene	165	5.604	5.600	0.004	88	67251	102.2	
88 Acenaphthylene	152	5.637	5.637	0.0	91	353032	96.4	
89 3-Nitroaniline	138	5.717	5.712	0.005	96	72787	105.4	
90 Acenaphthene	153	5.760	5.760	0.0	95	236818	95.3	
91 2,4-Dinitrophenol	184	5.792	5.788	0.004	83	107958	210.5	
92 4-Nitrophenol	65	5.858	5.854	0.004	96	124287	201.9	
93 2,4-Dinitrotoluene	165	5.882	5.877	0.005	65	97664	103.4	
94 Dibenzofuran	168	5.882	5.882	0.0	84	333483	93.7	
77 2,3,4,6-Tetrachlorophenol	232	5.976	5.976	0.0	70	80344	99.3	
95 Diethyl phthalate	149	6.070	6.065	0.005	98	272478	95.6	
197 Hexadecane	57	6.089	6.089	0.0	0	106808	96.8	
96 Fluorene	166	6.131	6.126	0.005	82	292017	97.9	
97 4-Chlorophenyl phenyl ether	204	6.136	6.136	0.0	90	147963	96.1	
98 4-Nitroaniline	138	6.159	6.150	0.009	73	74187	105.4	
99 Azobenzene	77	6.253	6.249	0.004	96	275957	97.9	
* 102 Phenanthrene-d10	188	6.827	6.827	0.0	93	174369	40.0	
125 4,6-Dinitro-2-methylphenol	198	6.183	6.178	0.005	90	141721	204.1	
126 N-Nitrosodiphenylamine	169	6.225	6.220	0.005	61	176132	98.4	
$ 127 2,4,6-Tribromophenol	330	6.310	6.305	0.005	91	42546	106.8	
128 4-Bromophenyl phenyl ether	248	6.498	6.498	0.0	60	90611	97.4	
129 Hexachlorobenzene	284	6.540	6.535	0.005	95	93190	98.8	
168 Atrazine	200	6.644	6.639	0.005	94	92748	100.5	
130 Pentachlorophenol	266	6.695	6.691	0.004	90	139680	203.0	
115 n-Octadecane	57	6.789	6.789	0.0	92	117691	101.9	
131 Phenanthrene	178	6.846	6.841	0.005	97	431221	96.5	
132 Anthracene	178	6.883	6.883	0.0	98	448695	99.0	
133 Carbazole	167	7.020	7.015	0.005	83	426109	98.1	
134 Di-n-butyl phthalate	149	7.321	7.321	0.0	100	489450	102.5	
135 Fluoranthene	202	7.777	7.772	0.005	98	534141	99.3	
* 136 Chrysene-d12	240	8.929	8.924	0.005	79	245170	40.0	
146 Benzidine	184	7.899	7.894	0.005	98	145735	101.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
152 Pyrene	202	7.955	7.951	0.004	95	544630	95.0	
$ 147 Terphenyl-d14	244	8.101	8.101	0.0	99	429278	94.0	
149 Butyl benzyl phthalate	149	8.515	8.515	0.0	97	240180	103.4	
151 3,3'-Dichlorobenzidine	252	8.915	8.910	0.005	74	215998	101.9	
153 Benzo[a]anthracene	228	8.919	8.915	0.004	99	589626	94.8	
154 Chrysene	228	8.948	8.943	0.005	94	539192	92.6	
155 Bis(2-ethylhexyl) phthalate	149	8.999	8.995	0.004	95	335020	103.0	
* 156 Perylene-d12	264	9.992	9.992	0.0	84	248068	40.0	
158 Di-n-octyl phthalate	149	9.498	9.493	0.005	99	587633	105.6	
159 Benzo[b]fluoranthene	252	9.733	9.728	0.005	92	626189	95.5	
160 Benzo[k]fluoranthene	252	9.756	9.747	0.009	95	676790	95.6	
161 Benzo[a]pyrene	252	9.959	9.954	0.005	75	608083	98.8	
162 Indeno[1,2,3-cd]pyrene	276	10.753	10.744	0.009	90	718749	98.7	
163 Dibenz(a,h)anthracene	278	10.767	10.763	0.004	77	595490	97.7	
164 Benzo[g,h,i]perylene	276	10.965	10.955	0.010	94	604467	96.5	
S 169 Methyl Phenols,Total	1				0		209.2	

QC Flag Legend

Review Flags
M - Manually Integrated

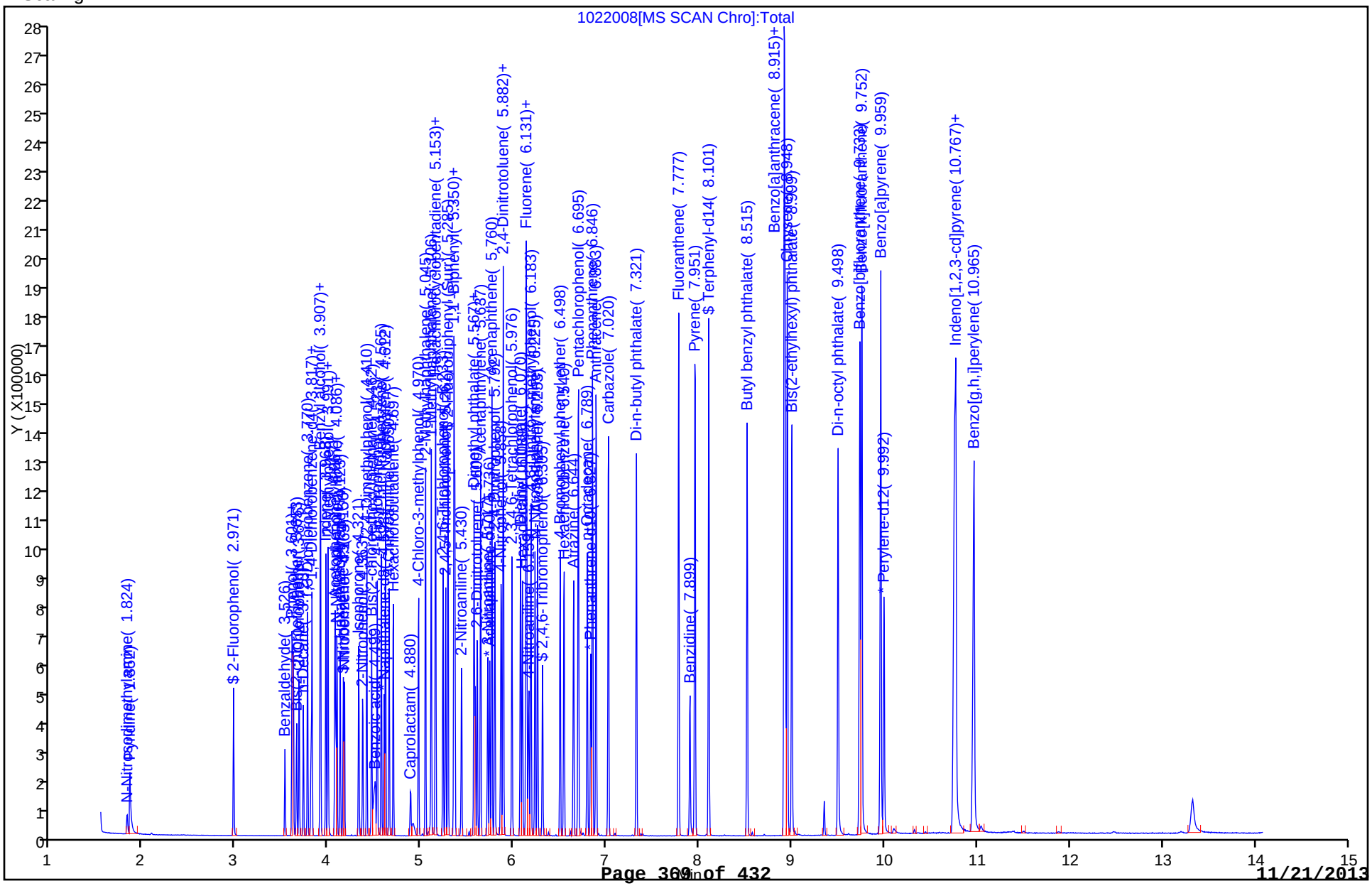
Report Date: 25-Oct-2013 12:55:11 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D

Injection Date:	24-Oct-2013 15:44:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	8
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling:



Manual Integration/User Assign Peak Report

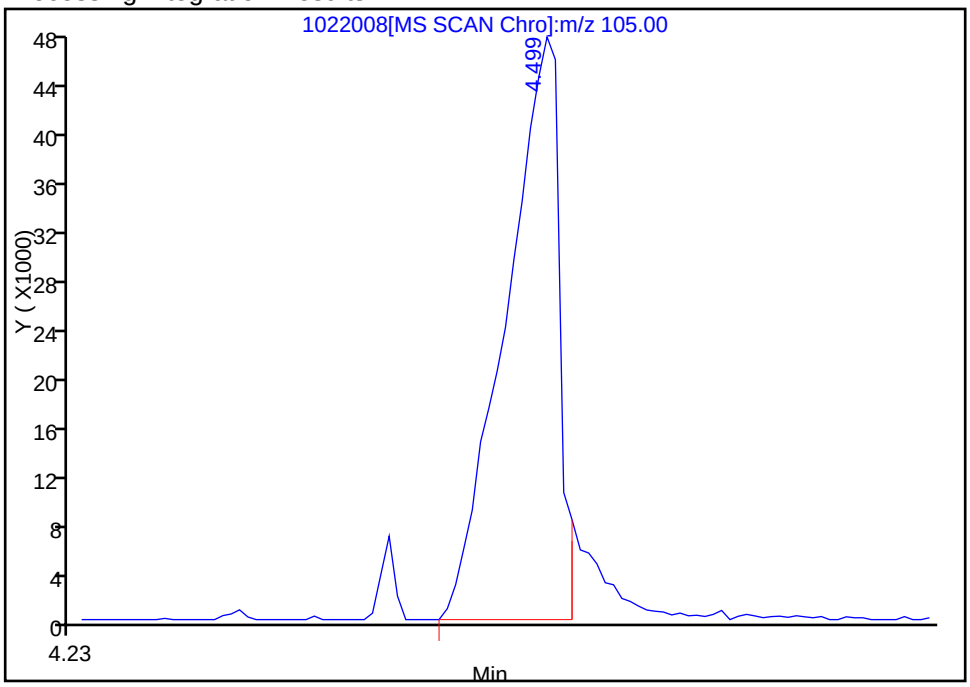
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D		
Injection Date:	24-Oct-2013 15:44:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	8
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	

55 Benzoic acid, Signal: 1, m/z: 105.0 Type: quant, RT: 4.49

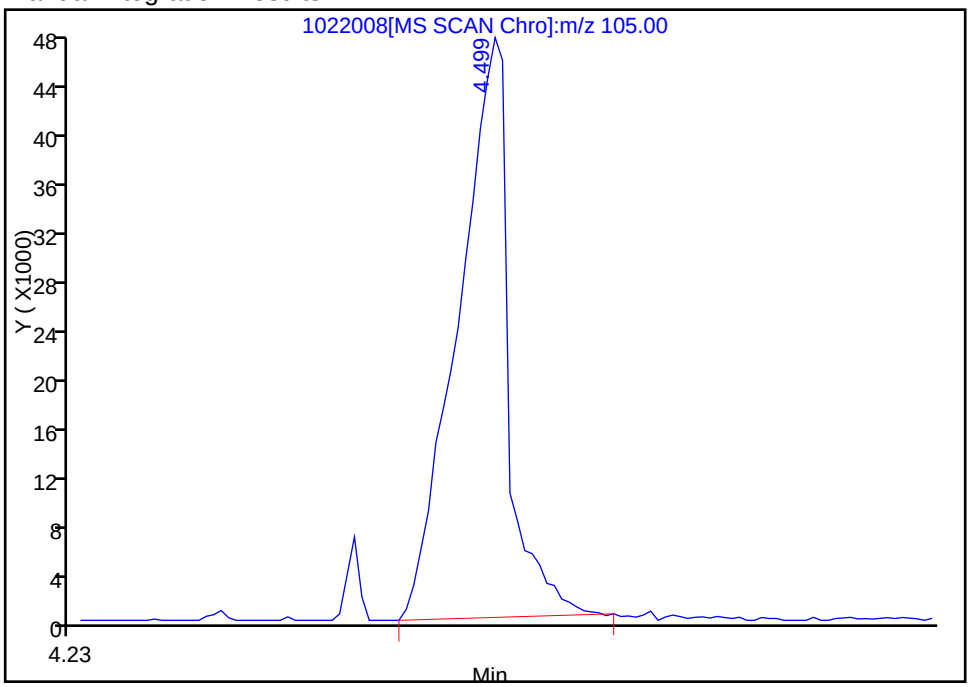
Processing Integration Results

RT: 4.50
Response: 99970
Amount: 104.2896



Manual Integration Results

RT: 4.50
Response: 105846
Amount: 109.3028



Reviewer: salomonb, 24-Oct-2013 16:26:37
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

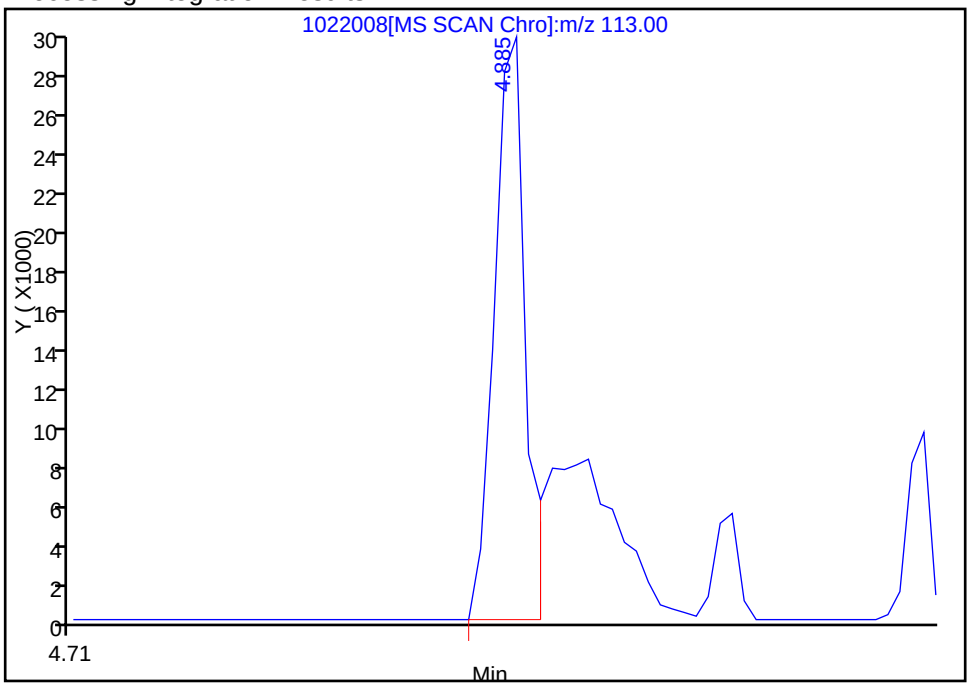
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D		
Injection Date:	24-Oct-2013 15:44:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	8
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	

42 Caprolactam, Signal: 1, m/z: 113.0 Type: quant, RT: 4.87

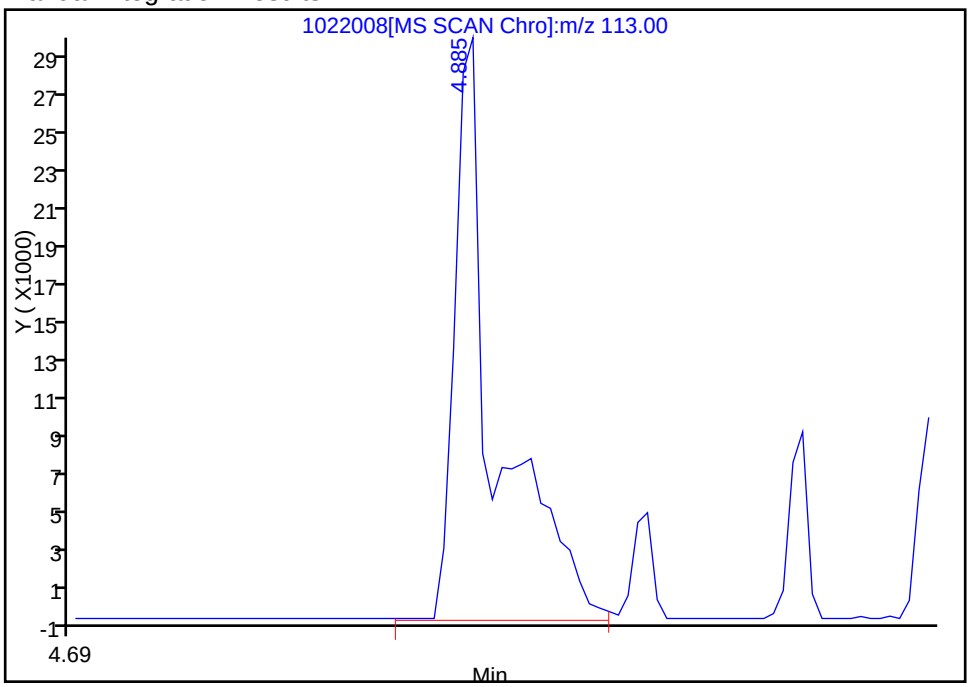
Processing Integration Results

RT: 4.88
Response: 25506
Amount: NaN



Manual Integration Results

RT: 4.88
Response: 41493
Amount: 100.4057



Reviewer: salomonb, 24-Oct-2013 16:24:51
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Lab Sample ID (1): CCVIS 490-121257/3 Instrument ID (1): HP83

GC Column (1): ZB-5MSi ID: 0.25(mm) Date Analyzed (1): 11/12/2013 17:37

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	9.44	32.06

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Lab Sample ID: ICV 490-116774/9 Calibration Date: 10/24/2013 16:06

Instrument ID: HP83 Calib Start Date: 09/14/2013 18:48

GC Column: ZB-5MSi ID: 0.25(mm) Calib End Date: 09/14/2013 20:40

Lab File ID: 1022009.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5271				50.0		

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022009.D
Lims ID: icv Client ID:
Inject. Date: 24-Oct-2013 16:06:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: icv
Misc. Info.: 490-0027300-009
Operator: HP83 Instrument ID: HP83
Injection Vol: 1.0 uL ALS Bottle#: 9
Lims Batch ID: 116774 Lims Sample ID: 9
Sublist:
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP83\20131024-27300.b\8270HP83.m
Last Update: 25-Oct-2013 12:55:10 Calib Date: 24-Oct-2013 15:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D
Limit Group: MSS 8270C ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK029

First Level Reviewer: salomonb Date: 24-Oct-2013 16:28:07

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.808	3.808	0.0	95	26028	40.0	
19 N-Nitrosodimethylamine	74	1.829	1.819	0.010	79	25904	53.0	
20 Pyridine	52	1.871	1.852	0.019	91	18383	46.3	
3 Benzaldehyde	105	3.526	3.526	0.0	90	10180	31.7	
23 Aniline	93	3.606	3.601	0.005	94	34164	26.2	
24 Phenol	94	3.616	3.615	0.001	98	58992	52.9	
25 Bis(2-chloroethyl)ether	93	3.648	3.648	0.0	100	44064	53.9	
26 2-Chlorophenol	128	3.681	3.676	0.005	94	45818	52.3	
6 n-Decane	57	3.724	3.723	0.001	91	30698	48.7	
27 1,3-Dichlorobenzene	146	3.771	3.770	0.001	95	48084	48.8	
28 1,4-Dichlorobenzene	146	3.818	3.817	0.001	90	50783	49.9	
29 Benzyl alcohol	108	3.907	3.907	0.0	88	32070	53.3	
30 1,2-Dichlorobenzene	146	3.912	3.912	0.0	96	48817	49.1	
12 Indene	115	3.968	3.968	0.0	75	74472	48.9	
31 2-Methylphenol	108	3.987	3.987	0.0	95	44572	55.0	
32 2,2'-oxybis[1-chloropropane]	45	3.987	3.991	-0.004	55	26597	43.4	
17 Acetophenone	105	4.062	4.062	0.0	94	62471	47.4	
33 N-Nitrosodi-n-propylamine	70	4.072	4.071	0.001	91	38940	51.8	
35 3 & 4 Methylphenol	108	4.086	4.086	0.001	0	47789	55.8	
36 Hexachloroethane	117	4.123	4.123	0.0	92	19538	50.7	
* 37 Naphthalene-d8	136	4.598	4.598	0.0	99	111727	40.0	
50 Nitrobenzene	77	4.166	4.165	0.001	82	53458	49.8	
51 Isophorone	82	4.316	4.316	0.0	97	92009	50.2	
52 2-Nitrophenol	139	4.363	4.363	0.0	98	26724	50.6	
53 2,4-Dimethylphenol	107	4.410	4.405	0.005	96	50847	49.3	
54 Bis(2-chloroethoxy)methane	93	4.457	4.462	-0.005	99	50570	46.4	
55 Benzoic acid	105	4.504	4.485	0.019	84	98598	117.3	E
56 2,4-Dichlorophenol	162	4.523	4.518	0.005	92	47062	53.7	
57 1,2,4-Trichlorobenzene	180	4.565	4.565	0.0	90	48203	51.5	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
58 Naphthalene	128	4.608	4.612	-0.004	98	137406	50.1	
59 4-Chloroaniline	127	4.650	4.650	0.0	82	41348	35.0	
60 Hexachlorobutadiene	225	4.692	4.697	-0.005	95	28849	49.2	
42 Caprolactam	113	4.876	4.871	0.005	85	18649	52.3	
61 4-Chloro-3-methylphenol	107	4.965	4.965	0.0	89	51027	52.1	
62 2-Methylnaphthalene	142	5.040	5.040	0.0	85	102494	49.7	
64 1-Methylnaphthalene	142	5.106	5.106	0.0	79	95297	49.6	
47 1,2,4,5-Tetrachlorobenzene	216	5.153	5.153	0.0	94	55742	51.4	
170 1,1'-Biphenyl	154	5.346	5.350	-0.004	96	132579	51.2	
* 69 Acenaphthene-d10	164	5.736	5.736	0.0	87	76728	40.0	
80 Hexachlorocyclopentadiene	237	5.148	5.148	0.0	95	30759	54.5	
81 2,4,6-Trichlorophenol	196	5.233	5.233	0.0	87	37173	55.0	
82 2,4,5-Trichlorophenol	196	5.261	5.261	0.0	95	40455	54.2	
84 2-Chloronaphthalene	162	5.355	5.360	-0.005	98	102054	51.1	
85 2-Nitroaniline	65	5.431	5.430	0.001	82	33621	55.9	
86 Dimethyl phthalate	163	5.562	5.562	0.0	97	128031	52.0	
76 1,3-Dinitrobenzene	168	5.576	5.576	0.0	79	22118	50.2	
87 2,6-Dinitrotoluene	165	5.600	5.600	0.0	88	31080	54.8	
88 Acenaphthylene	152	5.637	5.637	0.0	90	165212	52.4	
89 3-Nitroaniline	138	5.713	5.712	0.001	98	29299	49.2	
90 Acenaphthene	153	5.760	5.760	0.0	94	111229	51.9	
91 2,4-Dinitrophenol	184	5.788	5.788	0.0	83	47074	107.7	
92 4-Nitrophenol	65	5.854	5.854	0.0	96	56963	107.4	
93 2,4-Dinitrotoluene	165	5.877	5.877	0.0	86	44761	55.0	
94 Dibenzofuran	168	5.882	5.882	0.0	84	158613	51.7	
77 2,3,4,6-Tetrachlorophenol	232	5.976	5.976	0.0	70	39031	56.0	
95 Diethyl phthalate	149	6.065	6.065	0.0	96	127166	51.8	
197 Hexadecane	57	6.089	6.089	0.0	0	49373	51.9	
96 Fluorene	166	6.127	6.126	0.001	87	136468	53.1	
97 4-Chlorophenyl phenyl ether	204	6.136	6.136	0.0	92	69128	52.1	
98 4-Nitroaniline	138	6.150	6.150	0.0	74	32179	53.0	
99 Azobenzene	77	6.249	6.249	0.0	97	127257	52.4	
* 102 Phenanthrene-d10	188	6.827	6.827	0.0	96	157620	40.0	
125 4,6-Dinitro-2-methylphenol	198	6.178	6.178	0.0	88	63310	101.7	
126 N-Nitrosodiphenylamine	169	6.221	6.220	0.001	60	101072	62.5	
128 4-Bromophenyl phenyl ether	248	6.493	6.498	-0.005	63	42075	50.1	
129 Hexachlorobenzene	284	6.536	6.535	0.001	92	42456	49.8	
168 Atrazine	200	6.639	6.639	0.0	91	31966	38.3	
130 Pentachlorophenol	266	6.691	6.691	0.0	92	67433	108.4	
115 n-Octadecane	57	6.790	6.789	0.001	93	54724	52.4	
131 Phenanthrene	178	6.841	6.841	0.0	97	199790	49.5	
132 Anthracene	178	6.884	6.883	0.001	97	202639	49.5	
133 Carbazole	167	7.015	7.015	0.0	82	193454	49.3	
134 Di-n-butyl phthalate	149	7.321	7.321	0.0	100	224536	52.0	
135 Fluoranthene	202	7.772	7.772	0.0	97	245750	50.5	
* 136 Chrysene-d12	240	8.924	8.924	0.0	85	212483	40.0	
146 Benzidine	184	7.899	7.894	0.005	79	6537	3.51	
152 Pyrene	202	7.951	7.951	0.0	96	252610	50.8	
149 Butyl benzyl phthalate	149	8.515	8.515	0.0	96	108303	53.8	
151 3,3'-Dichlorobenzidine	252	8.910	8.910	0.0	67	90580	49.3	
153 Benzo[a]anthracene	228	8.915	8.915	0.0	99	267656	49.7	
154 Chrysene	228	8.943	8.943	0.0	92	264688	52.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
155 Bis(2-ethylhexyl) phthalate	149	8.995	8.995	0.0	96	150687	53.5	
* 156 Perylene-d12	264	9.992	9.992	0.0	87	223821	40.0	
158 Di-n-octyl phthalate	149	9.493	9.493	0.0	100	267778	53.3	
159 Benzo[b]fluoranthene	252	9.728	9.728	0.0	93	285464	48.3	
160 Benzo[k]fluoranthene	252	9.747	9.747	0.0	98	318141	49.8	
161 Benzo[a]pyrene	252	9.954	9.954	0.0	72	264885	47.7	
162 Indeno[1,2,3-cd]pyrene	276	10.744	10.744	0.0	99	325917	49.6	
163 Dibenz(a,h)anthracene	278	10.763	10.763	0.0	63	282988	51.5	
164 Benzo[g,h,i]perylene	276	10.956	10.955	0.001	90	290135	51.3	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

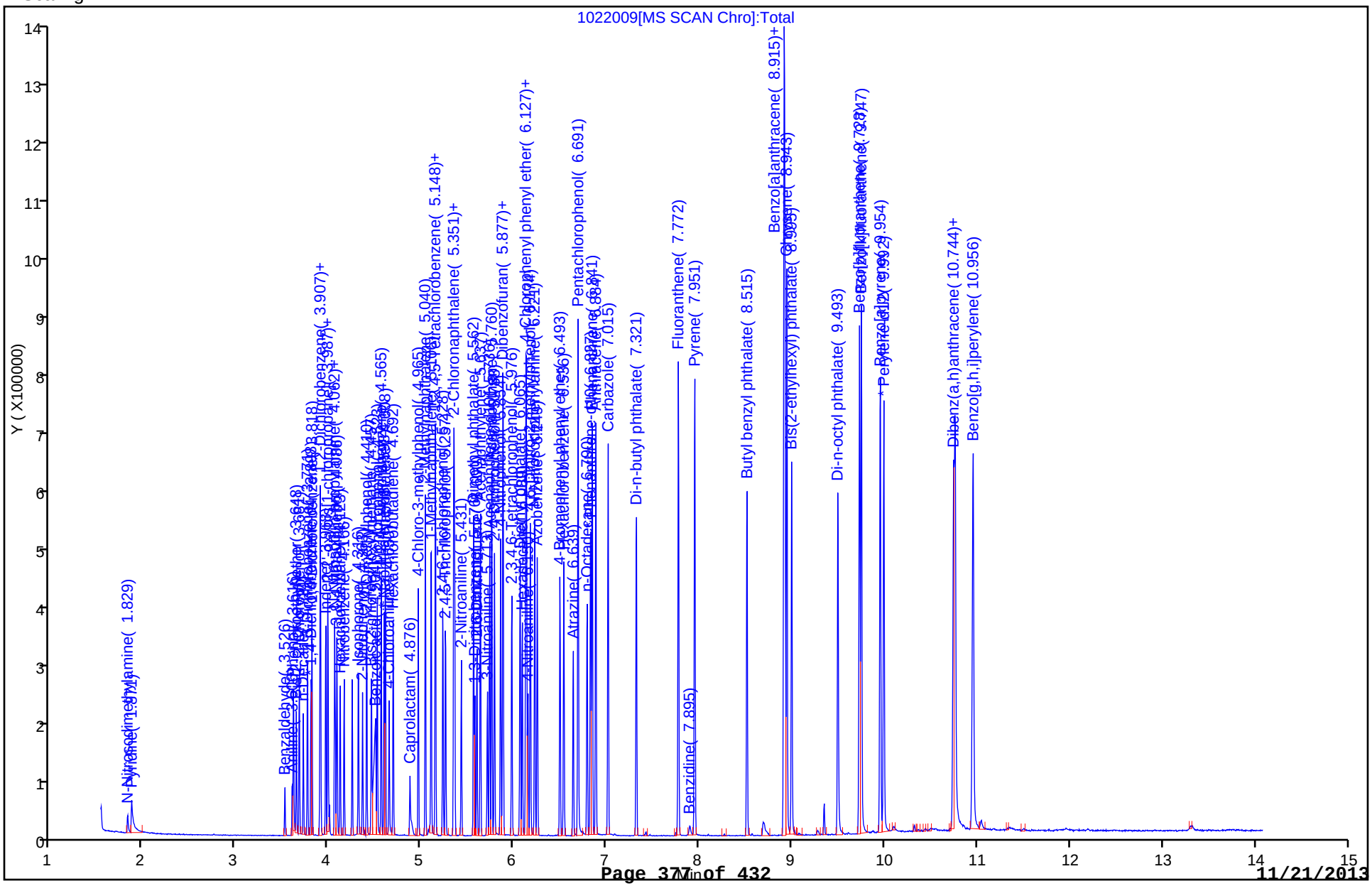
Report Date: 25-Oct-2013 12:55:11 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022009.D

Injection Date:	24-Oct-2013 16:06:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	9
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	

Y Scaling:



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Lab Sample ID: ICV 490-116774/9 Calibration Date: 10/24/2013 16:06

Instrument ID: HP83 Calib Start Date: 10/24/2013 13:51

GC Column: ZB-5MSi ID: 0.25(mm) Calib End Date: 10/24/2013 15:44

Lab File ID: 1022009.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Nitrosodimethylamine	Ave	0.7511	0.7962		53.0	50.0	6.0	
Pyridine	Ave	0.6096	0.5650		46.4	50.0	-7.3	
Benzaldehyde	Ave	0.4940	0.3129		31.7	50.0	-36.7	
Aniline	Ave	2.001	1.050		26.2	50.0	-47.5	
Phenol	Ave	1.714	1.813		52.9	50.0	5.8	
Bis(2-chloroethyl)ether	Ave	1.256	1.354		53.9	50.0	7.8	
2-Chlorophenol	Ave	1.345	1.408		52.3	50.0	4.7	
n-Decane	Ave	0.9685	0.9435		48.7	50.0	-2.6	
1,3-Dichlorobenzene	Ave	1.516	1.478		48.8	50.0	-2.5	
1,4-Dichlorobenzene	Ave	1.563	1.561		49.9	50.0	-0.2	
Benzyl alcohol	Ave	0.9244	0.9857		53.3	50.0	6.6	
1,2-Dichlorobenzene	Ave	1.528	1.500		49.1	50.0	-1.8	
Indene	Ave	2.339	2.289		48.9	50.0	-2.1	
2-Methylphenol	Ave	1.246	1.370		55.0	50.0	10.0	
bis (2-chloroisopropyl) ether	Ave	0.9420	0.8175		43.4	50.0	-13.2	
Acetophenone	Ave	2.024	1.920		47.5	50.0	-5.1	
N-Nitrosodi-n-propylamine	Ave	1.156	1.197	0.0500	51.8	50.0	3.6	
3 & 4 Methylphenol	Ave	1.316	1.469		55.8	50.0	11.6	
Hexachloroethane	Ave	0.5918	0.6005		50.7	50.0	1.5	
Nitrobenzene	Ave	0.3846	0.3828		49.8	50.0	-0.5	
Isophorone	Ave	0.6567	0.6588		50.2	50.0	0.3	
2-Nitrophenol	Ave	0.1891	0.1914		50.6	50.0	1.2	
2,4-Dimethylphenol	Ave	0.3690	0.3641		49.3	50.0	-1.3	
Bis(2-chloroethoxy)methane	Ave	0.3901	0.3621		46.4	50.0	-7.2	
Benzoic acid	Ave	0.3009	0.3530		117	100	17.3	
2,4-Dichlorophenol	Ave	0.3135	0.3370		53.7	50.0	7.5	
1,2,4-Trichlorobenzene	Ave	0.3349	0.3452		51.5	50.0	3.0	
Naphthalene	Ave	0.9827	0.9839		50.1	50.0	0.1	
4-Chloroaniline	Ave	0.4227	0.2961		35.0	50.0	-30.0	
Hexachlorobutadiene	Ave	0.2099	0.2066		49.2	50.0	-1.6	
Caprolactam	Lin2		0.1335		52.3	50.0	4.6	20.0
4-Chloro-3-methylphenol	Ave	0.3506	0.3654		52.1	50.0	4.2	
2-Methylnaphthalene	Ave	0.7388	0.7339		49.7	50.0	-0.7	
1-Methylnaphthalene	Ave	0.6877	0.6824		49.6	50.0	-0.8	
Hexachlorocyclopentadiene	Lin2		0.3207	0.0500	54.5	50.0	9.0	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.3883	0.3991		51.4	50.0	2.8	
2,4,6-Trichlorophenol	Ave	0.3526	0.3876		55.0	50.0	9.9	
2,4,5-Trichlorophenol	Ave	0.3888	0.4218		54.2	50.0	8.5	
Biphenyl	Ave	0.9278	0.9493		51.2	50.0	2.3	
2-Chloronaphthalene	Ave	1.042	1.064		51.1	50.0	2.1	

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Lab Sample ID: ICV 490-116774/9 Calibration Date: 10/24/2013 16:06

Instrument ID: HP83 Calib Start Date: 10/24/2013 13:51

GC Column: ZB-5MSi ID: 0.25(mm) Calib End Date: 10/24/2013 15:44

Lab File ID: 1022009.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Nitroaniline	Ave	0.3133	0.3506		55.9	50.0	11.9	
Dimethyl phthalate	Ave	1.282	1.335		52.1	50.0	4.1	
1,3-Dinitrobenzene	Lin2		0.2306		50.2	50.0	0.4	20.0
2,6-Dinitrotoluene	Ave	0.2956	0.3241		54.8	50.0	9.6	
Acenaphthylene	Ave	1.644	1.723		52.4	50.0	4.8	
3-Nitroaniline	Ave	0.3103	0.3055		49.2	50.0	-1.6	
Acenaphthene	Ave	1.116	1.160		52.0	50.0	3.9	
2,4-Dinitrophenol	Lin2		0.2454	0.0500	108	100	7.7	20.0
4-Nitrophenol	Ave	0.2765	0.2970	0.0500	107	100	7.4	
2,4-Dinitrotoluene	Ave	0.4242	0.4667		55.0	50.0	10.0	
Dibenzofuran	Ave	1.599	1.654		51.7	50.0	3.4	
2,3,4,6-Tetrachlorophenol	Ave	0.3635	0.4070		56.0	50.0	12.0	
Diethyl phthalate	Ave	1.280	1.326		51.8	50.0	3.6	
Hexadecane	Ave	0.4956	0.5148		51.9	50.0	3.9	
Fluorene	Ave	1.340	1.423		53.1	50.0	6.2	
4-Chlorophenyl phenyl ether	Ave	0.6916	0.7208		52.1	50.0	4.2	
4-Nitroaniline	Ave	0.3164	0.3355		53.0	50.0	6.1	
4,6-Dinitro-2-methylphenol	Lin2		0.1607		102	100	1.7	20.0
n-Nitrosodiphenylamine(as diphenylamine)	Ave	0.4106	0.5130		62.5	50.0	24.9	
1,2-Diphenylhydrazine (as Azobenzene)	Ave	1.266	1.327		52.4	50.0	4.8	
4-Bromophenyl phenyl ether	Ave	0.2133	0.2136		50.1	50.0	0.1	
Hexachlorobenzene	Ave	0.2164	0.2155		49.8	50.0	-0.4	
Atrazine	Ave	0.2117	0.1622		38.3	50.0	-23.4	
Pentachlorophenol	Ave	0.1578	0.1711		108	100	8.4	
n-Octadecane	Ave	0.2651	0.2778		52.4	50.0	4.8	
Phenanthrene	Ave	1.025	1.014		49.5	50.0	-1.0	
Anthracene	Ave	1.039	1.028		49.5	50.0	-1.0	
Carbazole	Ave	0.996	0.9819		49.3	50.0	-1.5	
Di-n-butyl phthalate	Ave	1.095	1.140		52.0	50.0	4.1	
Fluoranthene	Ave	1.234	1.247		50.5	50.0	1.1	
Benzidine	Lin		0.0246			50.0	-93.0*	20.0
Pyrene	Ave	0.9355	0.9511		50.8	50.0	1.7	
Butyl benzyl phthalate	Ave	0.3792	0.4078		53.8	50.0	7.5	
3,3'-Dichlorobenzidine	Ave	0.3458	0.3410		49.3	50.0	-1.4	
Benzo[a]anthracene	Ave	1.015	1.008		49.7	50.0	-0.7	
Chrysene	Ave	0.9502	0.997		52.4	50.0	4.9	
Bis(2-ethylhexyl) phthalate	Ave	0.5306	0.5673		53.5	50.0	6.9	
Di-n-octyl phthalate	Ave	0.8973	0.9571		53.3	50.0	6.7	
Benzo[b]fluoranthene	Ave	1.057	1.020		48.3	50.0	-3.5	
Benzo[k]fluoranthene	Ave	1.141	1.137		49.8	50.0	-0.3	

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Lab Sample ID: ICV 490-116774/9 Calibration Date: 10/24/2013 16:06

Instrument ID: HP83 Calib Start Date: 10/24/2013 13:51

GC Column: ZB-5MSi ID: 0.25(mm) Calib End Date: 10/24/2013 15:44

Lab File ID: 1022009.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[a]pyrene	Ave	0.9925	0.9468		47.7	50.0	-4.6	
Indeno[1,2,3-cd]pyrene	Ave	1.174	1.165		49.6	50.0	-0.8	
Dibenz(a,h)anthracene	Ave	0.9826	1.011		51.5	50.0	2.9	
Benzo[g,h,i]perylene	Ave	1.010	1.037		51.3	50.0	2.6	

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022009.D
Lims ID: icv Client ID:
Inject. Date: 24-Oct-2013 16:06:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: icv
Misc. Info.: 490-0027300-009
Operator: HP83 Instrument ID: HP83
Injection Vol: 1.0 uL ALS Bottle#: 9
Lims Batch ID: 116774 Lims Sample ID: 9
Sublist:
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP83\20131024-27300.b\8270HP83.m
Last Update: 25-Oct-2013 12:55:10 Calib Date: 24-Oct-2013 15:44:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D
Limit Group: MSS 8270C ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK029

First Level Reviewer: salomonb Date: 24-Oct-2013 16:28:07

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.808	3.808	0.0	95	26028	40.0	
19 N-Nitrosodimethylamine	74	1.829	1.819	0.010	79	25904	53.0	
20 Pyridine	52	1.871	1.852	0.019	91	18383	46.3	
3 Benzaldehyde	105	3.526	3.526	0.0	90	10180	31.7	
23 Aniline	93	3.606	3.601	0.005	94	34164	26.2	
24 Phenol	94	3.616	3.615	0.001	98	58992	52.9	
25 Bis(2-chloroethyl)ether	93	3.648	3.648	0.0	100	44064	53.9	
26 2-Chlorophenol	128	3.681	3.676	0.005	94	45818	52.3	
6 n-Decane	57	3.724	3.723	0.001	91	30698	48.7	
27 1,3-Dichlorobenzene	146	3.771	3.770	0.001	95	48084	48.8	
28 1,4-Dichlorobenzene	146	3.818	3.817	0.001	90	50783	49.9	
29 Benzyl alcohol	108	3.907	3.907	0.0	88	32070	53.3	
30 1,2-Dichlorobenzene	146	3.912	3.912	0.0	96	48817	49.1	
12 Indene	115	3.968	3.968	0.0	75	74472	48.9	
31 2-Methylphenol	108	3.987	3.987	0.0	95	44572	55.0	
32 2,2'-oxybis[1-chloropropane]	45	3.987	3.991	-0.004	55	26597	43.4	
17 Acetophenone	105	4.062	4.062	0.0	94	62471	47.4	
33 N-Nitrosodi-n-propylamine	70	4.072	4.071	0.001	91	38940	51.8	
35 3 & 4 Methylphenol	108	4.086	4.086	0.001	0	47789	55.8	
36 Hexachloroethane	117	4.123	4.123	0.0	92	19538	50.7	
* 37 Naphthalene-d8	136	4.598	4.598	0.0	99	111727	40.0	
50 Nitrobenzene	77	4.166	4.165	0.001	82	53458	49.8	
51 Isophorone	82	4.316	4.316	0.0	97	92009	50.2	
52 2-Nitrophenol	139	4.363	4.363	0.0	98	26724	50.6	
53 2,4-Dimethylphenol	107	4.410	4.405	0.005	96	50847	49.3	
54 Bis(2-chloroethoxy)methane	93	4.457	4.462	-0.005	99	50570	46.4	
55 Benzoic acid	105	4.504	4.485	0.019	84	98598	117.3	E
56 2,4-Dichlorophenol	162	4.523	4.518	0.005	92	47062	53.7	
57 1,2,4-Trichlorobenzene	180	4.565	4.565	0.0	90	48203	51.5	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
58 Naphthalene	128	4.608	4.612	-0.004	98	137406	50.1	
59 4-Chloroaniline	127	4.650	4.650	0.0	82	41348	35.0	
60 Hexachlorobutadiene	225	4.692	4.697	-0.005	95	28849	49.2	
42 Caprolactam	113	4.876	4.871	0.005	85	18649	52.3	
61 4-Chloro-3-methylphenol	107	4.965	4.965	0.0	89	51027	52.1	
62 2-Methylnaphthalene	142	5.040	5.040	0.0	85	102494	49.7	
64 1-Methylnaphthalene	142	5.106	5.106	0.0	79	95297	49.6	
47 1,2,4,5-Tetrachlorobenzene	216	5.153	5.153	0.0	94	55742	51.4	
170 1,1'-Biphenyl	154	5.346	5.350	-0.004	96	132579	51.2	
* 69 Acenaphthene-d10	164	5.736	5.736	0.0	87	76728	40.0	
80 Hexachlorocyclopentadiene	237	5.148	5.148	0.0	95	30759	54.5	
81 2,4,6-Trichlorophenol	196	5.233	5.233	0.0	87	37173	55.0	
82 2,4,5-Trichlorophenol	196	5.261	5.261	0.0	95	40455	54.2	
84 2-Chloronaphthalene	162	5.355	5.360	-0.005	98	102054	51.1	
85 2-Nitroaniline	65	5.431	5.430	0.001	82	33621	55.9	
86 Dimethyl phthalate	163	5.562	5.562	0.0	97	128031	52.0	
76 1,3-Dinitrobenzene	168	5.576	5.576	0.0	79	22118	50.2	
87 2,6-Dinitrotoluene	165	5.600	5.600	0.0	88	31080	54.8	
88 Acenaphthylene	152	5.637	5.637	0.0	90	165212	52.4	
89 3-Nitroaniline	138	5.713	5.712	0.001	98	29299	49.2	
90 Acenaphthene	153	5.760	5.760	0.0	94	111229	51.9	
91 2,4-Dinitrophenol	184	5.788	5.788	0.0	83	47074	107.7	
92 4-Nitrophenol	65	5.854	5.854	0.0	96	56963	107.4	
93 2,4-Dinitrotoluene	165	5.877	5.877	0.0	86	44761	55.0	
94 Dibenzofuran	168	5.882	5.882	0.0	84	158613	51.7	
77 2,3,4,6-Tetrachlorophenol	232	5.976	5.976	0.0	70	39031	56.0	
95 Diethyl phthalate	149	6.065	6.065	0.0	96	127166	51.8	
197 Hexadecane	57	6.089	6.089	0.0	0	49373	51.9	
96 Fluorene	166	6.127	6.126	0.001	87	136468	53.1	
97 4-Chlorophenyl phenyl ether	204	6.136	6.136	0.0	92	69128	52.1	
98 4-Nitroaniline	138	6.150	6.150	0.0	74	32179	53.0	
99 Azobenzene	77	6.249	6.249	0.0	97	127257	52.4	
* 102 Phenanthrene-d10	188	6.827	6.827	0.0	96	157620	40.0	
125 4,6-Dinitro-2-methylphenol	198	6.178	6.178	0.0	88	63310	101.7	
126 N-Nitrosodiphenylamine	169	6.221	6.220	0.001	60	101072	62.5	
128 4-Bromophenyl phenyl ether	248	6.493	6.498	-0.005	63	42075	50.1	
129 Hexachlorobenzene	284	6.536	6.535	0.001	92	42456	49.8	
168 Atrazine	200	6.639	6.639	0.0	91	31966	38.3	
130 Pentachlorophenol	266	6.691	6.691	0.0	92	67433	108.4	
115 n-Octadecane	57	6.790	6.789	0.001	93	54724	52.4	
131 Phenanthrene	178	6.841	6.841	0.0	97	199790	49.5	
132 Anthracene	178	6.884	6.883	0.001	97	202639	49.5	
133 Carbazole	167	7.015	7.015	0.0	82	193454	49.3	
134 Di-n-butyl phthalate	149	7.321	7.321	0.0	100	224536	52.0	
135 Fluoranthene	202	7.772	7.772	0.0	97	245750	50.5	
* 136 Chrysene-d12	240	8.924	8.924	0.0	85	212483	40.0	
146 Benzidine	184	7.899	7.894	0.005	79	6537	3.51	
152 Pyrene	202	7.951	7.951	0.0	96	252610	50.8	
149 Butyl benzyl phthalate	149	8.515	8.515	0.0	96	108303	53.8	
151 3,3'-Dichlorobenzidine	252	8.910	8.910	0.0	67	90580	49.3	
153 Benzo[a]anthracene	228	8.915	8.915	0.0	99	267656	49.7	
154 Chrysene	228	8.943	8.943	0.0	92	264688	52.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
155 Bis(2-ethylhexyl) phthalate	149	8.995	8.995	0.0	96	150687	53.5	
* 156 Perylene-d12	264	9.992	9.992	0.0	87	223821	40.0	
158 Di-n-octyl phthalate	149	9.493	9.493	0.0	100	267778	53.3	
159 Benzo[b]fluoranthene	252	9.728	9.728	0.0	93	285464	48.3	
160 Benzo[k]fluoranthene	252	9.747	9.747	0.0	98	318141	49.8	
161 Benzo[a]pyrene	252	9.954	9.954	0.0	72	264885	47.7	
162 Indeno[1,2,3-cd]pyrene	276	10.744	10.744	0.0	99	325917	49.6	
163 Dibenz(a,h)anthracene	278	10.763	10.763	0.0	63	282988	51.5	
164 Benzo[g,h,i]perylene	276	10.956	10.955	0.001	90	290135	51.3	

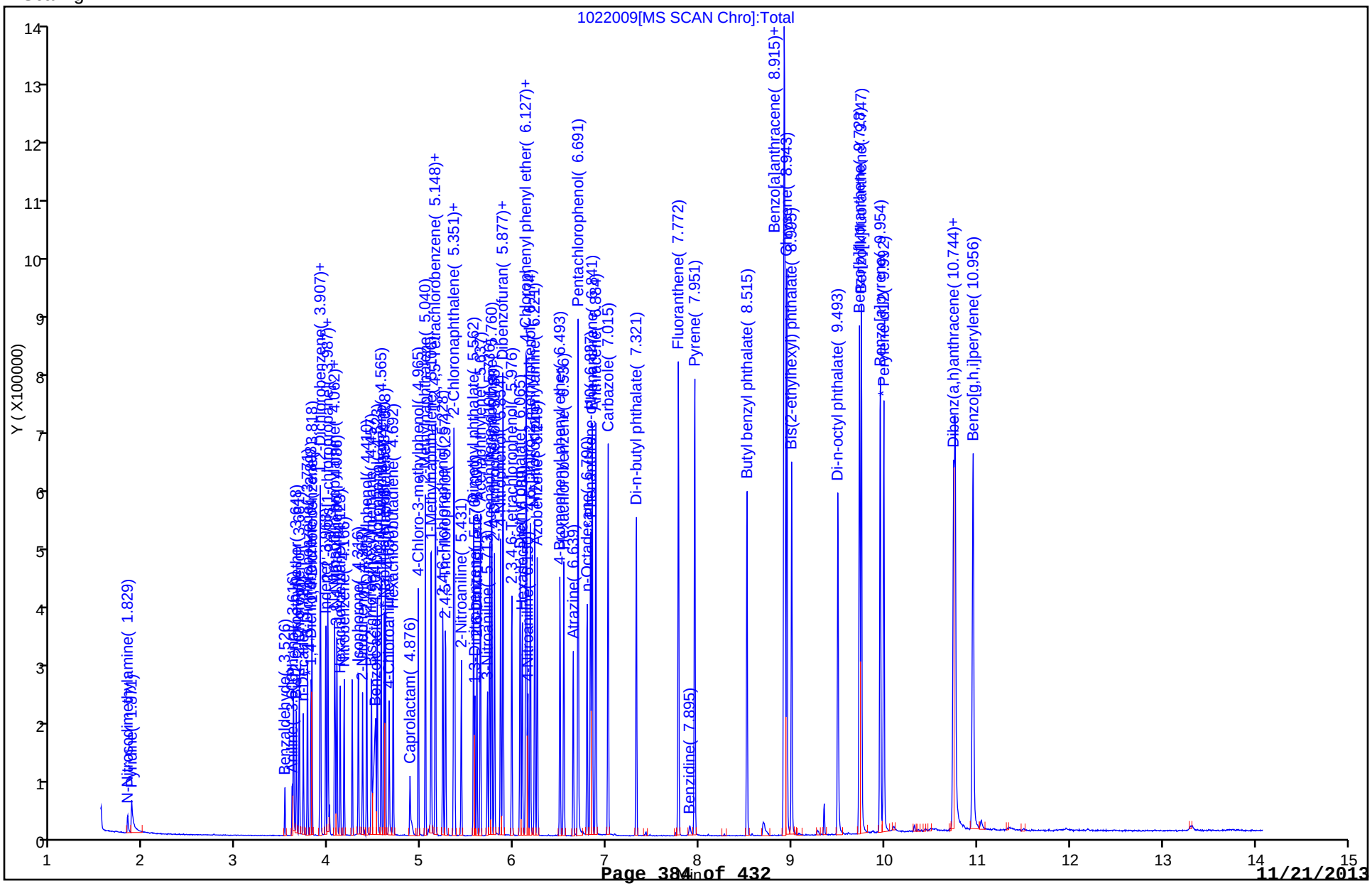
QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

Report Date: 25-Oct-2013 12:55:11 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022009.D		
Injection Date:	24-Oct-2013 16:06:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	9
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	
Y Scaling:			



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Lab Sample ID: CCVIS 490-121257/3 Calibration Date: 11/12/2013 17:37

Instrument ID: HP83 Calib Start Date: 09/14/2013 18:48

GC Column: ZB-5MSi ID: 0.25(mm) Calib End Date: 09/14/2013 20:40

Lab File ID: 1112003b.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5271				50.0		

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112003b.D
Lims ID: CCVIS Lab Sample ID:
Client ID:
Sample Type: CCVIS
Inject. Date: 12-Nov-2013 17:37:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 490-0028283-003
Operator ID: HP83 Instrument ID: HP83
Sublist: chrom-8270HP83*sub16

Method: \\Nvlchrom\ChromData\HP83\20131112-28283.b\8270HP83.m
Limit Group: MSS 8270C ICAL
Last Update: 12-Nov-2013 18:01:41 Calib Date: 24-Oct-2013 15:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D

Column 1 : Detector MS SCAN
Process Host: XAWRK011

First Level Reviewer: spryc Date: 12-Nov-2013 18:01:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.586	3.586	0.0	94	32984	40.0	
19 N-Nitrosodimethylamine	74	1.484	1.484	0.0	78	32975	53.2	
20 Pyridine	52	1.512	1.512	0.0	93	24732	49.2	
$ 21 2-Fluorophenol	112	2.730	2.730	0.0	91	47407	48.7	
3 Benzaldehyde	105	3.299	3.299	0.0	92	21997	54.0	
23 Aniline	93	3.374	3.374	0.0	96	77494	47.0	
$ 22 Phenol-d5	99	3.389	3.389	0.0	0	63722	48.0	
24 Phenol	94	3.398	3.398	0.0	96	66058	46.7	
25 Bis(2-chloroethyl)ether	93	3.431	3.431	0.0	97	48780	47.1	
26 2-Chlorophenol	128	3.454	3.454	0.0	91	52657	47.5	
27 1,3-Dichlorobenzene	146	3.544	3.544	0.0	95	59872	47.9	
28 1,4-Dichlorobenzene	146	3.595	3.595	0.0	92	61178	47.5	
30 1,2-Dichlorobenzene	146	3.690	3.690	0.0	94	58718	46.6	
29 Benzyl alcohol	108	3.690	3.690	0.0	84	37241	48.9	
12 Indene	115	3.746	3.746	0.0	75	92651	48.0	
31 2-Methylphenol	108	3.774	3.774	0.0	95	49768	48.4	
32 2,2'-oxybis[1-chloropropane]	45	3.779	3.779	0.0	89	39847	51.3	
17 Acetophenone	105	3.845	3.845	0.0	92	79897	47.9	
33 N-Nitrosodi-n-propylamine	70	3.859	3.859	0.0	89	45442	47.7	
35 3 & 4 Methylphenol	108	3.873	3.873	0.0	0	51638	47.6	
36 Hexachloroethane	117	3.896	3.896	0.0	97	23250	47.6	
* 37 Naphthalene-d8	136	4.376	4.376	0.0	99	137494	40.0	
$ 49 Nitrobenzene-d5	82	3.934	3.934	0.0	86	62649	48.9	
50 Nitrobenzene	77	3.943	3.943	0.0	80	63874	48.3	
51 Isophorone	82	4.103	4.103	0.0	96	111220	49.3	
52 2-Nitrophenol	139	4.146	4.146	0.0	94	32355	49.8	
53 2,4-Dimethylphenol	107	4.193	4.193	0.0	97	58202	45.9	
54 Bis(2-chloroethoxy)methane	93	4.249	4.249	0.0	98	63076	47.0	
55 Benzoic acid	105	4.277	4.277	0.0	83	54679	52.9	
56 2,4-Dichlorophenol	162	4.301	4.301	0.0	92	53611	49.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
57 1,2,4-Trichlorobenzene	180	4.348	4.348	0.0	90	56548	49.1	
58 Naphthalene	128	4.390	4.390	0.0	97	163924	48.5	
59 4-Chloroaniline	127	4.432	4.432	0.0	82	72286	49.7	
60 Hexachlorobutadiene	225	4.480	4.480	0.0	92	34148	47.3	
42 Caprolactam	113	4.653	4.653	0.0	84	14696	33.7	
61 4-Chloro-3-methylphenol	107	4.748	4.748	0.0	87	56694	47.0	
62 2-Methylnaphthalene	142	4.818	4.818	0.0	84	123274	48.5	
64 1-Methylnaphthalene	142	4.875	4.875	0.0	79	114780	48.6	
47 1,2,4,5-Tetrachlorobenzene	216	4.922	4.922	0.0	93	63531	47.6	
170 1,1'-Biphenyl	154	5.119	5.119	0.0	96	156981	49.2	
* 69 Acenaphthene-d10	164	5.490	5.490	0.0	84	95539	40.0	
80 Hexachlorocyclopentadiene	237	4.922	4.922	0.0	82	36565	52.1	
81 2,4,6-Trichlorophenol	196	5.001	5.001	0.0	92	41282	49.0	
82 2,4,5-Trichlorophenol	196	5.030	5.030	0.0	95	44853	48.3	
$ 83 2-Fluorobiphenyl (Surr)	172	5.058	5.058	0.0	99	145424	47.9	
84 2-Chloronaphthalene	162	5.124	5.124	0.0	98	120587	48.5	
85 2-Nitroaniline	65	5.194	5.194	0.0	83	38424	51.3	
86 Dimethyl phthalate	163	5.331	5.331	0.0	98	150109	49.0	
76 1,3-Dinitrobenzene	168	5.340	5.340	0.0	86	27655	50.4	
87 2,6-Dinitrotoluene	165	5.364	5.364	0.0	89	35387	50.1	
88 Acenaphthylene	152	5.392	5.392	0.0	91	189343	48.2	
89 3-Nitroaniline	138	5.472	5.472	0.0	94	38909	52.5	
90 Acenaphthene	153	5.514	5.514	0.0	94	126949	47.6	
91 2,4-Dinitrophenol	184	5.547	5.547	0.0	83	56726	104.3	
92 4-Nitrophenol	65	5.613	5.613	0.0	97	61075	92.5	
94 Dibenzofuran	168	5.632	5.632	0.0	84	180823	47.3	
93 2,4-Dinitrotoluene	165	5.636	5.636	0.0	75	50987	50.3	
77 2,3,4,6-Tetrachlorophenol	232	5.726	5.726	0.0	71	41360	47.6	
95 Diethyl phthalate	149	5.824	5.824	0.0	96	144363	47.2	
197 Hexadecane	57	5.853	5.853	0.0	0	55865	47.2	
96 Fluorene	166	5.871	5.871	0.0	74	153627	48.0	
97 4-Chlorophenyl phenyl ether	204	5.885	5.885	0.0	88	76894	46.5	
98 4-Nitroaniline	138	5.900	5.900	0.0	75	39868	52.8	
99 Azobenzene	77	5.998	5.998	0.0	97	144257	47.7	
* 102 Phenanthrene-d10	188	6.558	6.558	0.0	96	189286	40.0	
125 4,6-Dinitro-2-methylphenol	198	5.928	5.928	0.0	90	73547	98.5	
126 N-Nitrosodiphenylamine	169	5.975	5.975	0.0	59	92587	47.7	
$ 127 2,4,6-Tribromophenol	330	6.050	6.050	0.0	92	21568	49.9	
128 4-Bromophenyl phenyl ether	248	6.238	6.238	0.0	62	48347	47.9	
129 Hexachlorobenzene	284	6.276	6.276	0.0	94	48726	47.6	
168 Atrazine	200	6.389	6.389	0.0	91	35011	35.0	
130 Pentachlorophenol	266	6.431	6.431	0.0	90	71152	95.3	
131 Phenanthrene	178	6.577	6.577	0.0	96	225352	46.5	
132 Anthracene	178	6.614	6.614	0.0	97	234644	47.7	
133 Carbazole	167	6.751	6.751	0.0	82	222674	47.2	
134 Di-n-butyl phthalate	149	7.066	7.066	0.0	100	257371	49.7	
135 Fluoranthene	202	7.498	7.498	0.0	97	283808	48.6	
* 136 Chrysene-d12	240	8.641	8.641	0.0	84	253212	40.0	
146 Benzidine	184	7.625	7.625	0.0	97	52103	33.9	
152 Pyrene	202	7.668	7.668	0.0	97	288352	48.7	
$ 147 Terphenyl-d14	244	7.828	7.828	0.0	98	224021	47.5	
149 Butyl benzyl phthalate	149	8.251	8.251	0.0	97	122560	51.1	

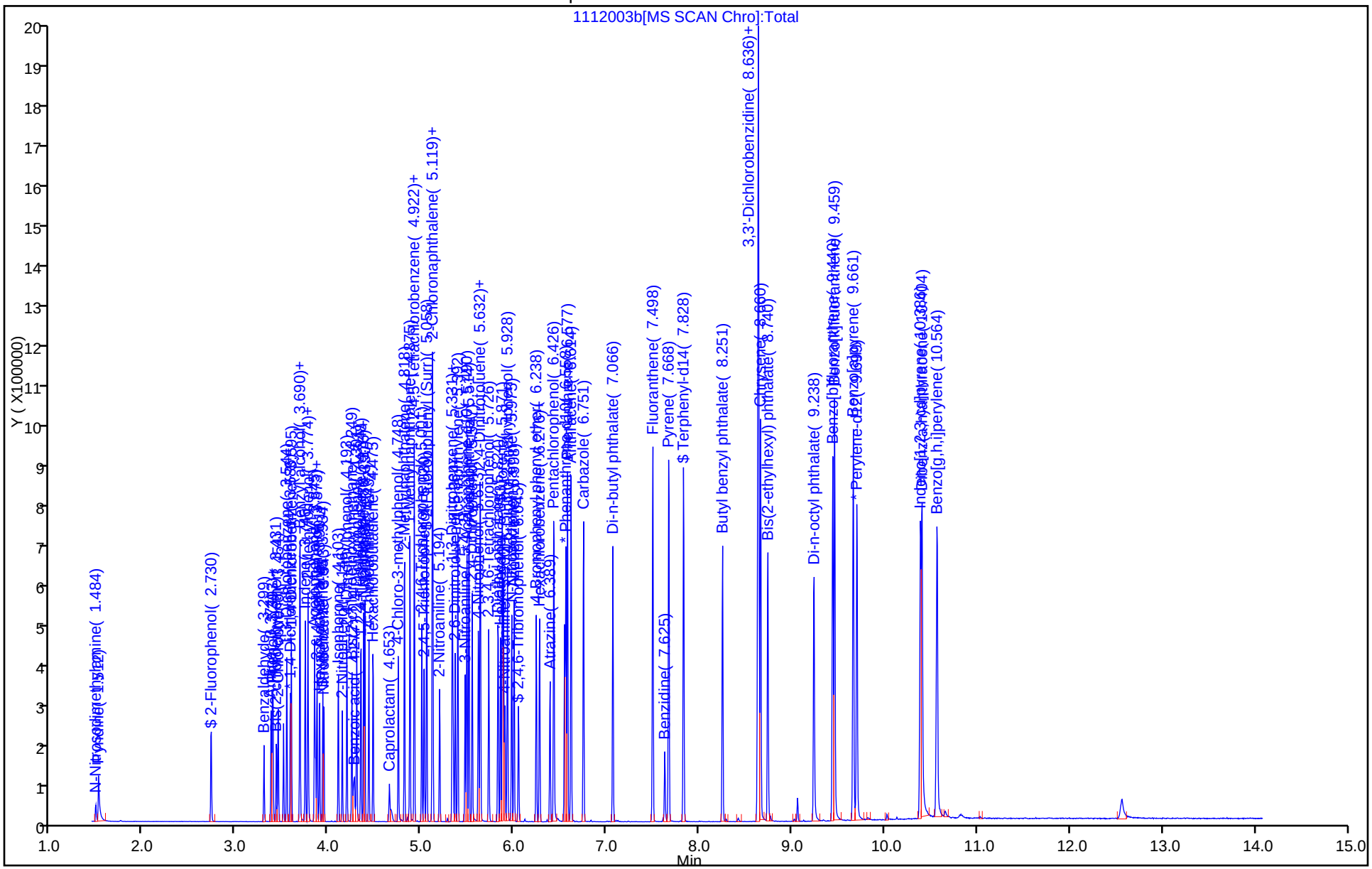
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
153 Benzo[a]anthracene	228	8.632	8.632	0.0	99	299590	46.6	
151 3,3'-Dichlorobenzidine	252	8.636	8.636	0.0	74	107606	49.2	
154 Chrysene	228	8.660	8.660	0.0	92	285107	47.4	
155 Bis(2-ethylhexyl) phthalate	149	8.740	8.740	0.0	94	171791	51.1	
* 156 Perylene-d12	264	9.699	9.699	0.0	87	252754	40.0	
158 Di-n-octyl phthalate	149	9.238	9.238	0.0	99	294210	51.9	
159 Benzo[b]fluoranthene	252	9.440	9.440	0.0	91	315701	47.3	
160 Benzo[k]fluoranthene	252	9.459	9.459	0.0	99	344868	47.8	
161 Benzo[a]pyrene	252	9.661	9.661	0.0	76	307151	49.0	
162 Indeno[1,2,3-cd]pyrene	276	10.386	10.386	0.0	95	355679	47.9	
163 Dibenz(a,h)anthracene	278	10.404	10.404	0.0	67	297410	47.9	
164 Benzo[g,h,i]perylene	276	10.569	10.569	0.0	94	305238	47.8	
S 169 Methyl Phenols,Total	1				0		96.0	

Report Date: 12-Nov-2013 18:01:42 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112003b.D

Injection Date:	12-Nov-2013 17:37:30	Instrument ID:	HP83	Operator ID:	HP83
Lims ID:	CCVIS	Lab Sample ID:		Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8270HP83	Limit Group:	MSS 8270C ICAL		



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Lab Sample ID: CCVIS 490-121257/3 Calibration Date: 11/12/2013 17:37

Instrument ID: HP83 Calib Start Date: 10/24/2013 13:51

GC Column: ZB-5MSi ID: 0.25(mm) Calib End Date: 10/24/2013 15:44

Lab File ID: 1112003b.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Nitrosodimethylamine	Ave	0.7511	0.7998		53.2	50.0	6.5	20.0
Pyridine	Ave	0.6096	0.5999		49.2	50.0	-1.6	20.0
Benzaldehyde	Ave	0.4940	0.5335		54.0	50.0	8.0	20.0
Aniline	Ave	2.001	1.880		47.0	50.0	-6.1	20.0
Phenol	Ave	1.714	1.602		46.7	50.0	-6.5	20.0
Bis(2-chloroethyl)ether	Ave	1.256	1.183		47.1	50.0	-5.8	20.0
2-Chlorophenol	Ave	1.345	1.277		47.5	50.0	-5.1	20.0
1,3-Dichlorobenzene	Ave	1.516	1.452		47.9	50.0	-4.2	20.0
1,4-Dichlorobenzene	Ave	1.563	1.484		47.5	50.0	-5.1	20.0
1,2-Dichlorobenzene	Ave	1.528	1.424		46.6	50.0	-6.8	20.0
Benzyl alcohol	Ave	0.9244	0.9033		48.9	50.0	-2.3	20.0
Indene	Ave	2.339	2.247		48.0	50.0	-3.9	20.0
2-Methylphenol	Ave	1.246	1.207		48.5	50.0	-3.1	20.0
bis (2-chloroisopropyl) ether	Ave	0.9420	0.9665		51.3	50.0	2.6	20.0
Acetophenone	Ave	2.024	1.938		47.9	50.0	-4.2	20.0
N-Nitrosodi-n-propylamine	Ave	1.156	1.102	0.0500	47.7	50.0	-4.6	20.0
3 & 4 Methylphenol	Ave	1.316	1.252		47.6	50.0	-4.9	20.0
Hexachloroethane	Ave	0.5918	0.5639		47.6	50.0	-4.7	20.0
Nitrobenzene	Ave	0.3846	0.3717		48.3	50.0	-3.4	20.0
Isophorone	Ave	0.6567	0.6471		49.3	50.0	-1.5	20.0
2-Nitrophenol	Ave	0.1891	0.1883		49.8	50.0	-0.5	20.0
2,4-Dimethylphenol	Ave	0.3690	0.3386		45.9	50.0	-8.2	20.0
Bis(2-chloroethoxy)methane	Ave	0.3901	0.3670		47.0	50.0	-5.9	20.0
Benzoic acid	Ave	0.3009	0.3182		52.9	50.0	5.7	20.0
2,4-Dichlorophenol	Ave	0.3135	0.3119		49.8	50.0	-0.5	20.0
1,2,4-Trichlorobenzene	Ave	0.3349	0.3290		49.1	50.0	-1.8	20.0
Naphthalene	Ave	0.9827	0.9538		48.5	50.0	-2.9	20.0
4-Chloroaniline	Ave	0.4227	0.4206		49.8	50.0	-0.5	20.0
Hexachlorobutadiene	Ave	0.2099	0.1987		47.3	50.0	-5.4	20.0
Caprolactam	Lin2		0.0855		33.7	50.0	-32.6*	20.0
4-Chloro-3-methylphenol	Ave	0.3506	0.3299		47.0	50.0	-5.9	20.0
2-Methylnaphthalene	Ave	0.7388	0.7173		48.5	50.0	-2.9	20.0
1-Methylnaphthalene	Ave	0.6877	0.6678		48.6	50.0	-2.9	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.3883	0.3697		47.6	50.0	-4.8	20.0
Hexachlorocyclopentadiene	Lin2		0.3062	0.0500	52.1	50.0	4.1	20.0
2,4,6-Trichlorophenol	Ave	0.3526	0.3457		49.0	50.0	-1.9	20.0
2,4,5-Trichlorophenol	Ave	0.3888	0.3756		48.3	50.0	-3.4	20.0
Biphenyl	Ave	0.9278	0.9134		49.2	50.0	-1.6	20.0
2-Chloronaphthalene	Ave	1.042	1.010		48.5	50.0	-3.1	20.0
2-Nitroaniline	Ave	0.3133	0.3218		51.3	50.0	2.7	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Lab Sample ID: CCVIS 490-121257/3 Calibration Date: 11/12/2013 17:37

Instrument ID: HP83 Calib Start Date: 10/24/2013 13:51

GC Column: ZB-5MSi ID: 0.25(mm) Calib End Date: 10/24/2013 15:44

Lab File ID: 1112003b.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dimethyl phthalate	Ave	1.282	1.257		49.0	50.0	-2.0	20.0
1,3-Dinitrobenzene	Lin2		0.2316		50.4	50.0	0.8	20.0
2,6-Dinitrotoluene	Ave	0.2956	0.2963		50.1	50.0	0.3	20.0
Acenaphthylene	Ave	1.644	1.585		48.2	50.0	-3.6	20.0
3-Nitroaniline	Ave	0.3103	0.3258		52.5	50.0	5.0	20.0
Acenaphthene	Ave	1.116	1.063		47.6	50.0	-4.8	20.0
2,4-Dinitrophenol	Lin2		0.2375	0.0500	104	100	4.3	20.0
4-Nitrophenol	Ave	0.2765	0.2557	0.0500	92.5	100	-7.5	20.0
Dibenzofuran	Ave	1.599	1.514		47.3	50.0	-5.3	20.0
2,4-Dinitrotoluene	Ave	0.4242	0.4269		50.3	50.0	0.6	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3635	0.3463		47.6	50.0	-4.7	20.0
Diethyl phthalate	Ave	1.280	1.209		47.2	50.0	-5.6	20.0
Hexadecane	Ave	0.4956	0.4678		47.2	50.0	-5.6	20.0
Fluorene	Ave	1.340	1.286		48.0	50.0	-4.0	20.0
4-Chlorophenyl phenyl ether	Ave	0.6916	0.6439		46.6	50.0	-6.9	20.0
4-Nitroaniline	Ave	0.3164	0.3338		52.8	50.0	5.5	20.0
4,6-Dinitro-2-methylphenol	Lin2		0.1554		98.5	100	-1.5	20.0
n-Nitrosodiphenylamine(as diphenylamine)	Ave	0.4106	0.3913		47.7	50.0	-4.7	20.0
1,2-Diphenylhydrazine (as Azobenzene)	Ave	1.266	1.208		47.7	50.0	-4.6	20.0
4-Bromophenyl phenyl ether	Ave	0.2133	0.2043		47.9	50.0	-4.2	20.0
Hexachlorobenzene	Ave	0.2164	0.2059		47.6	50.0	-4.8	20.0
Atrazine	Ave	0.2117	0.1480		35.0	50.0	-30.1*	20.0
Pentachlorophenol	Ave	0.1578	0.1504		95.3	100	-4.7	20.0
Phenanthrene	Ave	1.025	0.9524		46.5	50.0	-7.1	20.0
Anthracene	Ave	1.039	0.9917		47.7	50.0	-4.6	20.0
Carbazole	Ave	0.996	0.9411		47.2	50.0	-5.6	20.0
Di-n-butyl phthalate	Ave	1.095	1.088		49.7	50.0	-0.7	20.0
Fluoranthene	Ave	1.234	1.199		48.6	50.0	-2.8	20.0
Benzidine	Lin		0.1646		33.9	50.0	-32.3*	20.0
Pyrene	Ave	0.9355	0.9110		48.7	50.0	-2.6	20.0
Butyl benzyl phthalate	Ave	0.3792	0.3872		51.1	50.0	2.1	20.0
Benzo[a]anthracene	Ave	1.015	0.9465		46.6	50.0	-6.7	20.0
3,3'-Dichlorobenzidine	Ave	0.3458	0.3400		49.2	50.0	-1.7	20.0
Chrysene	Ave	0.9502	0.9008		47.4	50.0	-5.2	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.5306	0.5428		51.2	50.0	2.3	20.0
Di-n-octyl phthalate	Ave	0.8973	0.9312		51.9	50.0	3.8	20.0
Benzo[b]fluoranthene	Ave	1.057	0.999		47.3	50.0	-5.5	20.0
Benzo[k]fluoranthene	Ave	1.141	1.092		47.8	50.0	-4.3	20.0
Benzo[a]pyrene	Ave	0.9925	0.9722		49.0	50.0	-2.0	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.174	1.126		48.0	50.0	-4.1	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Lab Sample ID: CCVIS 490-121257/3 Calibration Date: 11/12/2013 17:37

Instrument ID: HP83 Calib Start Date: 10/24/2013 13:51

GC Column: ZB-5MSi ID: 0.25(mm) Calib End Date: 10/24/2013 15:44

Lab File ID: 1112003b.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibenz(a,h)anthracene	Ave	0.9826	0.9413		47.9	50.0	-4.2	20.0
Benzo[g,h,i]perylene	Ave	1.010	0.9661		47.8	50.0	-4.4	20.0
n-Decane	Ave	0.9685				50.0		
n-Octadecane	Ave	0.2651				50.0		
2-Fluorophenol (Surr)	Ave	1.179	1.150		48.8	50.0	-2.5	20.0
Phenol-d5 (Surr)	Ave	1.611	1.546		48.0	50.0	-4.1	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3731	0.3645		48.9	50.0	-2.3	20.0
2-Fluorobiphenyl (Surr)	Ave	1.271	1.218		47.9	50.0	-4.2	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.0914	0.0912		49.9	50.0	-0.2	20.0
Terphenyl-d14 (Surr)	Ave	0.7448	0.7078		47.5	50.0	-5.0	20.0

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112003b.D
Lims ID: CCVIS Lab Sample ID:
Client ID:
Sample Type: CCVIS
Inject. Date: 12-Nov-2013 17:37:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 490-0028283-003
Operator ID: HP83 Instrument ID: HP83
Sublist: chrom-8270HP83*sub16

Method: \\Nvlchrom\ChromData\HP83\20131112-28283.b\8270HP83.m
Limit Group: MSS 8270C ICAL
Last Update: 12-Nov-2013 18:01:41 Calib Date: 24-Oct-2013 15:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D

Column 1 : Detector MS SCAN
Process Host: XAWRK011

First Level Reviewer: spryc Date: 12-Nov-2013 18:01:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.586	3.586	0.0	94	32984	40.0	
19 N-Nitrosodimethylamine	74	1.484	1.484	0.0	78	32975	53.2	
20 Pyridine	52	1.512	1.512	0.0	93	24732	49.2	
$ 21 2-Fluorophenol	112	2.730	2.730	0.0	91	47407	48.7	
3 Benzaldehyde	105	3.299	3.299	0.0	92	21997	54.0	
23 Aniline	93	3.374	3.374	0.0	96	77494	47.0	
$ 22 Phenol-d5	99	3.389	3.389	0.0	0	63722	48.0	
24 Phenol	94	3.398	3.398	0.0	96	66058	46.7	
25 Bis(2-chloroethyl)ether	93	3.431	3.431	0.0	97	48780	47.1	
26 2-Chlorophenol	128	3.454	3.454	0.0	91	52657	47.5	
27 1,3-Dichlorobenzene	146	3.544	3.544	0.0	95	59872	47.9	
28 1,4-Dichlorobenzene	146	3.595	3.595	0.0	92	61178	47.5	
30 1,2-Dichlorobenzene	146	3.690	3.690	0.0	94	58718	46.6	
29 Benzyl alcohol	108	3.690	3.690	0.0	84	37241	48.9	
12 Indene	115	3.746	3.746	0.0	75	92651	48.0	
31 2-Methylphenol	108	3.774	3.774	0.0	95	49768	48.4	
32 2,2'-oxybis[1-chloropropane]	45	3.779	3.779	0.0	89	39847	51.3	
17 Acetophenone	105	3.845	3.845	0.0	92	79897	47.9	
33 N-Nitrosodi-n-propylamine	70	3.859	3.859	0.0	89	45442	47.7	
35 3 & 4 Methylphenol	108	3.873	3.873	0.0	0	51638	47.6	
36 Hexachloroethane	117	3.896	3.896	0.0	97	23250	47.6	
* 37 Naphthalene-d8	136	4.376	4.376	0.0	99	137494	40.0	
$ 49 Nitrobenzene-d5	82	3.934	3.934	0.0	86	62649	48.9	
50 Nitrobenzene	77	3.943	3.943	0.0	80	63874	48.3	
51 Isophorone	82	4.103	4.103	0.0	96	111220	49.3	
52 2-Nitrophenol	139	4.146	4.146	0.0	94	32355	49.8	
53 2,4-Dimethylphenol	107	4.193	4.193	0.0	97	58202	45.9	
54 Bis(2-chloroethoxy)methane	93	4.249	4.249	0.0	98	63076	47.0	
55 Benzoic acid	105	4.277	4.277	0.0	83	54679	52.9	
56 2,4-Dichlorophenol	162	4.301	4.301	0.0	92	53611	49.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
57 1,2,4-Trichlorobenzene	180	4.348	4.348	0.0	90	56548	49.1	
58 Naphthalene	128	4.390	4.390	0.0	97	163924	48.5	
59 4-Chloroaniline	127	4.432	4.432	0.0	82	72286	49.7	
60 Hexachlorobutadiene	225	4.480	4.480	0.0	92	34148	47.3	
42 Caprolactam	113	4.653	4.653	0.0	84	14696	33.7	
61 4-Chloro-3-methylphenol	107	4.748	4.748	0.0	87	56694	47.0	
62 2-Methylnaphthalene	142	4.818	4.818	0.0	84	123274	48.5	
64 1-Methylnaphthalene	142	4.875	4.875	0.0	79	114780	48.6	
47 1,2,4,5-Tetrachlorobenzene	216	4.922	4.922	0.0	93	63531	47.6	
170 1,1'-Biphenyl	154	5.119	5.119	0.0	96	156981	49.2	
* 69 Acenaphthene-d10	164	5.490	5.490	0.0	84	95539	40.0	
80 Hexachlorocyclopentadiene	237	4.922	4.922	0.0	82	36565	52.1	
81 2,4,6-Trichlorophenol	196	5.001	5.001	0.0	92	41282	49.0	
82 2,4,5-Trichlorophenol	196	5.030	5.030	0.0	95	44853	48.3	
$ 83 2-Fluorobiphenyl (Surr)	172	5.058	5.058	0.0	99	145424	47.9	
84 2-Chloronaphthalene	162	5.124	5.124	0.0	98	120587	48.5	
85 2-Nitroaniline	65	5.194	5.194	0.0	83	38424	51.3	
86 Dimethyl phthalate	163	5.331	5.331	0.0	98	150109	49.0	
76 1,3-Dinitrobenzene	168	5.340	5.340	0.0	86	27655	50.4	
87 2,6-Dinitrotoluene	165	5.364	5.364	0.0	89	35387	50.1	
88 Acenaphthylene	152	5.392	5.392	0.0	91	189343	48.2	
89 3-Nitroaniline	138	5.472	5.472	0.0	94	38909	52.5	
90 Acenaphthene	153	5.514	5.514	0.0	94	126949	47.6	
91 2,4-Dinitrophenol	184	5.547	5.547	0.0	83	56726	104.3	
92 4-Nitrophenol	65	5.613	5.613	0.0	97	61075	92.5	
94 Dibenzofuran	168	5.632	5.632	0.0	84	180823	47.3	
93 2,4-Dinitrotoluene	165	5.636	5.636	0.0	75	50987	50.3	
77 2,3,4,6-Tetrachlorophenol	232	5.726	5.726	0.0	71	41360	47.6	
95 Diethyl phthalate	149	5.824	5.824	0.0	96	144363	47.2	
197 Hexadecane	57	5.853	5.853	0.0	0	55865	47.2	
96 Fluorene	166	5.871	5.871	0.0	74	153627	48.0	
97 4-Chlorophenyl phenyl ether	204	5.885	5.885	0.0	88	76894	46.5	
98 4-Nitroaniline	138	5.900	5.900	0.0	75	39868	52.8	
99 Azobenzene	77	5.998	5.998	0.0	97	144257	47.7	
* 102 Phenanthrene-d10	188	6.558	6.558	0.0	96	189286	40.0	
125 4,6-Dinitro-2-methylphenol	198	5.928	5.928	0.0	90	73547	98.5	
126 N-Nitrosodiphenylamine	169	5.975	5.975	0.0	59	92587	47.7	
$ 127 2,4,6-Tribromophenol	330	6.050	6.050	0.0	92	21568	49.9	
128 4-Bromophenyl phenyl ether	248	6.238	6.238	0.0	62	48347	47.9	
129 Hexachlorobenzene	284	6.276	6.276	0.0	94	48726	47.6	
168 Atrazine	200	6.389	6.389	0.0	91	35011	35.0	
130 Pentachlorophenol	266	6.431	6.431	0.0	90	71152	95.3	
131 Phenanthrene	178	6.577	6.577	0.0	96	225352	46.5	
132 Anthracene	178	6.614	6.614	0.0	97	234644	47.7	
133 Carbazole	167	6.751	6.751	0.0	82	222674	47.2	
134 Di-n-butyl phthalate	149	7.066	7.066	0.0	100	257371	49.7	
135 Fluoranthene	202	7.498	7.498	0.0	97	283808	48.6	
* 136 Chrysene-d12	240	8.641	8.641	0.0	84	253212	40.0	
146 Benzidine	184	7.625	7.625	0.0	97	52103	33.9	
152 Pyrene	202	7.668	7.668	0.0	97	288352	48.7	
$ 147 Terphenyl-d14	244	7.828	7.828	0.0	98	224021	47.5	
149 Butyl benzyl phthalate	149	8.251	8.251	0.0	97	122560	51.1	

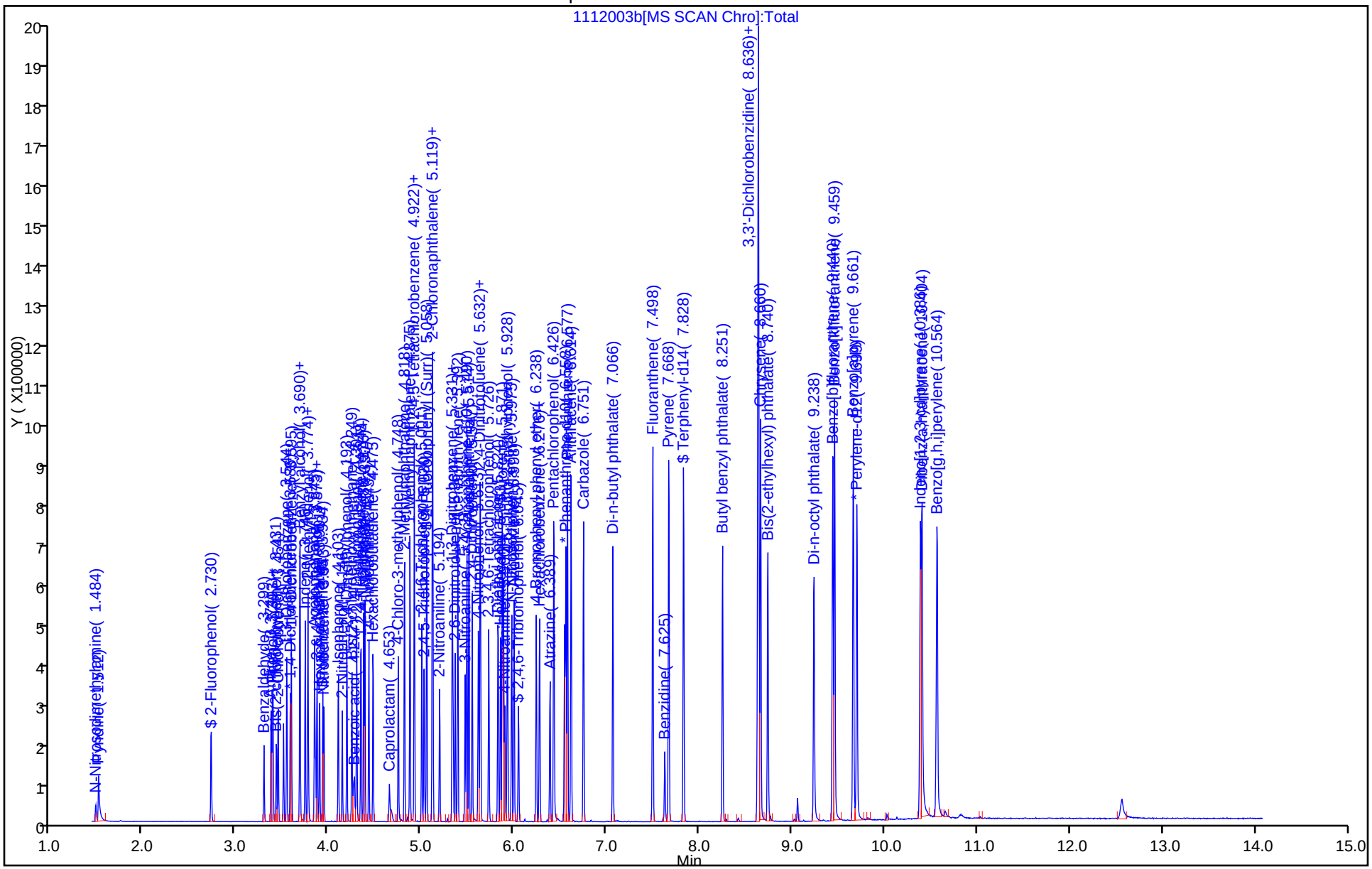
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
153 Benzo[a]anthracene	228	8.632	8.632	0.0	99	299590	46.6	
151 3,3'-Dichlorobenzidine	252	8.636	8.636	0.0	74	107606	49.2	
154 Chrysene	228	8.660	8.660	0.0	92	285107	47.4	
155 Bis(2-ethylhexyl) phthalate	149	8.740	8.740	0.0	94	171791	51.1	
* 156 Perylene-d12	264	9.699	9.699	0.0	87	252754	40.0	
158 Di-n-octyl phthalate	149	9.238	9.238	0.0	99	294210	51.9	
159 Benzo[b]fluoranthene	252	9.440	9.440	0.0	91	315701	47.3	
160 Benzo[k]fluoranthene	252	9.459	9.459	0.0	99	344868	47.8	
161 Benzo[a]pyrene	252	9.661	9.661	0.0	76	307151	49.0	
162 Indeno[1,2,3-cd]pyrene	276	10.386	10.386	0.0	95	355679	47.9	
163 Dibenz(a,h)anthracene	278	10.404	10.404	0.0	67	297410	47.9	
164 Benzo[g,h,i]perylene	276	10.569	10.569	0.0	94	305238	47.8	
S 169 Methyl Phenols,Total	1				0		96.0	

Report Date: 12-Nov-2013 18:01:42 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112003b.D

Injection Date:	12-Nov-2013 17:37:30	Instrument ID:	HP83	Operator ID:	HP83
Lims ID:	CCVIS	Lab Sample ID:		Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8270HP83	Limit Group:	MSS 8270C ICAL		



TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022002.D		
Lims ID:	DFTPP	Client ID:	
Inject. Date:	24-Oct-2013 13:34:30	Dil. Factor:	1.0000
Sample Type:	DFTPP		
Sample ID:	DFTPP		
Misc. Info.:	490-0027300-002		
Operator:	HP83	Instrument ID:	HP83
Injection Vol:	1.0 uL	ALS Bottle#:	2
Lims Batch ID:	116774	Lims Sample ID:	2
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\8270HP83.m		
Last Update:	25-Oct-2013 12:55:19	Calib Date:	24-Oct-2013 15:44:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D		
Limit Group:	MSS 8270C ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK029		
First Level Reviewer: salomonb		Date:	24-Oct-2013 14:03:07

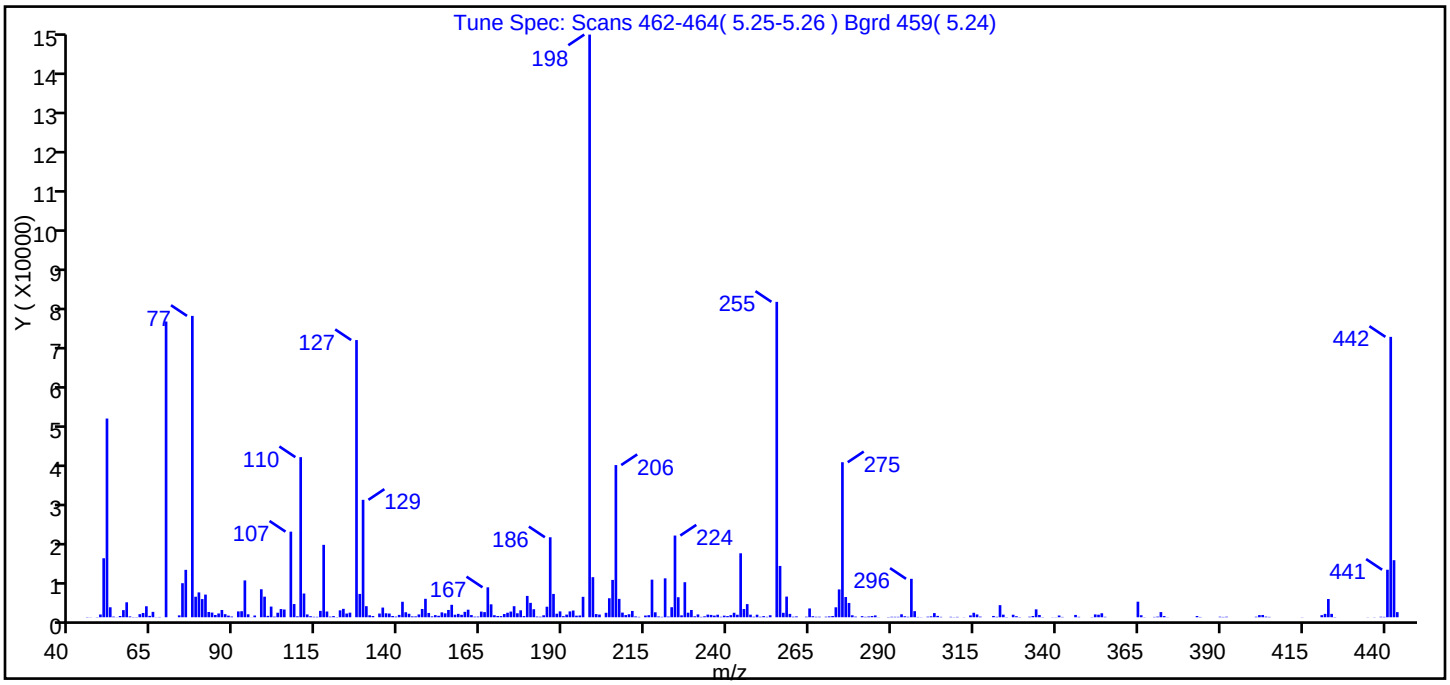
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
171 Pentachlorophenol_T	266	4.841	4.841	0.0	86	189755	0	
172 DFTPP								
173 Benzidine_T	184	6.120	6.120	0.0	98	933901	0	
174 4,4'-DDE	246	6.280	6.280	0.0	2	597	0	
175 4,4'-DDD	235	6.567	6.567	0.0	65	3436	0	
176 4,4'-DDT	235	6.825	6.825	0.0	98	456307	0	

MS Tune Report

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022002.D		
Injection Date:	24-Oct-2013 13:34:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	2
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	
Tune Method:	DFTPP Method 8270		

172 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	34.11
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Present	50.75
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	47.57
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.88
275	10.00 - 30.00% of mass 198	26.61
365	Greater than 1.00% of mass 198	2.67
441	Present, but less than mass 443%	8.15 (83.26)
442	Greater than 40.00% of mass 198	48.12
443	17.00 - 23.00% of mass 442	9.79 (20.35)

Data File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022002.D\8270HP83.rslt\spectra.d
Injection Date: 24-Oct-2013 13:34:30
Spectrum: Tune Spec: Scans 462-464(5.25-5.26) Bgrd 459(5.24)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 304

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	62	131.00	480	209.00	535	293.00	725
46.00	33	132.00	303	210.00	735	294.00	238
48.00	55	133.00	1	211.00	1542	295.00	116
49.00	679	134.00	908	212.00	201	296.00	9390
50.00	14414	135.00	2367	213.00	100	297.00	1488
51.00	48544	136.00	972	215.00	419	298.00	81
52.00	2440	137.00	911	216.00	506	299.00	40
53.00	157	138.00	313	217.00	9187	301.00	139
54.00	37	139.00	159	218.00	1212	302.00	226
55.00	307	140.00	578	219.00	198	303.00	1020
56.00	1740	141.00	3783	220.00	103	304.00	332
57.00	3656	142.00	1226	221.00	9506	305.00	100
58.00	200	143.00	851	222.00	166	308.00	107
59.00	56	144.00	214	223.00	2452	309.00	48
60.00	54	145.00	213	224.00	19960	310.00	96
61.00	758	146.00	689	225.00	4894	312.00	34
62.00	1049	147.00	2019	226.00	467	314.00	456
63.00	2686	148.00	4508	227.00	8560	315.00	1097
64.00	339	149.00	1052	228.00	1111	316.00	682
65.00	1317	150.00	217	229.00	1776	317.00	154
66.00	38	151.00	521	230.00	231	321.00	317
67.00	73	152.00	359	231.00	686	322.00	111
69.00	72240	153.00	1192	232.00	95	323.00	2957
73.00	462	154.00	955	233.00	233	324.00	634
74.00	8319	155.00	1783	234.00	646	325.00	55
75.00	11581	156.00	3038	235.00	573	327.00	619
77.00	73616	157.00	618	236.00	404	328.00	247
78.00	5015	158.00	828	237.00	623	329.00	61
79.00	6074	159.00	597	238.00	114	332.00	133
80.00	4436	160.00	1319	239.00	394	333.00	298
81.00	5535	161.00	1843	240.00	285	334.00	1936
82.00	1287	162.00	532	241.00	516	335.00	559
83.00	1146	163.00	147	242.00	1095	336.00	57

Report Date: 25-Oct-2013 12:55:20 Chrom Revision: 2.0 01-Apr-2013 21:16:10
Data File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022002.D\8270HP83.rslt\spectra.d
Injection Date: 24-Oct-2013 13:34:30
Spectrum: Tune Spec: Scans 462-464(5.25-5.26) Bgrd 459(5.24)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 304

m/z	Y	m/z	Y	m/z	Y	m/z	Y
84.00	552	164.00	168	243.00	618	339.00	36
85.00	923	165.00	1383	244.00	15629	340.00	39
86.00	1776	166.00	1255	245.00	2011	341.00	431
87.00	751	167.00	7312	246.00	3213	342.00	81
88.00	397	168.00	3160	247.00	629	346.00	564
89.00	178	169.00	494	248.00	132	347.00	109
91.00	1425	170.00	313	249.00	624	351.00	57
92.00	1477	171.00	277	250.00	120	352.00	693
93.00	9000	172.00	785	251.00	275	353.00	621
94.00	724	173.00	1101	252.00	110	354.00	973
95.00	25	174.00	1388	253.00	488	355.00	111
96.00	424	175.00	2699	255.00	77048	365.00	3803
98.00	6841	176.00	978	256.00	12535	366.00	492
99.00	5030	177.00	1698	257.00	1086	367.00	43
100.00	342	178.00	283	258.00	5048	370.00	87
101.00	2609	179.00	5214	259.00	825	371.00	155
102.00	156	180.00	3518	260.00	135	372.00	1261
103.00	1106	181.00	1962	261.00	208	373.00	285
104.00	2006	182.00	174	264.00	138	374.00	35
105.00	1890	183.00	132	265.00	2153	383.00	305
107.00	20912	184.00	480	266.00	248	384.00	73
108.00	3227	185.00	2576	267.00	120	390.00	134
109.00	224	186.00	19544	268.00	129	391.00	80
110.00	39112	187.00	5699	270.00	136	392.00	131
111.00	5798	188.00	867	271.00	212	401.00	132
112.00	690	189.00	1435	272.00	297	402.00	528
113.00	255	190.00	275	273.00	2434	403.00	553
114.00	116	191.00	645	274.00	6798	404.00	155
115.00	108	192.00	1431	275.00	37872	405.00	92
116.00	1558	193.00	1639	276.00	4941	415.00	38
117.00	17688	194.00	389	277.00	3494	421.00	507
118.00	1406	195.00	433	278.00	478	422.00	825
119.00	150	196.00	4991	279.00	156	423.00	4456
120.00	287	198.00	142336	281.00	265	424.00	828

Report Date: 25-Oct-2013 12:55:20 Chrom Revision: 2.0 01-Apr-2013 21:16:10
Data File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022002.D\8270HP83.rslt\spectra.d
Injection Date: 24-Oct-2013 13:34:30
Spectrum: Tune Spec: Scans 462-464(5.25-5.26) Bgrd 459(5.24)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 304

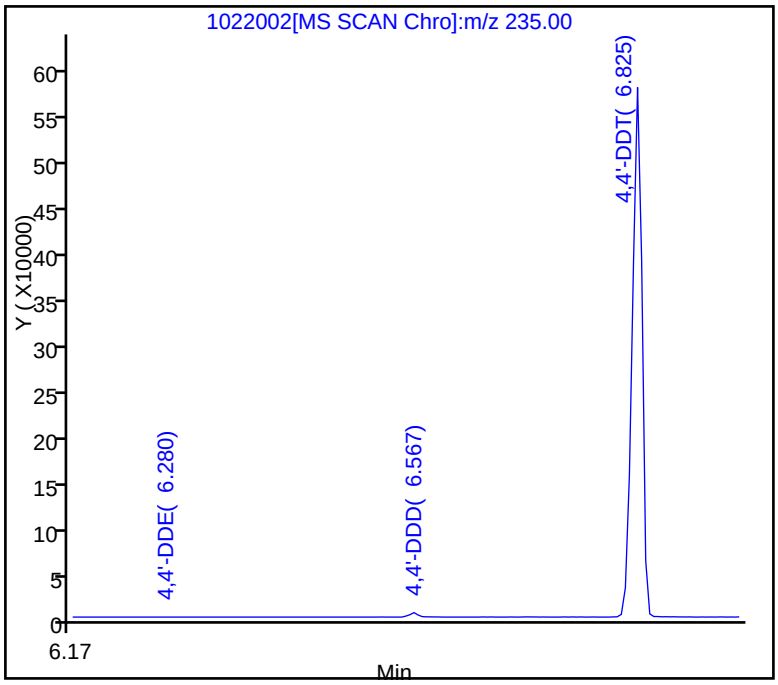
m/z	Y	m/z	Y	m/z	Y	m/z	Y
121.00	53	199.00	9793	282.00	99	425.00	66
122.00	1686	200.00	775	283.00	189	435.00	33
123.00	2057	201.00	652	284.00	298	437.00	40
124.00	910	203.00	1096	285.00	444	439.00	125
125.00	1122	204.00	4644	286.00	36	440.00	93
127.00	67712	205.00	9124	289.00	64	441.00	11606
128.00	5701	206.00	37176	290.00	119	442.00	68496
129.00	28688	207.00	4493	291.00	112	443.00	13939
130.00	2707	208.00	1139	292.00	109	444.00	1250

Breakdown Report

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP83\20131024-27300.b\1022002.D		
Injection Date:	24-Oct-2013 13:34:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	2
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	

176 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

176 4,4'-DDT, Area = 456307
174 4,4'-DDE, Area = 597
175 4,4'-DDD, Area = 3436

%Breakdown: 0.88%, Max Limit: 30.00%
Passed

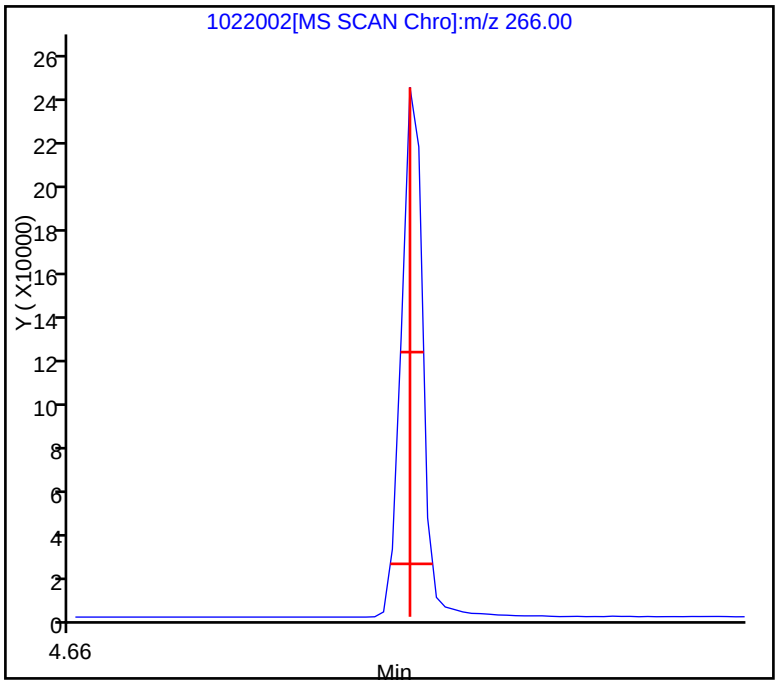
Peak Tailing Report

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022002.D

Injection Date:	24-Oct-2013 13:34:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	2
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	

171 Pentachlorophenol_T, Detector: MS SCAN



Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.012 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.2, Max. Tailing < 5.00
Passed

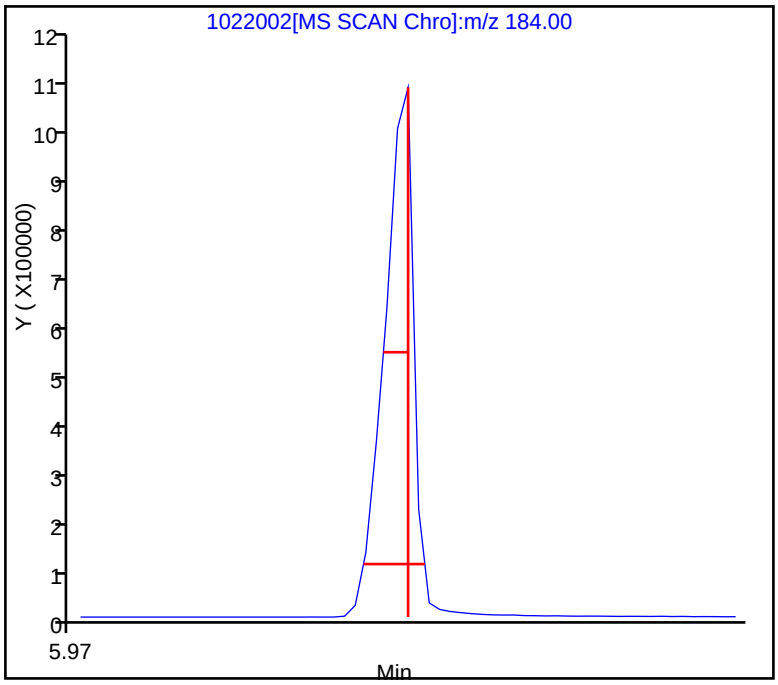
Peak Tailing Report

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022002.D

Injection Date:	24-Oct-2013 13:34:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP83
Lims Batch ID:	116774	Lims Sample ID:	2
Operator ID:	HP83	Injection Vol:	1.0 uL
Column Type:		Column Dia:	

173 Benzidine_T, Detector: MS SCAN



Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.007 (min.)
Front Width = 0.020 (min.)

Tailing Factor = 0.4, Max. Tailing < 3.00
Passed

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112002b.D
Lims ID: DFTPP Lab Sample ID:
Client ID:
Sample Type: DFTPP
Inject. Date: 12-Nov-2013 17:21:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 490-0028283-002
Operator ID: HP83 Instrument ID: HP83

Method: \\Nvlchrom\ChromData\HP83\20131112-28283.b\8270HP83.m
Limit Group: MSS 8270C ICAL
Last Update: 12-Nov-2013 17:44:14 Calib Date: 24-Oct-2013 15:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D

Column 1 : Detector MS SCAN
Process Host: XAWRK011

First Level Reviewer: spryc Date: 12-Nov-2013 17:44:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
171 Pentachlorophenol_T	266	4.582	4.582	0.0	90	176427	0	7
172 DFTPP								
173 Benzidine_T	184	5.843	5.843	0.0	98	894054	0	7
175 4,4'-DDD	235	6.285	6.285	0.0	19	1085	0	7
176 4,4'-DDT	235	6.543	6.543	0.0	99	433214	0	7

QC Flag Legend

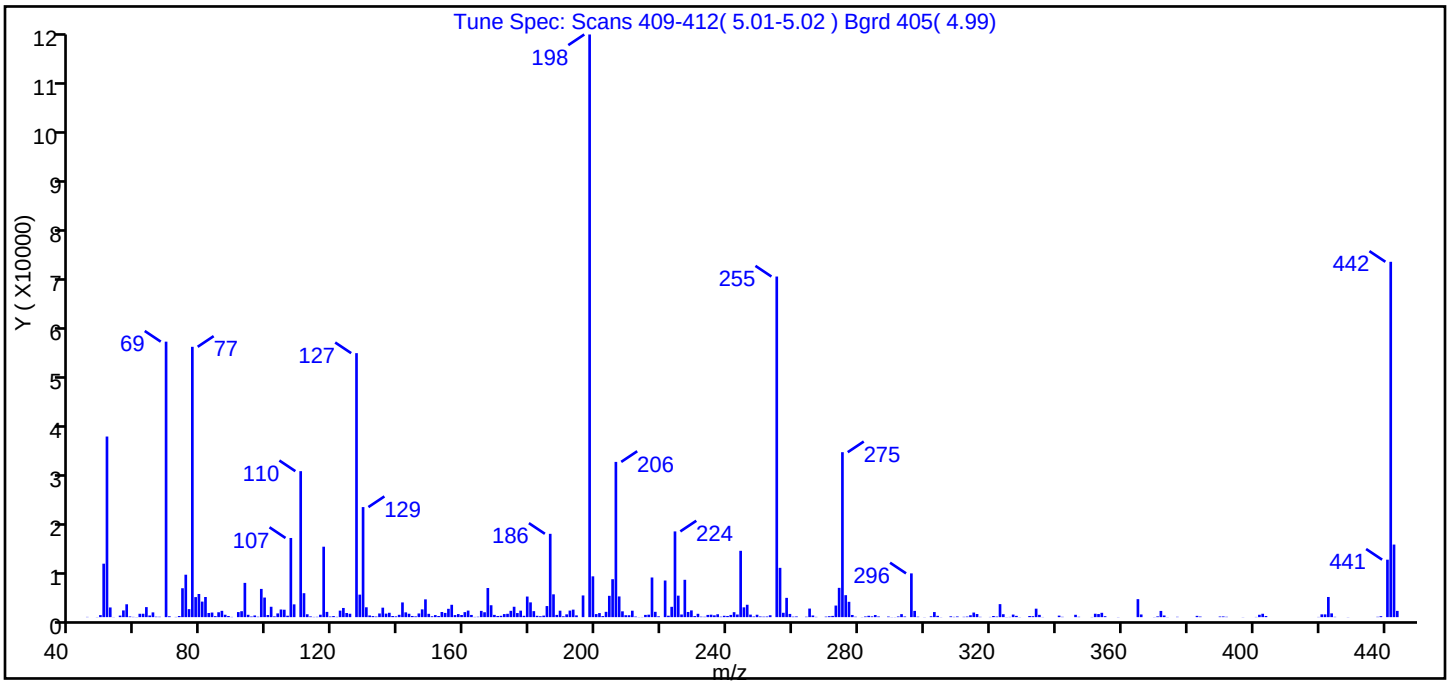
Processing Flags
7 - Failed Limit of Detection

MS Tune Report

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112002b.D
Injection Date: 12-Nov-2013 17:21:30 Instrument ID: HP83
Lims ID: DFTPP Lab Sample ID:
Client ID:
Operator ID: HP83 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: 8270HP83 Limit Group: MSS 8270C ICAL
Tune Method: DFTPP Method 8270

172 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	31.00
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Present	47.30
70	Less than 2.00% of mass 69	0.10 (0.30)
127	40.00 - 60.00% of mass 198	45.30
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.00
275	10.00 - 30.00% of mass 198	28.30
365	Greater than 1.00% of mass 198	3.10
441	Present, but less than mass 443%	9.90 (79.20)
442	Greater than 40.00% of mass 198	61.00
443	17.00 - 23.00% of mass 442	12.50 (20.40)

Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112002b.D\8270HP83.rslt\spectra.d
Injection Date: 12-Nov-2013 17:21:30
Spectrum: Tune Spec: Scans 409-412(5.01-5.02) Bgrd 405(4.99)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 304

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	47	129.00	22040	207.00	4146	292.00	138
48.00	31	130.00	1976	208.00	1166	293.00	603
49.00	408	131.00	337	209.00	384	294.00	130
50.00	10706	132.00	216	210.00	379	296.00	8764
51.00	36168	133.00	116	211.00	1287	297.00	1253
52.00	1942	134.00	734	212.00	114	298.00	95
53.00	31	135.00	1897	213.00	29	300.00	27
55.00	312	136.00	705	214.00	34	302.00	168
56.00	1347	137.00	875	215.00	449	303.00	1019
57.00	2577	138.00	227	216.00	493	304.00	260
58.00	132	139.00	155	217.00	7942	305.00	27
59.00	52	140.00	468	218.00	1066	308.00	163
60.00	28	141.00	2949	219.00	168	309.00	55
61.00	674	142.00	961	221.00	7336	310.00	138
62.00	681	143.00	680	222.00	284	312.00	66
63.00	2010	144.00	232	223.00	2065	313.00	112
64.00	330	145.00	150	224.00	17168	314.00	383
65.00	955	146.00	737	225.00	4304	315.00	919
66.00	90	147.00	1559	226.00	528	316.00	624
67.00	76	148.00	3563	227.00	7478	317.00	60
69.00	55168	149.00	664	228.00	1035	320.00	41
70.00	170	150.00	177	229.00	1351	321.00	229
72.00	43	151.00	409	230.00	212	322.00	112
73.00	227	152.00	227	231.00	671	323.00	2606
74.00	5789	153.00	1031	232.00	94	324.00	586
75.00	8498	154.00	845	233.00	75	325.00	30
76.00	1604	155.00	1668	234.00	446	326.00	48
77.00	54136	156.00	2473	235.00	491	327.00	517
78.00	4016	157.00	416	236.00	361	328.00	256
79.00	4635	158.00	615	237.00	577	329.00	28
80.00	3112	159.00	430	238.00	93	332.00	227
81.00	4033	160.00	1004	239.00	275	333.00	191
82.00	832	161.00	1311	240.00	235	334.00	1696

Report Date: 12-Nov-2013 17:44:15 Chrom Revision: 2.1 15-Oct-2013 07:52:24
Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112002b.D\8270HP83.rslt\spectra.d
Injection Date: 12-Nov-2013 17:21:30
Spectrum: Tune Spec: Scans 409-412(5.01-5.02) Bgrd 405(4.99)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 304

m/z	Y	m/z	Y	m/z	Y	m/z	Y
83.00	923	162.00	440	241.00	445	335.00	457
84.00	196	163.00	48	242.00	995	336.00	32
85.00	977	164.00	82	243.00	526	341.00	303
86.00	1265	165.00	1259	244.00	13282	342.00	65
87.00	479	166.00	982	245.00	1964	346.00	470
88.00	223	167.00	5834	246.00	2479	347.00	72
89.00	46	168.00	2384	247.00	503	351.00	33
91.00	1012	169.00	451	248.00	126	352.00	682
92.00	1191	170.00	234	249.00	484	353.00	619
93.00	6861	171.00	272	250.00	132	354.00	869
94.00	469	172.00	615	251.00	96	355.00	188
95.00	121	173.00	668	252.00	123	359.00	29
96.00	336	174.00	1264	253.00	380	365.00	3603
97.00	86	175.00	2079	255.00	68208	366.00	535
98.00	5653	176.00	820	256.00	9873	370.00	28
99.00	3924	177.00	1301	257.00	872	371.00	150
100.00	423	178.00	268	258.00	3861	372.00	1244
101.00	2077	179.00	4125	259.00	644	373.00	330
102.00	152	180.00	2958	260.00	97	374.00	25
103.00	750	181.00	1204	261.00	139	377.00	66
104.00	1531	182.00	269	264.00	85	383.00	256
105.00	1486	183.00	179	265.00	1717	384.00	110
106.00	286	184.00	305	266.00	332	390.00	127
107.00	15853	185.00	2219	267.00	53	391.00	141
108.00	2561	186.00	16688	270.00	102	392.00	70
110.00	29232	187.00	4568	271.00	187	397.00	25
111.00	4794	188.00	448	272.00	247	401.00	40
112.00	577	189.00	1292	273.00	2322	402.00	475
113.00	144	190.00	173	274.00	5864	403.00	678
114.00	46	191.00	561	275.00	33032	404.00	222
115.00	64	192.00	1312	276.00	4400	420.00	42
116.00	483	193.00	1504	277.00	3072	421.00	558
117.00	14106	194.00	353	278.00	435	422.00	556
118.00	1051	196.00	4346	279.00	83	423.00	4037

Report Date: 12-Nov-2013 17:44:15 Chrom Revision: 2.1 15-Oct-2013 07:52:24
Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112002b.D\8270HP83.rslt\spectra.d
Injection Date: 12-Nov-2013 17:21:30
Spectrum: Tune Spec: Scans 409-412(5.01-5.02) Bgrd 405(4.99)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 304

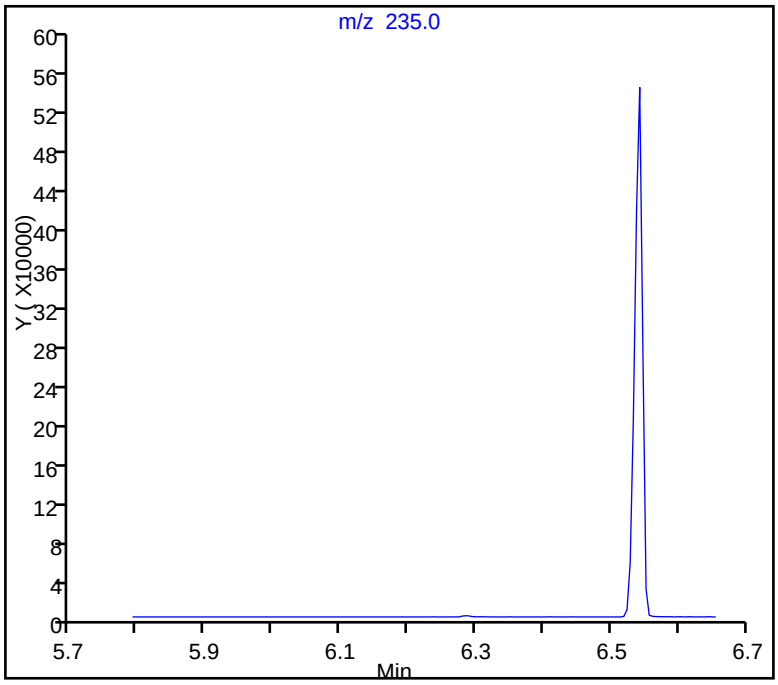
m/z	Y	m/z	Y	m/z	Y	m/z	Y
119.00	118	198.00	116680	281.00	25	424.00	756
120.00	215	199.00	8171	282.00	136	425.00	62
121.00	61	200.00	615	283.00	271	429.00	25
122.00	1303	201.00	814	284.00	153	438.00	68
123.00	1840	202.00	214	285.00	424	439.00	191
124.00	829	203.00	1062	286.00	133	441.00	11507
125.00	680	204.00	4270	289.00	120	442.00	71160
127.00	52864	205.00	7598	290.00	27	443.00	14534
128.00	4507	206.00	31088	291.00	26	444.00	1250

Breakdown Report

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112002b.D
Injection Date: 12-Nov-2013 17:21:30 Instrument ID: HP83
Lims ID: DFTPP Lab Sample ID:
Client ID:
Operator ID: HP83 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: 8270HP83 Limit Group: MSS 8270C ICAL

176 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

176 4,4'-DDT, Area = 433214
174 4,4'-DDE, Area = 0
175 4,4'-DDD, Area = 1085

%Breakdown: 0.25%, Max Limit: 30.00%
Passed

Peak Tailing Report

TestAmerica Nashville

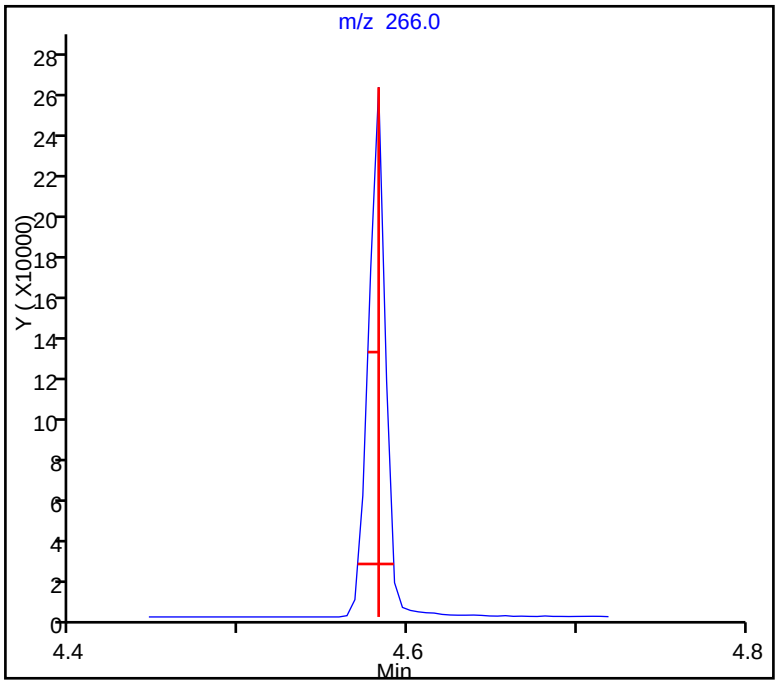
Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112002b.D
Injection Date: 12-Nov-2013 17:21:30 Instrument ID: HP83
Lims ID: DFTPP Lab Sample ID:
Client ID:
Operator ID: HP83 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: 8270HP83 Limit Group: MSS 8270C ICAL

171 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.009 (min.)
Front Width = 0.012 (min.)

Tailing Factor = 0.7, Max. Tailing < 5.00
Passed



Peak Tailing Report

TestAmerica Nashville

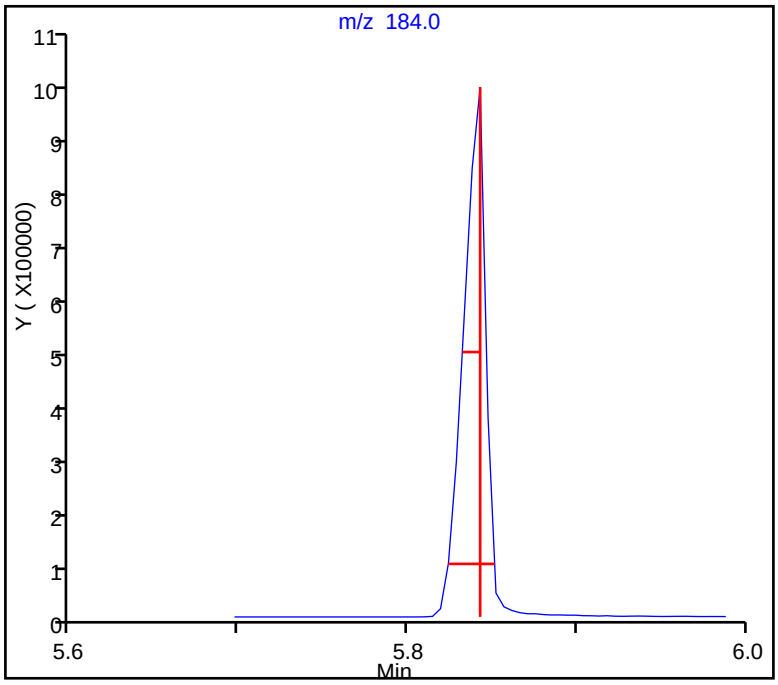
Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112002b.D
Injection Date: 12-Nov-2013 17:21:30 Instrument ID: HP83
Lims ID: DFTPP Lab Sample ID:
Client ID:
Operator ID: HP83 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: 8270HP83 Limit Group: MSS 8270C ICAL

173 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.009 (min.)
Front Width = 0.019 (min.)

Tailing Factor = 0.5, Max. Tailing < 3.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-121117/1-A

Matrix: Water | Lab File ID: 1112004.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:14

Sample wt/vol: 1000(mL) | Date Analyzed: 11/12/2013 18:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		2.00	0.366
208-96-8	Acenaphthylene	ND		2.00	0.330
98-86-2	Acetophenone	ND		10.0	1.90
120-12-7	Anthracene	ND		2.00	0.883
1912-24-9	Atrazine	ND		10.0	3.70
100-52-7	Benzaldehyde	ND		10.0	2.15
56-55-3	Benzo[a]anthracene	ND		2.00	0.324
50-32-8	Benzo[a]pyrene	ND		2.00	0.330
205-99-2	Benzo[b]fluoranthene	ND		2.00	0.422
191-24-2	Benzo[g,h,i]perylene	ND		2.00	0.287
207-08-9	Benzo[k]fluoranthene	ND		2.00	0.364
92-52-4	Biphenyl	ND		10.0	3.33
111-91-1	Bis(2-chloroethoxy)methane	ND		10.0	1.36
111-44-4	Bis(2-chloroethyl)ether	ND		10.0	1.39
108-60-1	bis (2-chloroisopropyl) ether	ND		10.0	1.96
117-81-7	Bis(2-ethylhexyl) phthalate	ND		10.0	2.06
101-55-3	4-Bromophenyl phenyl ether	ND		10.0	1.37
85-68-7	Butyl benzyl phthalate	ND		10.0	1.74
105-60-2	Caprolactam	ND		10.0	3.33
86-74-8	Carbazole	ND		10.0	0.299
106-47-8	4-Chloroaniline	ND		10.0	1.17
59-50-7	4-Chloro-3-methylphenol	ND		10.0	3.33
91-58-7	2-Chloronaphthalene	ND		10.0	1.64
95-57-8	2-Chlorophenol	ND		10.0	1.59
7005-72-3	4-Chlorophenyl phenyl ether	ND		10.0	1.75
218-01-9	Chrysene	ND		2.00	1.09
53-70-3	Dibenz(a,h)anthracene	ND		2.00	0.644
132-64-9	Dibenzofuran	ND		10.0	0.339
91-94-1	3,3'-Dichlorobenzidine	ND		10.0	1.52
120-83-2	2,4-Dichlorophenol	ND		10.0	1.02
84-66-2	Diethyl phthalate	ND		10.0	1.62
105-67-9	2,4-Dimethylphenol	ND		10.0	0.996
131-11-3	Dimethyl phthalate	ND		10.0	1.81
84-74-2	Di-n-butyl phthalate	ND		10.0	1.50

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-121117/1-A

Matrix: Water | Lab File ID: 1112004.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:14

Sample wt/vol: 1000(mL) | Date Analyzed: 11/12/2013 18:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
534-52-1	4,6-Dinitro-2-methylphenol	ND		25.0	2.07
51-28-5	2,4-Dinitrophenol	ND		25.0	2.46
121-14-2	2,4-Dinitrotoluene	ND		10.0	3.33
606-20-2	2,6-Dinitrotoluene	ND		10.0	1.94
117-84-0	Di-n-octyl phthalate	ND		10.0	2.31
206-44-0	Fluoranthene	ND		2.00	0.347
86-73-7	Fluorene	ND		2.00	0.316
118-74-1	Hexachlorobenzene	ND		10.0	1.69
87-68-3	Hexachlorobutadiene	ND		10.0	3.33
77-47-4	Hexachlorocyclopentadiene	ND		10.0	3.33
67-72-1	Hexachloroethane	ND		10.0	3.33
193-39-5	Indeno[1,2,3-cd]pyrene	ND		2.00	0.381
78-59-1	Isophorone	ND		10.0	1.24
91-57-6	2-Methylnaphthalene	ND		2.00	0.311
95-48-7	2-Methylphenol	ND		10.0	3.33
15831-10-4	3 & 4 Methylphenol	ND		10.0	3.33
91-20-3	Naphthalene	ND		2.00	0.398
88-74-4	2-Nitroaniline	ND		25.0	1.04
99-09-2	3-Nitroaniline	ND		25.0	1.85
100-01-6	4-Nitroaniline	ND		25.0	2.39
98-95-3	Nitrobenzene	ND		10.0	1.24
88-75-5	2-Nitrophenol	ND		10.0	1.57
100-02-7	4-Nitrophenol	ND		25.0	3.33
621-64-7	N-Nitrosodi-n-propylamine	ND		10.0	1.42
86-30-6	n-Nitrosodiphenylamine(as diphenylamine)	ND		10.0	1.44
87-86-5	Pentachlorophenol	ND		25.0	1.65
85-01-8	Phenanthrene	ND		2.00	0.343
108-95-2	Phenol	ND		10.0	3.45
129-00-0	Pyrene	ND		2.00	0.331
95-95-4	2,4,5-Trichlorophenol	ND		25.0	2.03
88-06-2	2,4,6-Trichlorophenol	ND		10.0	1.76

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-121117/1-A

Matrix: Water | Lab File ID: 1112004.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:14

Sample wt/vol: 1000(mL) | Date Analyzed: 11/12/2013 18:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	62		29-120
367-12-4	2-Fluorophenol (Surr)	10		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	66		27-120
4165-62-2	Phenol-d5 (Surr)	18		10-120
1718-51-0	Terphenyl-d14 (Surr)	81		13-120
118-79-6	2,4,6-Tribromophenol (Surr)	16		10-120

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112004.D
Lims ID: MB 490-121117/1-A Lab Sample ID: MB 490-121117/1-A
Client ID:
Sample Type: MB
Inject. Date: 12-Nov-2013 18:12:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: MB 490-121117/1-A
Misc. Info.: 490-0028283-004
Operator ID: HP83 Instrument ID: HP83

Method: \\Nvlchrom\ChromData\HP83\20131112-28283.b\8270HP83.m
Limit Group: MSS 8270C ICAL
Last Update: 13-Nov-2013 08:46:25 Calib Date: 24-Oct-2013 15:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D

Column 1 : Detector MS SCAN
Process Host: XAWRK019

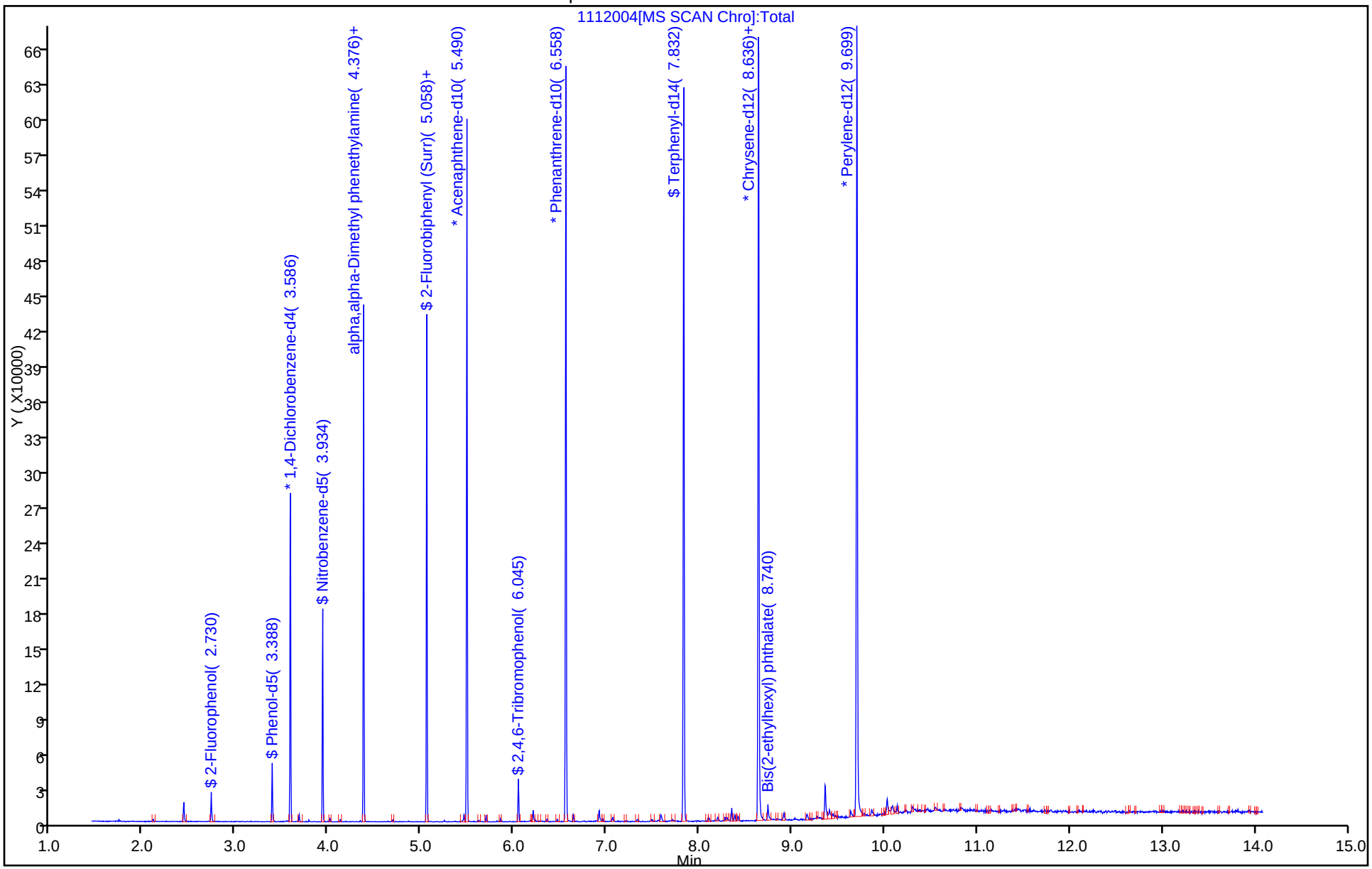
First Level Reviewer: salomonb Date: 13-Nov-2013 11:17:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.586	3.586	0.0	95	31208	40.0	
$ 21 2-Fluorophenol	112	2.730	2.730	0.0	82	4627	5.03	
$ 22 Phenol-d5	99	3.388	3.389	-0.001	0	11285	8.98	
* 37 Naphthalene-d8	136	4.376	4.376	0.0	99	123270	40.0	
$ 49 Nitrobenzene-d5	82	3.934	3.934	0.0	85	37652	32.8	
44 alpha,alpha-Dimethyl phenethylam	58	4.376	4.381	-0.005	11	149	0	
* 69 Acenaphthene-d10	164	5.490	5.490	0.0	93	85321	40.0	
$ 83 2-Fluorobiphenyl (Surr)	172	5.058	5.058	0.0	99	84227	31.1	
* 102 Phenanthrene-d10	188	6.558	6.558	0.0	97	168920	40.0	
$ 127 2,4,6-Tribromophenol	330	6.045	6.050	-0.005	76	3088	8.00	
* 136 Chrysene-d12	240	8.641	8.641	0.0	81	224845	40.0	
$ 147 Terphenyl-d14	244	7.832	7.828	0.004	95	169365	40.5	
155 Bis(2-ethylhexyl) phthalate	149	8.740	8.740	0.0	86	3029	1.02	
* 156 Perylene-d12	264	9.699	9.699	0.0	81	225855	40.0	

Report Date: 13-Nov-2013 11:17:50 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP83\20131112-28283.b\1112004.D				
Injection Date:	12-Nov-2013 18:12:30	Instrument ID:	HP83	Operator ID:	HP83
Lims ID:	MB 490-121117/1-A	Lab Sample ID:	MB 490-121117/1-A	Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8270HP83	Limit Group:	MSS 8270C ICAL		



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-121117/2-A

Matrix: Water | Lab File ID: 1112005.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:14

Sample wt/vol: 1000(mL) | Date Analyzed: 11/12/2013 18:34

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	38.57		2.00	0.366
208-96-8	Acenaphthylene	37.66		2.00	0.330
98-86-2	Acetophenone	34.97		10.0	1.90
120-12-7	Anthracene	39.10		2.00	0.883
1912-24-9	Atrazine	38.51		10.0	3.70
100-52-7	Benzaldehyde	72.54		10.0	2.15
56-55-3	Benzo[a]anthracene	40.15		2.00	0.324
50-32-8	Benzo[a]pyrene	39.50		2.00	0.330
205-99-2	Benzo[b]fluoranthene	37.66		2.00	0.422
191-24-2	Benzo[g,h,i]perylene	39.54		2.00	0.287
207-08-9	Benzo[k]fluoranthene	41.78		2.00	0.364
92-52-4	Biphenyl	34.23		10.0	3.33
111-91-1	Bis(2-chloroethoxy)methane	34.07		10.0	1.36
111-44-4	Bis(2-chloroethyl)ether	33.27		10.0	1.39
108-60-1	bis (2-chloroisopropyl) ether	24.96		10.0	1.96
117-81-7	Bis(2-ethylhexyl) phthalate	42.15		10.0	2.06
101-55-3	4-Bromophenyl phenyl ether	39.47		10.0	1.37
85-68-7	Butyl benzyl phthalate	42.65		10.0	1.74
105-60-2	Caprolactam	11.47		10.0	3.33
86-74-8	Carbazole	39.48		10.0	0.299
106-47-8	4-Chloroaniline	31.54		10.0	1.17
59-50-7	4-Chloro-3-methylphenol	37.43		10.0	3.33
91-58-7	2-Chloronaphthalene	34.66		10.0	1.64
95-57-8	2-Chlorophenol	31.23		10.0	1.59
7005-72-3	4-Chlorophenyl phenyl ether	38.44		10.0	1.75
218-01-9	Chrysene	41.84		2.00	1.09
53-70-3	Dibenz(a,h)anthracene	39.26		2.00	0.644
132-64-9	Dibenzofuran	38.00		10.0	0.339
91-94-1	3,3'-Dichlorobenzidine	33.04		10.0	1.52
120-83-2	2,4-Dichlorophenol	36.86		10.0	1.02
84-66-2	Diethyl phthalate	39.70		10.0	1.62
105-67-9	2,4-Dimethylphenol	28.25		10.0	0.996
131-11-3	Dimethyl phthalate	40.08		10.0	1.81
84-74-2	Di-n-butyl phthalate	40.84		10.0	1.50

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-121117/2-A

Matrix: Water | Lab File ID: 1112005.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:14

Sample wt/vol: 1000(mL) | Date Analyzed: 11/12/2013 18:34

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
534-52-1	4,6-Dinitro-2-methylphenol	80.88		25.0	2.07
51-28-5	2,4-Dinitrophenol	84.66		25.0	2.46
121-14-2	2,4-Dinitrotoluene	41.08		10.0	3.33
606-20-2	2,6-Dinitrotoluene	42.78		10.0	1.94
117-84-0	Di-n-octyl phthalate	43.70		10.0	2.31
206-44-0	Fluoranthene	40.87		2.00	0.347
86-73-7	Fluorene	38.94		2.00	0.316
118-74-1	Hexachlorobenzene	40.13		10.0	1.69
87-68-3	Hexachlorobutadiene	17.45		10.0	3.33
77-47-4	Hexachlorocyclopentadiene	24.86		10.0	3.33
67-72-1	Hexachloroethane	15.45		10.0	3.33
193-39-5	Indeno[1,2,3-cd]pyrene	39.07		2.00	0.381
78-59-1	Isophorone	38.46		10.0	1.24
91-57-6	2-Methylnaphthalene	28.73		2.00	0.311
95-48-7	2-Methylphenol	30.18		10.0	3.33
15831-10-4	3 & 4 Methylphenol	28.46		10.0	3.33
91-20-3	Naphthalene	25.10		2.00	0.398
88-74-4	2-Nitroaniline	43.70		25.0	1.04
99-09-2	3-Nitroaniline	39.98		25.0	1.85
100-01-6	4-Nitroaniline	41.75		25.0	2.39
98-95-3	Nitrobenzene	33.77		10.0	1.24
88-75-5	2-Nitrophenol	35.33		10.0	1.57
100-02-7	4-Nitrophenol	32.71		25.0	3.33
621-64-7	N-Nitrosodi-n-propylamine	36.53		10.0	1.42
86-30-6	n-Nitrosodiphenylamine(as diphenylamine)	48.36		10.0	1.44
87-86-5	Pentachlorophenol	82.42		25.0	1.65
85-01-8	Phenanthrene	39.23		2.00	0.343
108-95-2	Phenol	14.49		10.0	3.45
129-00-0	Pyrene	40.64		2.00	0.331
95-95-4	2,4,5-Trichlorophenol	40.28		25.0	2.03
88-06-2	2,4,6-Trichlorophenol	40.52		10.0	1.76

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39686-2

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-121117/2-A

Matrix: Water | Lab File ID: 1112005.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/12/2013 07:14

Sample wt/vol: 1000(mL) | Date Analyzed: 11/12/2013 18:34

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121257 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	71		29-120
367-12-4	2-Fluorophenol (Surr)	41		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	69		27-120
4165-62-2	Phenol-d5 (Surr)	27		10-120
1718-51-0	Terphenyl-d14 (Surr)	78		13-120
118-79-6	2,4,6-Tribromophenol (Surr)	82		10-120

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP83\20131112-28283.b\1112005.D
Lims ID: LCS 490-121117/2-A Lab Sample ID: LCS 490-121117/2-A
Client ID:
Sample Type: LCS
Inject. Date: 12-Nov-2013 18:34:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: LCS 490-121117/2-A
Misc. Info.: 490-0028283-005
Operator ID: HP83 Instrument ID: HP83

Method: \\Nvlchrom\ChromData\HP83\20131112-28283.b\8270HP83.m
Limit Group: MSS 8270C ICAL
Last Update: 13-Nov-2013 11:18:44 Calib Date: 24-Oct-2013 15:44:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP83\20131024-27300.b\1022008.D

Column 1 : Detector MS SCAN
Process Host: XAWRK019

First Level Reviewer: salomonb Date: 13-Nov-2013 11:18:44

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
*	1 1,4-Dichlorobenzene-d4	152	3.581	3.586	-0.005	97	30801	40.0	
	19 N-Nitrosodimethylamine	74	1.484	1.484	0.0	78	13593	23.5	
	20 Pyridine	52	1.522	1.512	0.010	90	7243	15.4	
$	21 2-Fluorophenol	112	2.730	2.730	0.0	85	18452	20.3	
	3 Benzaldehyde	105	3.299	3.299	0.0	92	27595	72.5	
	23 Aniline	93	3.374	3.374	0.0	94	23286	15.1	
$	22 Phenol-d5	99	3.388	3.389	-0.001	0	16894	13.6	
	24 Phenol	94	3.393	3.398	-0.005	94	19116	14.5	
	25 Bis(2-chloroethyl)ether	93	3.431	3.431	0.0	98	32185	33.3	
	26 2-Chlorophenol	128	3.450	3.454	-0.004	95	32348	31.2	
	6 n-Decane	57	3.511	3.511	-0.023	90	10231	13.7	
	27 1,3-Dichlorobenzene	146	3.544	3.544	0.0	97	20698	17.7	
	28 1,4-Dichlorobenzene	146	3.595	3.595	0.0	81	21020	17.5	
	30 1,2-Dichlorobenzene	146	3.689	3.690	-0.001	90	21747	18.5	
	29 Benzyl alcohol	108	3.685	3.690	-0.005	88	22121	31.1	
	12 Indene	115	3.746	3.746	0.0	71	39262	21.8	
	31 2-Methylphenol	108	3.774	3.774	0.0	95	28954	30.2	
	32 2,2'-oxybis[1-chloropropane]	45	3.774	3.779	-0.005	89	18103	25.0	
	17 Acetophenone	105	3.845	3.845	-0.001	92	54481	35.0	
	33 N-Nitrosodi-n-propylamine	70	3.854	3.859	-0.005	85	32509	36.5	
	35 3 & 4 Methylphenol	108	3.873	3.873	0.0	0	28846	28.5	
	36 Hexachloroethane	117	3.896	3.896	0.0	95	7043	15.5	
*	37 Naphthalene-d8	136	4.376	4.376	0.0	99	132428	40.0	
$	49 Nitrobenzene-d5	82	3.934	3.934	0.0	84	42558	34.5	
	50 Nitrobenzene	77	3.943	3.943	0.0	83	42999	33.8	
	51 Isophorone	82	4.098	4.103	-0.005	97	83619	38.5	
	52 2-Nitrophenol	139	4.145	4.146	-0.001	96	22120	35.3	
	53 2,4-Dimethylphenol	107	4.192	4.193	-0.001	96	34510	28.2	
	54 Bis(2-chloroethoxy)methane	93	4.249	4.249	0.0	98	44001	34.1	
	55 Benzoic acid	105	4.268	4.277	-0.009	84	31159	31.3	
	56 2,4-Dichlorophenol	162	4.301	4.301	0.0	91	38259	36.9	

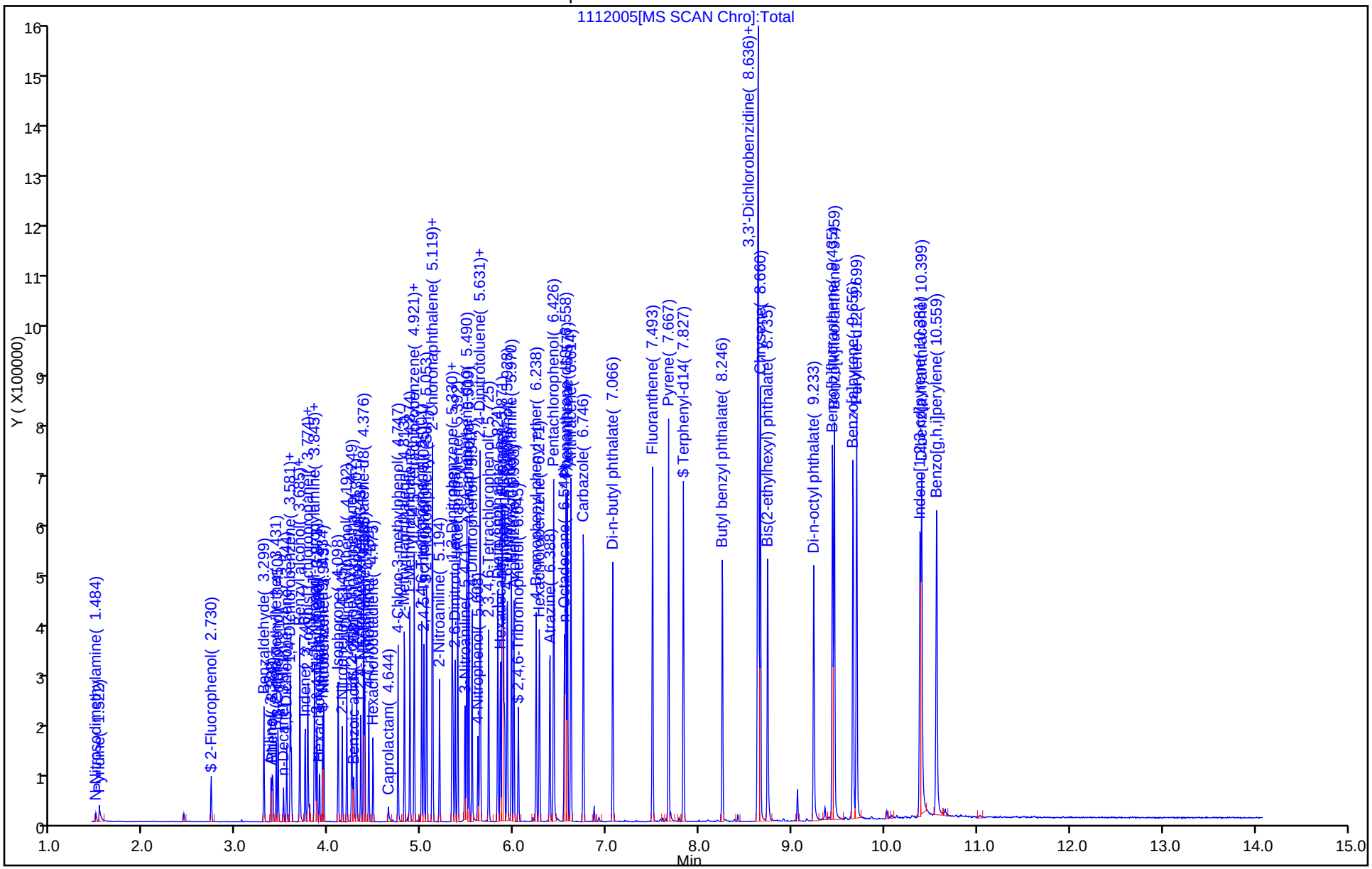
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
57 1,2,4-Trichlorobenzene	180	4.343	4.348	-0.005	90	24554	22.1	
58 Naphthalene	128	4.385	4.390	-0.005	98	81667	25.1	
59 4-Chloroaniline	127	4.432	4.432	0.0	93	44141	31.5	
60 Hexachlorobutadiene	225	4.475	4.480	-0.005	94	12125	17.4	
42 Caprolactam	113	4.644	4.653	-0.009	84	4636	11.5	
61 4-Chloro-3-methylphenol	107	4.747	4.748	-0.001	90	43453	37.4	
62 2-Methylnaphthalene	142	4.813	4.818	-0.005	83	70265	28.7	
64 1-Methylnaphthalene	142	4.874	4.875	0.0	81	68423	30.1	
47 1,2,4,5-Tetrachlorobenzene	216	4.921	4.922	-0.001	97	40069	31.2	
170 1,1'-Biphenyl	154	5.114	5.119	-0.005	96	105131	34.2	
* 69 Acenaphthene-d10	164	5.490	5.490	0.0	92	89607	40.0	
80 Hexachlorocyclopentadiene	237	4.921	4.922	-0.001	68	16040	24.9	
81 2,4,6-Trichlorophenol	196	5.001	5.001	0.0	91	32005	40.5	
82 2,4,5-Trichlorophenol	196	5.025	5.030	-0.005	95	35085	40.3	
$ 83 2-Fluorobiphenyl (Surr)	172	5.058	5.058	0.0	99	100739	35.4	
84 2-Chloronaphthalene	162	5.124	5.124	0.0	97	80905	34.7	
85 2-Nitroaniline	65	5.194	5.194	0.0	82	30672	43.7	
86 Dimethyl phthalate	163	5.330	5.331	-0.001	98	115145	40.1	
76 1,3-Dinitrobenzene	168	5.340	5.340	0.0	88	20558	40.1	
87 2,6-Dinitrotoluene	165	5.363	5.364	-0.001	89	28326	42.8	
88 Acenaphthylene	152	5.392	5.392	0.0	91	138722	37.7	
89 3-Nitroaniline	138	5.471	5.472	-0.001	97	27796	40.0	
90 Acenaphthene	153	5.509	5.514	-0.005	94	96456	38.6	
91 2,4-Dinitrophenol	184	5.547	5.547	0.0	85	42929	84.7	
92 4-Nitrophenol	65	5.608	5.613	-0.005	96	20263	32.7	
94 Dibenzofuran	168	5.631	5.632	-0.001	85	136112	38.0	
93 2,4-Dinitrotoluene	165	5.636	5.636	0.0	76	39035	41.1	
77 2,3,4,6-Tetrachlorophenol	232	5.725	5.726	-0.001	67	33226	40.8	
95 Diethyl phthalate	149	5.824	5.824	0.0	97	113814	39.7	
197 Hexadecane	57	5.852	5.853	-0.001	0	40497	36.5	
96 Fluorene	166	5.871	5.871	0.0	76	116887	38.9	
97 4-Chlorophenyl phenyl ether	204	5.885	5.885	0.0	87	59560	38.4	
98 4-Nitroaniline	138	5.895	5.900	-0.005	78	29585	41.7	
99 Azobenzene	77	5.998	5.998	0.0	97	117349	41.4	
* 102 Phenanthrene-d10	188	6.558	6.558	0.0	95	182106	40.0	
125 4,6-Dinitro-2-methylphenol	198	5.928	5.928	0.0	94	57910	80.9	
126 N-Nitrosodiphenylamine	169	5.970	5.975	-0.005	60	90410	48.4	
$ 127 2,4,6-Tribromophenol	330	6.045	6.050	-0.005	92	17075	41.1	
128 4-Bromophenyl phenyl ether	248	6.238	6.238	0.0	60	38331	39.5	
129 Hexachlorobenzene	284	6.276	6.276	0.0	93	39543	40.1	
168 Atrazine	200	6.388	6.389	-0.001	90	37109	38.5	
130 Pentachlorophenol	266	6.426	6.431	-0.005	90	59215	82.4	
115 n-Octadecane	57	6.544	6.544	-0.023	91	46145	38.2	
131 Phenanthrene	178	6.577	6.577	-0.001	96	183014	39.2	
132 Anthracene	178	6.614	6.614	0.0	97	184986	39.1	
133 Carbazole	167	6.746	6.751	-0.005	83	179110	39.5	
134 Di-n-butyl phthalate	149	7.066	7.066	0.0	100	203652	40.8	
135 Fluoranthene	202	7.493	7.498	-0.005	98	229609	40.9	
* 136 Chrysene-d12	240	8.641	8.641	0.0	80	248070	40.0	
152 Pyrene	202	7.667	7.668	-0.001	97	235781	40.6	
$ 147 Terphenyl-d14	244	7.827	7.828	-0.001	96	179244	38.8	
149 Butyl benzyl phthalate	149	8.246	8.251	-0.005	97	100278	42.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
153 Benzo[a]anthracene	228	8.631	8.632	-0.001	99	252641	40.1	
151 3,3'-Dichlorobenzidine	252	8.636	8.636	0.0	67	70869	33.0	
154 Chrysene	228	8.660	8.660	0.0	90	246547	41.8	
155 Bis(2-ethylhexyl) phthalate	149	8.735	8.740	-0.005	96	138704	42.2	
* 156 Perylene-d12	264	9.699	9.699	0.0	87	251528	40.0	
158 Di-n-octyl phthalate	149	9.233	9.238	-0.005	99	246572	43.7	
159 Benzo[b]fluoranthene	252	9.435	9.440	-0.005	91	250309	37.7	
160 Benzo[k]fluoranthene	252	9.459	9.459	0.0	99	299806	41.8	
161 Benzo[a]pyrene	252	9.656	9.661	-0.005	76	246515	39.5	
162 Indeno[1,2,3-cd]pyrene	276	10.381	10.386	-0.005	95	288414	39.1	
163 Dibenz(a,h)anthracene	278	10.399	10.404	-0.005	88	242546	39.3	
164 Benzo[g,h,i]perylene	276	10.564	10.569	-0.005	94	251271	39.5	

Report Date: 13-Nov-2013 11:18:44 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP83\20131112-28283.b\1112005.D				
Injection Date:	12-Nov-2013 18:34:30	Instrument ID:	HP83	Operator ID:	HP83
Lims ID:	LCS 490-121117/2-A	Lab Sample ID:	LCS 490-121117/2-A	Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8270HP83	Limit Group:	MSS 8270C ICAL		



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Instrument ID: HP83 Start Date: 10/24/2013 13:34

Analysis Batch Number: 116774 End Date: 10/24/2013 22:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 490-116774/2		10/24/2013 13:34	1	1022002.D	ZB-5MSi 0.25(mm)
STD1 490-116774/3 IC		10/24/2013 13:51	1	1022003.D	ZB-5MSi 0.25(mm)
STD2 490-116774/4 IC		10/24/2013 14:14	1	1022004.D	ZB-5MSi 0.25(mm)
STD3 490-116774/5 IC		10/24/2013 14:36	1	1022005.D	ZB-5MSi 0.25(mm)
ICIS 490-116774/6		10/24/2013 14:59	1	1022006.D	ZB-5MSi 0.25(mm)
STD5 490-116774/7 IC		10/24/2013 15:21	1	1022007.D	ZB-5MSi 0.25(mm)
STD6 490-116774/8 IC		10/24/2013 15:44	1	1022008.D	ZB-5MSi 0.25(mm)
ICV 490-116774/9		10/24/2013 16:06	1	1022009.D	ZB-5MSi 0.25(mm)
ICB 490-116774/10		10/24/2013 16:29	1		ZB-5MSi 0.25(mm)
ZZZZZ		10/24/2013 20:13	1		ZB-5MSi 0.25(mm)
ZZZZZ		10/24/2013 20:35	1		ZB-5MSi 0.25(mm)
ZZZZZ		10/24/2013 20:57	1		ZB-5MSi 0.25(mm)
ZZZZZ		10/24/2013 21:20	1		ZB-5MSi 0.25(mm)
ZZZZZ		10/24/2013 21:42	1		ZB-5MSi 0.25(mm)
ZZZZZ		10/24/2013 22:04	1		ZB-5MSi 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Instrument ID: HP83 Start Date: 11/12/2013 17:21

Analysis Batch Number: 121257 End Date: 11/13/2013 03:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 490-121257/2		11/12/2013 17:21	1	1112002b.D	ZB-5MSi 0.25(mm)
CCVIS 490-121257/3		11/12/2013 17:37	1	1112003b.D	ZB-5MSi 0.25(mm)
MB 490-121117/1-A		11/12/2013 18:12	1	1112004.D	ZB-5MSi 0.25(mm)
LCS 490-121117/2-A		11/12/2013 18:34	1	1112005.D	ZB-5MSi 0.25(mm)
ZZZZZ		11/12/2013 18:56	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/12/2013 19:19	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/12/2013 19:41	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/12/2013 20:03	1		ZB-5MSi 0.25(mm)
490-39686-1	MW-04B-GW-001	11/12/2013 20:25	1	1112010.D	ZB-5MSi 0.25(mm)
490-39686-2	MW-04B-GW-002	11/12/2013 20:47	1	1112011.D	ZB-5MSi 0.25(mm)
490-39686-3	MW-08-GW-001	11/12/2013 21:10	1	1112012.D	ZB-5MSi 0.25(mm)
490-39686-5	MW-09-GW-001	11/12/2013 21:32	1	1112013.D	ZB-5MSi 0.25(mm)
ZZZZZ		11/12/2013 21:54	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/12/2013 22:15	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/12/2013 22:38	5		ZB-5MSi 0.25(mm)
ZZZZZ		11/12/2013 23:00	5		ZB-5MSi 0.25(mm)
ZZZZZ		11/12/2013 23:22	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/12/2013 23:43	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/13/2013 00:05	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/13/2013 00:28	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/13/2013 01:12	2		ZB-5MSi 0.25(mm)
ZZZZZ		11/13/2013 01:34	2		ZB-5MSi 0.25(mm)
ZZZZZ		11/13/2013 01:56	2		ZB-5MSi 0.25(mm)
ZZZZZ		11/13/2013 02:18	2		ZB-5MSi 0.25(mm)
ZZZZZ		11/13/2013 02:41	2		ZB-5MSi 0.25(mm)
ZZZZZ		11/13/2013 03:03	2		ZB-5MSi 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Nashville Job No.: 490-39686-2

SDG No.:

Batch Number: 121117 Batch Start Date: 11/12/13 07:14 Batch Analyst: Rognstad, Laurel

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	InitialAmount	FinalAmount	FirstAdjustpH	SecondAdjustpH	BNA ICV_MIX1 00009
MB 490-121117/1		3510C, 8270C		7	1000 mL	1 mL	2	14	
LCS 490-121117/2		3510C, 8270C		7	1000 mL	1 mL	2	14	0.5 mL
490-39686-U-1	MW-04B-GW-001	3510C, 8270C	T	7	1060 mL	1 mL	2	14	
490-39686-U-2	MW-04B-GW-002	3510C, 8270C	T	7	1060 mL	1 mL	2	14	
490-39686-V-3	MW-08-GW-001	3510C, 8270C	T	7	1060 mL	1 mL	2	14	
490-39686-V-5	MW-09-GW-001	3510C, 8270C	T	7	1060 mL	1 mL	2	14	

Lab Sample ID	Client Sample ID	Method Chain	Basis	OP_1:1 Sulfur 00003	OP_BNA_Surr 00011	OP_MeCl2 00019	OP_NaOH 00006	OP_NaSO4 00016	
MB 490-121117/1		3510C, 8270C		3 mL	1 mL	360 mL	15 mL	25 g	
LCS 490-121117/2		3510C, 8270C		3 mL	1 mL	360 mL	15 mL	25 g	
490-39686-U-1	MW-04B-GW-001	3510C, 8270C	T	3 mL	1 mL	360 mL	15 mL	25 g	
490-39686-U-2	MW-04B-GW-002	3510C, 8270C	T	3 mL	1 mL	360 mL	15 mL	25 g	
490-39686-V-3	MW-08-GW-001	3510C, 8270C	T	3 mL	1 mL	360 mL	15 mL	25 g	
490-39686-V-5	MW-09-GW-001	3510C, 8270C	T	3 mL	1 mL	360 mL	15 mL	25 g	

Batch Notes	
Person's name who did the concentration	LSR MWT
Final Concentrator Volume	1 mL
Person's name who did the prep	LSR
Person's name who witnessed reagent drop	RCH

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-39686 Chain of Custody

Cooler Received/Opened On 11/7/2013 @ 0830

1. Tracking # 1709 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 1.9 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO. (NA)

4. Were custody seals on outside of cooler? (YES)..NO...NA

If yes, how many and where: (2) front

5. Were the seals intact, signed, and dated correctly? (YES)..NO...NA

6. Were custody papers inside cooler? (YES)..NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) mDm

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) (Plastic bag) Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)..NO...NA

12. Did all container labels and tags agree with custody papers? (YES)..NO...NA

13a. Were VOA vials received? (YES)..NO...NA

b. Was there any observable headspace present in any VOA vial? YES..(NO)..NA

14. Was there a Trip Blank in this cooler? (YES)..NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) DA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? (YES)..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used (YES)..NO...NA

16. Was residual chlorine present? YES..(NO)..NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) DA

17. Were custody papers properly filled out (ink, signed, etc)? (YES)..NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)..NO...NA

19. Were correct containers used for the analysis requested? (YES)..NO...NA

20. Was sufficient amount of sample sent in each container? (YES)..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) DA

I certify that I attached a label with the unique LIMS number to each container (intial) DA

21. Were there Non-Conformance issues at login? YES..(NO) Was a NCM generated? YES..(NO)..#_____

BIS = Broken in shipment

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

Loc: 490
39686

COOLER RECEIPT FORM

Cooler Received/Opened On 11/7/2013 @ 0830

1. Tracking # 1694 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 3.1 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? (YES)..NO...NA

If yes, how many and where: (2) Front

5. Were the seals intact, signed, and dated correctly? (YES)..NO...NA

6. Were custody papers inside cooler? YES...(NO)..NA

I certify that I opened the cooler and answered questions 1-6 (intial) MBM

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) (Plastic bag) Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)..NO...NA

13a. Were VOA vials received? (YES)..NO...NA

b. Was there any observable headspace present in any VOA vial? YES..(NO)..NA

14. Was there a Trip Blank in this cooler? (YES)..NO..NA If multiple coolers, sequence #_____ DA 11-7-13

I certify that I unloaded the cooler and answered questions 7-14 (intial) DA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? (YES)..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used (YES)...NO...NA

16. Was residual chlorine present? YES..(NO)..NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) DA

17. Were custody papers properly filled out (ink, signed, etc)? (YES)..NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)..NO...NA

19. Were correct containers used for the analysis requested? (YES)..NO...NA

20. Was sufficient amount of sample sent in each container? (YES)..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) DA

I certify that I attached a label with the unique LIMS number to each container (intial) DA

21. Were there Non-Conformance issues at login? YES..(NO) Was a NCM generated? YES..(NO)..#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 11/28/12

2 coolers

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Loc: 490
39686

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

11/21/2013

Client Information	Sampler: John Knightly	Lab PM: Connor, Roxanne	Carrier Tracking No(s): FedEx 5712-0302-1694 5712-0302-1709	COC No: 490-16687-6964.1
Client Contact: Mariruth Gruis	Phone: 913-522-8370	E-Mail: roxanne.connor@testamericainc.com		Page: Page 1 of 7
Company: Haley & Aldrich, Inc.				Job #:
Address: 11020 King Street Suite 450	Due Date Requested:			
City: Overland Park	TAT Requested (days): Normal			
State, Zip: KS, 66210				
Phone: 913-636-3497(Tel)	PO #: Purchase Order Requested			
Email: mgruis@haleyaldrich.com	WO #:			
Project Name: Leeds Facility	Project #: 49003847			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B TCL	8270C TCL Semivolatiles List	Cr+6, SO4, Cl, NO3, NO2, CO2	6020A TCL metals + 7470A Hg	RSK_175 - Methane, Ethane, Ethylene	9060A TOC and DOC	9034 - Sulfide	9012B - Cyanide, Total	8015C_DAI_GLY - Ethylene Glycol	8082A - Standard PCBs (1016-1260)	1010A Flashpoint and 9040C pH	6020A Diss Mn (lab filtered)	6020A Fe & Mn	Total Number of containers	Special Instructions/Note:
				Preservation Code:																		
1	MW-04B-GW-001	11/6/13	1542	G	Water			X	X	X	X	X	X	X	X	X	X		X	X		CR+6
2	MW-04B-GW-002	11/6/13	1542	G	Water			X	X	X	X	X	X	X	X	X	X		X	X		CR+6
3	MW-08-GW-001 dup	11/6/13	1108	G	Water			X	X	X	X	X	X	X	X	X	X		X	X		
4	MW-08-GW-001	11/6/13	1631	G	Water					X												Cr+6
5	MW-09-GW-001	11/6/13	1326	G	Water			X	X	X	X	X	X	X	X	X	X		X	X		
6	MW-09-GW-001	11/6/13	1624	G	Water					X												Cr+6
					Water																	
7	Trip Blank	—	—	—	Water			X														
					Water																	
					Water																	
					Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	John Knightly	11/6/13 1930			11-7-13 0830	TAN
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 1.9, 3.1

Page 431 of 432

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 490-39686-2

Login Number: 39686

List Source: TestAmerica Nashville

List Number: 1

Creator: Armstrong, Daniel

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.9C, 3.1C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-39686-1
Client Project/Site: Former Leeds Assembly Plant

For:
Haley & Aldrich, Inc.
11020 King Street
Suite 450
Overland Park, Kansas 66210

Attn: Mariruth Gruis

Roxanne L Connor

Authorized for release by:
11/21/2013 3:39:41 PM

Roxanne Connor, Senior Project Manager
(615)301-5761
roxanne.connor@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39686-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-39686-1	MW-04B-GW-001	Water	11/06/13 15:42	11/07/13 08:30
490-39686-2	MW-04B-GW-002	Water	11/06/13 15:42	11/07/13 08:30
490-39686-3	MW-08-GW-001	Water	11/06/13 11:08	11/07/13 08:30
490-39686-4	MW-08-GW-001	Water	11/06/13 16:31	11/07/13 08:30
490-39686-5	MW-09-GW-001	Water	11/06/13 13:26	11/07/13 08:30
490-39686-6	MW-09-GW-001	Water	11/06/13 16:24	11/07/13 08:30

Job ID: 490-39686-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-39686-1

Comments
No additional comments.

Receipt
The samples were received on 11/7/2013 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.9º C and 3.1º C.

HPLC
Method(s) 9056A: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 120261 recovered outside control limits for the following analyte: Nitrite.

No other analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Metals
Method(s) 6020A: The following sample(s) was diluted to bring the concentration of Manganese within the calibration range: MW-04B-GW-001 (490-39686-1), MW-04B-GW-002 (490-39686-2), MW-08-GW-001 (490-39686-3), MW-09-GW-001 (490-39686-5). Elevated reporting limits (RLs) are provided.

Method(s) 6020A: The method blank for batch 490-120922 contained Chromium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 6020A: Manganese was detected in the following sample(s) above the instrument calibration range: (490-39686-1 PDS).

Method(s) 6020A: The following sample(s) was diluted to bring the concentration of Manganese within the calibration range: MW-04B-GW-001 (490-39686-1), MW-04B-GW-002 (490-39686-2), MW-08-GW-001 (490-39686-3), MW-09-GW-001 (490-39686-5). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

General Chemistry
Method(s) 7196A: Batch 120423 is reported without a matrix spike/matrix spike duplicate (MS/MSD). The batch MS/MSD was originally performed on another client's sample, and this test was cancelled at client request. This MS/MSD result does not have immediate bearing on any samples except for the actual sample spiked. The associated laboratory control sample (LCS) met acceptance criteria and provides long-term precision and accuracy for this batch.

Method(s) 7196A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 120423 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 9012B: The matrix spike / matrix spike duplicate (MS/MSD) percent recoveries and %RPD for batch 122811 were outside control limits.

Method(s) 9034: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 121411 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Qualifiers

GC VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

HPLC/IC

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
*	RPD of the LCS and LCSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
B	Compound was found in the blank and sample.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
HF	Field parameter with a holding time of 15 minutes
F	MS/MSD Recovery and/or RPD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39686-1

Client Sample ID: MW-04B-GW-001
Date Collected: 11/06/13 15:42
Date Received: 11/07/13 08:30

Lab Sample ID: 490-39686-1
Matrix: Water

Method: 8015C - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND		10.0	0.500	mg/L			11/15/13 04:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-butyl alcohol (Surr)	*92*		*70 - 130*		*11/15/13 04:23*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		0.00500	0.00250	mg/L			11/15/13 15:02	1
Ethylene	**0.00411**	**J**	0.00500	0.00250	mg/L			11/15/13 15:02	1
Methane	**0.585**		0.0100	0.00500	mg/L			11/15/13 15:04	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetylene (Surr)	*85*		*62 - 124*		*11/15/13 15:02*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.391	0.336	ug/L		11/13/13 09:20	11/14/13 17:17	1
PCB-1221	ND		0.391	0.266	ug/L		11/13/13 09:20	11/14/13 17:17	1
PCB-1232	ND		0.391	0.313	ug/L		11/13/13 09:20	11/14/13 17:17	1
PCB-1242	ND		0.391	0.172	ug/L		11/13/13 09:20	11/14/13 17:17	1
PCB-1248	ND		0.391	0.117	ug/L		11/13/13 09:20	11/14/13 17:17	1
PCB-1254	ND		0.391	0.133	ug/L		11/13/13 09:20	11/14/13 17:17	1
PCB-1260	ND		0.391	0.141	ug/L		11/13/13 09:20	11/14/13 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*53*		*10 - 150*	*11/13/13 09:20*	*11/14/13 17:17*	*1*
Tetrachloro-m-xylene	*51*		*10 - 150*	*11/13/13 09:20*	*11/14/13 17:17*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.5**		1.00	0.700	mg/L			11/07/13 16:35	1
Nitrite as N	ND	*	0.100	0.0500	mg/L			11/07/13 16:35	1
Nitrate as N	ND		0.100	0.0600	mg/L			11/07/13 16:35	1
Sulfate	ND		1.00	0.600	mg/L			11/07/13 16:35	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 15:41	1
Arsenic	**0.200**		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 15:41	1
Barium	**0.433**		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 15:41	1
Beryllium	ND		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 15:41	1
Cadmium	ND		0.00100	0.000400	mg/L		11/11/13 08:46	11/11/13 15:41	1
Chromium (coarse particulate matter)	ND		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 15:41	1
Cobalt	**0.000652**	**J**	0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 15:41	1
Copper	ND		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 15:41	1
Iron	**19.2**		0.0250	0.0100	mg/L		11/11/13 08:46	11/11/13 15:41	1
Lead	**0.000367**	**J**	0.00200	0.000200	mg/L		11/11/13 08:46	11/11/13 15:41	1
Manganese	**2.78**		0.0100	0.00500	mg/L		11/11/13 08:46	11/11/13 17:56	5
Nickel	**0.000953**	**J**	0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 15:41	1
Selenium	ND		0.00200	0.000600	mg/L		11/11/13 08:46	11/11/13 15:41	1
Silver	ND		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 15:41	1

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39686-1

Client Sample ID: MW-04B-GW-001
Date Collected: 11/06/13 15:42
Date Received: 11/07/13 08:30

Lab Sample ID: 490-39686-1
Matrix: Water

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.00200	0.000200	mg/L		11/11/13 08:46	11/11/13 15:41	1
Vanadium	**0.000236**	**J**	0.00200	0.000100	mg/L		11/11/13 08:46	11/11/13 15:41	1
Zinc	ND		0.0250	0.0100	mg/L		11/11/13 08:46	11/11/13 15:41	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**2.73**		0.0200	0.0100	mg/L		11/19/13 09:34	11/20/13 19:46	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	0.000150	mg/L		11/20/13 08:03	11/21/13 08:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	**0.00800**	**J**	0.0100	0.00500	mg/L			11/07/13 11:14	1
Cyanide, Total	ND		0.0100	0.00300	mg/L		11/16/13 15:50	11/18/13 12:58	1
Sulfide	ND		5.00	0.700	mg/L		11/12/13 13:50	11/12/13 15:56	1
Total Organic Carbon	**2.44**		1.00	0.500	mg/L			11/13/13 09:48	1
Carbon Dioxide, Free	**25.9**	**HF**	20.0	10.0	mg/L			11/08/13 14:09	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	**2.26**		1.00	0.500	mg/L			11/15/13 16:31	1

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39686-1

Client Sample ID: MW-04B-GW-002
Date Collected: 11/06/13 15:42
Date Received: 11/07/13 08:30

Lab Sample ID: 490-39686-2
Matrix: Water

Method: 8015C - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND		10.0	0.500	mg/L			11/15/13 04:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-butyl alcohol (Surr)	*84*		*70 - 130*		*11/15/13 04:43*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		0.00500	0.00250	mg/L			11/15/13 15:09	1
Ethylene	**0.00728**		0.00500	0.00250	mg/L			11/15/13 15:09	1
Methane	**0.720**		0.0100	0.00500	mg/L			11/15/13 15:12	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetylene (Surr)	*87*		*62 - 124*		*11/15/13 15:09*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.391	0.336	ug/L		11/13/13 09:20	11/14/13 17:30	1
PCB-1221	ND		0.391	0.266	ug/L		11/13/13 09:20	11/14/13 17:30	1
PCB-1232	ND		0.391	0.313	ug/L		11/13/13 09:20	11/14/13 17:30	1
PCB-1242	ND		0.391	0.172	ug/L		11/13/13 09:20	11/14/13 17:30	1
PCB-1248	ND		0.391	0.117	ug/L		11/13/13 09:20	11/14/13 17:30	1
PCB-1254	ND		0.391	0.133	ug/L		11/13/13 09:20	11/14/13 17:30	1
PCB-1260	ND		0.391	0.141	ug/L		11/13/13 09:20	11/14/13 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*39*		*10 - 150*	*11/13/13 09:20*	*11/14/13 17:30*	*1*
Tetrachloro-m-xylene	*41*		*10 - 150*	*11/13/13 09:20*	*11/14/13 17:30*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.8**		1.00	0.700	mg/L			11/07/13 16:55	1
Nitrite as N	ND	*	0.100	0.0500	mg/L			11/07/13 16:55	1
Nitrate as N	ND		0.100	0.0600	mg/L			11/07/13 16:55	1
Sulfate	ND		1.00	0.600	mg/L			11/07/13 16:55	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 15:55	1
Arsenic	**0.192**		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 15:55	1
Barium	**0.421**		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 15:55	1
Beryllium	ND		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 15:55	1
Cadmium	ND		0.00100	0.000400	mg/L		11/11/13 08:46	11/11/13 15:55	1
Chromium (coarse particulate matter)	**0.000879**	**J B**	0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 15:55	1
Cobalt	**0.000775**	**J**	0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 15:55	1
Copper	**0.00140**	**J**	0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 15:55	1
Iron	**19.0**		0.0250	0.0100	mg/L		11/11/13 08:46	11/11/13 15:55	1
Lead	**0.000550**	**J**	0.00200	0.000200	mg/L		11/11/13 08:46	11/11/13 15:55	1
Manganese	**2.69**		0.0100	0.00500	mg/L		11/11/13 08:46	11/11/13 18:00	5
Nickel	**0.00172**	**J**	0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 15:55	1
Selenium	ND		0.00200	0.000600	mg/L		11/11/13 08:46	11/11/13 15:55	1

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39686-1

Client Sample ID: MW-04B-GW-002
Date Collected: 11/06/13 15:42
Date Received: 11/07/13 08:30

Lab Sample ID: 490-39686-2
Matrix: Water

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 15:55	1
Thallium	ND		0.00200	0.000200	mg/L		11/11/13 08:46	11/11/13 15:55	1
Vanadium	**0.000890**	**J**	0.00200	0.000100	mg/L		11/11/13 08:46	11/11/13 15:55	1
Zinc	ND		0.0250	0.0100	mg/L		11/11/13 08:46	11/11/13 15:55	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**2.83**		0.0200	0.0100	mg/L		11/19/13 09:34	11/20/13 19:50	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	0.000150	mg/L		11/20/13 08:03	11/21/13 08:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	**0.00500**	**J**	0.0100	0.00500	mg/L			11/07/13 11:21	1
Cyanide, Total	ND		0.0100	0.00300	mg/L		11/16/13 15:50	11/18/13 13:00	1
Sulfide	ND		5.00	0.700	mg/L		11/12/13 13:50	11/12/13 15:56	1
Total Organic Carbon	**2.46**		1.00	0.500	mg/L			11/13/13 09:48	1
Carbon Dioxide, Free	**31.8**	**HF**	20.0	10.0	mg/L			11/08/13 14:13	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	**2.27**		1.00	0.500	mg/L			11/15/13 16:31	1

Client Sample ID: MW-08-GW-001
Date Collected: 11/06/13 11:08
Date Received: 11/07/13 08:30

Lab Sample ID: 490-39686-3
Matrix: Water

Method: 8015C - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND		10.0	0.500	mg/L			11/15/13 22:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-butyl alcohol (Surr)	*72*		*70 - 130*		*11/15/13 22:35*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		0.00500	0.00250	mg/L			11/15/13 15:14	1
Ethylene	ND		0.00500	0.00250	mg/L			11/15/13 15:14	1
Methane	**0.0105**		0.00500	0.00250	mg/L			11/15/13 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetylene (Surr)	*81*		*62 - 124*		*11/15/13 15:14*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.391	0.336	ug/L		11/13/13 09:20	11/14/13 17:43	1
PCB-1221	ND		0.391	0.266	ug/L		11/13/13 09:20	11/14/13 17:43	1
PCB-1232	ND		0.391	0.313	ug/L		11/13/13 09:20	11/14/13 17:43	1
PCB-1242	ND		0.391	0.172	ug/L		11/13/13 09:20	11/14/13 17:43	1
PCB-1248	ND		0.391	0.117	ug/L		11/13/13 09:20	11/14/13 17:43	1
PCB-1254	ND		0.391	0.133	ug/L		11/13/13 09:20	11/14/13 17:43	1
PCB-1260	ND		0.391	0.141	ug/L		11/13/13 09:20	11/14/13 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*66*		*10 - 150*	*11/13/13 09:20*	*11/14/13 17:43*	*1*
Tetrachloro-m-xylene	*43*		*10 - 150*	*11/13/13 09:20*	*11/14/13 17:43*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**62.1**		1.00	0.700	mg/L			11/07/13 17:15	1
Nitrite as N	ND	*	0.100	0.0500	mg/L			11/07/13 17:15	1
Nitrate as N	ND		0.100	0.0600	mg/L			11/07/13 17:15	1
Sulfate	**30.2**		1.00	0.600	mg/L			11/07/13 17:15	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 16:00	1
Arsenic	**0.00218**		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 16:00	1
Barium	**0.368**		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 16:00	1
Beryllium	ND		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 16:00	1
Cadmium	**0.000670**	**J**	0.00100	0.000400	mg/L		11/11/13 08:46	11/11/13 16:00	1
Chromium (coarse particulate matter)	ND		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 16:00	1
Cobalt	**0.00178**	**J**	0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 16:00	1
Copper	**0.000556**	**J**	0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 16:00	1
Iron	**0.170**		0.0250	0.0100	mg/L		11/11/13 08:46	11/11/13 16:00	1
Lead	ND		0.00200	0.000200	mg/L		11/11/13 08:46	11/11/13 16:00	1
Manganese	**6.98**		0.0200	0.0100	mg/L		11/11/13 08:46	11/11/13 18:05	10
Nickel	**0.0251**		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 16:00	1
Selenium	ND		0.00200	0.000600	mg/L		11/11/13 08:46	11/11/13 16:00	1
Silver	ND		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 16:00	1

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39686-1

Client Sample ID: MW-08-GW-001
Date Collected: 11/06/13 11:08
Date Received: 11/07/13 08:30

Lab Sample ID: 490-39686-3
Matrix: Water

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.00200	0.000200	mg/L		11/11/13 08:46	11/11/13 16:00	1
Vanadium	**0.00304**		0.00200	0.000100	mg/L		11/11/13 08:46	11/11/13 16:00	1
Zinc	ND		0.0250	0.0100	mg/L		11/11/13 08:46	11/11/13 16:00	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**6.45**		0.0200	0.0100	mg/L		11/19/13 09:34	11/20/13 19:55	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	0.000150	mg/L		11/20/13 08:03	11/21/13 08:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.0100	0.00300	mg/L		11/16/13 15:50	11/18/13 13:01	1
Sulfide	ND		5.00	0.700	mg/L		11/12/13 13:50	11/12/13 15:56	1
Total Organic Carbon	**2.36**		1.00	0.500	mg/L			11/13/13 09:48	1
Carbon Dioxide, Free	**101**	**HF**	20.0	10.0	mg/L			11/08/13 14:19	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	**2.94**		1.00	0.500	mg/L			11/15/13 16:31	1

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39686-1

Client Sample ID: MW-08-GW-001
Date Collected: 11/06/13 16:31
Date Received: 11/07/13 08:30

Lab Sample ID: 490-39686-4
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	ND		0.0100	0.00500	mg/L			11/07/13 11:26	1

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39686-1

Client Sample ID: MW-09-GW-001
Date Collected: 11/06/13 13:26
Date Received: 11/07/13 08:30

Lab Sample ID: 490-39686-5
Matrix: Water

Method: 8015C - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND		10.0	0.500	mg/L			11/15/13 22:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-butyl alcohol (Surr)	*73*		*70 - 130*		*11/15/13 22:54*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		0.00500	0.00250	mg/L			11/15/13 15:26	1
Ethylene	**0.00329**	**J**	0.00500	0.00250	mg/L			11/15/13 15:26	1
Methane	**0.00529**		0.00500	0.00250	mg/L			11/15/13 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetylene (Surr)	*80*		*62 - 124*		*11/15/13 15:26*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.391	0.336	ug/L		11/13/13 09:20	11/14/13 17:56	1
PCB-1221	ND		0.391	0.266	ug/L		11/13/13 09:20	11/14/13 17:56	1
PCB-1232	ND		0.391	0.313	ug/L		11/13/13 09:20	11/14/13 17:56	1
PCB-1242	ND		0.391	0.172	ug/L		11/13/13 09:20	11/14/13 17:56	1
PCB-1248	ND		0.391	0.117	ug/L		11/13/13 09:20	11/14/13 17:56	1
PCB-1254	ND		0.391	0.133	ug/L		11/13/13 09:20	11/14/13 17:56	1
PCB-1260	ND		0.391	0.141	ug/L		11/13/13 09:20	11/14/13 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*61*		*10 - 150*	*11/13/13 09:20*	*11/14/13 17:56*	*1*
Tetrachloro-m-xylene	*37*		*10 - 150*	*11/13/13 09:20*	*11/14/13 17:56*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**38.6**		1.00	0.700	mg/L			11/07/13 17:35	1
Nitrite as N	ND	*	0.100	0.0500	mg/L			11/07/13 17:35	1
Nitrate as N	ND		0.100	0.0600	mg/L			11/07/13 17:35	1
Sulfate	**133**		5.00	3.00	mg/L			11/15/13 04:57	5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 16:05	1
Arsenic	**0.00304**		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 16:05	1
Barium	**0.0853**		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 16:05	1
Beryllium	ND		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 16:05	1
Cadmium	ND		0.00100	0.000400	mg/L		11/11/13 08:46	11/11/13 16:05	1
Chromium (coarse particulate matter)	ND		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 16:05	1
Cobalt	**0.00793**		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 16:05	1
Copper	ND		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 16:05	1
Iron	**0.838**		0.0250	0.0100	mg/L		11/11/13 08:46	11/11/13 16:05	1
Lead	ND		0.00200	0.000200	mg/L		11/11/13 08:46	11/11/13 16:05	1
Manganese	**10.5**		0.0400	0.0200	mg/L		11/11/13 08:46	11/11/13 18:10	20
Nickel	**0.0201**		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 16:05	1
Selenium	ND		0.00200	0.000600	mg/L		11/11/13 08:46	11/11/13 16:05	1
Silver	ND		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 16:05	1

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39686-1

Client Sample ID: MW-09-GW-001
Date Collected: 11/06/13 13:26
Date Received: 11/07/13 08:30

Lab Sample ID: 490-39686-5
Matrix: Water

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.00200	0.000200	mg/L		11/11/13 08:46	11/11/13 16:05	1
Vanadium	**0.000386**	**J**	0.00200	0.000100	mg/L		11/11/13 08:46	11/11/13 16:05	1
Zinc	ND		0.0250	0.0100	mg/L		11/11/13 08:46	11/11/13 16:05	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**10.1**		0.0400	0.0200	mg/L		11/19/13 09:34	11/21/13 13:47	20

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	0.000150	mg/L		11/20/13 08:03	11/21/13 08:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.0100	0.00300	mg/L		11/16/13 15:50	11/18/13 13:02	1
Sulfide	ND		5.00	0.700	mg/L		11/12/13 13:50	11/12/13 15:56	1
Total Organic Carbon	**2.23**		1.00	0.500	mg/L			11/13/13 09:48	1
Carbon Dioxide, Free	**117**	**HF**	20.0	10.0	mg/L			11/08/13 14:24	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	**2.65**		1.00	0.500	mg/L			11/15/13 16:31	1

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39686-1

Client Sample ID: MW-09-GW-001
Date Collected: 11/06/13 16:24
Date Received: 11/07/13 08:30

Lab Sample ID: 490-39686-6
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	ND		0.0100	0.00500	mg/L			11/07/13 11:34	1

Method: 8015C - Glycols- Direct Injection (GC/FID)

Lab Sample ID: MB 490-122083/35
Matrix: Water
Analysis Batch: 122083

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND		10.0	0.500	mg/L			11/14/13 23:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-butyl alcohol (Surr)	*84*		*70 - 130*		*11/14/13 23:50*	*1*

Lab Sample ID: LCS 490-122083/36
Matrix: Water
Analysis Batch: 122083

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylene glycol			50.0	53.84		mg/L		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-butyl alcohol (Surr)	*76*		*70 - 130*

Lab Sample ID: 240-31042-A-1 MS
Matrix: Water
Analysis Batch: 122083

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylene glycol	179		50.0	224.5	E	mg/L		91	41 - 139		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-butyl alcohol (Surr)	*86*		*70 - 130*

Lab Sample ID: 240-31042-A-1 MSD
Matrix: Water
Analysis Batch: 122083

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene glycol	179		50.0	236.6	E	mg/L		115	41 - 139	5	36

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-butyl alcohol (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 490-122400/3
Matrix: Water
Analysis Batch: 122400

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND		10.0	0.500	mg/L			11/15/13 15:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-butyl alcohol (Surr)	*97*		*70 - 130*		*11/15/13 15:54*	*1*

Method: 8015C - Glycols- Direct Injection (GC/FID) (Continued)

Lab Sample ID: LCS 490-122400/4
Matrix: Water
Analysis Batch: 122400

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylene glycol			50.0	54.65		mg/L		109	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-butyl alcohol (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 490-122400/5
Matrix: Water
Analysis Batch: 122400

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene glycol			50.0	54.83		mg/L		110	70 - 130	0	36

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-butyl alcohol (Surr)	*86*		*70 - 130*

Lab Sample ID: 490-39479-E-1 MS
Matrix: Water
Analysis Batch: 122400

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylene glycol	3.84	J	50.0	47.64		mg/L		88	41 - 139		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-butyl alcohol (Surr)	*100*		*70 - 130*

Lab Sample ID: 490-39479-E-1 MSD
Matrix: Water
Analysis Batch: 122400

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene glycol	3.84	J	50.0	43.92		mg/L		80	41 - 139	8	36

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-butyl alcohol (Surr)	*93*		*70 - 130*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 490-122314/6
Matrix: Water
Analysis Batch: 122314

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		0.00500	0.00250	mg/L			11/15/13 14:13	1
Ethylene	ND		0.00500	0.00250	mg/L			11/15/13 14:13	1
Methane	ND		0.00500	0.00250	mg/L			11/15/13 14:13	1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: MB 490-122314/6
Matrix: Water
Analysis Batch: 122314

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetylene (Surr)	99		62 - 124		11/15/13 14:13	1

Lab Sample ID: LCS 490-122314/7
Matrix: Water
Analysis Batch: 122314

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	0.513	0.5162		mg/L		101	80 - 120
Ethylene	0.479	0.4649		mg/L		97	80 - 120
Methane	0.273	0.3050		mg/L		112	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Acetylene (Surr)	99		62 - 124

Lab Sample ID: LCSD 490-122314/8
Matrix: Water
Analysis Batch: 122314

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	0.513	0.5067		mg/L		99	80 - 120	2	30
Ethylene	0.479	0.4532		mg/L		95	80 - 120	3	29
Methane	0.273	0.2988		mg/L		109	80 - 120	2	33

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Acetylene (Surr)	93		62 - 124

Lab Sample ID: 310-19328-K-1 MS
Matrix: Water
Analysis Batch: 122314

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	ND		0.513	0.5094		mg/L		99	71 - 120
Ethylene	ND		0.479	0.4530		mg/L		95	71 - 120
Methane	0.00752		0.273	0.2951		mg/L		105	46 - 142

Surrogate	MS %Recovery	MS Qualifier	Limits
Acetylene (Surr)	97		62 - 124

Lab Sample ID: 310-19328-K-1 MSD
Matrix: Water
Analysis Batch: 122314

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	ND		0.513	0.5264		mg/L		103	71 - 120	3	30
Ethylene	ND		0.479	0.4280		mg/L		89	71 - 120	6	30
Methane	0.00752		0.273	0.2930		mg/L		104	46 - 142	1	30

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: 310-19328-K-1 MSD
Matrix: Water
Analysis Batch: 122314

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Acetylene (Surr)	93		62 - 124

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 490-121501/1-A
Matrix: Water
Analysis Batch: 121889

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 121501

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.500	0.430	ug/L		11/13/13 09:20	11/14/13 13:43	1
PCB-1221	ND		0.500	0.340	ug/L		11/13/13 09:20	11/14/13 13:43	1
PCB-1232	ND		0.500	0.400	ug/L		11/13/13 09:20	11/14/13 13:43	1
PCB-1242	ND		0.500	0.220	ug/L		11/13/13 09:20	11/14/13 13:43	1
PCB-1248	ND		0.500	0.150	ug/L		11/13/13 09:20	11/14/13 13:43	1
PCB-1254	ND		0.500	0.170	ug/L		11/13/13 09:20	11/14/13 13:43	1
PCB-1260	ND		0.500	0.180	ug/L		11/13/13 09:20	11/14/13 13:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	59		10 - 150	11/13/13 09:20	11/14/13 13:43	1
Tetrachloro-m-xylene	44		10 - 150	11/13/13 09:20	11/14/13 13:43	1

Lab Sample ID: LCS 490-121501/2-A
Matrix: Water
Analysis Batch: 121889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 121501

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			8.00	5.829	p	ug/L		73	23 - 139		
PCB-1260			8.00	8.463		ug/L		106	36 - 144		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	67		10 - 150
Tetrachloro-m-xylene	41		10 - 150

Lab Sample ID: 490-39837-J-2-B MSD
Matrix: Water
Analysis Batch: 121889

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 121501

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		6.25	3.612	p	ug/L		58	23 - 139	25	
PCB-1260	ND		6.25	5.584		ug/L		89	36 - 144	24	

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	30		10 - 150
Tetrachloro-m-xylene	33		10 - 150

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 490-39837-K-2-A MS
Matrix: Water
Analysis Batch: 121889

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 121501

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		6.25	4.626	p	ug/L		74	23 - 139
PCB-1260	ND		6.25	7.090		ug/L		113	36 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*40*		*10 - 150*
Tetrachloro-m-xylene	*45*		*10 - 150*

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 490-120260/7
Matrix: Water
Analysis Batch: 120260

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.00	0.700	mg/L			11/07/13 15:14	1
Sulfate	ND		1.00	0.600	mg/L			11/07/13 15:14	1

Lab Sample ID: LCS 490-120260/8
Matrix: Water
Analysis Batch: 120260

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	51.66		mg/L		103	80 - 120
Sulfate	50.0	50.16		mg/L		100	80 - 120

Lab Sample ID: LCSD 490-120260/9
Matrix: Water
Analysis Batch: 120260

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	50.0	50.55		mg/L		101	80 - 120	2	20
Sulfate	50.0	51.62		mg/L		103	80 - 120	3	20

Lab Sample ID: 490-39696-H-2 MS
Matrix: Water
Analysis Batch: 120260

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	375	E	50.0	388.4	E 4	mg/L		27	80 - 120
Sulfate	1.10		50.0	55.24		mg/L		108	80 - 120

Lab Sample ID: 490-39696-H-2 MSD
Matrix: Water
Analysis Batch: 120260

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	375	E	50.0	380.6	E 4	mg/L		11	80 - 120	2	20
Sulfate	1.10		50.0	52.51		mg/L		103	80 - 120	5	20

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 490-120261/7
Matrix: Water
Analysis Batch: 120261

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.100	0.0500	mg/L			11/07/13 15:14	1
Nitrate as N	ND		0.100	0.0600	mg/L			11/07/13 15:14	1

Lab Sample ID: LCS 490-120261/8
Matrix: Water
Analysis Batch: 120261

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrite as N			5.00	5.004		mg/L		100	80 - 120		
Nitrate as N			5.00	5.080		mg/L		102	80 - 120		

Lab Sample ID: LCSD 490-120261/9
Matrix: Water
Analysis Batch: 120261

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N			5.00	6.372	*	mg/L		127	80 - 120	24	20
Nitrate as N			5.00	5.335		mg/L		107	80 - 120	5	20

Lab Sample ID: 490-39696-H-2 MS
Matrix: Water
Analysis Batch: 120261

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrite as N	ND	*	5.00	5.857		mg/L		117	80 - 120		
Nitrate as N	ND		5.00	5.407		mg/L		108	80 - 120		

Lab Sample ID: 490-39696-H-2 MSD
Matrix: Water
Analysis Batch: 120261

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	ND	*	5.00	5.501		mg/L		110	80 - 120	6	20
Nitrate as N	ND		5.00	5.027		mg/L		101	80 - 120	7	20

Lab Sample ID: MB 490-122070/3
Matrix: Water
Analysis Batch: 122070

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.00	0.700	mg/L			11/14/13 22:35	1
Sulfate	ND		1.00	0.600	mg/L			11/14/13 22:35	1

Lab Sample ID: LCS 490-122070/4
Matrix: Water
Analysis Batch: 122070

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			50.0	50.52		mg/L		101	80 - 120		

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 490-122070/4
Matrix: Water
Analysis Batch: 122070

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	52.92		mg/L		106	80 - 120

Lab Sample ID: LCSD 490-122070/5
Matrix: Water
Analysis Batch: 122070

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	50.0	50.57		mg/L		101	80 - 120	0	20
Sulfate	50.0	53.07		mg/L		106	80 - 120	0	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 490-120922/1-A
Matrix: Water
Analysis Batch: 121143

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 120922

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 15:31	1
Arsenic	ND		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 15:31	1
Barium	ND		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 15:31	1
Beryllium	ND		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 15:31	1
Cadmium	ND		0.00100	0.000400	mg/L		11/11/13 08:46	11/11/13 15:31	1
Chromium (coarse particulate matter)	0.0005400	J	0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 15:31	1
Cobalt	ND		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 15:31	1
Copper	ND		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 15:31	1
Iron	ND		0.0250	0.0100	mg/L		11/11/13 08:46	11/11/13 15:31	1
Lead	ND		0.00200	0.000200	mg/L		11/11/13 08:46	11/11/13 15:31	1
Manganese	ND		0.00200	0.00100	mg/L		11/11/13 08:46	11/11/13 15:31	1
Nickel	ND		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 15:31	1
Selenium	ND		0.00200	0.000600	mg/L		11/11/13 08:46	11/11/13 15:31	1
Silver	ND		0.00200	0.000500	mg/L		11/11/13 08:46	11/11/13 15:31	1
Thallium	ND		0.00200	0.000200	mg/L		11/11/13 08:46	11/11/13 15:31	1
Vanadium	ND		0.00200	0.000100	mg/L		11/11/13 08:46	11/11/13 15:31	1
Zinc	ND		0.0250	0.0100	mg/L		11/11/13 08:46	11/11/13 15:31	1

Lab Sample ID: LCS 490-120922/2-A
Matrix: Water
Analysis Batch: 121143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 120922

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.100	0.1094		mg/L		109	80 - 120
Arsenic	0.100	0.1036		mg/L		104	80 - 120
Barium	0.100	0.09996		mg/L		100	80 - 120
Beryllium	0.100	0.1004		mg/L		100	80 - 120
Cadmium	0.100	0.1042		mg/L		104	80 - 120
Chromium (coarse particulate matter)	0.100	0.1048		mg/L		105	80 - 120
Cobalt	0.100	0.1037		mg/L		104	80 - 120
Copper	0.100	0.09989		mg/L		100	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 490-120922/2-A
Matrix: Water
Analysis Batch: 121143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 120922

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	1.00	1.048		mg/L		105	80 - 120
Lead	0.100	0.1046		mg/L		105	80 - 120
Manganese	0.100	0.1048		mg/L		105	80 - 120
Nickel	0.100	0.1031		mg/L		103	80 - 120
Selenium	0.100	0.1046		mg/L		105	80 - 120
Silver	0.100	0.1039		mg/L		104	80 - 120
Thallium	0.100	0.1057		mg/L		106	80 - 120
Vanadium	0.100	0.1068		mg/L		107	80 - 120
Zinc	0.100	0.1071		mg/L		107	80 - 120

Lab Sample ID: 490-39686-1 MS
Matrix: Water
Analysis Batch: 121143

Client Sample ID: MW-04B-GW-001
Prep Type: Total/NA
Prep Batch: 120922

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		0.100	0.1130		mg/L		113	75 - 125
Arsenic	0.200		0.100	0.3052		mg/L		105	75 - 125
Barium	0.433		0.100	0.5360	4	mg/L		103	75 - 125
Beryllium	ND		0.100	0.09777		mg/L		98	75 - 125
Cadmium	ND		0.100	0.1038		mg/L		104	75 - 125
Chromium (coarse particulate matter)	ND		0.100	0.1025		mg/L		103	75 - 125
Cobalt	0.000652	J	0.100	0.09963		mg/L		99	75 - 125
Copper	ND		0.100	0.09477		mg/L		95	75 - 125
Iron	19.2		1.00	20.47	4	mg/L		128	75 - 125
Lead	0.000367	J	0.100	0.1037		mg/L		103	75 - 125
Manganese	2.72		0.100	2.834	E 4	mg/L		114	75 - 125
Nickel	0.000953	J	0.100	0.09899		mg/L		98	75 - 125
Selenium	ND		0.100	0.1028		mg/L		103	75 - 125
Silver	ND		0.100	0.1033		mg/L		103	75 - 125
Thallium	ND		0.100	0.1054		mg/L		105	75 - 125
Vanadium	0.000236	J	0.100	0.1062		mg/L		106	75 - 125
Zinc	ND		0.100	0.1001		mg/L		100	75 - 125

Lab Sample ID: 490-39686-1 MSD
Matrix: Water
Analysis Batch: 121143

Client Sample ID: MW-04B-GW-001
Prep Type: Total/NA
Prep Batch: 120922

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		0.100	0.1123		mg/L		112	75 - 125	1	20
Arsenic	0.200		0.100	0.3153		mg/L		115	75 - 125	3	20
Barium	0.433		0.100	0.5561	4	mg/L		123	75 - 125	4	20
Beryllium	ND		0.100	0.09749		mg/L		97	75 - 125	0	20
Cadmium	ND		0.100	0.1036		mg/L		104	75 - 125	0	20
Chromium (coarse particulate matter)	ND		0.100	0.1025		mg/L		103	75 - 125	0	20
Cobalt	0.000652	J	0.100	0.1007		mg/L		100	75 - 125	1	20
Copper	ND		0.100	0.09541		mg/L		95	75 - 125	1	20
Iron	19.2		1.00	21.07	4	mg/L		188	75 - 125	3	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 490-39686-1 MSD — **Client Sample ID: MW-04B-GW-001**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 121143 — **Prep Batch: 120922**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.000367	J	0.100	0.1052		mg/L		105	75 - 125	1	20
Manganese	2.72		0.100	2.911	E 4	mg/L		191	75 - 125	3	20
Nickel	0.000953	J	0.100	0.09982		mg/L		99	75 - 125	1	20
Selenium	ND		0.100	0.1039		mg/L		104	75 - 125	1	20
Silver	ND		0.100	0.1029		mg/L		103	75 - 125	0	20
Thallium	ND		0.100	0.1064		mg/L		106	75 - 125	1	20
Vanadium	0.000236	J	0.100	0.1065		mg/L		106	75 - 125	0	20
Zinc	ND		0.100	0.1010		mg/L		101	75 - 125	1	20

Lab Sample ID: MB 490-122938/1-B — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 123683 — **Prep Batch: 122964**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		0.00200	0.00100	mg/L		11/19/13 09:34	11/20/13 19:31	1

Lab Sample ID: LCS 490-122938/2-B — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 123683 — **Prep Batch: 122964**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	0.100	0.1053		mg/L		105	80 - 120

Lab Sample ID: LCSD 490-122938/3-B — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 123683 — **Prep Batch: 122964**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	0.100	0.1055		mg/L		106	80 - 120	0	20

Lab Sample ID: 490-39837-A-2-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 123683 — **Prep Batch: 122964**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	4.29		0.100	4.345	4	mg/L		52	75 - 125	2	20

Lab Sample ID: 490-39837-Q-2-D MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 123683 — **Prep Batch: 122964**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	4.29		0.100	4.424	4	mg/L		131	75 - 125

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 490-123299/1-A
Matrix: Water
Analysis Batch: 123661

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 123299

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	0.000150	mg/L		11/20/13 08:03	11/21/13 08:32	1

Lab Sample ID: LCS 490-123299/2-A
Matrix: Water
Analysis Batch: 123661

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 123299

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00100	0.001190		mg/L		119	80 - 120

Lab Sample ID: LCSD 490-123299/3-A
Matrix: Water
Analysis Batch: 123661

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 123299

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00100	0.001164		mg/L		116	80 - 120	2	20

Lab Sample ID: 490-39686-2 MS
Matrix: Water
Analysis Batch: 123661

Client Sample ID: MW-04B-GW-002
Prep Type: Total/NA
Prep Batch: 123299

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00100	0.001173		mg/L		117	75 - 125

Lab Sample ID: 490-39686-2 MSD
Matrix: Water
Analysis Batch: 123661

Client Sample ID: MW-04B-GW-002
Prep Type: Total/NA
Prep Batch: 123299

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00100	0.001108		mg/L		111	75 - 125	6	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 490-120423/2
Matrix: Water
Analysis Batch: 120423

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	ND		0.0100	0.00500	mg/L			11/07/13 11:00	1

Lab Sample ID: LCS 490-120423/3
Matrix: Water
Analysis Batch: 120423

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hex	0.100	0.1050		mg/L		105	85 - 115

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 490-39686-T-3 MS
Matrix: Water
Analysis Batch: 120423

Client Sample ID: 490-39686-T-3 MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hex	0.00500		0.100	0.06500	F	mg/L		60	85 - 115

Lab Sample ID: 490-39686-T-3 MSD
Matrix: Water
Analysis Batch: 120423

Client Sample ID: 490-39686-T-3 MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hex	0.00500		0.100	0.06700	F	mg/L		62	85 - 115	3	10

Lab Sample ID: 490-39686-T-3 DU
Matrix: Water
Analysis Batch: 120423

Client Sample ID: 490-39686-T-3 DU
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium, hex	0.00500		ND		mg/L			

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 490-122602/1-A
Matrix: Water
Analysis Batch: 122811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 122602

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.0100	0.00300	mg/L		11/16/13 15:50	11/18/13 12:54	1

Lab Sample ID: LCS 490-122602/3-A
Matrix: Water
Analysis Batch: 122811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 122602

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.09600		mg/L		96	90 - 110

Lab Sample ID: 490-39686-1 MS
Matrix: Water
Analysis Batch: 122811

Client Sample ID: MW-04B-GW-001
Prep Type: Total/NA
Prep Batch: 122602

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	ND		0.100	0.1110		mg/L		111	70 - 130

Lab Sample ID: 490-39686-1 MSD
Matrix: Water
Analysis Batch: 122811

Client Sample ID: MW-04B-GW-001
Prep Type: Total/NA
Prep Batch: 122602

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	ND		0.100	0.06900	F	mg/L		69	70 - 130	47	46

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: 490-39686-5 DU — **Client Sample ID: MW-09-GW-001**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 122811 — **Prep Batch: 122602**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cyanide, Total	ND		ND		mg/L		NC	20

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 490-121353/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 121411 — **Prep Batch: 121353**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		5.00	0.700	mg/L		11/12/13 13:50	11/12/13 15:56	1

Lab Sample ID: LCS 490-121353/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 121411 — **Prep Batch: 121353**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	20.0	19.10		mg/L		95	80 - 120

Lab Sample ID: LCSD 490-121353/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 121411 — **Prep Batch: 121353**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	20.0	19.58		mg/L		98	80 - 120	2	10

Lab Sample ID: 490-39686-1 MS — **Client Sample ID: MW-04B-GW-001**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 121411 — **Prep Batch: 121353**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	ND		20.0	13.02	F	mg/L		65	70 - 130

Lab Sample ID: 490-39686-1 MSD — **Client Sample ID: MW-04B-GW-001**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 121411 — **Prep Batch: 121353**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	ND		20.0	14.30		mg/L		71	70 - 130	9	10

Lab Sample ID: 490-39741-N-3-B DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 121411 — **Prep Batch: 121353**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	ND		ND		mg/L		NC	20

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 490-121913/1
Matrix: Water
Analysis Batch: 121913

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.00	0.500	mg/L			11/13/13 09:48	1

Lab Sample ID: LCS 490-121913/5
Matrix: Water
Analysis Batch: 121913

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	10.01		mg/L		100	90 - 110

Lab Sample ID: LCSD 490-121913/6
Matrix: Water
Analysis Batch: 121913

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	10.0	9.651		mg/L		97	90 - 110	4	20

Lab Sample ID: 490-39437-N-1 MS
Matrix: Water
Analysis Batch: 121913

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	1.69		20.0	21.49		mg/L		99	75 - 122

Lab Sample ID: 490-39536-P-3 MS
Matrix: Water
Analysis Batch: 121913

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	1.82		20.0	21.35		mg/L		98	75 - 122

Method: 9060A - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 490-122384/1-A
Matrix: Water
Analysis Batch: 122516

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	ND		1.00	0.500	mg/L			11/15/13 16:31	1

Lab Sample ID: LCS 490-122384/2-A
Matrix: Water
Analysis Batch: 122516

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	10.0	10.22		mg/L		102	90 - 110

Method: 9060A - Organic Carbon, Dissolved (DOC) (Continued)

Lab Sample ID: 490-39437-R-1-B MS
Matrix: Water
Analysis Batch: 122516

Client Sample ID: Matrix Spike
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Dissolved Organic Carbon	2.25		20.0	21.40		mg/L		96	75 - 122		

Lab Sample ID: 490-39837-R-2-B MS
Matrix: Water
Analysis Batch: 122516

Client Sample ID: Matrix Spike
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Dissolved Organic Carbon	2.22		20.0	23.06		mg/L		104	75 - 122		

Method: SM 4500 CO2 C - Free Carbon Dioxide

Lab Sample ID: LCS 490-120590/2
Matrix: Water
Analysis Batch: 120590

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Carbon Dioxide, Free			88.0	84.16		mg/L		96	90 - 110		

Lab Sample ID: LCSD 490-120590/11
Matrix: Water
Analysis Batch: 120590

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon Dioxide, Free			88.0	82.49		mg/L		94	90 - 110	2	20

Lab Sample ID: 490-39726-B-2 DU
Matrix: Water
Analysis Batch: 120590

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Carbon Dioxide, Free	ND			ND		mg/L				NC	20

GC VOA

Analysis Batch: 122083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-31042-A-1 MS	Matrix Spike	Total/NA	Water	8015C	
240-31042-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015C	
490-39686-1	MW-04B-GW-001	Total/NA	Water	8015C	
490-39686-2	MW-04B-GW-002	Total/NA	Water	8015C	
LCS 490-122083/36	Lab Control Sample	Total/NA	Water	8015C	
MB 490-122083/35	Method Blank	Total/NA	Water	8015C	

Analysis Batch: 122314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-19328-K-1 MS	Matrix Spike	Total/NA	Water	RSK-175	
310-19328-K-1 MSD	Matrix Spike Duplicate	Total/NA	Water	RSK-175	
490-39686-1	MW-04B-GW-001	Total/NA	Water	RSK-175	
490-39686-1	MW-04B-GW-001	Total/NA	Water	RSK-175	
490-39686-2	MW-04B-GW-002	Total/NA	Water	RSK-175	
490-39686-2	MW-04B-GW-002	Total/NA	Water	RSK-175	
490-39686-3	MW-08-GW-001	Total/NA	Water	RSK-175	
490-39686-5	MW-09-GW-001	Total/NA	Water	RSK-175	
LCS 490-122314/7	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 490-122314/8	Lab Control Sample Dup	Total/NA	Water	RSK-175	
MB 490-122314/6	Method Blank	Total/NA	Water	RSK-175	

Analysis Batch: 122400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39479-E-1 MS	Matrix Spike	Total/NA	Water	8015C	
490-39479-E-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015C	
490-39686-3	MW-08-GW-001	Total/NA	Water	8015C	
490-39686-5	MW-09-GW-001	Total/NA	Water	8015C	
LCS 490-122400/4	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-122400/5	Lab Control Sample Dup	Total/NA	Water	8015C	
MB 490-122400/3	Method Blank	Total/NA	Water	8015C	

GC Semi VOA

Prep Batch: 121501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39686-1	MW-04B-GW-001	Total/NA	Water	3510C	
490-39686-2	MW-04B-GW-002	Total/NA	Water	3510C	
490-39686-3	MW-08-GW-001	Total/NA	Water	3510C	
490-39686-5	MW-09-GW-001	Total/NA	Water	3510C	
490-39837-J-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	
490-39837-K-2-A MS	Matrix Spike	Total/NA	Water	3510C	
LCS 490-121501/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 490-121501/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 121889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39686-1	MW-04B-GW-001	Total/NA	Water	8082A	121501
490-39686-2	MW-04B-GW-002	Total/NA	Water	8082A	121501
490-39686-3	MW-08-GW-001	Total/NA	Water	8082A	121501
490-39686-5	MW-09-GW-001	Total/NA	Water	8082A	121501

GC Semi VOA (Continued)

Analysis Batch: 121889 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39837-J-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	8082A	121501
490-39837-K-2-A MS	Matrix Spike	Total/NA	Water	8082A	121501
LCS 490-121501/2-A	Lab Control Sample	Total/NA	Water	8082A	121501
MB 490-121501/1-A	Method Blank	Total/NA	Water	8082A	121501

HPLC/IC

Analysis Batch: 120260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39686-1	MW-04B-GW-001	Total/NA	Water	9056A	
490-39686-2	MW-04B-GW-002	Total/NA	Water	9056A	
490-39686-3	MW-08-GW-001	Total/NA	Water	9056A	
490-39686-5	MW-09-GW-001	Total/NA	Water	9056A	
490-39696-H-2 MS	Matrix Spike	Total/NA	Water	9056A	
490-39696-H-2 MSD	Matrix Spike Duplicate	Total/NA	Water	9056A	
LCS 490-120260/8	Lab Control Sample	Total/NA	Water	9056A	
LCSD 490-120260/9	Lab Control Sample Dup	Total/NA	Water	9056A	
MB 490-120260/7	Method Blank	Total/NA	Water	9056A	

Analysis Batch: 120261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39686-1	MW-04B-GW-001	Total/NA	Water	9056A	
490-39686-2	MW-04B-GW-002	Total/NA	Water	9056A	
490-39686-3	MW-08-GW-001	Total/NA	Water	9056A	
490-39686-5	MW-09-GW-001	Total/NA	Water	9056A	
490-39696-H-2 MS	Matrix Spike	Total/NA	Water	9056A	
490-39696-H-2 MSD	Matrix Spike Duplicate	Total/NA	Water	9056A	
LCS 490-120261/8	Lab Control Sample	Total/NA	Water	9056A	
LCSD 490-120261/9	Lab Control Sample Dup	Total/NA	Water	9056A	
MB 490-120261/7	Method Blank	Total/NA	Water	9056A	

Analysis Batch: 122070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39686-5	MW-09-GW-001	Total/NA	Water	9056A	
LCS 490-122070/4	Lab Control Sample	Total/NA	Water	9056A	
LCSD 490-122070/5	Lab Control Sample Dup	Total/NA	Water	9056A	
MB 490-122070/3	Method Blank	Total/NA	Water	9056A	

Metals

Prep Batch: 120922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39686-1	MW-04B-GW-001	Total/NA	Water	3010A	
490-39686-1 MS	MW-04B-GW-001	Total/NA	Water	3010A	
490-39686-1 MSD	MW-04B-GW-001	Total/NA	Water	3010A	
490-39686-2	MW-04B-GW-002	Total/NA	Water	3010A	
490-39686-3	MW-08-GW-001	Total/NA	Water	3010A	
490-39686-5	MW-09-GW-001	Total/NA	Water	3010A	
LCS 490-120922/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 490-120922/1-A	Method Blank	Total/NA	Water	3010A	

Metals (Continued)

Analysis Batch: 121143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39686-1	MW-04B-GW-001	Total/NA	Water	6020A	120922
490-39686-1	MW-04B-GW-001	Total/NA	Water	6020A	120922
490-39686-1 MS	MW-04B-GW-001	Total/NA	Water	6020A	120922
490-39686-1 MSD	MW-04B-GW-001	Total/NA	Water	6020A	120922
490-39686-2	MW-04B-GW-002	Total/NA	Water	6020A	120922
490-39686-2	MW-04B-GW-002	Total/NA	Water	6020A	120922
490-39686-3	MW-08-GW-001	Total/NA	Water	6020A	120922
490-39686-3	MW-08-GW-001	Total/NA	Water	6020A	120922
490-39686-5	MW-09-GW-001	Total/NA	Water	6020A	120922
490-39686-5	MW-09-GW-001	Total/NA	Water	6020A	120922
LCS 490-120922/2-A	Lab Control Sample	Total/NA	Water	6020A	120922
MB 490-120922/1-A	Method Blank	Total/NA	Water	6020A	120922

Filtration Batch: 122938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39686-1	MW-04B-GW-001	Dissolved	Water	Filtration	
490-39686-2	MW-04B-GW-002	Dissolved	Water	Filtration	
490-39686-3	MW-08-GW-001	Dissolved	Water	Filtration	
490-39686-5	MW-09-GW-001	Dissolved	Water	Filtration	
490-39837-A-2-C MSD	Matrix Spike Duplicate	Dissolved	Water	Filtration	
490-39837-Q-2-D MS	Matrix Spike	Dissolved	Water	Filtration	
LCS 490-122938/2-B	Lab Control Sample	Dissolved	Water	Filtration	
LCSD 490-122938/3-B	Lab Control Sample Dup	Dissolved	Water	Filtration	
MB 490-122938/1-B	Method Blank	Dissolved	Water	Filtration	

Prep Batch: 122964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39686-1	MW-04B-GW-001	Dissolved	Water	3005A	122938
490-39686-2	MW-04B-GW-002	Dissolved	Water	3005A	122938
490-39686-3	MW-08-GW-001	Dissolved	Water	3005A	122938
490-39686-5	MW-09-GW-001	Dissolved	Water	3005A	122938
490-39837-A-2-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	122938
490-39837-Q-2-D MS	Matrix Spike	Dissolved	Water	3005A	122938
LCS 490-122938/2-B	Lab Control Sample	Dissolved	Water	3005A	122938
LCSD 490-122938/3-B	Lab Control Sample Dup	Dissolved	Water	3005A	122938
MB 490-122938/1-B	Method Blank	Dissolved	Water	3005A	122938

Prep Batch: 123299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39686-1	MW-04B-GW-001	Total/NA	Water	7470A	
490-39686-2	MW-04B-GW-002	Total/NA	Water	7470A	
490-39686-2 MS	MW-04B-GW-002	Total/NA	Water	7470A	
490-39686-2 MSD	MW-04B-GW-002	Total/NA	Water	7470A	
490-39686-3	MW-08-GW-001	Total/NA	Water	7470A	
490-39686-5	MW-09-GW-001	Total/NA	Water	7470A	
LCS 490-123299/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 490-123299/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	
MB 490-123299/1-A	Method Blank	Total/NA	Water	7470A	

Metals (Continued)

Analysis Batch: 123661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39686-1	MW-04B-GW-001	Total/NA	Water	7470A	123299
490-39686-2	MW-04B-GW-002	Total/NA	Water	7470A	123299
490-39686-2 MS	MW-04B-GW-002	Total/NA	Water	7470A	123299
490-39686-2 MSD	MW-04B-GW-002	Total/NA	Water	7470A	123299
490-39686-3	MW-08-GW-001	Total/NA	Water	7470A	123299
490-39686-5	MW-09-GW-001	Total/NA	Water	7470A	123299
LCS 490-123299/2-A	Lab Control Sample	Total/NA	Water	7470A	123299
LCSD 490-123299/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	123299
MB 490-123299/1-A	Method Blank	Total/NA	Water	7470A	123299

Analysis Batch: 123683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39686-1	MW-04B-GW-001	Dissolved	Water	6020A	122964
490-39686-2	MW-04B-GW-002	Dissolved	Water	6020A	122964
490-39686-3	MW-08-GW-001	Dissolved	Water	6020A	122964
490-39837-A-2-C MSD	Matrix Spike Duplicate	Dissolved	Water	6020A	122964
490-39837-Q-2-D MS	Matrix Spike	Dissolved	Water	6020A	122964
LCS 490-122938/2-B	Lab Control Sample	Dissolved	Water	6020A	122964
LCSD 490-122938/3-B	Lab Control Sample Dup	Dissolved	Water	6020A	122964
MB 490-122938/1-B	Method Blank	Dissolved	Water	6020A	122964

Analysis Batch: 123806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39686-5	MW-09-GW-001	Dissolved	Water	6020A	122964

General Chemistry

Analysis Batch: 120423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39686-1	MW-04B-GW-001	Total/NA	Water	7196A	
490-39686-2	MW-04B-GW-002	Total/NA	Water	7196A	
490-39686-4	MW-08-GW-001	Total/NA	Water	7196A	
490-39686-6	MW-09-GW-001	Total/NA	Water	7196A	
490-39686-T-3 DU	490-39686-T-3 DU	Total/NA	Water	7196A	
490-39686-T-3 MS	490-39686-T-3 MS	Total/NA	Water	7196A	
490-39686-T-3 MSD	490-39686-T-3 MSD	Total/NA	Water	7196A	
LCS 490-120423/3	Lab Control Sample	Total/NA	Water	7196A	
MB 490-120423/2	Method Blank	Total/NA	Water	7196A	

Analysis Batch: 120590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39686-1	MW-04B-GW-001	Total/NA	Water	SM 4500 CO2 C	
490-39686-2	MW-04B-GW-002	Total/NA	Water	SM 4500 CO2 C	
490-39686-3	MW-08-GW-001	Total/NA	Water	SM 4500 CO2 C	
490-39686-5	MW-09-GW-001	Total/NA	Water	SM 4500 CO2 C	
490-39726-B-2 DU	Duplicate	Total/NA	Water	SM 4500 CO2 C	
LCS 490-120590/2	Lab Control Sample	Total/NA	Water	SM 4500 CO2 C	
LCSD 490-120590/11	Lab Control Sample Dup	Total/NA	Water	SM 4500 CO2 C	

General Chemistry (Continued)

Prep Batch: 121353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39686-1	MW-04B-GW-001	Total/NA	Water	9030B	
490-39686-1 MS	MW-04B-GW-001	Total/NA	Water	9030B	
490-39686-1 MSD	MW-04B-GW-001	Total/NA	Water	9030B	
490-39686-2	MW-04B-GW-002	Total/NA	Water	9030B	
490-39686-3	MW-08-GW-001	Total/NA	Water	9030B	
490-39686-5	MW-09-GW-001	Total/NA	Water	9030B	
490-39741-N-3-B DU	Duplicate	Total/NA	Water	9030B	
LCS 490-121353/2-A	Lab Control Sample	Total/NA	Water	9030B	
LCSD 490-121353/3-A	Lab Control Sample Dup	Total/NA	Water	9030B	
MB 490-121353/1-A	Method Blank	Total/NA	Water	9030B	

Analysis Batch: 121411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39686-1	MW-04B-GW-001	Total/NA	Water	9034	121353
490-39686-1 MS	MW-04B-GW-001	Total/NA	Water	9034	121353
490-39686-1 MSD	MW-04B-GW-001	Total/NA	Water	9034	121353
490-39686-2	MW-04B-GW-002	Total/NA	Water	9034	121353
490-39686-3	MW-08-GW-001	Total/NA	Water	9034	121353
490-39686-5	MW-09-GW-001	Total/NA	Water	9034	121353
490-39741-N-3-B DU	Duplicate	Total/NA	Water	9034	121353
LCS 490-121353/2-A	Lab Control Sample	Total/NA	Water	9034	121353
LCSD 490-121353/3-A	Lab Control Sample Dup	Total/NA	Water	9034	121353
MB 490-121353/1-A	Method Blank	Total/NA	Water	9034	121353

Analysis Batch: 121913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39437-N-1 MS	Matrix Spike	Total/NA	Water	9060A	
490-39536-P-3 MS	Matrix Spike	Total/NA	Water	9060A	
490-39686-1	MW-04B-GW-001	Total/NA	Water	9060A	
490-39686-2	MW-04B-GW-002	Total/NA	Water	9060A	
490-39686-3	MW-08-GW-001	Total/NA	Water	9060A	
490-39686-5	MW-09-GW-001	Total/NA	Water	9060A	
LCS 490-121913/5	Lab Control Sample	Total/NA	Water	9060A	
LCSD 490-121913/6	Lab Control Sample Dup	Total/NA	Water	9060A	
MB 490-121913/1	Method Blank	Total/NA	Water	9060A	

Filtration Batch: 122384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39437-R-1-B MS	Matrix Spike	Dissolved	Water	Filtration	
490-39686-1	MW-04B-GW-001	Dissolved	Water	Filtration	
490-39686-2	MW-04B-GW-002	Dissolved	Water	Filtration	
490-39686-3	MW-08-GW-001	Dissolved	Water	Filtration	
490-39686-5	MW-09-GW-001	Dissolved	Water	Filtration	
490-39837-R-2-B MS	Matrix Spike	Dissolved	Water	Filtration	
LCS 490-122384/2-A	Lab Control Sample	Dissolved	Water	Filtration	
MB 490-122384/1-A	Method Blank	Dissolved	Water	Filtration	

Analysis Batch: 122516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39437-R-1-B MS	Matrix Spike	Dissolved	Water	9060A	122384
490-39686-1	MW-04B-GW-001	Dissolved	Water	9060A	122384

General Chemistry (Continued)

Analysis Batch: 122516 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39686-2	MW-04B-GW-002	Dissolved	Water	9060A	122384
490-39686-3	MW-08-GW-001	Dissolved	Water	9060A	122384
490-39686-5	MW-09-GW-001	Dissolved	Water	9060A	122384
490-39837-R-2-B MS	Matrix Spike	Dissolved	Water	9060A	122384
LCS 490-122384/2-A	Lab Control Sample	Dissolved	Water	9060A	122384
MB 490-122384/1-A	Method Blank	Dissolved	Water	9060A	122384

Prep Batch: 122602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39686-1	MW-04B-GW-001	Total/NA	Water	9012B	
490-39686-1 MS	MW-04B-GW-001	Total/NA	Water	9012B	
490-39686-1 MSD	MW-04B-GW-001	Total/NA	Water	9012B	
490-39686-2	MW-04B-GW-002	Total/NA	Water	9012B	
490-39686-3	MW-08-GW-001	Total/NA	Water	9012B	
490-39686-5	MW-09-GW-001	Total/NA	Water	9012B	
490-39686-5 DU	MW-09-GW-001	Total/NA	Water	9012B	
LCS 490-122602/3-A	Lab Control Sample	Total/NA	Water	9012B	
MB 490-122602/1-A	Method Blank	Total/NA	Water	9012B	

Analysis Batch: 122811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39686-1	MW-04B-GW-001	Total/NA	Water	9012B	122602
490-39686-1 MS	MW-04B-GW-001	Total/NA	Water	9012B	122602
490-39686-1 MSD	MW-04B-GW-001	Total/NA	Water	9012B	122602
490-39686-2	MW-04B-GW-002	Total/NA	Water	9012B	122602
490-39686-3	MW-08-GW-001	Total/NA	Water	9012B	122602
490-39686-5	MW-09-GW-001	Total/NA	Water	9012B	122602
490-39686-5 DU	MW-09-GW-001	Total/NA	Water	9012B	122602
LCS 490-122602/3-A	Lab Control Sample	Total/NA	Water	9012B	122602
MB 490-122602/1-A	Method Blank	Total/NA	Water	9012B	122602

Client Sample ID: MW-04B-GW-001

Lab Sample ID: 490-39686-1

Date Collected: 11/06/13 15:42

Matrix: Water

Date Received: 11/07/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1	122083	11/15/13 04:23	JPS	TAL NSH
Total/NA	Analysis	RSK-175		1	122314	11/15/13 15:02	MGH	TAL NSH
Total/NA	Analysis	RSK-175		2	122314	11/15/13 15:04	MGH	TAL NSH
Total/NA	Analysis	8082A		1	121889	11/14/13 17:17	WAM	TAL NSH
Total/NA	Prep	3510C			121501	11/13/13 09:20	FXM	TAL NSH
Total/NA	Analysis	9056A		1	120260	11/07/13 16:35	ASL	TAL NSH
Total/NA	Analysis	9056A		1	120261	11/07/13 16:35	ASL	TAL NSH
Total/NA	Prep	3010A			120922	11/11/13 08:46	NLI	TAL NSH
Total/NA	Analysis	6020A		1	121143	11/11/13 15:41	BWW	TAL NSH
Total/NA	Analysis	6020A		5	121143	11/11/13 17:56	BWW	TAL NSH
Total/NA	Prep	7470A			123299	11/20/13 08:03	LTB	TAL NSH
Total/NA	Analysis	7470A		1	123661	11/21/13 08:37	LTB	TAL NSH
Dissolved	Filtration	Filtration			122938	11/19/13 08:50	NLI	TAL NSH
Dissolved	Prep	3005A			122964	11/19/13 09:34	NLI	TAL NSH
Dissolved	Analysis	6020A		10	123683	11/20/13 19:46	BWW	TAL NSH
Total/NA	Analysis	7196A		1	120423	11/07/13 11:14	BLM	TAL NSH
Total/NA	Analysis	SM 4500 CO2 C		1	120590	11/08/13 14:09	BLM	TAL NSH
Total/NA	Prep	9030B			121353	11/12/13 13:50	SDJ	TAL NSH
Total/NA	Analysis	9034		1	121411	11/12/13 15:56	REM	TAL NSH
Total/NA	Analysis	9060A		1	121913	11/13/13 09:48	JKF	TAL NSH
Dissolved	Filtration	Filtration			122384	11/15/13 10:00	CLJ	TAL NSH
Dissolved	Analysis	9060A		1	122516	11/15/13 16:31	JKF	TAL NSH
Total/NA	Prep	9012B			122602	11/16/13 15:50	SDJ	TAL NSH
Total/NA	Analysis	9012B		1	122811	11/18/13 12:58	TEM	TAL NSH

Client Sample ID: MW-04B-GW-002

Lab Sample ID: 490-39686-2

Date Collected: 11/06/13 15:42

Matrix: Water

Date Received: 11/07/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1	122083	11/15/13 04:43	JPS	TAL NSH
Total/NA	Analysis	RSK-175		1	122314	11/15/13 15:09	MGH	TAL NSH
Total/NA	Analysis	RSK-175		2	122314	11/15/13 15:12	MGH	TAL NSH
Total/NA	Prep	3510C			121501	11/13/13 09:20	FXM	TAL NSH
Total/NA	Analysis	8082A		1	121889	11/14/13 17:30	WAM	TAL NSH
Total/NA	Analysis	9056A		1	120260	11/07/13 16:55	ASL	TAL NSH
Total/NA	Analysis	9056A		1	120261	11/07/13 16:55	ASL	TAL NSH
Total/NA	Prep	3010A			120922	11/11/13 08:46	NLI	TAL NSH
Total/NA	Analysis	6020A		1	121143	11/11/13 15:55	BWW	TAL NSH
Total/NA	Analysis	6020A		5	121143	11/11/13 18:00	BWW	TAL NSH
Total/NA	Prep	7470A			123299	11/20/13 08:03	LTB	TAL NSH
Total/NA	Analysis	7470A		1	123661	11/21/13 08:39	LTB	TAL NSH

Client Sample ID: MW-04B-GW-002

Lab Sample ID: 490-39686-2

Date Collected: 11/06/13 15:42

Matrix: Water

Date Received: 11/07/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			122938	11/19/13 08:50	NLI	TAL NSH
Dissolved	Prep	3005A			122964	11/19/13 09:34	NLI	TAL NSH
Dissolved	Analysis	6020A		10	123683	11/20/13 19:50	BWW	TAL NSH
Total/NA	Analysis	7196A		1	120423	11/07/13 11:21	BLM	TAL NSH
Total/NA	Analysis	SM 4500 CO2 C		1	120590	11/08/13 14:13	BLM	TAL NSH
Total/NA	Prep	9030B			121353	11/12/13 13:50	SDJ	TAL NSH
Total/NA	Analysis	9034		1	121411	11/12/13 15:56	REM	TAL NSH
Total/NA	Analysis	9060A		1	121913	11/13/13 09:48	JKF	TAL NSH
Dissolved	Filtration	Filtration			122384	11/15/13 10:00	CLJ	TAL NSH
Dissolved	Analysis	9060A		1	122516	11/15/13 16:31	JKF	TAL NSH
Total/NA	Prep	9012B			122602	11/16/13 15:50	SDJ	TAL NSH
Total/NA	Analysis	9012B		1	122811	11/18/13 13:00	TEM	TAL NSH

Client Sample ID: MW-08-GW-001

Lab Sample ID: 490-39686-3

Date Collected: 11/06/13 11:08

Matrix: Water

Date Received: 11/07/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	122314	11/15/13 15:14	MGH	TAL NSH
Total/NA	Analysis	8015C		1	122400	11/15/13 22:35	JPS	TAL NSH
Total/NA	Prep	3510C			121501	11/13/13 09:20	FXM	TAL NSH
Total/NA	Analysis	8082A		1	121889	11/14/13 17:43	WAM	TAL NSH
Total/NA	Analysis	9056A		1	120260	11/07/13 17:15	ASL	TAL NSH
Total/NA	Analysis	9056A		1	120261	11/07/13 17:15	ASL	TAL NSH
Total/NA	Prep	3010A			120922	11/11/13 08:46	NLI	TAL NSH
Total/NA	Analysis	6020A		1	121143	11/11/13 16:00	BWW	TAL NSH
Total/NA	Analysis	6020A		10	121143	11/11/13 18:05	BWW	TAL NSH
Total/NA	Prep	7470A			123299	11/20/13 08:03	LTB	TAL NSH
Total/NA	Analysis	7470A		1	123661	11/21/13 08:44	LTB	TAL NSH
Dissolved	Filtration	Filtration			122938	11/19/13 08:50	NLI	TAL NSH
Dissolved	Prep	3005A			122964	11/19/13 09:34	NLI	TAL NSH
Dissolved	Analysis	6020A		10	123683	11/20/13 19:55	BWW	TAL NSH
Total/NA	Analysis	SM 4500 CO2 C		1	120590	11/08/13 14:19	BLM	TAL NSH
Total/NA	Prep	9030B			121353	11/12/13 13:50	SDJ	TAL NSH
Total/NA	Analysis	9034		1	121411	11/12/13 15:56	REM	TAL NSH
Total/NA	Analysis	9060A		1	121913	11/13/13 09:48	JKF	TAL NSH
Dissolved	Filtration	Filtration			122384	11/15/13 10:00	CLJ	TAL NSH
Dissolved	Analysis	9060A		1	122516	11/15/13 16:31	JKF	TAL NSH
Total/NA	Prep	9012B			122602	11/16/13 15:50	SDJ	TAL NSH
Total/NA	Analysis	9012B		1	122811	11/18/13 13:01	TEM	TAL NSH

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39686-1

Client Sample ID: MW-08-GW-001

Lab Sample ID: 490-39686-4

Date Collected: 11/06/13 16:31
Matrix: Water
Date Received: 11/07/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1	120423	11/07/13 11:26	BLM	TAL NSH

Client Sample ID: MW-09-GW-001

Lab Sample ID: 490-39686-5

Date Collected: 11/06/13 13:26
Matrix: Water
Date Received: 11/07/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	122314	11/15/13 15:26	MGH	TAL NSH
Total/NA	Analysis	8015C		1	122400	11/15/13 22:54	JPS	TAL NSH
Total/NA	Prep	3510C			121501	11/13/13 09:20	FXM	TAL NSH
Total/NA	Analysis	8082A		1	121889	11/14/13 17:56	WAM	TAL NSH
Total/NA	Analysis	9056A		1	120260	11/07/13 17:35	ASL	TAL NSH
Total/NA	Analysis	9056A		1	120261	11/07/13 17:35	ASL	TAL NSH
Total/NA	Analysis	9056A		5	122070	11/15/13 04:57	ASL	TAL NSH
Total/NA	Analysis	6020A		1	121143	11/11/13 16:05	BWW	TAL NSH
Total/NA	Prep	3010A			120922	11/11/13 08:46	NLI	TAL NSH
Total/NA	Analysis	6020A		20	121143	11/11/13 18:10	BWW	TAL NSH
Total/NA	Prep	7470A			123299	11/20/13 08:03	LTB	TAL NSH
Total/NA	Analysis	7470A		1	123661	11/21/13 08:46	LTB	TAL NSH
Dissolved	Filtration	Filtration			122938	11/19/13 08:50	NLI	TAL NSH
Dissolved	Prep	3005A			122964	11/19/13 09:34	NLI	TAL NSH
Dissolved	Analysis	6020A		20	123806	11/21/13 13:47	BWW	TAL NSH
Total/NA	Analysis	SM 4500 CO2 C		1	120590	11/08/13 14:24	BLM	TAL NSH
Total/NA	Prep	9030B			121353	11/12/13 13:50	SDJ	TAL NSH
Total/NA	Analysis	9034		1	121411	11/12/13 15:56	REM	TAL NSH
Total/NA	Analysis	9060A		1	121913	11/13/13 09:48	JKF	TAL NSH
Dissolved	Filtration	Filtration			122384	11/15/13 10:00	CLJ	TAL NSH
Dissolved	Analysis	9060A		1	122516	11/15/13 16:31	JKF	TAL NSH
Total/NA	Prep	9012B			122602	11/16/13 15:50	SDJ	TAL NSH
Total/NA	Analysis	9012B		1	122811	11/18/13 13:02	TEM	TAL NSH

Client Sample ID: MW-09-GW-001

Lab Sample ID: 490-39686-6

Date Collected: 11/06/13 16:24
Matrix: Water
Date Received: 11/07/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1	120423	11/07/13 11:34	BLM	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39686-1

Method	Method Description	Protocol	Laboratory
8015C	Glycols- Direct Injection (GC/FID)	SW846	TAL NSH
RSK-175	Dissolved Gases (GC)	RSK	TAL NSH
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL NSH
9056A	Anions, Ion Chromatography	SW846	TAL NSH
6020A	Metals (ICP/MS)	SW846	TAL NSH
7470A	Mercury (CVAA)	SW846	TAL NSH
7196A	Chromium, Hexavalent	SW846	TAL NSH
9012B	Cyanide, Total andor Amenable	SW846	TAL NSH
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL NSH
9060A	Organic Carbon, Total (TOC)	SW846	TAL NSH
9060A	Organic Carbon, Dissolved (DOC)	SW846	TAL NSH
SM 4500 CO2 C	Free Carbon Dioxide	SM	TAL NSH

Protocol References:

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab
SM = "Standard Methods For The Examination Of Water And Wastewater",
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39686-1

Laboratory: TestAmerica Nashville

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alaska (UST)	State Program	10	UST-087	07-24-14
Arizona	State Program	9	AZ0473	05-05-14
Arizona	State Program	9	AZ0473	05-05-14 *
Arkansas DEQ	State Program	6	88-0737	04-25-14
California	NELAP	9	1168CA	10-31-14
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-14
Illinois	NELAP	5	200010	12-09-14
Iowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-14
Kentucky (UST)	State Program	4	19	06-30-14
Louisiana	NELAP	6	30613	06-30-14
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	1	M-TN032	06-30-14
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-14
Montana (UST)	State Program	8	NA	01-01-20
Nevada	State Program	9	TN00032	07-31-14
New Hampshire	NELAP	1	2963	10-10-14
New Jersey	NELAP	2	TN965	06-30-14
New York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-13
North Dakota	State Program	8	R-146	06-30-14
Ohio VAP	State Program	5	CL0033	10-16-15
Oklahoma	State Program	6	9412	08-31-14
Oregon	NELAP	10	TN200001	04-29-14
Pennsylvania	NELAP	3	68-00585	06-30-14
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	02-28-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-14
USDA	Federal		S-48469	10-30-16
Utah	NELAP	8	TN00032	07-31-14
Virginia	NELAP	3	460152	06-14-14
Washington	State Program	10	C789	07-19-14
West Virginia DEP	State Program	3	219	02-28-14
Wisconsin	State Program	5	998020430	08-31-14
Wyoming (UST)	A2LA	8	453.07	12-31-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-39686 Chain of Custody

Cooler Received/Opened On 11/7/2013 @ 0830

1. Tracking # 1709 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 1.9 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO. (NA)

4. Were custody seals on outside of cooler? (YES)..NO...NA

If yes, how many and where: (2) front

5. Were the seals intact, signed, and dated correctly? (YES)..NO...NA

6. Were custody papers inside cooler? (YES)..NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) mDw

7. Were custody seals on containers: YES (NO) and Intact YES...NO..(NA)

Were these signed and dated correctly? YES...NO..(NA)

8. Packing mat'l used? (Bubblewrap) (Plastic bag) Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)..NO...NA

12. Did all container labels and tags agree with custody papers? (YES)..NO...NA

13a. Were VOA vials received? (YES)..NO...NA

b. Was there any observable headspace present in any VOA vial? YES..(NO)..NA

14. Was there a Trip Blank in this cooler? (YES)..NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) DA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? (YES)..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used (YES)..NO...NA

16. Was residual chlorine present? YES..(NO)..NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) DA

17. Were custody papers properly filled out (ink, signed, etc)? (YES)..NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)..NO...NA

19. Were correct containers used for the analysis requested? (YES)..NO...NA

20. Was sufficient amount of sample sent in each container? (YES)..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) DA

I certify that I attached a label with the unique LIMS number to each container (intial) DA

21. Were there Non-Conformance issues at login? YES..(NO) Was a NCM generated? YES..(NO)..#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 11/28/12

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

Loc: 490
39686

COOLER RECEIPT FORM

Cooler Received/Opened On 11/7/2013 @ 0830

1. Tracking # 1694 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 3.1 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO..(NA)

4. Were custody seals on outside of cooler? (YES)..NO...NA

If yes, how many and where: (2) Front

5. Were the seals intact, signed, and dated correctly? (YES)..NO...NA

6. Were custody papers inside cooler? YES...(NO)..NA

I certify that I opened the cooler and answered questions 1-6 (intial) MBM

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) (Plastic bag) Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)..NO...NA

13a. Were VOA vials received? (YES)..NO...NA

b. Was there any observable headspace present in any VOA vial? YES..(NO)..NA

14. Was there a Trip Blank in this cooler? (YES)..NO..NA DA 11-7-13 If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) DA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? (YES)..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used (YES)...NO...NA

16. Was residual chlorine present? YES..(NO)..NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) DA

17. Were custody papers properly filled out (ink, signed, etc)? (YES)..NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)..NO...NA

19. Were correct containers used for the analysis requested? (YES)..NO...NA

20. Was sufficient amount of sample sent in each container? (YES)..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) DA

I certify that I attached a label with the unique LIMS number to each container (intial) DA

21. Were there Non-Conformance issues at login? YES..(NO) Was a NCM generated? YES..(NO)..#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 11/28/12

2 coolers

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Loc: 490
39686

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

11/21/2013

Client Information

Client Contact: Mariruth Gruis	Sampler: John Knightly	Lab PM: Connor, Roxanne	Carrier Tracking No(s): FedEx 5712-0302-1694 5712-0302-1709
Company: Haley & Aldrich, Inc.	Phone: 913-522-0370	E-Mail: roxanne.connor@testamericainc.com	COC No: 490-16687-6964.1
Address: 11020 King Street Suite 450	Due Date Requested:		Page: Page 1 of 7
City: Overland Park	TAT Requested (days): Normal		Job #:
State, Zip: KS, 66210	PO #: Purchase Order Requested		
Phone: 913-636-3497(Tel)	WO #:		
Email: mgruis@haleyaldrich.com	Project #: 49003847		
Project Name: Leeds Facility	SSOW#:		
Site:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B TCL	8270C TCL Semivolatiles List	Cr+6, SO4, Cl, NO3, NO2, CO2	6020A TCL metals + 7470A Hg	RSK_175 - Methane, Ethane, Ethylene	9060A TOC and DOC	9034 - Sulfide	9012B - Cyanide, Total	8015C_DAI_GLY - Ethylene Glycol	8082A - Standard PCBs (1016-1260)	1010A Flashpoint and 9040C pH	6020A Diss Mn (lab filtered)	6020A Fe & Mn	Total Number of containers	Special Instructions/Note:
				Preservation Code:																		
1	MW-04B-GW-001	11/6/13	1542	G	Water			X	X	X	X	X	X	X	X	X	X		X	X		CR+6
2	MW-04B-GW-002	11/6/13	1542	G	Water			X	X	X	X	X	X	X	X	X	X		X	X		CR+6
3	MW-08-GW-001 MS	11/6/13	1108	G	Water			X	X	X	X	X	X	X	X	X	X		X	X		
4	MW-08-GW-001	11/6/13	1631	G	Water					X												CR+6
5	MW-09-GW-001	11/6/13	1326	G	Water			X	X	X	X	X	X	X	X	X	X		X	X		
6	MW-09-GW-001	11/6/13	1624	G	Water					X												CR+6
					Water																	
7	Trip Blank	-	-	-	Water			X														
					Water																	
					Water																	
					Water																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: John Knightly	Date/Time: 11/6/13 1930	Company	Received by:	Date/Time: 11-7-13 0830	Company TAN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 1.9, 3.1

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 490-39686-1

Login Number: 39686

List Source: TestAmerica Nashville

List Number: 1

Creator: Armstrong, Daniel

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.9C, 3.1C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

ANALYTICAL REPORT

Job Number: 490-39437-2

Job Description: Former Leeds Assembly Plant

For:
Haley & Aldrich, Inc.
11020 King Street
Suite 450
Overland Park, KS 66210

Attention: Mariruth Gruis

Approved for release.
Roxanne Connor
Senior Project Manager
11/19/2013 12:51 PM

Roxanne Connor, Senior Project Manager
2960 Foster Creighton Drive, Nashville, TN, 37204
(615)301-5761
roxanne.connor@testamericainc.com
11/19/2013

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CASE NARRATIVE

Client: Haley & Aldrich, Inc.

Project: Former Leeds Assembly Plant

Report Number: 490-39437-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Nashville attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 11/05/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.6 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-06-GW-001 (490-39437-1), MW-07-GW-001 (490-39437-3) and Trip Blank (490-39437-4) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 11/13/2013 and 11/14/2013.

Trichloroethene was detected in method blank MB 490-121717/4 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the VOCs analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-06-GW-001 (490-39437-1) and MW-07-GW-001 (490-39437-3) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared and analyzed on 11/11/2013.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

Bis(2-ethylhexyl) phthalate was detected in method blank MB 490-120924/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Method 8270C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 119650 and 120924.

Method 8270C: The surrogate recovery for 2-Fluorophenol on the laboratory control sample (LCS) associated with batch 119650 was

outside recovery limits. All associated sample surrogates fell within acceptance criteria; therefore, the data have been reported.

No other difficulties were encountered during the SVOCs analysis.

All other quality control parameters were within the acceptance limits.

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Instrument ID: HP33 Analysis Batch Number: 115521

Lab Sample ID: STD0005 490-115521/2 IC Client Sample ID:

Date Analyzed: 10/18/13 20:11 Lab File ID: 10181304.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.30	Baseline	redmondj	10/19/13 19:44
2-Butanone (MEK)	3.00	Split Peak	redmondj	10/19/13 19:44
1,4-Dioxane	4.21	Split Peak	redmondj	10/19/13 19:44
1,2,3-Trichloropropane	7.29	Split Peak	redmondj	10/19/13 19:44

Lab Sample ID: STD001 490-115521/3 IC Client Sample ID:

Date Analyzed: 10/18/13 20:38 Lab File ID: 10181305.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.29	Peak Tail	redmondj	10/19/13 19:47
Bromomethane	1.51	Peak Tail	redmondj	10/19/13 19:47
2-Chloroethyl vinyl ether	4.53	Split Peak	redmondj	10/19/13 19:47

Lab Sample ID: STD002 490-115521/4 IC Client Sample ID:

Date Analyzed: 10/18/13 21:05 Lab File ID: 10181306.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.30	Peak Tail	redmondj	10/19/13 19:48

Lab Sample ID: STD005 490-115521/5 IC Client Sample ID:

Date Analyzed: 10/18/13 21:32 Lab File ID: 10181307.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Iodomethane	2.07	Split Peak	redmondj	10/19/13 19:51
Isopropyl alcohol	2.10	Wrong peak	redmondj	10/19/13 19:50
1,4-Dioxane	4.22	Peak Tail	redmondj	10/19/13 19:49

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Instrument ID: HP33 Analysis Batch Number: 115521

Lab Sample ID: STD010 490-115521/6 IC Client Sample ID:

Date Analyzed: 10/18/13 21:59 Lab File ID: 10181308.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	4.21	Peak Tail	redmondj	10/19/13 19:52

Lab Sample ID: ICIS 490-115521/7 Client Sample ID:

Date Analyzed: 10/18/13 22:26 Lab File ID: 10181309.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	4.21	Split Peak	redmondj	10/19/13 19:38

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Instrument ID: HP31 Analysis Batch Number: 116166

Lab Sample ID: STD 490-116166/3 IC Client Sample ID:

Date Analyzed: 10/22/13 17:06 Lab File ID: 1022003.D GC Column: ZB-5MSi ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	1.82	Poor chromatography	phelpsk	10/23/13 10:11
N-Nitrosodimethylamine	2.17	Poor chromatography	phelpsk	10/23/13 10:11
Pyridine	2.21	Poor chromatography	phelpsk	10/23/13 10:11
2-Fluorophenol (Surr)	3.22	Poor chromatography	phelpsk	10/23/13 10:11
Phenol	3.84	Poor chromatography	phelpsk	10/23/13 10:11

Lab Sample ID: STD 490-116166/6 IC Client Sample ID:

Date Analyzed: 10/22/13 17:28 Lab File ID: 1022004.D GC Column: ZB-5MSi ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
N-Nitrosodimethylamine	2.15	Poor chromatography	phelpsk	10/23/13 10:09
Pyridine	2.17	Poor chromatography	phelpsk	10/23/13 10:09
4-Nitrophenol	6.28	Poor chromatography	phelpsk	10/23/13 10:09

Lab Sample ID: STD 490-116166/7 IC Client Sample ID:

Date Analyzed: 10/22/13 17:51 Lab File ID: 1022005.D GC Column: ZB-5MSi ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
N-Nitrosodimethylamine	2.13	Poor chromatography	phelpsk	10/23/13 10:07
Pyridine	2.16	Poor chromatography	phelpsk	10/23/13 10:07

Lab Sample ID: STD 490-116166/8 IC Client Sample ID:

Date Analyzed: 10/22/13 18:14 Lab File ID: 1022006.D GC Column: ZB-5MSi ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
N-Nitrosodimethylamine	2.11	Poor chromatography	phelpsk	10/23/13 10:05

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Instrument ID: HP31 Analysis Batch Number: 116166

Lab Sample ID: STD 490-116166/10 IC Client Sample ID:

Date Analyzed: 10/22/13 19:00 Lab File ID: 1022008.D GC Column: ZB-5MSi ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Caprolactam	5.10	Poor chromatography	phelpsk	10/23/13 10:01
Indeno[1,2,3-cd]pyrene	13.22	Poor chromatography	phelpsk	10/23/13 10:02

Lab Sample ID: STD 490-116166/11 IC Client Sample ID:

Date Analyzed: 10/22/13 19:23 Lab File ID: 1022009.D GC Column: ZB-5MSi ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Caprolactam	5.10	Poor chromatography	phelpsk	10/23/13 10:02
Indeno[1,2,3-cd]pyrene	13.22	Poor chromatography	phelpsk	10/23/13 10:02

Lab Sample ID: ICV 490-116166/12 Client Sample ID:

Date Analyzed: 10/22/13 19:45 Lab File ID: 1022010.D GC Column: ZB-5MSi ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
bis (2-chloroisopropyl) ether	4.18	Poor chromatography	phelpsk	10/23/13 11:07
Indeno[1,2,3-cd]pyrene	13.21	Poor chromatography	phelpsk	10/23/13 11:07

SAMPLE SUMMARY

Client: Haley & Aldrich, Inc. Job Number: 490-39437-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
490-39437-1	MW-06-GW-001	Water	11/04/2013 1325	11/05/2013 0820
490-39437-3	MW-07-GW-001	Water	11/04/2013 1528	11/05/2013 0820
490-39437-4TB	Trip Blank	Water	11/04/2013 0001	11/05/2013 0820

EXECUTIVE SUMMARY - Detections

Client: Haley & Aldrich, Inc. Job Number: 490-39437-2

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
490-39437-1	**MW-06-GW-001**					
Trichloroethene		0.379	J B	1.00	ug/L	8260B
490-39437-3	**MW-07-GW-001**					
Trichloroethene		0.340	J B	1.00	ug/L	8260B
490-39437-4TB	**TRIP BLANK**					
Methylene Chloride		0.496	J	5.00	ug/L	8260B
Trichloroethene		0.366	J B	1.00	ug/L	8260B

METHOD SUMMARY

Client: Haley & Aldrich, Inc. Job Number: 490-39437-2

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL NSH	SW846 8260B	
Purge and Trap	TAL NSH		SW846 5030B
Semivolatile Organic Compounds (GC/MS)	TAL NSH	SW846 8270C	
Liquid-Liquid Extraction (Separatory Funnel)	TAL NSH		SW846 3510C

Lab References:

TAL NSH = TestAmerica Nashville

Method References:

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

METHOD / ANALYST SUMMARY

Client: Haley & Aldrich, Inc. Job Number: 490-39437-2

Method	Analyst	Analyst ID
SW846 8260B	Redmond, Jamilla	JJR
SW846 8270C	Phelps, Ken	KJP

Client: Haley & Aldrich, Inc. Job Number: 490-39437-2

Client Sample ID: **MW-06-GW-001**

Lab Sample ID: 490-39437-1 Date Sampled: 11/04/2013 1325
Client Matrix: Water Date Received: 11/05/2013 0820

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-121717	Instrument ID:	HP33
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	11131335.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/14/2013 0029			Final Weight/Volume:	5 mL
Prep Date:	11/14/2013 0029				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND		0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	ND		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND		2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00
1,1,2-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39437-2

Client Sample ID: **MW-06-GW-001**

Lab Sample ID: 490-39437-1 Date Sampled: 11/04/2013 1325
Client Matrix: Water Date Received: 11/05/2013 0820

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-121717	Instrument ID:	HP33
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	11131335.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/14/2013 0029			Final Weight/Volume:	5 mL
Prep Date:	11/14/2013 0029				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	0.379	J B	0.200	1.00
Trichlorofluoromethane	ND		0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	ND		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	91		70 - 130
Toluene-d8 (Surr)	109		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39437-2

Client Sample ID: **MW-07-GW-001**

Lab Sample ID: 490-39437-3 Date Sampled: 11/04/2013 1528
Client Matrix: Water Date Received: 11/05/2013 0820

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-121717	Instrument ID:	HP33
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	11131336.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/14/2013 0056			Final Weight/Volume:	5 mL
Prep Date:	11/14/2013 0056				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND		0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	ND		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND		2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00
1,1,2-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39437-2

Client Sample ID: **MW-07-GW-001**

Lab Sample ID: 490-39437-3 Date Sampled: 11/04/2013 1528
Client Matrix: Water Date Received: 11/05/2013 0820

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-121717	Instrument ID:	HP33
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	11131336.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/14/2013 0056			Final Weight/Volume:	5 mL
Prep Date:	11/14/2013 0056				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	0.340	J B	0.200	1.00
Trichlorofluoromethane	ND		0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	ND		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
Toluene-d8 (Surr)	108		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39437-2

Client Sample ID: **Trip Blank**

Lab Sample ID: 490-39437-4TB Date Sampled: 11/04/2013 0001
Client Matrix: Water Date Received: 11/05/2013 0820

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-121717	Instrument ID:	HP33
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	11131333.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/13/2013 2335			Final Weight/Volume:	5 mL
Prep Date:	11/13/2013 2335				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND		0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	ND		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	0.496	J	0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND		2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00
1,1,2-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39437-2

Client Sample ID: **Trip Blank**

Lab Sample ID: 490-39437-4TB Date Sampled: 11/04/2013 0001
Client Matrix: Water Date Received: 11/05/2013 0820

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	490-121717	Instrument ID:	HP33
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	11131333.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/13/2013 2335			Final Weight/Volume:	5 mL
Prep Date:	11/13/2013 2335				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Trichloroethene	0.366	J B	0.200	1.00
Trichlorofluoromethane	ND		0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	ND		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	92		70 - 130
Toluene-d8 (Surr)	108		70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39437-2

Client Sample ID: **MW-06-GW-001**

Lab Sample ID: 490-39437-1 Date Sampled: 11/04/2013 1325
Client Matrix: Water Date Received: 11/05/2013 0820

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	490-121052	Instrument ID:	HP31
Prep Method:	3510C	Prep Batch:	490-120924	Lab File ID:	1111009.D
Dilution:	1.0			Initial Weight/Volume:	1070 mL
Analysis Date:	11/11/2013 1845			Final Weight/Volume:	1 mL
Prep Date:	11/11/2013 0854			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.342	1.87
Acenaphthylene	ND		0.308	1.87
Acetophenone	ND		1.78	9.35
Anthracene	ND		0.825	1.87
Atrazine	ND		3.46	9.35
Benzaldehyde	ND		2.01	9.35
Benzo[a]anthracene	ND		0.303	1.87
Benzo[a]pyrene	ND		0.308	1.87
Benzo[b]fluoranthene	ND		0.394	1.87
Benzo[g,h,i]perylene	ND		0.268	1.87
Benzo[k]fluoranthene	ND		0.340	1.87
Biphenyl	ND		3.11	9.35
Bis(2-chloroethoxy)methane	ND		1.27	9.35
Bis(2-chloroethyl)ether	ND		1.30	9.35
bis (2-chloroisopropyl) ether	ND		1.83	9.35
Bis(2-ethylhexyl) phthalate	ND		1.93	9.35
4-Bromophenyl phenyl ether	ND		1.28	9.35
Butyl benzyl phthalate	ND		1.63	9.35
Caprolactam	ND		3.11	9.35
Carbazole	ND		0.279	9.35
4-Chloroaniline	ND		1.09	9.35
4-Chloro-3-methylphenol	ND		3.11	9.35
2-Chloronaphthalene	ND		1.53	9.35
2-Chlorophenol	ND		1.49	9.35
4-Chlorophenyl phenyl ether	ND		1.64	9.35
Chrysene	ND		1.02	1.87
Dibenz(a,h)anthracene	ND		0.602	1.87
Dibenzofuran	ND		0.317	9.35
3,3'-Dichlorobenzidine	ND		1.42	9.35
2,4-Dichlorophenol	ND		0.953	9.35
Diethyl phthalate	ND		1.51	9.35
2,4-Dimethylphenol	ND		0.931	9.35
Dimethyl phthalate	ND		1.69	9.35
Di-n-butyl phthalate	ND		1.40	9.35
4,6-Dinitro-2-methylphenol	ND		1.93	23.4
2,4-Dinitrophenol	ND		2.30	23.4
2,4-Dinitrotoluene	ND		3.11	9.35
2,6-Dinitrotoluene	ND		1.81	9.35
Di-n-octyl phthalate	ND		2.16	9.35
Fluoranthene	ND		0.324	1.87
Fluorene	ND		0.295	1.87
Hexachlorobenzene	ND		1.58	9.35
Hexachlorobutadiene	ND		3.11	9.35
Hexachlorocyclopentadiene	ND		3.11	9.35
Hexachloroethane	ND		3.11	9.35
Indeno[1,2,3-cd]pyrene	ND		0.356	1.87

Client: Haley & Aldrich, Inc. Job Number: 490-39437-2

Client Sample ID: **MW-06-GW-001**

Lab Sample ID: 490-39437-1 Date Sampled: 11/04/2013 1325
Client Matrix: Water Date Received: 11/05/2013 0820

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	490-121052	Instrument ID:	HP31
Prep Method:	3510C	Prep Batch:	490-120924	Lab File ID:	1111009.D
Dilution:	1.0			Initial Weight/Volume:	1070 mL
Analysis Date:	11/11/2013 1845			Final Weight/Volume:	1 mL
Prep Date:	11/11/2013 0854			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isophorone	ND		1.16	9.35
2-Methylnaphthalene	ND		0.291	1.87
2-Methylphenol	ND		3.11	9.35
3 & 4 Methylphenol	ND		3.11	9.35
Naphthalene	ND		0.372	1.87
2-Nitroaniline	ND		0.972	23.4
3-Nitroaniline	ND		1.73	23.4
4-Nitroaniline	ND		2.23	23.4
Nitrobenzene	ND		1.16	9.35
2-Nitrophenol	ND		1.47	9.35
4-Nitrophenol	ND		3.11	23.4
N-Nitrosodi-n-propylamine	ND		1.33	9.35
n-Nitrosodiphenylamine(as diphenylamine)	ND		1.35	9.35
Pentachlorophenol	ND		1.54	23.4
Phenanthrene	ND		0.321	1.87
Phenol	ND		3.22	9.35
Pyrene	ND		0.309	1.87
2,4,5-Trichlorophenol	ND		1.90	23.4
2,4,6-Trichlorophenol	ND		1.64	9.35

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	80		29 - 120
2-Fluorophenol (Surr)	45		10 - 120
Nitrobenzene-d5 (Surr)	80		27 - 120
Phenol-d5 (Surr)	27		10 - 120
Terphenyl-d14 (Surr)	78		13 - 120
2,4,6-Tribromophenol (Surr)	89		10 - 120

Client: Haley & Aldrich, Inc. Job Number: 490-39437-2

Client Sample ID: **MW-07-GW-001**

Lab Sample ID: 490-39437-3 Date Sampled: 11/04/2013 1528
Client Matrix: Water Date Received: 11/05/2013 0820

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	490-121052	Instrument ID:	HP31
Prep Method:	3510C	Prep Batch:	490-120924	Lab File ID:	1111010.D
Dilution:	1.0			Initial Weight/Volume:	1070 mL
Analysis Date:	11/11/2013 1909			Final Weight/Volume:	1 mL
Prep Date:	11/11/2013 0854			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.342	1.87
Acenaphthylene	ND		0.308	1.87
Acetophenone	ND		1.78	9.35
Anthracene	ND		0.825	1.87
Atrazine	ND		3.46	9.35
Benzaldehyde	ND		2.01	9.35
Benzo[a]anthracene	ND		0.303	1.87
Benzo[a]pyrene	ND		0.308	1.87
Benzo[b]fluoranthene	ND		0.394	1.87
Benzo[g,h,i]perylene	ND		0.268	1.87
Benzo[k]fluoranthene	ND		0.340	1.87
Biphenyl	ND		3.11	9.35
Bis(2-chloroethoxy)methane	ND		1.27	9.35
Bis(2-chloroethyl)ether	ND		1.30	9.35
bis (2-chloroisopropyl) ether	ND		1.83	9.35
Bis(2-ethylhexyl) phthalate	ND		1.93	9.35
4-Bromophenyl phenyl ether	ND		1.28	9.35
Butyl benzyl phthalate	ND		1.63	9.35
Caprolactam	ND		3.11	9.35
Carbazole	ND		0.279	9.35
4-Chloroaniline	ND		1.09	9.35
4-Chloro-3-methylphenol	ND		3.11	9.35
2-Chloronaphthalene	ND		1.53	9.35
2-Chlorophenol	ND		1.49	9.35
4-Chlorophenyl phenyl ether	ND		1.64	9.35
Chrysene	ND		1.02	1.87
Dibenz(a,h)anthracene	ND		0.602	1.87
Dibenzofuran	ND		0.317	9.35
3,3'-Dichlorobenzidine	ND		1.42	9.35
2,4-Dichlorophenol	ND		0.953	9.35
Diethyl phthalate	ND		1.51	9.35
2,4-Dimethylphenol	ND		0.931	9.35
Dimethyl phthalate	ND		1.69	9.35
Di-n-butyl phthalate	ND		1.40	9.35
4,6-Dinitro-2-methylphenol	ND		1.93	23.4
2,4-Dinitrophenol	ND		2.30	23.4
2,4-Dinitrotoluene	ND		3.11	9.35
2,6-Dinitrotoluene	ND		1.81	9.35
Di-n-octyl phthalate	ND		2.16	9.35
Fluoranthene	ND		0.324	1.87
Fluorene	ND		0.295	1.87
Hexachlorobenzene	ND		1.58	9.35
Hexachlorobutadiene	ND		3.11	9.35
Hexachlorocyclopentadiene	ND		3.11	9.35
Hexachloroethane	ND		3.11	9.35
Indeno[1,2,3-cd]pyrene	ND		0.356	1.87

Client: Haley & Aldrich, Inc. Job Number: 490-39437-2

Client Sample ID: **MW-07-GW-001**

Lab Sample ID: 490-39437-3 Date Sampled: 11/04/2013 1528
Client Matrix: Water Date Received: 11/05/2013 0820

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	490-121052	Instrument ID:	HP31
Prep Method:	3510C	Prep Batch:	490-120924	Lab File ID:	1111010.D
Dilution:	1.0			Initial Weight/Volume:	1070 mL
Analysis Date:	11/11/2013 1909			Final Weight/Volume:	1 mL
Prep Date:	11/11/2013 0854			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isophorone	ND		1.16	9.35
2-Methylnaphthalene	ND		0.291	1.87
2-Methylphenol	ND		3.11	9.35
3 & 4 Methylphenol	ND		3.11	9.35
Naphthalene	ND		0.372	1.87
2-Nitroaniline	ND		0.972	23.4
3-Nitroaniline	ND		1.73	23.4
4-Nitroaniline	ND		2.23	23.4
Nitrobenzene	ND		1.16	9.35
2-Nitrophenol	ND		1.47	9.35
4-Nitrophenol	ND		3.11	23.4
N-Nitrosodi-n-propylamine	ND		1.33	9.35
n-Nitrosodiphenylamine(as diphenylamine)	ND		1.35	9.35
Pentachlorophenol	ND		1.54	23.4
Phenanthrene	ND		0.321	1.87
Phenol	ND		3.22	9.35
Pyrene	ND		0.309	1.87
2,4,5-Trichlorophenol	ND		1.90	23.4
2,4,6-Trichlorophenol	ND		1.64	9.35

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	75		29 - 120
2-Fluorophenol (Surr)	42		10 - 120
Nitrobenzene-d5 (Surr)	76		27 - 120
Phenol-d5 (Surr)	26		10 - 120
Terphenyl-d14 (Surr)	77		13 - 120
2,4,6-Tribromophenol (Surr)	82		10 - 120

Client: Haley & Aldrich, Inc.

Job Number: 490-39437-2

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
490-39437-1	MW-06-GW-001	99	91	109	94
490-39437-3	MW-07-GW-001	101	93	108	93
490-39437-4	Trip Blank	100	92	108	94
MB 490-121717/4		99	92	107	92
LCS 490-121717/3		101	93	105	92
490-39480-E-1 MS		101	88	104	95
490-39480-F-1 MSD		101	87	104	96

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Client: Haley & Aldrich, Inc. Job Number: 490-39437-2

Surrogate Recovery Report

8270C Semivolatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	2FP %Rec	PHL %Rec	NBZ %Rec	FBP %Rec	TBP %Rec	TPH %Rec
490-39437-1	MW-06-GW-001	45	27	80	80	89	78
490-39437-3	MW-07-GW-001	42	26	76	75	82	77
MB 490-120924/1-A		44	27	79	76	82	88
LCS 490-120924/2-A		45	27	78	75	83	83

Surrogate	Acceptance Limits
2FP = 2-Fluorophenol (Surr)	10-120
PHL = Phenol-d5 (Surr)	10-120
NBZ = Nitrobenzene-d5 (Surr)	27-120
FBP = 2-Fluorobiphenyl (Surr)	29-120
TBP = 2,4,6-Tribromophenol (Surr)	10-120
TPH = Terphenyl-d14 (Surr)	13-120

Client: Haley & Aldrich, Inc. Job Number: 490-39437-2

Method Blank - Batch: 490-121717

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-121717/4	Analysis Batch:	490-121717	Instrument ID:	HP33
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11131332.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/13/2013 2308	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/13/2013 2308				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	ND		2.66	5.00
Benzene	ND		0.200	1.00
Bromochloromethane	ND		0.150	1.00
Bromodichloromethane	ND		0.170	1.00
Bromoform	ND		0.290	1.00
Bromomethane	ND		0.350	1.00
2-Butanone (MEK)	ND		2.64	50.0
Carbon disulfide	ND		0.220	1.00
Carbon tetrachloride	ND		0.180	1.00
Chlorobenzene	ND		0.180	1.00
Chlorodibromomethane	ND		0.250	1.00
Chloroethane	ND		0.360	1.00
Chloroform	ND		0.230	1.00
Chloromethane	ND		0.360	1.00
cis-1,2-Dichloroethene	ND		0.210	1.00
cis-1,3-Dichloropropene	ND		0.170	1.00
Cyclohexane	ND		0.220	5.00
1,2-Dibromo-3-Chloropropane	ND		0.940	10.0
1,2-Dibromoethane (EDB)	ND		0.210	1.00
1,2-Dichlorobenzene	ND		0.190	1.00
1,3-Dichlorobenzene	ND		0.180	1.00
1,4-Dichlorobenzene	ND		0.170	1.00
Dichlorodifluoromethane	ND		0.170	1.00
1,1-Dichloroethane	ND		0.240	1.00
1,2-Dichloroethane	ND		0.200	1.00
1,1-Dichloroethene	ND		0.250	1.00
1,2-Dichloropropane	ND		0.250	1.00
Ethylbenzene	ND		0.190	1.00
2-Hexanone	ND		1.28	5.00
Isopropylbenzene	ND		0.330	1.00
Methyl acetate	ND		0.720	10.0
Methylcyclohexane	ND		0.200	5.00
Methylene Chloride	ND		0.220	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.810	5.00
Methyl tert-butyl ether	ND		0.170	1.00
N-Propylbenzene	ND		0.170	1.00
Styrene	ND		0.280	1.00
1,1,2,2-Tetrachloroethane	ND		0.190	1.00
Tetrachloroethene	ND		0.140	1.00
Tetrahydrofuran	ND		2.84	5.00
Toluene	ND		0.170	1.00
trans-1,2-Dichloroethene	ND		0.230	1.00
trans-1,3-Dichloropropene	ND		0.170	1.00
1,2,4-Trichlorobenzene	ND		0.200	1.00
1,1,1-Trichloroethane	ND		0.190	1.00

Client: Haley & Aldrich, Inc. Job Number: 490-39437-2

Method Blank - Batch: 490-121717

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 490-121717/4	Analysis Batch:	490-121717	Instrument ID:	HP33
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11131332.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/13/2013 2308	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/13/2013 2308				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,2-Trichloroethane	ND		0.190	1.00
Trichloroethene	0.4298	J	0.200	1.00
Trichlorofluoromethane	ND		0.210	1.00
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		0.330	1.00
Vinyl chloride	ND		0.180	1.00
Xylenes, Total	ND		0.380	2.00

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	92	70 - 130
Dibromofluoromethane (Surr)	99	70 - 130
1,2-Dichloroethane-d4 (Surr)	92	70 - 130
Toluene-d8 (Surr)	107	70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39437-2

Lab Control Sample - Batch: 490-121717

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 490-121717/3	Analysis Batch:	490-121717	Instrument ID:	HP33
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11131330.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/13/2013 2215	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/13/2013 2215				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	100	81.40	81	54 - 145	
Benzene	20.0	19.50	98	80 - 121	
Bromochloromethane	20.0	20.53	103	78 - 129	
Bromodichloromethane	20.0	19.21	96	75 - 129	
Bromoform	20.0	16.68	83	46 - 145	
Bromomethane	20.0	21.02	105	41 - 150	
2-Butanone (MEK)	100	88.70	89	62 - 133	
Carbon disulfide	20.0	18.40	92	77 - 126	
Carbon tetrachloride	20.0	18.79	94	64 - 147	
Chlorobenzene	20.0	19.99	100	80 - 120	
Chlorodibromomethane	20.0	16.67	83	69 - 133	
Chloroethane	20.0	19.80	99	72 - 120	
Chloroform	20.0	18.66	93	73 - 129	
Chloromethane	20.0	18.40	92	12 - 150	
cis-1,2-Dichloroethene	20.0	19.99	100	76 - 125	
cis-1,3-Dichloropropene	20.0	20.42	102	74 - 140	
Cyclohexane	20.0	18.32	92	73 - 122	
1,2-Dibromo-3-Chloropropane	20.0	15.64	78	54 - 125	
1,2-Dibromoethane (EDB)	20.0	19.21	96	80 - 129	
1,2-Dichlorobenzene	20.0	19.87	99	80 - 121	
1,3-Dichlorobenzene	20.0	20.09	100	80 - 122	
1,4-Dichlorobenzene	20.0	19.67	98	80 - 120	
Dichlorodifluoromethane	20.0	21.40	107	37 - 127	
1,1-Dichloroethane	20.0	19.47	97	78 - 125	
1,2-Dichloroethane	20.0	18.43	92	77 - 121	
1,1-Dichloroethene	20.0	20.44	102	79 - 124	
1,2-Dichloropropane	20.0	19.26	96	75 - 120	
Ethylbenzene	20.0	19.25	96	80 - 130	
2-Hexanone	100	85.36	85	60 - 142	
Isopropylbenzene	20.0	19.70	99	80 - 141	
Methyl acetate	100	72.48	72	64 - 150	
Methylcyclohexane	20.0	19.02	95	71 - 129	
Methylene Chloride	20.0	19.71	99	79 - 123	
4-Methyl-2-pentanone (MIBK)	100	96.22	96	60 - 137	
Methyl tert-butyl ether	20.0	17.77	89	72 - 133	
N-Propylbenzene	20.0	18.19	91	75 - 129	
Styrene	20.0	20.20	101	80 - 127	
1,1,2,2-Tetrachloroethane	20.0	18.04	90	69 - 131	
Tetrachloroethene	20.0	20.35	102	80 - 126	
Tetrahydrofuran	40.0	31.21	78	51 - 124	
Toluene	20.0	20.70	103	80 - 126	
trans-1,2-Dichloroethene	20.0	18.94	95	79 - 126	
trans-1,3-Dichloropropene	20.0	18.61	93	63 - 134	
1,2,4-Trichlorobenzene	20.0	19.20	96	63 - 133	
1,1,1-Trichloroethane	20.0	18.27	91	78 - 135	
1,1,2-Trichloroethane	20.0	20.01	100	80 - 124	

Client: Haley & Aldrich, Inc. Job Number: 490-39437-2

Lab Control Sample - Batch: 490-121717

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 490-121717/3	Analysis Batch:	490-121717	Instrument ID:	HP33
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11131330.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/13/2013 2215	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/13/2013 2215				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Trichloroethene	20.0	20.90	104	80 - 123	
Trichlorofluoromethane	20.0	20.73	104	65 - 124	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	19.79	99	77 - 129	
Vinyl chloride	20.0	20.45	102	68 - 120	
Xylenes, Total	40.0	37.83	95	80 - 132	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	92	70 - 130
Dibromofluoromethane (Surr)	101	70 - 130
1,2-Dichloroethane-d4 (Surr)	93	70 - 130
Toluene-d8 (Surr)	105	70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39437-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-121717

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-39480-E-1 MS	Analysis Batch:	490-121717	Instrument ID:	HP33
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11131350.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/14/2013 0712			Final Weight/Volume:	5 mL
Prep Date:	11/14/2013 0712				
Leach Date:	N/A				

MSD Lab Sample ID:	490-39480-F-1 MSD	Analysis Batch:	490-121717	Instrument ID:	HP33
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11131351.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/14/2013 0739			Final Weight/Volume:	5 mL
Prep Date:	11/14/2013 0739				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	76	78	45 - 141	3	21		
Benzene	98	98	75 - 133	0	17		
Bromochloromethane	100	100	67 - 139	0	17		
Bromodichloromethane	99	101	70 - 140	1	18		
Bromoform	83	85	42 - 147	2	16		
Bromomethane	71	85	16 - 163	18	50		
2-Butanone (MEK)	83	84	50 - 138	1	19		
Carbon disulfide	92	92	48 - 152	0	21		
Carbon tetrachloride	105	104	62 - 164	1	19		
Chlorobenzene	101	101	80 - 129	0	14		
Chlorodibromomethane	86	86	66 - 140	1	15		
Chloroethane	96	95	58 - 137	1	20		
Chloroform	93	92	66 - 138	0	18		
Chloromethane	82	86	10 - 169	4	31		
cis-1,2-Dichloroethene	98	98	68 - 138	1	17		
cis-1,3-Dichloropropene	104	104	71 - 141	0	15		
Cyclohexane	99	98	58 - 144	1	16		
1,2-Dibromo-3-Chloropropane	75	84	52 - 126	11	24		
1,2-Dibromoethane (EDB)	93	92	75 - 137	1	15		
1,2-Dichlorobenzene	99	101	79 - 128	2	15		
1,3-Dichlorobenzene	99	100	77 - 131	1	15		
1,4-Dichlorobenzene	99	99	78 - 126	0	15		
Dichlorodifluoromethane	94	94	40 - 127	1	18		
1,1-Dichloroethane	98	97	71 - 139	1	17		
1,2-Dichloroethane	89	89	64 - 136	1	17		
1,1-Dichloroethene	102	107	70 - 142	4	17		
1,2-Dichloropropane	96	97	67 - 131	1	17		
Ethylbenzene	99	99	79 - 139	0	15		
2-Hexanone	91	94	50 - 150	2	15		
Isopropylbenzene	104	104	80 - 153	1	16		
Methyl acetate	59	61	30 - 165	4	31		
Methylcyclohexane	102	101	59 - 151	1	19		
Methylene Chloride	94	94	64 - 139	0	17		

Client: Haley & Aldrich, Inc. Job Number: 490-39437-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-121717

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-39480-E-1 MS	Analysis Batch:	490-121717	Instrument ID:	HP33
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11131350.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/14/2013 0712			Final Weight/Volume:	5 mL
Prep Date:	11/14/2013 0712				
Leach Date:	N/A				

MSD Lab Sample ID:	490-39480-F-1 MSD	Analysis Batch:	490-121717	Instrument ID:	HP33
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11131351.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/14/2013 0739			Final Weight/Volume:	5 mL
Prep Date:	11/14/2013 0739				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
4-Methyl-2-pentanone (MIBK)	100	103	50 - 147	3	17		
Methyl tert-butyl ether	86	88	66 - 141	2	16		
N-Propylbenzene	97	99	69 - 142	2	17		
Styrene	101	101	61 - 148	0	24		
1,1,2,2-Tetrachloroethane	91	91	56 - 143	1	20		
Tetrachloroethene	106	104	72 - 145	2	16		
Tetrahydrofuran	71	74	34 - 133	4	18		
Toluene	105	106	75 - 136	1	15		
trans-1,2-Dichloroethene	96	95	66 - 143	1	16		
trans-1,3-Dichloropropene	91	97	59 - 135	7	14		
1,2,4-Trichlorobenzene	100	113	60 - 136	12	19		
1,1,1-Trichloroethane	98	98	76 - 149	0	17		
1,1,2-Trichloroethane	96	96	74 - 134	0	15		
Trichloroethene	104	102	73 - 144	1	17		
Trichlorofluoromethane	102	102	58 - 139	0	18		
1,1,2-Trichloro-1,2,2-trichfluoroethane	104	104	72 - 148	1	18		
Vinyl chloride	97	98	56 - 129	1	17		
Xylenes, Total	97	97	74 - 141	0	15		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	95	96	70 - 130
Dibromofluoromethane (Surr)	101	101	70 - 130
1,2-Dichloroethane-d4 (Surr)	88	87	70 - 130
Toluene-d8 (Surr)	104	104	70 - 130

Client: Haley & Aldrich, Inc. Job Number: 490-39437-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-121717

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-39480-E-1 MS	Units: ug/L	MSD Lab Sample ID:	490-39480-F-1 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/14/2013 0712		Analysis Date:	11/14/2013 0739	
Prep Date:	11/14/2013 0712		Prep Date:	11/14/2013 0739	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Acetone	ND		250	250	189.9	194.7
Benzene	2.66		50.0	50.0	51.80	51.78
Bromochloromethane	ND		50.0	50.0	50.21	50.06
Bromodichloromethane	ND		50.0	50.0	49.73	50.40
Bromoform	ND		50.0	50.0	41.28	42.27
Bromomethane	ND		50.0	50.0	35.35	42.52
2-Butanone (MEK)	ND		250	250	208.1	210.0
Carbon disulfide	ND		50.0	50.0	45.90	46.04
Carbon tetrachloride	ND		50.0	50.0	52.33	51.97
Chlorobenzene	ND		50.0	50.0	50.25	50.26
Chlorodibromomethane	ND		50.0	50.0	43.18	42.77
Chloroethane	ND		50.0	50.0	48.09	47.56
Chloroform	ND		50.0	50.0	46.26	46.23
Chloromethane	ND		50.0	50.0	41.09	42.82
cis-1,2-Dichloroethene	ND		50.0	50.0	49.00	48.75
cis-1,3-Dichloropropene	ND		50.0	50.0	52.18	52.14
Cyclohexane	3.57	J	50.0	50.0	53.08	52.64
1,2-Dibromo-3-Chloropropane	ND		50.0	50.0	37.68	41.93
1,2-Dibromoethane (EDB)	ND		50.0	50.0	46.50	45.99
1,2-Dichlorobenzene	ND		50.0	50.0	49.39	50.53
1,3-Dichlorobenzene	ND		50.0	50.0	49.58	50.23
1,4-Dichlorobenzene	ND		50.0	50.0	49.52	49.58
Dichlorodifluoromethane	ND		50.0	50.0	47.19	46.80
1,1-Dichloroethane	ND		50.0	50.0	48.80	48.46
1,2-Dichloroethane	ND		50.0	50.0	44.62	44.39
1,1-Dichloroethene	ND		50.0	50.0	51.03	53.32
1,2-Dichloropropane	ND		50.0	50.0	47.78	48.39
Ethylbenzene	0.489	J	50.0	50.0	49.83	49.81
2-Hexanone	ND		250	250	228.6	233.8
Isopropylbenzene	0.891	J	50.0	50.0	52.65	52.96
Methyl acetate	ND		250	250	147.4	153.4
Methylcyclohexane	0.806	J	50.0	50.0	51.83	51.32
Methylene Chloride	ND		50.0	50.0	47.03	47.04
4-Methyl-2-pentanone (MIBK)	ND		250	250	251.1	258.1
Methyl tert-butyl ether	0.755	J	50.0	50.0	43.86	44.68
N-Propylbenzene	1.98		50.0	50.0	50.70	51.58
Styrene	ND		50.0	50.0	50.33	50.40
1,1,2,2-Tetrachloroethane	ND		50.0	50.0	45.31	45.65
Tetrachloroethene	ND		50.0	50.0	53.17	51.94
Tetrahydrofuran	ND		100	100	70.62	73.68
Toluene	1.43		50.0	50.0	54.13	54.45
trans-1,2-Dichloroethene	ND		50.0	50.0	48.22	47.52
trans-1,3-Dichloropropene	ND		50.0	50.0	45.35	48.47

Client: Haley & Aldrich, Inc. Job Number: 490-39437-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 490-121717

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	490-39480-E-1 MS	Units:	ug/L	MSD Lab Sample ID:	490-39480-F-1 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/14/2013 0712			Analysis Date:	11/14/2013 0739
Prep Date:	11/14/2013 0712			Prep Date:	11/14/2013 0739
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,2,4-Trichlorobenzene	ND		50.0	50.0	50.05	56.25
1,1,1-Trichloroethane	ND		50.0	50.0	49.09	49.15
1,1,2-Trichloroethane	ND		50.0	50.0	48.13	48.11
Trichloroethene	0.247	J	50.0	50.0	52.07	51.47
Trichlorofluoromethane	ND		50.0	50.0	51.06	50.95
1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		50.0	50.0	52.06	51.79
Vinyl chloride	ND		50.0	50.0	48.43	48.84
Xylenes, Total	1.33	J	100	100	98.62	98.47

Client: Haley & Aldrich, Inc. Job Number: 490-39437-2

Method Blank - Batch: 490-120924

Method: 8270C
Preparation: 3510C

Lab Sample ID:	MB 490-120924/1-A	Analysis Batch:	490-121052	Instrument ID:	HP31
Client Matrix:	Water	Prep Batch:	490-120924	Lab File ID:	1111006.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	11/11/2013 1649	Units:	ug/L	Final Weight/Volume:	1 mL
Prep Date:	11/11/2013 0854			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acenaphthene	ND		0.366	2.00
Acenaphthylene	ND		0.330	2.00
Acetophenone	ND		1.90	10.0
Anthracene	ND		0.883	2.00
Atrazine	ND		3.70	10.0
Benzaldehyde	ND		2.15	10.0
Benzo[a]anthracene	ND		0.324	2.00
Benzo[a]pyrene	ND		0.330	2.00
Benzo[b]fluoranthene	ND		0.422	2.00
Benzo[g,h,i]perylene	ND		0.287	2.00
Benzo[k]fluoranthene	ND		0.364	2.00
Biphenyl	ND		3.33	10.0
Bis(2-chloroethoxy)methane	ND		1.36	10.0
Bis(2-chloroethyl)ether	ND		1.39	10.0
bis (2-chloroisopropyl) ether	ND		1.96	10.0
Bis(2-ethylhexyl) phthalate	6.754	J	2.06	10.0
4-Bromophenyl phenyl ether	ND		1.37	10.0
Butyl benzyl phthalate	ND		1.74	10.0
Caprolactam	ND		3.33	10.0
Carbazole	ND		0.299	10.0
4-Chloroaniline	ND		1.17	10.0
4-Chloro-3-methylphenol	ND		3.33	10.0
2-Chloronaphthalene	ND		1.64	10.0
2-Chlorophenol	ND		1.59	10.0
4-Chlorophenyl phenyl ether	ND		1.75	10.0
Chrysene	ND		1.09	2.00
Dibenz(a,h)anthracene	ND		0.644	2.00
Dibenzofuran	ND		0.339	10.0
3,3'-Dichlorobenzidine	ND		1.52	10.0
2,4-Dichlorophenol	ND		1.02	10.0
Diethyl phthalate	ND		1.62	10.0
2,4-Dimethylphenol	ND		0.996	10.0
Dimethyl phthalate	ND		1.81	10.0
Di-n-butyl phthalate	ND		1.50	10.0
4,6-Dinitro-2-methylphenol	ND		2.07	25.0
2,4-Dinitrophenol	ND		2.46	25.0
2,4-Dinitrotoluene	ND		3.33	10.0
2,6-Dinitrotoluene	ND		1.94	10.0
Di-n-octyl phthalate	ND		2.31	10.0
Fluoranthene	ND		0.347	2.00
Fluorene	ND		0.316	2.00
Hexachlorobenzene	ND		1.69	10.0
Hexachlorobutadiene	ND		3.33	10.0
Hexachlorocyclopentadiene	ND		3.33	10.0
Hexachloroethane	ND		3.33	10.0

Client: Haley & Aldrich, Inc. Job Number: 490-39437-2

Method Blank - Batch: 490-120924

Method: 8270C
Preparation: 3510C

Lab Sample ID:	MB 490-120924/1-A	Analysis Batch:	490-121052	Instrument ID:	HP31
Client Matrix:	Water	Prep Batch:	490-120924	Lab File ID:	1111006.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	11/11/2013 1649	Units:	ug/L	Final Weight/Volume:	1 mL
Prep Date:	11/11/2013 0854			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Indeno[1,2,3-cd]pyrene	ND		0.381	2.00
Isophorone	ND		1.24	10.0
2-Methylnaphthalene	ND		0.311	2.00
2-Methylphenol	ND		3.33	10.0
3 & 4 Methylphenol	ND		3.33	10.0
Naphthalene	ND		0.398	2.00
2-Nitroaniline	ND		1.04	25.0
3-Nitroaniline	ND		1.85	25.0
4-Nitroaniline	ND		2.39	25.0
Nitrobenzene	ND		1.24	10.0
2-Nitrophenol	ND		1.57	10.0
4-Nitrophenol	ND		3.33	25.0
N-Nitrosodi-n-propylamine	ND		1.42	10.0
n-Nitrosodiphenylamine(as diphenylamine)	ND		1.44	10.0
Pentachlorophenol	ND		1.65	25.0
Phenanthrene	ND		0.343	2.00
Phenol	ND		3.45	10.0
Pyrene	ND		0.331	2.00
2,4,5-Trichlorophenol	ND		2.03	25.0
2,4,6-Trichlorophenol	ND		1.76	10.0

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	76	29 - 120
2-Fluorophenol (Surr)	44	10 - 120
Nitrobenzene-d5 (Surr)	79	27 - 120
Phenol-d5 (Surr)	27	10 - 120
Terphenyl-d14 (Surr)	88	13 - 120
2,4,6-Tribromophenol (Surr)	82	10 - 120

Lab Control Sample - Batch: 490-120924

Method: 8270C
Preparation: 3510C

Lab Sample ID:	LCS 490-120924/2-A	Analysis Batch:	490-121052	Instrument ID:	HP31
Client Matrix:	Water	Prep Batch:	490-120924	Lab File ID:	1111007.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	11/11/2013 1712	Units:	ug/L	Final Weight/Volume:	1 mL
Prep Date:	11/11/2013 0854			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	50.0	38.49	77	46 - 120	
Acenaphthylene	50.0	38.28	77	48 - 120	
Acetophenone	50.0	37.31	75	52 - 133	
Anthracene	50.0	39.80	80	58 - 130	
Atrazine	50.0	41.18	82	24 - 133	
Benzaldehyde	50.0	55.83	112	34 - 120	
Benzo[a]anthracene	50.0	39.01	78	57 - 120	
Benzo[a]pyrene	50.0	38.40	77	57 - 124	
Benzo[b]fluoranthene	50.0	38.31	77	51 - 125	
Benzo[g,h,i]perylene	50.0	39.54	79	51 - 123	
Benzo[k]fluoranthene	50.0	38.18	76	51 - 120	
Biphenyl	50.0	37.14	74	10 - 146	
Bis(2-chloroethoxy)methane	50.0	37.90	76	44 - 120	
Bis(2-chloroethyl)ether	50.0	34.53	69	47 - 120	
bis (2-chloroisopropyl) ether	50.0	26.72	53	44 - 120	
Bis(2-ethylhexyl) phthalate	50.0	42.53	85	47 - 138	
4-Bromophenyl phenyl ether	50.0	42.86	86	47 - 127	
Butyl benzyl phthalate	50.0	41.02	82	51 - 146	
Caprolactam	50.0	9.909	20	10 - 120	J
Carbazole	50.0	38.82	78	54 - 123	
4-Chloroaniline	50.0	39.44	79	44 - 120	
4-Chloro-3-methylphenol	50.0	39.82	80	44 - 120	
2-Chloronaphthalene	50.0	37.57	75	39 - 120	
2-Chlorophenol	50.0	36.50	73	40 - 120	
4-Chlorophenyl phenyl ether	50.0	38.72	77	50 - 120	
Chrysene	50.0	39.24	78	55 - 120	
Dibenz(a,h)anthracene	50.0	39.70	79	50 - 125	
Dibenzofuran	50.0	38.11	76	50 - 120	
3,3'-Dichlorobenzidine	50.0	38.98	78	46 - 129	
2,4-Dichlorophenol	50.0	40.94	82	38 - 120	
Diethyl phthalate	50.0	40.43	81	54 - 128	
2,4-Dimethylphenol	50.0	36.73	73	21 - 126	
Dimethyl phthalate	50.0	39.86	80	53 - 127	
Di-n-butyl phthalate	50.0	42.43	85	54 - 140	
4,6-Dinitro-2-methylphenol	100	80.33	80	19 - 150	
2,4-Dinitrophenol	100	74.15	74	20 - 150	
2,4-Dinitrotoluene	50.0	38.86	78	46 - 132	
2,6-Dinitrotoluene	50.0	40.06	80	54 - 128	
Di-n-octyl phthalate	50.0	41.88	84	50 - 142	
Fluoranthene	50.0	38.40	77	56 - 120	
Fluorene	50.0	38.92	78	52 - 120	
Hexachlorobenzene	50.0	40.48	81	48 - 131	
Hexachlorobutadiene	50.0	31.73	63	28 - 120	
Hexachlorocyclopentadiene	50.0	35.14	70	17 - 120	
Hexachloroethane	50.0	27.69	55	30 - 120	
Indeno[1,2,3-cd]pyrene	50.0	33.02	66	54 - 125	

Client: Haley & Aldrich, Inc. Job Number: 490-39437-2

Lab Control Sample - Batch: 490-120924

Method: 8270C
Preparation: 3510C

Lab Sample ID:	LCS 490-120924/2-A	Analysis Batch:	490-121052	Instrument ID:	HP31
Client Matrix:	Water	Prep Batch:	490-120924	Lab File ID:	1111007.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	11/11/2013 1712	Units:	ug/L	Final Weight/Volume:	1 mL
Prep Date:	11/11/2013 0854			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Isophorone	50.0	40.56	81	47 - 120	
2-Methylnaphthalene	50.0	35.49	71	31 - 120	
2-Methylphenol	50.0	32.34	65	38 - 120	
3 & 4 Methylphenol	50.0	29.57	59	33 - 120	
Naphthalene	50.0	33.79	68	37 - 120	
2-Nitroaniline	50.0	40.85	82	46 - 131	
3-Nitroaniline	50.0	36.46	73	54 - 121	
4-Nitroaniline	50.0	35.67	71	55 - 123	
Nitrobenzene	50.0	40.22	80	36 - 120	
2-Nitrophenol	50.0	41.63	83	32 - 120	
4-Nitrophenol	100	29.74	30	10 - 120	
N-Nitrosodi-n-propylamine	50.0	38.02	76	51 - 120	
n-Nitrosodiphenylamine(as diphenylamine)	50.0	51.13	102	58 - 149	
Pentachlorophenol	100	78.10	78	21 - 150	
Phenanthrene	50.0	38.89	78	56 - 120	
Phenol	50.0	14.67	29	14 - 120	
Pyrene	50.0	40.52	81	53 - 129	
2,4,5-Trichlorophenol	50.0	41.83	84	40 - 129	
2,4,6-Trichlorophenol	50.0	42.44	85	39 - 135	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	75	29 - 120
2-Fluorophenol (Surr)	45	10 - 120
Nitrobenzene-d5 (Surr)	78	27 - 120
Phenol-d5 (Surr)	27	10 - 120
Terphenyl-d14 (Surr)	83	13 - 120
2,4,6-Tribromophenol (Surr)	83	10 - 120

DATA REPORTING QUALIFIERS

Client: Haley & Aldrich, Inc. Job Number: 490-39437-2

Lab Section	Qualifier	Description
GC/MS VOA		
	B	Compound was found in the blank and sample.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC/MS Semi VOA		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Client: Haley & Aldrich, Inc. Job Number: 490-39437-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:490-121717					
LCS 490-121717/3	Lab Control Sample	T	Water	8260B	
MB 490-121717/4	Method Blank	T	Water	8260B	
490-39437-1	MW-06-GW-001	T	Water	8260B	
490-39437-3	MW-07-GW-001	T	Water	8260B	
490-39437-4TB	Trip Blank	T	Water	8260B	
490-39480-E-1 MS	Matrix Spike	T	Water	8260B	
490-39480-F-1 MSD	Matrix Spike Duplicate	T	Water	8260B	

Report Basis
T = Total

GC/MS Semi VOA					
Prep Batch: 490-120924					
LCS 490-120924/2-A	Lab Control Sample	T	Water	3510C	
MB 490-120924/1-A	Method Blank	T	Water	3510C	
490-39437-1	MW-06-GW-001	T	Water	3510C	
490-39437-3	MW-07-GW-001	T	Water	3510C	
Analysis Batch:490-121052					
LCS 490-120924/2-A	Lab Control Sample	T	Water	8270C	490-120924
MB 490-120924/1-A	Method Blank	T	Water	8270C	490-120924
490-39437-1	MW-06-GW-001	T	Water	8270C	490-120924
490-39437-3	MW-07-GW-001	T	Water	8270C	490-120924

Report Basis
T = Total

Client: Haley & Aldrich, Inc. Job Number: 490-39437-2

Laboratory Chronicle

Lab ID: 490-39437-1 **Client ID:** MW-06-GW-001

Sample Date/Time: 11/04/2013 13:25 Received Date/Time: 11/05/2013 08:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39437-A-1		490-121717		11/14/2013 00:29	1	TAL NSH	JJR
A:8260B	490-39437-A-1		490-121717		11/14/2013 00:29	1	TAL NSH	JJR
P:3510C	490-39437-V-1-A		490-121052	490-120924	11/11/2013 08:54	1	TAL NSH	RCH
A:8270C	490-39437-V-1-A		490-121052	490-120924	11/11/2013 18:45	1	TAL NSH	KJP

Lab ID: 490-39437-3 **Client ID:** MW-07-GW-001

Sample Date/Time: 11/04/2013 15:28 Received Date/Time: 11/05/2013 08:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39437-A-3		490-121717		11/14/2013 00:56	1	TAL NSH	JJR
A:8260B	490-39437-A-3		490-121717		11/14/2013 00:56	1	TAL NSH	JJR
P:3510C	490-39437-V-3-A		490-121052	490-120924	11/11/2013 08:54	1	TAL NSH	RCH
A:8270C	490-39437-V-3-A		490-121052	490-120924	11/11/2013 19:09	1	TAL NSH	KJP

Lab ID: 490-39437-4 **Client ID:** Trip Blank

Sample Date/Time: 11/04/2013 00:01 Received Date/Time: 11/05/2013 08:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39437-A-4		490-121717		11/13/2013 23:35	1	TAL NSH	JJR
A:8260B	490-39437-A-4		490-121717		11/13/2013 23:35	1	TAL NSH	JJR

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 490-121717/4		490-121717		11/13/2013 23:08	1	TAL NSH	JJR
A:8260B	MB 490-121717/4		490-121717		11/13/2013 23:08	1	TAL NSH	JJR
P:3510C	MB 490-120924/1-A		490-121052	490-120924	11/11/2013 08:54	1	TAL NSH	RCH
A:8270C	MB 490-120924/1-A		490-121052	490-120924	11/11/2013 16:49	1	TAL NSH	KJP

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 490-121717/3		490-121717		11/13/2013 22:15	1	TAL NSH	JJR
A:8260B	LCS 490-121717/3		490-121717		11/13/2013 22:15	1	TAL NSH	JJR
P:3510C	LCS 490-120924/2-A		490-121052	490-120924	11/11/2013 08:54	1	TAL NSH	RCH
A:8270C	LCS 490-120924/2-A		490-121052	490-120924	11/11/2013 17:12	1	TAL NSH	KJP

Client: Haley & Aldrich, Inc. Job Number: 490-39437-2

Laboratory Chronicle

Lab ID: MS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39480-E-1 MS		490-121717		11/14/2013 07:12	1	TAL NSH	JJR
A:8260B	490-39480-E-1 MS		490-121717		11/14/2013 07:12	1	TAL NSH	JJR

Lab ID: MSD **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	490-39480-F-1 MSD		490-121717		11/14/2013 07:39	1	TAL NSH	JJR
A:8260B	490-39480-F-1 MSD		490-121717		11/14/2013 07:39	1	TAL NSH	JJR

Lab References:
TAL NSH = TestAmerica Nashville

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
BNA ICV_MIX1_00008	03/13/14	09/26/13	Methanol, Lot ust methanol 11	100 mL	BNA_List1Std1_00011	5 mL	2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Anthracene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Biphenyl	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
					BNA_List1Std2_00012	5 mL	3,3'-Dichlorobenzidine	100 ug/mL
							Atrazine	100 ug/mL
							Caprolactam	100 ug/mL
					BNA_List1Std5_00009	5 mL	n-Nitrosodiphenylamine(as diphenylamine)	100 ug/mL
					BNA_List1Std6_00010	5 mL	Benzaldehyde	100 ug/mL
.BNA_List1Std1_00011	09/30/14		Restek, Lot A094002		(Purchased Reagent)		2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
.BNA_List1Std2_00012	08/31/14		Restek, Lot A093775		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Caprolactam	2000 ug/mL
.BNA_List1Std5_00009	02/28/15		Restek, Lot A093671		(Purchased Reagent)		n-Nitrosodiphenylamine(as diphenylamine)	2000 ug/mL
.BNA_List1Std6_00010	08/31/14		Restek, Lot A093656		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
BNA ICV_MIX1_00009	03/13/14	10/31/13	Methanol, Lot ust methanol 11	100 mL	BNA_List1Std1_00011	5 mL	1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dinitrobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,3,4,6-Tetrachlorophenol	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Biphenyl	100 ug/mL
							bis (2-chloroisopropyl) ether	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Hexadecane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					BNA_List1Std2_00012	5 mL	3,3'-Dichlorobenzidine	100 ug/mL
							Atrazine	100 ug/mL
							Benzidine	100 ug/mL
							Caprolactam	100 ug/mL
					BNA_List1Std3_00003	5 mL	Benzoic acid	200 ug/mL
					BNA_List1Std3_00007	5 mL	Benzoic acid	200 ug/mL
					BNA_List1Std4_00007	5 mL	Indene	100 ug/mL
					BNA_List1Std5_00009	5 mL	n-Nitrosodiphenylamine(as diphenylamine)	100 ug/mL
					BNA_List1Std6_00010	5 mL	Benzaldehyde	100 ug/mL
.BNA_List1Std1_00011	09/30/14		Restek, Lot A094002		(Purchased Reagent)		1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
.BNA_List1Std2_00012	08/31/14		Restek, Lot A093775		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
.BNA_List1Std3_00003	02/28/16		Restek, Lot A093654		(Purchased Reagent)		Benzoic acid	2000 ug/mL
.BNA_List1Std3_00007	02/28/16		Restek, Lot A093654		(Purchased Reagent)		Benzoic acid	2000 ug/mL
.BNA_List1Std4_00007	08/31/14		Restek, Lot A093668		(Purchased Reagent)		Indene	2000 ug/mL
.BNA_List1Std5_00009	02/28/15		Restek, Lot A093671		(Purchased Reagent)		n-Nitrosodiphenylamine(as diphenylamine)	2000 ug/mL
.BNA_List1Std6_00010	08/31/14		Restek, Lot A093656		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
BNA List 1cal_00002	04/17/14	10/17/13	MeCl2, Lot OP_MECL2_011	50 mL	BNA_List1Std1_00007	5 mL	1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	200 ug/mL
							Anthracene	200 ug/mL
							Azobenzene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Benzyl alcohol	200 ug/mL
							Biphenyl	200 ug/mL
							bis (2-chloroisopropyl) ether	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyridine	200 ug/mL
					BNA_List1Std2_00011	5 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Atrazine	200 ug/mL
							Benzidine	200 ug/mL
							Caprolactam	200 ug/mL
					BNA_List1Std3_00004	5 mL	Benzoic acid	200 ug/mL
					BNA_List1Std4_00006	5 mL	Indene	200 ug/mL
					BNA_List1Std5_00008	5 mL	n-Nitrosodiphenylamine(as diphenylamine)	200 ug/mL
					BNA_List1Std6_00009	5 mL	Benzaldehyde	200 ug/mL
					BNA_Surrogate_00002	2 mL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
.BNA_List1Std1_00007	08/31/14		Restek, Lot A093709		(Purchased Reagent)		1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Biphenyl	1000 ug/mL
							bis (2-chloroisopropyl) ether	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
.BNA_List1Std2_00011	01/31/15		Restek, Lot A097020		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Caprolactam	2000 ug/mL
.BNA_List1Std3_00004	02/28/16		Restek, Lot A093441		(Purchased Reagent)		Benzoic acid	2000 ug/mL
.BNA_List1Std4_00006	08/31/14		Restek, Lot A093730		(Purchased Reagent)		Indene	2000 ug/mL
.BNA_List1Std5_00008	02/28/15		Restek, Lot A093442		(Purchased Reagent)		n-Nitrosodiphenylamine(as diphenylamine)	2000 ug/mL
.BNA_List1Std6_00009	08/31/14		Restek, Lot A093445		(Purchased Reagent)		Benzaldehyde	2000 ug/mL
.BNA_Surrogate_00002	02/28/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
BNA_W_IS_2000_00002	12/15/13	06/15/13	n/a, Lot n/a	5 mL	BNA_S_IS_2000_00003	5 mL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.BNA_S_IS_2000_00003	02/28/18		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
OP_1:1 Sulfur_00003	04/07/14		Macron, Lot 0000053267		(Purchased Reagent)		Stock Chemical	50 %
OP_BNA_Surr_00011	09/30/15		Ultra, Lot CK-2907		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	50 ug/mL
							2-Fluorobiphenyl (Surr)	50 ug/mL
							2-Fluorophenol (Surr)	50 ug/mL
							Nitrobenzene-d5 (Surr)	50 ug/mL
							Phenol-d5 (Surr)	50 ug/mL
							Terphenyl-d14 (Surr)	50 ug/mL
OP_MeCl2_00019	12/04/14		J.T. Baker, Lot 0000058238		(Purchased Reagent)		Methylene Chloride	0 %
OP_NaOH_00006	08/03/15		VWR, Lot 310803		(Purchased Reagent)		Sodium Hydroxide	0 mL/L
OP_NaSO4_00015	04/15/18		J.T. Baker, Lot 0000051747		(Purchased Reagent)		Stock Chemical	0 %
V1_gases_I_00025	10/24/13	10/17/13	Methanol, Lot 0000038701	25 mL	V1_Gases_00003	1.25 mL	Bromomethane	100 ug/mL
							Butadiene	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Dichlorofluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.V1_Gases_00003	02/28/15		Restek, Lot A093341		(Purchased Reagent)		Bromomethane	2000000 ug/L
							Butadiene	2000000 ug/L
							Chloroethane	2000000 ug/L

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloromethane	2000000 ug/L
							Dichlorodifluoromethane	2000000 ug/L
							Dichlorofluoromethane	2000000 ug/L
							Trichlorofluoromethane	2000000 ug/L
							Vinyl chloride	2000000 ug/L
V1_gases_I_00028	11/16/13	11/09/13	Methanol, Lot 0000038701	25 mL	V1_Gases_00003	1.25 mL	Bromomethane	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.V1_Gases_00003	02/28/15		Restek, Lot A093341		(Purchased Reagent)		Bromomethane	2000000 ug/L
							Chloroethane	2000000 ug/L
							Chloromethane	2000000 ug/L
							Dichlorodifluoromethane	2000000 ug/L
							Trichlorofluoromethane	2000000 ug/L
							Vinyl chloride	2000000 ug/L
V1_Mega_I_00009	10/30/13	09/30/13	Methanol, Lot 123279	50 mL	V1_2-CEVE_00002	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					V1_Acrolein_00007	2.5 mL	Acrolein	250 ug/mL
					V1_Additions_00003	2.5 mL	1,2,3-Trimethylbenzene	100 ug/mL
							1,3,5-Trichlorobenzene	100 ug/mL
							2-Chloro-1,3-butadiene	100 ug/mL
							2-Nitropropane	200 ug/mL
							Acetonitrile	1000 ug/mL
							Benzyl chloride	100 ug/mL
							Ethanol	5000 ug/mL
							Ethyl acetate	200 ug/mL
							Ethyl acrylate	100 ug/mL
							Isopropyl alcohol	1000 ug/mL
							Isopropyl ether	100 ug/mL
							Methacrylonitrile	1000 ug/mL
							Methyl methacrylate	200 ug/mL
							n-Butanol	2500 ug/mL
							n-Butyl acetate	100 ug/mL
							Propionitrile	1000 ug/mL
							Tert-amyl methyl ether	100 ug/mL
							Tert-butyl ethyl ether	100 ug/mL
					V1_cyclohxnon_00002	2.5 mL	Cyclohexanone	1000 ug/mL
					V1_Keytones_00002	2.5 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					V1_Megamix_00005	2.5 mL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloro-1,2,2-trichfluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane (EDB)	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromochloromethane	100 ug/mL
							Bromodichloromethane	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	1000 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
					V1_vnl acetat_00003	2.5 mL	Vinyl acetate	200 ug/mL
.V1_2-CEVE_00002	02/28/16		Restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000000 ug/L
.V1_Acrolein_00007	12/31/13		Restek, Lot A097557		(Purchased Reagent)		Acrolein	5000000 ug/L
.V1_Additions_00003	08/30/14		Restek, Lot A093634		(Purchased Reagent)		1,2,3-Trimethylbenzene	2000000 ug/L
							1,3,5-Trichlorobenzene	2000000 ug/L
							2-Chloro-1,3-butadiene	2000000 ug/L
							2-Nitropropane	4000000 ug/L
							Acetonitrile	20000000 ug/L
							Benzyl chloride	2000000 ug/L
							Ethanol	100000000 ug/L
							Ethyl acetate	4000000 ug/L
							Ethyl acrylate	2000000 ug/L
							Isopropyl alcohol	20000000 ug/L
							Isopropyl ether	2000000 ug/L
							Methacrylonitrile	20000000 ug/L
							Methyl methacrylate	4000000 ug/L
							n-Butanol	50000000 ug/L
							n-Butyl acetate	2000000 ug/L
							Propionitrile	20000000 ug/L
							Tert-amyl methyl ether	2000000 ug/L
							Tert-butyl ethyl ether	2000000 ug/L
.V1_cyclohxnon_00002	02/28/16		Restek, Lot A093361		(Purchased Reagent)		Cyclohexanone	20000000 ug/L
.V1_Keytones_00002	02/28/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000000 ug/L
							2-Hexanone	10000000 ug/L
							4-Methyl-2-pentanone (MIBK)	10000000 ug/L
							Acetone	10000000 ug/L

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.V1_Megamix_00005	02/28/16		Restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000000 ug/L
							1,1,1-Trichloroethane	2000000 ug/L
							1,1,2,2-Tetrachloroethane	2000000 ug/L
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2000000 ug/L
							1,1,2-Trichloroethane	2000000 ug/L
							1,1-Dichloroethane	2000000 ug/L
							1,1-Dichloroethene	2000000 ug/L
							1,1-Dichloropropene	2000000 ug/L
							1,2,3-Trichlorobenzene	2000000 ug/L
							1,2,3-Trichloropropane	2000000 ug/L
							1,2,4-Trichlorobenzene	2000000 ug/L
							1,2,4-Trimethylbenzene	2000000 ug/L
							1,2-Dibromo-3-Chloropropane	2000000 ug/L
							1,2-Dibromoethane (EDB)	2000000 ug/L
							1,2-Dichlorobenzene	2000000 ug/L
							1,2-Dichloroethane	2000000 ug/L
							1,2-Dichloropropane	2000000 ug/L
							1,3,5-Trimethylbenzene	2000000 ug/L
							1,3-Dichlorobenzene	2000000 ug/L
							1,3-Dichloropropane	2000000 ug/L
							1,4-Dichlorobenzene	2000000 ug/L
							1,4-Dioxane	40000000 ug/L
							2,2-Dichloropropane	2000000 ug/L
							2-Chlorotoluene	2000000 ug/L
							2-Methyl-2-propanol	20000000 ug/L
							3-Chloro-1-propene	2000000 ug/L
							4-Chlorotoluene	2000000 ug/L
							4-Isopropyltoluene	2000000 ug/L
							Acrylonitrile	20000000 ug/L
							Benzene	2000000 ug/L
							Bromobenzene	2000000 ug/L
							Bromochloromethane	2000000 ug/L
							Bromodichloromethane	2000000 ug/L
							Bromoform	2000000 ug/L
							Carbon disulfide	2000000 ug/L
							Carbon tetrachloride	2000000 ug/L
							Chlorobenzene	2000000 ug/L
							Chlorodibromomethane	2000000 ug/L
							Chloroform	2000000 ug/L
							cis-1,2-Dichloroethene	2000000 ug/L
							cis-1,3-Dichloropropene	2000000 ug/L
							Cyclohexane	2000000 ug/L
							Dibromomethane	2000000 ug/L
							Ethyl ether	2000000 ug/L
							Ethyl methacrylate	2000000 ug/L
							Ethylbenzene	2000000 ug/L
							Hexachlorobutadiene	2000000 ug/L

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexane	2000000 ug/L
							Iodomethane	2000000 ug/L
							Isobutyl alcohol	20000000 ug/L
							Isopropylbenzene	2000000 ug/L
							m-Xylene & p-Xylene	2000000 ug/L
							Methyl acetate	10000000 ug/L
							Methyl tert-butyl ether	2000000 ug/L
							Methylcyclohexane	2000000 ug/L
							Methylene Chloride	2000000 ug/L
							n-Butylbenzene	2000000 ug/L
							n-Heptane	2000000 ug/L
							N-Propylbenzene	2000000 ug/L
							Naphthalene	2000000 ug/L
							o-Xylene	2000000 ug/L
							sec-Butylbenzene	2000000 ug/L
							Styrene	2000000 ug/L
							tert-Butylbenzene	2000000 ug/L
							Tetrachloroethene	2000000 ug/L
							Tetrahydrofuran	4000000 ug/L
							Toluene	2000000 ug/L
							trans-1,2-Dichloroethene	2000000 ug/L
							trans-1,3-Dichloropropene	2000000 ug/L
							trans-1,4-Dichloro-2-butene	2000000 ug/L
							Trichloroethene	2000000 ug/L
.V1_vnl acetat_00003	12/31/13		Restek, Lot A096198		(Purchased Reagent)		Vinyl acetate	4000000 ug/L
V1_Mega_I_00010	11/26/13	10/26/13	Methanol, Lot 0000049909	50 mL	V1_Keytones_00003	2.5 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					V1_Megamix_00005	2.5 mL	1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane (EDB)	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							Benzene	100 ug/mL
							Bromochloromethane	100 ug/mL
							Bromodichloromethane	100 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Ethylbenzene	100 ug/mL
							Isopropylbenzene	100 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Styrene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							Trichloroethene	100 ug/mL
							Xylenes, Total	200 ug/mL
.V1_Keytones_00003	02/28/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000000 ug/L
							2-Hexanone	10000000 ug/L
							4-Methyl-2-pentanone (MIBK)	10000000 ug/L
							Acetone	10000000 ug/L
.V1_Megamix_00005	02/28/16		Restek, Lot A093581		(Purchased Reagent)		1,1,1-Trichloroethane	2000000 ug/L
							1,1,2,2-Tetrachloroethane	2000000 ug/L
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2000000 ug/L
							1,1,2-Trichloroethane	2000000 ug/L
							1,1-Dichloroethane	2000000 ug/L
							1,1-Dichloroethene	2000000 ug/L
							1,2,4-Trichlorobenzene	2000000 ug/L
							1,2-Dibromo-3-Chloropropane	2000000 ug/L
							1,2-Dibromoethane (EDB)	2000000 ug/L
							1,2-Dichlorobenzene	2000000 ug/L
							1,2-Dichloroethane	2000000 ug/L
							1,2-Dichloropropane	2000000 ug/L
							1,3-Dichlorobenzene	2000000 ug/L
							1,4-Dichlorobenzene	2000000 ug/L
							Benzene	2000000 ug/L
							Bromochloromethane	2000000 ug/L
							Bromodichloromethane	2000000 ug/L
							Bromoform	2000000 ug/L
							Carbon disulfide	2000000 ug/L

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	2000000 ug/L
							Chlorobenzene	2000000 ug/L
							Chlorodibromomethane	2000000 ug/L
							Chloroform	2000000 ug/L
							cis-1,2-Dichloroethene	2000000 ug/L
							cis-1,3-Dichloropropene	2000000 ug/L
							Cyclohexane	2000000 ug/L
							Ethylbenzene	2000000 ug/L
							Isopropylbenzene	2000000 ug/L
							Methyl acetate	10000000 ug/L
							Methyl tert-butyl ether	2000000 ug/L
							Methylcyclohexane	2000000 ug/L
							Methylene Chloride	2000000 ug/L
							N-Propylbenzene	2000000 ug/L
							Styrene	2000000 ug/L
							Tetrachloroethene	2000000 ug/L
							Tetrahydrofuran	4000000 ug/L
							Toluene	2000000 ug/L
							trans-1,2-Dichloroethene	2000000 ug/L
							trans-1,3-Dichloropropene	2000000 ug/L
							Trichloroethene	2000000 ug/L
							Xylenes, Total	4000000 ug/L
V2_gases_I_00012	10/24/13	10/17/13	Methanol, Lot 124454	25 mL	V2_Gases_00003	1.25 mL	Bromomethane	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.V2_Gases_00003	02/28/15		Restek, Lot A093618		(Purchased Reagent)		Bromomethane	2000000 ug/L
							Chloroethane	2000000 ug/L
							Chloromethane	2000000 ug/L
							Dichlorodifluoromethane	2000000 ug/L
							Trichlorofluoromethane	2000000 ug/L
							Vinyl chloride	2000000 ug/L
V2_Mega_I_00005	10/20/13	09/20/13	Methanol, Lot 124454	10 mL	V2_Keytones_00001	0.5 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					V2_Megamix_00002	0.5 mL	1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromoethane (EDB)	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							Benzene	100 ug/mL
							Bromochloromethane	100 ug/mL
							Bromodichloromethane	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Ethylbenzene	100 ug/mL
							Isopropylbenzene	100 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Styrene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							Trichloroethene	100 ug/mL
							Xylenes, Total	200 ug/mL
.V2_Keytones_00001	02/28/16		Restek, Lot A093472		(Purchased Reagent)		2-Butanone (MEK)	10000000 ug/L
							2-Hexanone	10000000 ug/L
							4-Methyl-2-pentanone (MIBK)	10000000 ug/L
							Acetone	10000000 ug/L
.V2_Megamix_00002	02/28/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1-Trichloroethane	2000000 ug/L
							1,1,2,2-Tetrachloroethane	2000000 ug/L
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2000000 ug/L
							1,1,2-Trichloroethane	2000000 ug/L
							1,1-Dichloroethane	2000000 ug/L
							1,1-Dichloroethene	2000000 ug/L
							1,2,4-Trichlorobenzene	2000000 ug/L
							1,2-Dibromo-3-Chloropropane	2000000 ug/L
							1,2-Dibromoethane (EDB)	2000000 ug/L
							1,2-Dichlorobenzene	2000000 ug/L

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	2000000 ug/L
							1,2-Dichloropropane	2000000 ug/L
							1,3-Dichlorobenzene	2000000 ug/L
							1,4-Dichlorobenzene	2000000 ug/L
							Benzene	2000000 ug/L
							Bromochloromethane	2000000 ug/L
							Bromodichloromethane	2000000 ug/L
							Bromoform	2000000 ug/L
							Carbon disulfide	2000000 ug/L
							Carbon tetrachloride	2000000 ug/L
							Chlorobenzene	2000000 ug/L
							Chlorodibromomethane	2000000 ug/L
							Chloroform	2000000 ug/L
							cis-1,2-Dichloroethene	2000000 ug/L
							cis-1,3-Dichloropropene	2000000 ug/L
							Cyclohexane	2000000 ug/L
							Ethylbenzene	2000000 ug/L
							Isopropylbenzene	2000000 ug/L
							Methyl acetate	10000000 ug/L
							Methyl tert-butyl ether	2000000 ug/L
							Methylcyclohexane	2000000 ug/L
							Methylene Chloride	2000000 ug/L
							N-Propylbenzene	2000000 ug/L
							Styrene	2000000 ug/L
							Tetrachloroethene	2000000 ug/L
							Tetrahydrofuran	4000000 ug/L
							Toluene	2000000 ug/L
							trans-1,2-Dichloroethene	2000000 ug/L
							trans-1,3-Dichloropropene	2000000 ug/L
							Trichloroethene	2000000 ug/L
							Xylenes, Total	4000000 ug/L
VOA_ISSS150_W_00004	11/01/13	05/01/13	Methanol, Lot 124454	75 mL	VOA_IS Mix_S_00004	4.5 mL	1,4-Dichlorobenzene-d4	150 ug/mL
							Chlorobenzene-d5	150 ug/mL
							Fluorobenzene (IS)	150 ug/mL
					VOA_SS Mix_S_00003	4.5 mL	1,2-Dichloroethane-d4 (Surr)	150 ug/mL
							4-Bromofluorobenzene (Surr)	150 ug/mL
							Dibromofluoromethane (Surr)	150 ug/mL
							Toluene-d8 (Surr)	150 ug/mL
.VOA_IS Mix_S_00004	03/31/14	Ultra Scientific, Lot CJ-0470			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500000 ug/L
							Chlorobenzene-d5	2500000 ug/L
							Fluorobenzene (IS)	2500000 ug/L
.VOA_SS Mix_S_00003	09/30/14	Ultra Scientific, Lot CJ-3029			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500000 ug/L
							4-Bromofluorobenzene (Surr)	2500000 ug/L
							Dibromofluoromethane (Surr)	2500000 ug/L
							Toluene-d8 (Surr)	2500000 ug/L
VOA_ISSS150_W_00006	11/19/13	05/01/13	Methanol, Lot 124454	75 mL	VOA_SS Mix_S_00003	4.5 mL	1,2-Dichloroethane-d4 (Surr)	150 ug/mL
							4-Bromofluorobenzene (Surr)	150 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromofluoromethane (Surr)	150 ug/mL
							Toluene-d8 (Surr)	150 ug/mL
.VOA_SS Mix_S_00003	09/30/14	Ultra Scientific, Lot CJ-3029			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500000 ug/L
							4-Bromofluorobenzene (Surr)	2500000 ug/L
							Dibromofluoromethane (Surr)	2500000 ug/L
							Toluene-d8 (Surr)	2500000 ug/L

10	1,2-Dichlorobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 95-50-1.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
11	Benzyl alcohol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 100-51-6.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
12	Bis(2-chloroisopropyl)ether	720.0	µg/mL	+/-	4.1861	µg/mL	Gravimetric
	CAS # 108-60-1.SEC			+/-	6.3329	µg/mL	Unstressed
	Purity 72%			+/-	12.5198	µg/mL	Stressed
13	2-Methylphenol (o-cresol)	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 95-48-7.SEC			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
14	Acetophenone	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 98-86-2.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
15	Hexachloroethane	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 67-72-1.SEC			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
16	N-Nitroso-di-n-propylamine	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 621-64-7.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
17	4-Methylphenol (p-cresol)	500.0	µg/mL	+/-	2.9138	µg/mL	Gravimetric
	CAS # 106-44-5.SEC			+/-	4.4023	µg/mL	Unstressed
	Purity 99%			+/-	8.6966	µg/mL	Stressed
18	3-Methylphenol (m-cresol)	500.0	µg/mL	+/-	2.9138	µg/mL	Gravimetric
	CAS # 108-39-4.SEC			+/-	4.4023	µg/mL	Unstressed
	Purity 99%			+/-	8.6966	µg/mL	Stressed
19	n-Decane (C10)	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 124-18-5.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
20	n-Octadecane (C18)	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 593-45-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
21	Nitrobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 98-95-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
22	Isophorone	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 78-59-1.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
23	2-Nitrophenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 88-75-5.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
24	2,4-Dimethylphenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 105-67-9.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
25	Bis(2-chloroethoxy)methane	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 111-91-1			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
26	2,4-Dichlorophenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 120-83-2.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
27	1,2,4-Trichlorobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 120-82-1.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
28	Naphthalene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 91-20-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed

29	4-Chloroaniline	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 106-47-8.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
30	Hexachlorobutadiene	1,000.0	µg/mL	+/-	5.8139	µg/mL	Gravimetric
	CAS # 87-68-3.SEC			+/-	8.7954	µg/mL	Unstressed
	Purity 97%			+/-	17.3881	µg/mL	Stressed
31	2-Methylnaphthalene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 91-57-6.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
32	4-Chloro-3-methylphenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 59-50-7.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
33	1-Methylnaphthalene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 90-12-0.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
34	1,2,4,5-Tetrachlorobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 95-94-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
35	Hexachlorocyclopentadiene	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 77-47-4.SEC			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
36	2,4,6-Trichlorophenol	1,000.0	µg/mL	+/-	5.8140	µg/mL	Gravimetric
	CAS # 88-06-2.SEC			+/-	8.7956	µg/mL	Unstressed
	Purity 98%			+/-	17.3885	µg/mL	Stressed
37	2,4,5-Trichlorophenol	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 95-95-4.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
38	2-Chloronaphthalene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 91-58-7.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
39	Biphenyl	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 92-52-4.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
40	2-Nitroaniline	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 88-74-4.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
41	Acenaphthylene	1,000.0	µg/mL	+/-	5.8139	µg/mL	Gravimetric
	CAS # 208-96-8.SEC			+/-	8.7954	µg/mL	Unstressed
	Purity 97%			+/-	17.3881	µg/mL	Stressed
42	1,3-Dinitrobenzene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 99-65-0.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
43	Dimethylphthalate	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 131-11-3.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
44	2,6-Dinitrotoluene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 606-20-2.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
45	Acenaphthene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 83-32-9.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
46	3-Nitroaniline	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 99-09-2.SEC			+/-	8.7957	µg/mL	Unstressed
	Purity 99%			+/-	17.3886	µg/mL	Stressed
47	2,4-Dinitrophenol	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 51-28-5.SEC			+/-	17.5913	µg/mL	Unstressed
	Purity 99%			+/-	34.7772	µg/mL	Stressed

RESTEK CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

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ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567673 **Lot No.:** A097020

Description : 8270 List 1 / Std #2 Amines

8270 List 1 / Std #2 Amines 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : January 31, 2015 **Storage:** 10°C or colder

Handling: Contains carcinogen

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)	
1	epsilon-Caprolactam	2,001.2 µg/mL	+/- 11.6351 µg/mL	Gravimetric
	CAS # 105-60-2 (Lot 10000218)		+/- 13.3830 µg/mL	Unstressed
	Purity 99%		+/- 32.8662 µg/mL	Stressed
2	Atrazine	2,003.0 µg/mL	+/- 11.6457 µg/mL	Gravimetric
	CAS # 1912-24-9 (Lot TZ8ED)		+/- 13.3952 µg/mL	Unstressed
	Purity 98%		+/- 32.8961 µg/mL	Stressed
3	Benzidine	2,005.0 µg/mL	+/- 11.6572 µg/mL	Gravimetric
	CAS # 92-87-5 (Lot 130627JLM)		+/- 13.4085 µg/mL	Unstressed
	Purity 99%		+/- 32.9286 µg/mL	Stressed
4	3,3'-Dichlorobenzidine	2,012.0 µg/mL	+/- 11.6979 µg/mL	Gravimetric
	CAS # 91-94-1 (Lot 130701JLM)		+/- 13.4553 µg/mL	Unstressed
	Purity 99%		+/- 33.0436 µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

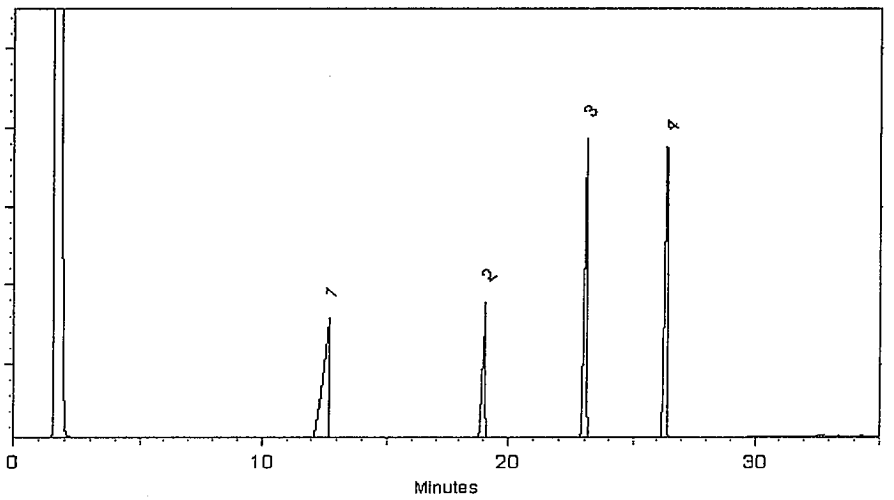
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Kendra Swope - Mix Technician

Date Mixed: 30-Jul-2013 **Balance:** 1128360905

Jodi E. Breon - QA Analyst

Date Passed: 12-Aug-2013

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK

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Bellefonte, PA 16823-8812
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Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567673.sec **Lot No.:** A093775

Description : 8270 List 1 / Std #2 Amines

8270 List 1 / Std #2 Amines 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : August 2014 **Storage:** 10°C or colder

Handling: Contains carcinogen

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	epsilon-Caprolactam	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 105-60-2.SEC		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed
2	Atrazine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 1912-24-9.SEC		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed
3	Benzidine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 92-87-5.SEC		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed
4	3,3'-Dichlorobenzidine	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 91-94-1.SEC		+/- 17.5913	µg/mL	Unstressed
	Purity 99%		+/- 34.7772	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

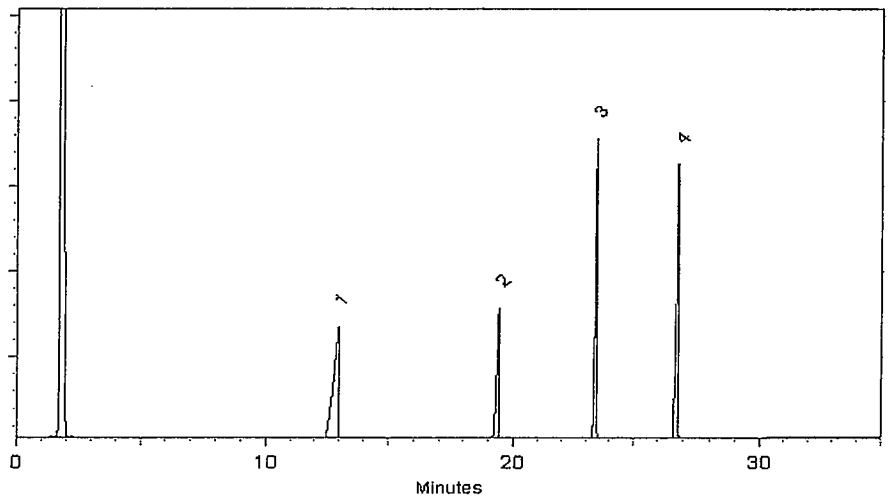
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 11-Mar-2013 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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854550
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Exp:02/28/16 Prpd:JLS Opn:07/13/13
S_2000PPM_2ndSource_Benzo

JLS Rec 7/13/13

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567674.sec **Lot No.:** A093654

Description : 8270 List 1 / Std #3 Benzoic Acid

8270 List 1 / Std #3 Benzoic Acid 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : February 2016 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Benzoic acid	2,000.0	µg/mL	+/- 11.6284	µg/mL	Gravimetric
	CAS # 65-85-0.SEC			+/- 96.5270	µg/mL	Unstressed
	Purity 97%			+/- 96.6098	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

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Catalog No. : 567674.sec **Lot No.:** A093654

Description : 8270 List 1 / Std #3 Benzoic Acid

8270 List 1 / Std #3 Benzoic Acid 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : February 2016 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)		
1	Benzoic acid	2,000.0 µg/mL	+/- 11.6284	µg/mL	Gravimetric
	CAS # 65-85-0.SEC		+/- 96.5270	µg/mL	Unstressed
	Purity 97%		+/- 96.6098	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

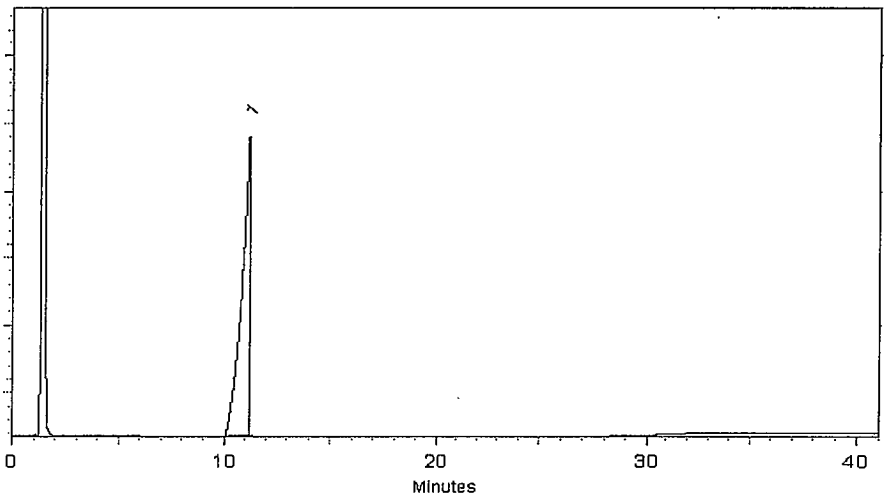
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 22-Feb-2013 Balance: 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567675 **Lot No.:** A093730

Description : 8270 List 1 / Std #4 Indene

8270 List 1 / Std #4 Indene 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : August 2014 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Indene	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 95-13-6		+/- 24.1076	µg/mL	Unstressed
	Purity 99%		+/- 27.2017	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

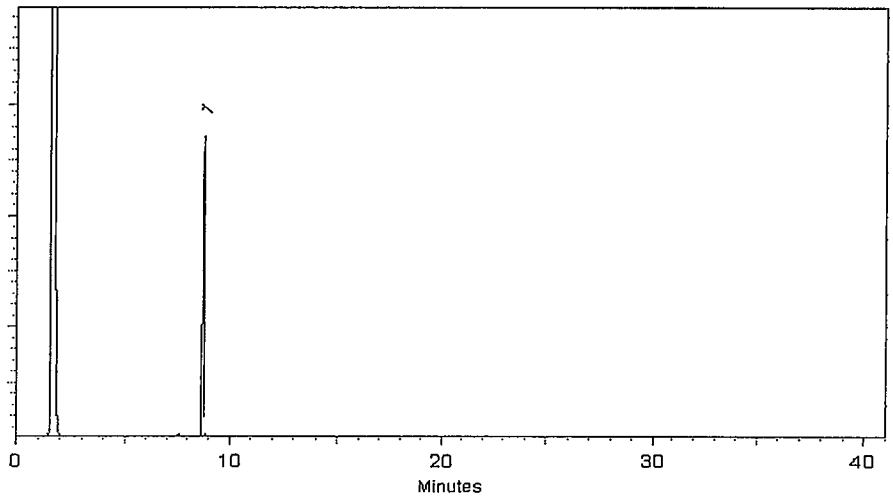
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 27-Feb-2013 Balance: 1128342313

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567675.sec **Lot No.:** A093668

Description : 8270 List 1 / Std #4 Indene

8270 List 1 / Std #4 Indene 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : August 2014 **Storage:** 10°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Indene	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 95-13-6.SEC		+/- 24.1076	µg/mL	Unstressed
	Purity 99%		+/- 27.2017	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

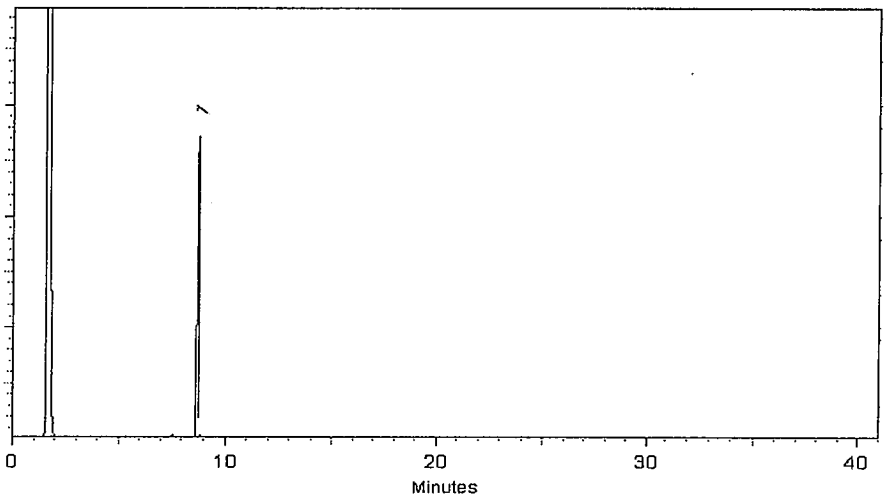
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 27-Feb-2013 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567676 **Lot No.:** A093442

Description : 8270 List 1 / Std #5 N-Nitrosodiphenylamine

8270 List 1 / Std #5 N-Nitrosodiphenylamine 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : February 2015 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)	
1	N-Nitrosodiphenylamine	2,000.0 µg/mL	+/- 11.6282 µg/mL	Gravimetric
	CAS # 86-30-6		+/- 17.5914 µg/mL	Unstressed
	Purity 97%		+/- 34.7774 µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

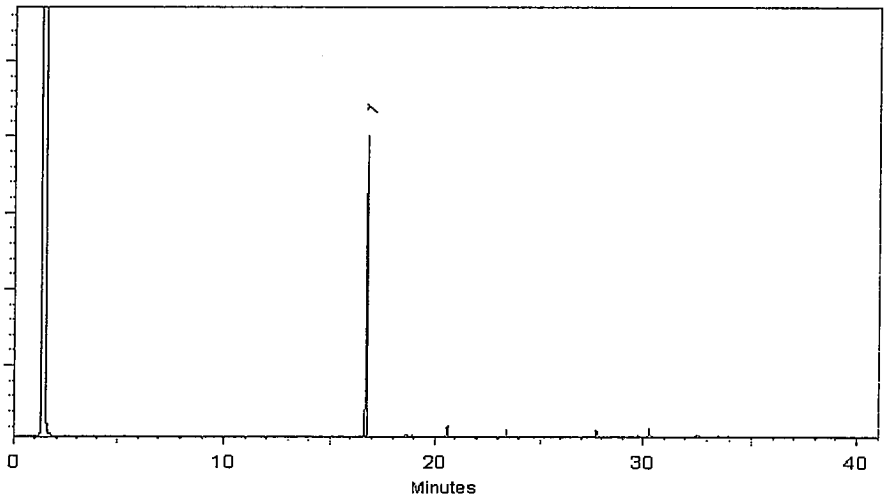
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 25-Feb-2013 Balance: 1128342313

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
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0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567676.sec **Lot No.:** A093671

Description : 8270 List 1 / Std #5 N-Nitrosodiphenylamine

8270 List 1 / Std #5 N-Nitrosodiphenylamine 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : February 2015 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	N-Nitrosodiphenylamine	1,999.9 µg/mL	+/- 11.6278	µg/mL	Gravimetric
	CAS # 86-30-6.SEC		+/- 17.5908	µg/mL	Unstressed
	Purity 95%		+/- 34.7762	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

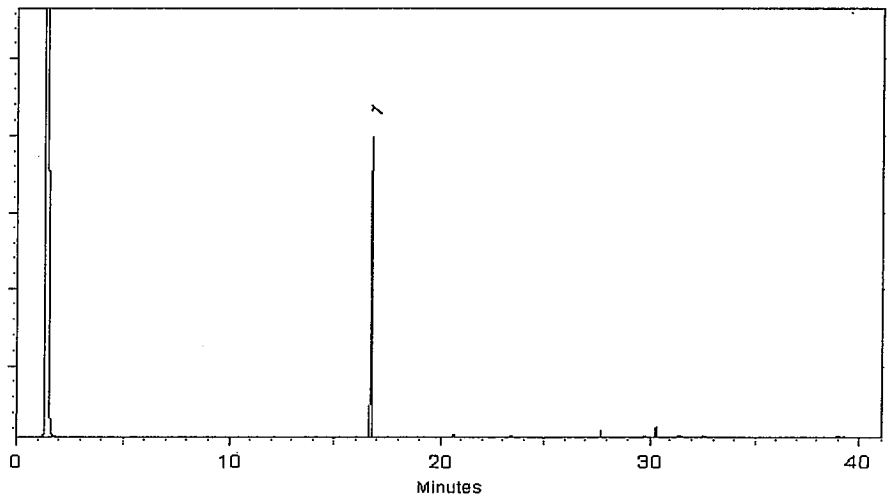
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 25-Feb-2013 Balance: 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567677 **Lot No.:** A093445

Description : 8270 List 1 / Std #6 Benzaldehyde

8270 List 1 / Std #6 Benzaldehyde 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : August 2014 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Benzaldehyde	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 100-52-7		+/- 53.7239	µg/mL	Unstressed
	Purity 99%		+/- 66.9795	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

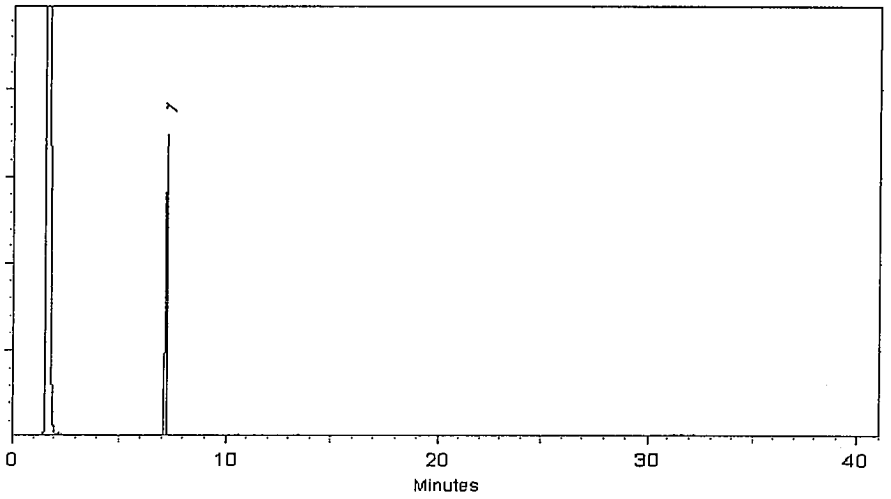
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 25-Feb-2013 Balance: 1128342313

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
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0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567677.sec **Lot No.:** A093656

Description : 8270 List 1 / Std #6 Benzaldehyde

8270 List 1 / Std #6 Benzaldehyde 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : August 2014 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)	
1	Benzaldehyde	2,000.0 µg/mL	+/- 11.6282 µg/mL	Gravimetric
	CAS # 100-52-7.SEC		+/- 53.7239 µg/mL	Unstressed
	Purity 99%		+/- 66.9795 µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

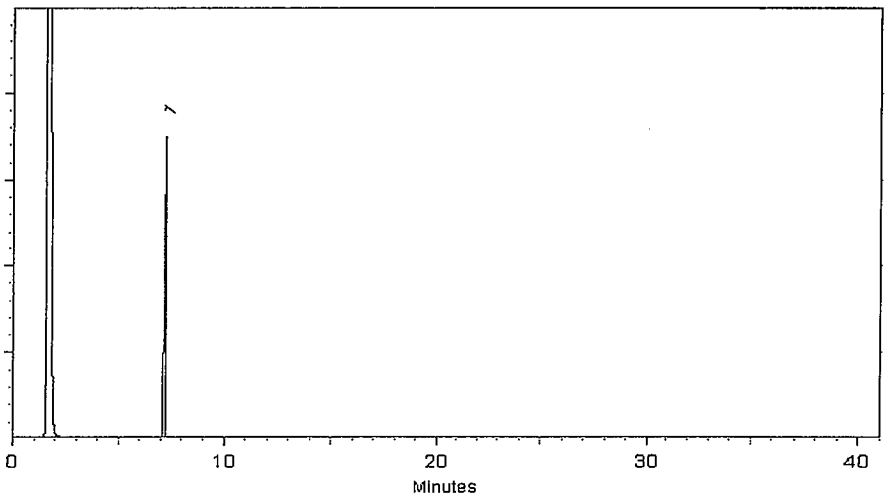
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 25-Feb-2013 Balance: 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\,stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\,stability} + U^2_{shipping\,stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
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0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
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854605
ID: BNA_Surrogate_00002
Exp:02/28/18 Prpd:JLS Opn:07/13/13
S5000PPM BNA Surrogate ST

Rec 7/13/13
JLS

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567685 **Lot No.:** A093638

Description : 8270 Surrogate Standard

8270 Surrogate Standard 5,000 ug/ml, Methylene Chloride, 5 ml/ampul

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

Expiration Date : February 2018 **Storage:** 10°C or colder

Handling: Sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol	5,000.0 µg/mL	+/- 29.0689 µg/mL	Gravimetric
	CAS # 367-12-4		+/- 132.9492 µg/mL	Unstressed
	Purity 99%		+/- 163.4029 µg/mL	Stressed
2	Phenol-d5	5,000.0 µg/mL	+/- 29.0689 µg/mL	Gravimetric
	CAS # 4165-62-2		+/- 132.9492 µg/mL	Unstressed
	Purity 99%		+/- 163.4029 µg/mL	Stressed
3	Nitrobenzene-d5	5,000.0 µg/mL	+/- 29.0689 µg/mL	Gravimetric
	CAS # 4165-60-0		+/- 132.9492 µg/mL	Unstressed
	Purity 99%		+/- 163.4029 µg/mL	Stressed
4	2-Fluorobiphenyl	5,000.0 µg/mL	+/- 29.0689 µg/mL	Gravimetric
	CAS # 321-60-8		+/- 132.9492 µg/mL	Unstressed
	Purity 99%		+/- 163.4029 µg/mL	Stressed
5	2,4,6-Tribromophenol	5,000.0 µg/mL	+/- 29.0689 µg/mL	Gravimetric
	CAS # 118-79-6		+/- 132.9492 µg/mL	Unstressed
	Purity 99%		+/- 163.4029 µg/mL	Stressed
6	p-Terphenyl-d14	5,000.0 µg/mL	+/- 29.0689 µg/mL	Gravimetric
	CAS # 1718-51-0		+/- 132.9492 µg/mL	Unstressed
	Purity 99%		+/- 163.4029 µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

Custom Standard

Product Number: TAM-201 **Page:** 1 of 1

Lot Number: CK-2907 **Lot Issue Date:** 29-Aug-2013 **Expiration Date:** 30-Sep-2015

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
2-fluorobiphenyl	000321-60-8	RM06546	50.2 ± 0.3 µg/mL
nitrobenzene-d5	004165-60-0	RM01699	50.2 ± 0.3 µg/mL
p-terphenyl-d14	001718-51-0	RM06589	50.1 ± 0.3 µg/mL
2,4,6-tribromophenol	000118-79-6	RM01307	50.2 ± 0.3 µg/mL
2-fluorophenol	000367-12-4	RM03347	50.2 ± 0.3 µg/mL
phenol-d5	004165-62-2	RM06760	50.1 ± 0.3 µg/mL

Matrix: methanol/pH indicator (red-yellow 3.2-4.4)

Storage: Store at Room Temperature (15-30°C)

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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ISO 9001 Registered TUV USA, Inc. Cert. No. 09-1009

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William J Leahy
Quality Assurance Manager

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639985
ID: V1_2-CEVE_00002
Exp: 02/28/16 Prpd: JH
Primary 2-chloroethylviny

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Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567643 **Lot No.:** A093368

Description : 8260 List 1 / Std #4 2-Chloroethylvinyl Ether

8260 List 1 / Std #4 2-Chloroethylvinyl Ether 2,000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Chloroethyl vinyl ether	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 110-75-8		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed

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

Tech Tips:

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

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

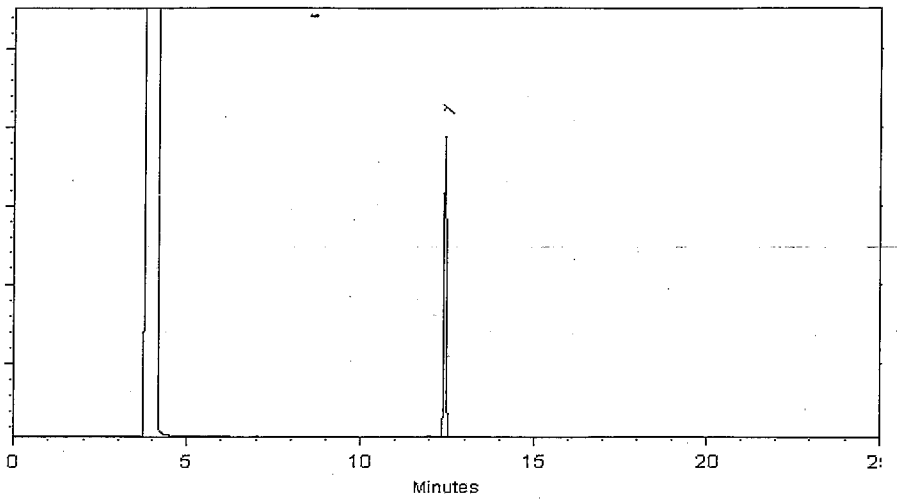
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 15-Feb-2013 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK CERTIFIED REFERENCE MATERIAL

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567644 **Lot No.:** A097557

Description : 8260 List 1 / Std # 5 Acrolein

8260 List 1 / Std # 5 Acrolein 5000 ug/ml, Water, 1 ml/ampul

974566
ID: V1_Acrolein_00007
Exp: 12/31/13 Prpd: JPH
Primary Acrolein @ 5000 p

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

Expiration Date : December 31, 2013 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Acrolein		5,006.0 µg/mL	+/-	29.3780	µg/mL	Gravimetric
	CAS # 107-02-8	(Lot 130301JLM)		+/-	131.3952	µg/mL	Unstressed
	Purity 99%			+/-	165.1930	µg/mL	Stressed

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

Column:
105m x 0.53mm x 3.0um
Rtx-502.2 (cat.#10910)

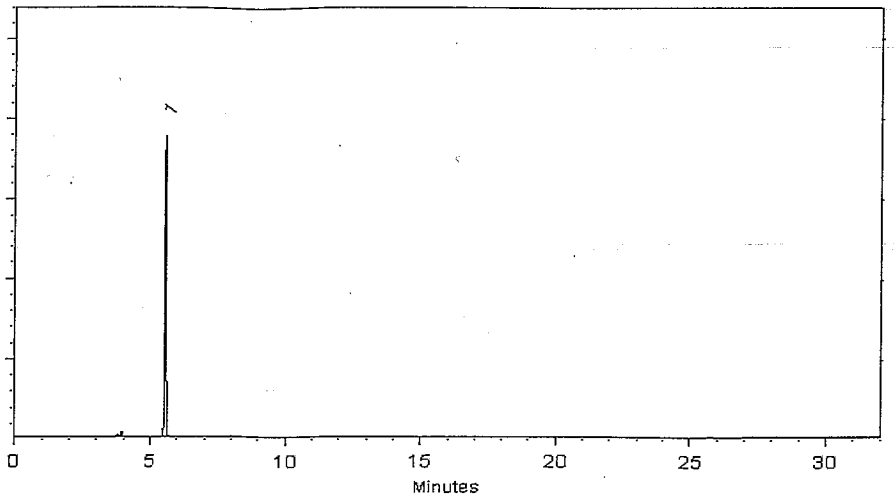
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

F. Joseph Fallon - Mix Technician **Date Mixed:** 23-Aug-2013 **Balance:** B251644995

Jodi E. Breon - QA Analyst **Date Passed:** 27-Aug-2013

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

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649600
ID: V1_cyclohxnon_00002
Exp: 02/28/16 Prpd: JH
Primary cyclohexanone @ 2

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Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567648 **Lot No.:** A093361

Description : 8260 List 2 / Std #3 Cyclohexanone

8260 List 2 / Std #3 Cyclohexanone 20,000 ug/ml, Water, 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Cyclohexanone	20,000.0 µg/mL	+/- 116.2756	µg/mL	Gravimetric
	CAS # 108-94-1		+/- 1,597.3791	µg/mL	Unstressed
	Purity 99%		+/- 1,598.1615	µg/mL	Stressed

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

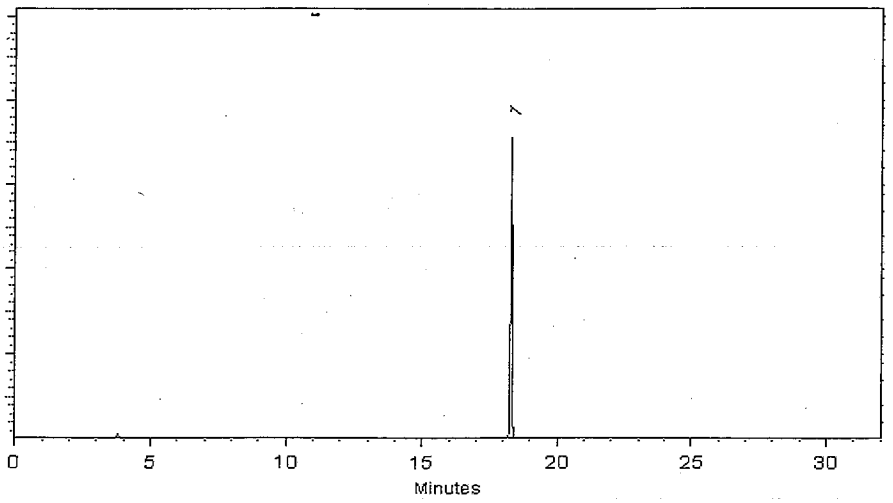
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 14-Feb-2013 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK

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861418
ID: V1_Gases_00003
Exp: 02/28/15 Prpd: JPH
Primary Gases @ 2000ppm

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
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Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567645 **Lot No.:** A093341

Description : 8260 List 1 / Std #3 Gases

8260 List 1 / Std #3 Gases 2,000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)	2,000.0 µg/mL	+/- 13.8716	µg/mL	Gravimetric
	CAS # 75-71-8		+/- 25.2661	µg/mL	Unstressed
	Purity 99%		+/- 28.2336	µg/mL	Stressed
2	Chloromethane (methyl chloride)	1,999.8 µg/mL	+/- 13.9993	µg/mL	Gravimetric
	CAS # 74-87-3		+/- 25.3348	µg/mL	Unstressed
	Purity 99%		+/- 28.2945	µg/mL	Stressed
3	Vinyl chloride	2,000.1 µg/mL	+/- 13.9625	µg/mL	Gravimetric
	CAS # 75-01-4		+/- 25.3168	µg/mL	Unstressed
	Purity 99%		+/- 28.2792	µg/mL	Stressed
4	1,3-Butadiene	2,000.0 µg/mL	+/- 13.3773	µg/mL	Gravimetric
	CAS # 106-99-0		+/- 24.9981	µg/mL	Unstressed
	Purity 99%		+/- 27.9940	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,000.1 µg/mL	+/- 14.2856	µg/mL	Gravimetric
	CAS # 74-83-9		+/- 25.4963	µg/mL	Unstressed
	Purity 99%		+/- 28.4399	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,000.0 µg/mL	+/- 13.2200	µg/mL	Gravimetric
	CAS # 75-00-3		+/- 24.9143	µg/mL	Unstressed
	Purity 99%		+/- 27.9191	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,000.0 µg/mL	+/- 13.5174	µg/mL	Gravimetric
	CAS # 75-43-4		+/- 25.0735	µg/mL	Unstressed
	Purity 99%		+/- 28.0614	µg/mL	Stressed
8	Trichlorofluoromethane (CFC-11)	1,999.9 µg/mL	+/- 13.1170	µg/mL	Gravimetric
	CAS # 75-69-4		+/- 24.8590	µg/mL	Unstressed
	Purity 99%		+/- 27.8696	µg/mL	Stressed

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

Column:
60m x .25mm x 1.4um
Rtx-502.2 (cat.#10916)

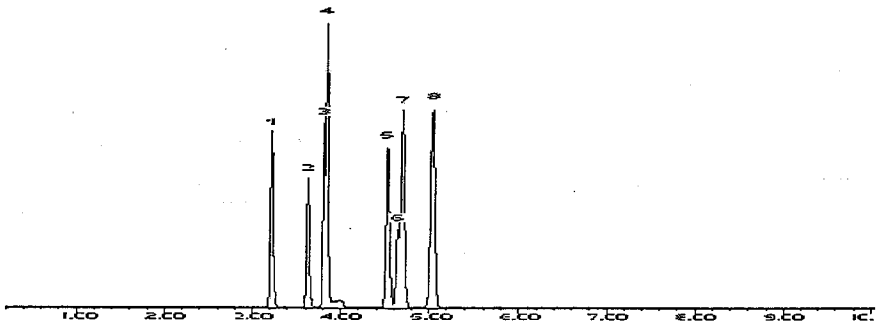
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



Jodi E. Breon - QA Analyst

Date Passed: 25-Feb-2013 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

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640590
ID: V1_Keytones_00002
Exp: 02/28/16 Prpd: JH
Primary Keytones @ 10000p

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ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567642 **Lot No.:** A093365

Description : 8260 List 1 / Std #2 Ketones

8260 List 1 / Std #2 Ketones 10,000 ug/ml, P&T Methanol/Water (90:10), 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 67-64-1		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
2	2-Butanone (MEK)	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 78-93-3		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 108-10-1		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
4	2-Hexanone	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 591-78-6		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

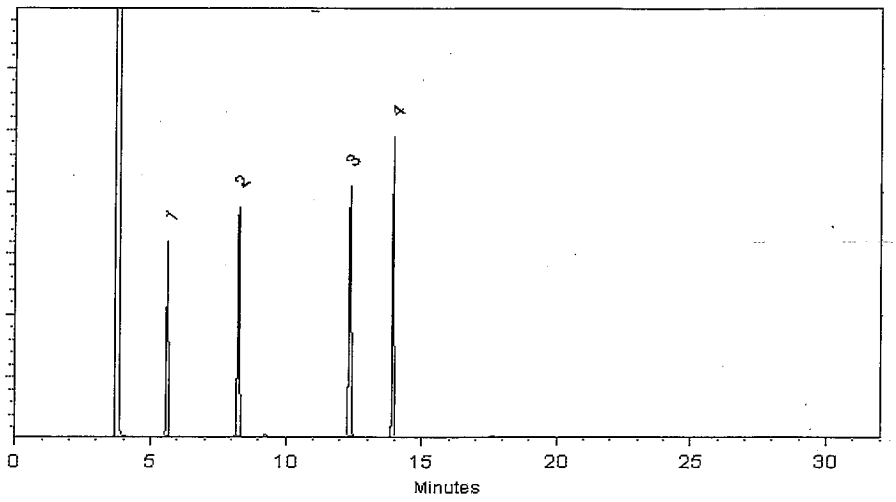
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 14-Feb-2013 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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861274
ID: V1_Keytones_00003
Exp: 02/28/16 Prpd: JPH
Primary Keytones @ 10000p

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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567642 **Lot No.:** A093365

Description : 8260 List 1 / Std #2 Ketones

8260 List 1 / Std #2 Ketones 10,000 ug/ml, P&T Methanol/Water (90:10), 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	10,000.0 µg/mL	+/- 58.1378 µg/mL	Gravimetric
	CAS # 67-64-1		+/- 798.6896 µg/mL	Unstressed
	Purity 99%		+/- 799.0807 µg/mL	Stressed
2	2-Butanone (MEK)	10,000.0 µg/mL	+/- 58.1378 µg/mL	Gravimetric
	CAS # 78-93-3		+/- 798.6896 µg/mL	Unstressed
	Purity 99%		+/- 799.0807 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	10,000.0 µg/mL	+/- 58.1378 µg/mL	Gravimetric
	CAS # 108-10-1		+/- 798.6896 µg/mL	Unstressed
	Purity 99%		+/- 799.0807 µg/mL	Stressed
4	2-Hexanone	10,000.0 µg/mL	+/- 58.1378 µg/mL	Gravimetric
	CAS # 591-78-6		+/- 798.6896 µg/mL	Unstressed
	Purity 99%		+/- 799.0807 µg/mL	Stressed

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

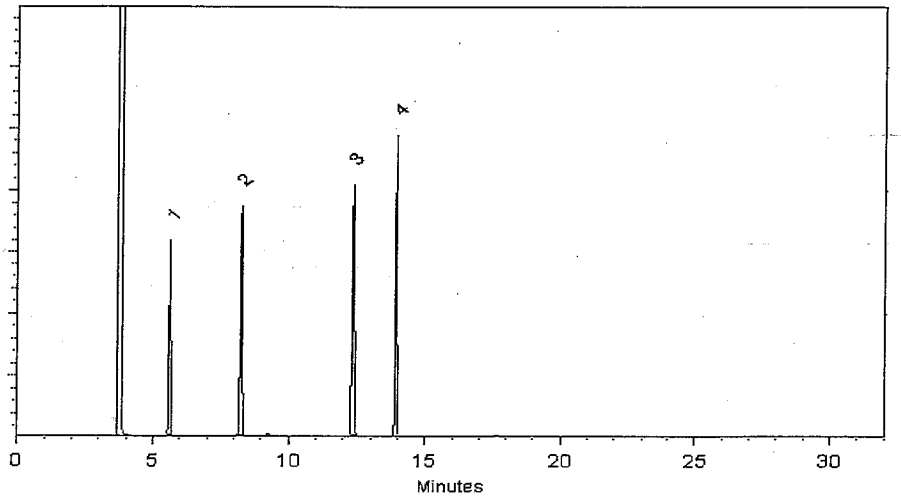
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 14-Feb-2013 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

RESTEK CERTIFIED REFERENCE MATERIAL

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Certificate #3222.01

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Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

861448
ID: V1_vnl acetat_00003
Exp: 12/31/13 Prpd: JPH
Primary Vinyl Acetate @ 4

Catalog No. : 567646 **Lot No.:** A096198

Description : 8260 List 1 / Std #6 Vinyl Acetate

8260 List 1 / Std #6 Vinyl Acetate 4000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : December 31, 2013 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Vinyl acetate	4,000.0 µg/mL	+/- 23.2563 µg/mL	Gravimetric
	CAS # 108-05-4 (Lot STBC7746V)		+/- 319.4759 µg/mL	Unstressed
	Purity 99%		+/- 319.6324 µg/mL	Stressed

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

Tech Tips:

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

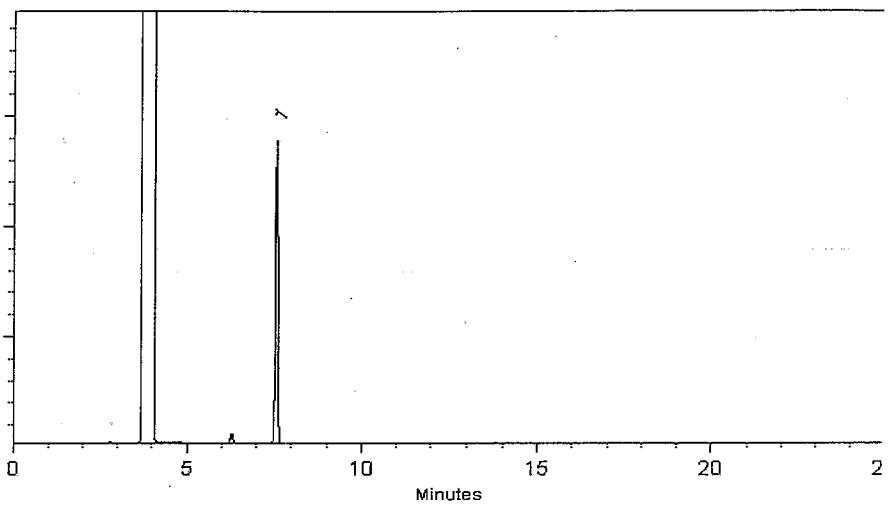
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

F. Joseph Fallon - Mix Technician

Date Mixed: 24-Jun-2013 **Balance:** B251644995

Diane Shaffer - QA Analyst

Date Passed: 25-Jun-2013

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

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Fax: (814)353-1309

www.restek.com

899313
ID: V2_Gases_00003
Exp: 02/28/15 Prpd: JPH
Secondary Gases @ 2000pp

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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

Certificate of Analysis

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

Catalog No. : 567645.sec **Lot No.:** A093618

Description : 8260 List 1 / Std #3 Gases

8260 List 1 / Std #3 Gases 2,000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)	2,001.8 µg/mL	+/- 11.3948	µg/mL	Gravimetric
	CAS # 75-71-8.SEC		+/- 24.0125	µg/mL	Unstressed
	Purity 99%		+/- 27.1228	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,000.6 µg/mL	+/- 11.1434	µg/mL	Gravimetric
	CAS # 74-87-3.SEC		+/- 23.8835	µg/mL	Unstressed
	Purity 99%		+/- 27.0052	µg/mL	Stressed
3	Vinyl chloride	1,996.5 µg/mL	+/- 13.5847	µg/mL	Gravimetric
	CAS # 75-01-4.SEC		+/- 25.0789	µg/mL	Unstressed
	Purity 99%		+/- 28.0563	µg/mL	Stressed
4	1,3-Butadiene	2,003.5 µg/mL	+/- 10.3715	µg/mL	Gravimetric
	CAS # 106-99-0.SEC		+/- 23.5601	µg/mL	Unstressed
	Purity 99%		+/- 26.7280	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,001.5 µg/mL	+/- 12.1569	µg/mL	Gravimetric
	CAS # 74-83-9.SEC		+/- 24.3811	µg/mL	Unstressed
	Purity 99%		+/- 27.4489	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	1,997.2 µg/mL	+/- 13.6408	µg/mL	Gravimetric
	CAS # 75-00-3.SEC		+/- 25.1155	µg/mL	Unstressed
	Purity 99%		+/- 28.0910	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,004.9 µg/mL	+/- 12.2390	µg/mL	Gravimetric
	CAS # 75-43-4.SEC		+/- 24.4529	µg/mL	Unstressed
	Purity 99%		+/- 27.5224	µg/mL	Stressed
8	Trichlorofluoromethane (CFC-11)	2,001.9 µg/mL	+/- 16.1788	µg/mL	Gravimetric
	CAS # 75-69-4.SEC		+/- 26.6190	µg/mL	Unstressed
	Purity 99%		+/- 29.4557	µg/mL	Stressed

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

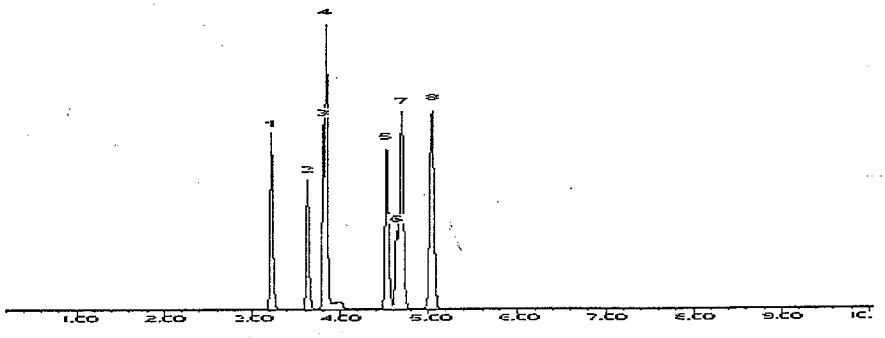
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Jodi E. Breon
Jodi E. Breon - QA Analyst

Date Passed: 25-Feb-2013 **Balance:** 1125113331

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

RESTEK

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Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

648812
ID: V2_Keytones_00001
Exp: 02/28/16 Prpd: JH
Secondary Keytones @ 1000

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Composition

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567642.sec **Lot No.:** A093472

Description : 8260 List 1 / Std #2 Ketones

8260/624 Ketones Standard 10,000 ug/ml, P&T Methanol/Water (90:10), 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone	10,000.0 µg/mL	+/- 58.1409	µg/mL	Gravimetric
	CAS # 67-64-1.SEC		+/- 798.6898	µg/mL	Unstressed
	Purity 99%		+/- 799.0809	µg/mL	Stressed
2	2-Butanone (MEK)	10,000.0 µg/mL	+/- 58.1409	µg/mL	Gravimetric
	CAS # 78-93-3.SEC		+/- 798.6898	µg/mL	Unstressed
	Purity 99%		+/- 799.0809	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	10,000.0 µg/mL	+/- 58.1409	µg/mL	Gravimetric
	CAS # 108-10-1.SEC		+/- 798.6898	µg/mL	Unstressed
	Purity 99%		+/- 799.0809	µg/mL	Stressed
4	2-Hexanone	10,000.0 µg/mL	+/- 58.1409	µg/mL	Gravimetric
	CAS # 591-78-6.SEC		+/- 798.6898	µg/mL	Unstressed
	Purity 99%		+/- 799.0809	µg/mL	Stressed

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

Column:
105m x .53mm x 3.0um
Rtx-502.2 (cat.#10910)

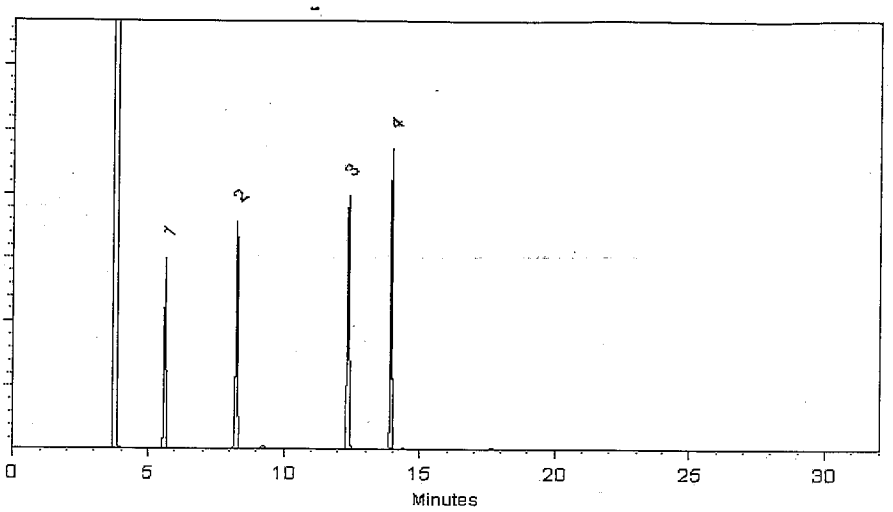
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



Jennifer L. Pollino - QC Analyst

Date Passed: 14-Feb-2013 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK

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www.restek.com

861523
ID: V2_Megamix_00002
Exp: 02/28/16 Prpd: JPH
Secondary Megamix @ 2000

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567641.sec **Lot No.:** A093733

Description : 8260 List 1 / Std #1 MegaMix

8260 List 1 / Std #1 MegaMix 1,000-50,000 µg/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Diethyl ether (ethyl ether)	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 60-29-7.SEC		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113)	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 76-13-1.SEC		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed
3	1,1-Dichloroethene	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 75-35-4.SEC		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed
4	tert-Butanol (TBA)	20,000.0 µg/mL	+/- 116.2756	µg/mL	Gravimetric
	CAS # 75-65-0.SEC		+/- 442.5291	µg/mL	Unstressed
	Purity 99%		+/- 444.3332	µg/mL	Stressed
5	Iodomethane (methyl iodide)	2,000.0 µg/mL	+/- 11.6284	µg/mL	Gravimetric
	CAS # 74-88-4.SEC		+/- 44.2540	µg/mL	Unstressed
	Purity 97%		+/- 44.4344	µg/mL	Stressed
6	Allyl chloride (3-chloropropene)	2,000.0 µg/mL	+/- 11.6281	µg/mL	Gravimetric
	CAS # 107-05-1.SEC		+/- 44.2527	µg/mL	Unstressed
	Purity 98%		+/- 44.4331	µg/mL	Stressed
7	Methyl acetate	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 79-20-9.SEC		+/- 221.2646	µg/mL	Unstressed
	Purity 99%		+/- 222.1666	µg/mL	Stressed
8	Carbon disulfide	2,000.0 µg/mL	+/- 11.6281	µg/mL	Gravimetric
	CAS # 75-15-0.SEC		+/- 44.2527	µg/mL	Unstressed
	Purity 98%		+/- 44.4331	µg/mL	Stressed
9	Methylene chloride (dichloromethane)	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 75-09-2.SEC		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed

10	Acrylonitrile	20,000.0	µg/mL	+/-	116.2756	µg/mL	Gravimetric
	CAS # 107-13-1.SEC			+/-	442.5291	µg/mL	Unstressed
	Purity 99%			+/-	444.3332	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
12	cis-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-59-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
13	n-Hexane (C6)	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 110-54-3.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed
14	1,1-Dichloroethane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 75-34-3.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
15	2,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 594-20-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
16	trans-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 156-60-5.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
17	Chloroform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 67-66-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
18	Isobutanol (2-Methyl-1-propanol)	50,000.0	µg/mL	+/-	290.6891	µg/mL	Gravimetric
	CAS # 78-83-1.SEC			+/-	1,106.3228	µg/mL	Unstressed
	Purity 99%			+/-	1,110.8331	µg/mL	Stressed
19	Bromochloromethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-97-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
20	Tetrahydrofuran	4,000.0	µg/mL	+/-	23.2563	µg/mL	Gravimetric
	CAS # 109-99-9.SEC			+/-	88.5061	µg/mL	Unstressed
	Purity 99%			+/-	88.8670	µg/mL	Stressed
21	1,1,1-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-55-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
22	Cyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 110-82-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
23	1,1-Dichloropropene	2,010.5	µg/mL	+/-	11.6890	µg/mL	Gravimetric
	CAS # 563-58-6.SEC			+/-	44.4847	µg/mL	Unstressed
	Purity 98%			+/-	44.6661	µg/mL	Stressed
24	Carbon tetrachloride	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 56-23-5.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed
25	n-Heptane (C7)	2,000.1	µg/mL	+/-	11.6288	µg/mL	Gravimetric
	CAS # 142-82-5.SEC			+/-	44.2553	µg/mL	Unstressed
	Purity 99%			+/-	44.4357	µg/mL	Stressed
26	Benzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-43-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
27	1,2-Dichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 107-06-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
28	Trichloroethene	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 79-01-6.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed

29	Methylcyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-87-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
30	1,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 78-87-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
31	1,4-Dioxane	40,000.0	µg/mL	+/-	232.5513	µg/mL	Gravimetric
	CAS # 123-91-1.SEC			+/-	885.0582	µg/mL	Unstressed
	Purity 99%			+/-	888.6665	µg/mL	Stressed
32	Dibromomethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-95-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
33	Bromodichloromethane	2,000.1	µg/mL	+/-	11.6290	µg/mL	Gravimetric
	CAS # 75-27-4.SEC			+/-	44.2562	µg/mL	Unstressed
	Purity 97%			+/-	44.4366	µg/mL	Stressed
34	cis-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
35	Toluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-88-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
36	Ethyl methacrylate	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 97-63-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
37	trans-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
38	1,1,2-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-00-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
39	1,3-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-28-9.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
40	Tetrachloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 127-18-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
41	Dibromochloromethane	2,000.1	µg/mL	+/-	11.6290	µg/mL	Gravimetric
	CAS # 124-48-1.SEC			+/-	44.2562	µg/mL	Unstressed
	Purity 97%			+/-	44.4366	µg/mL	Stressed
42	1,2-Dibromoethane (EDB)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-93-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
43	Chlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-90-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
44	1,1,1,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 630-20-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
45	m-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 108-38-3.SEC			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
46	p-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 106-42-3.SEC			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
47	o-Xylene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-47-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

48	Ethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-41-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
49	Styrene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-42-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
50	Isopropylbenzene (cumene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-82-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
51	Bromoform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-25-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-34-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
53	1,2,3-Trichloropropane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 96-18-4.SEC			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
54	trans-1,4-Dichloro-2-butene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 110-57-6.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
55	n-Propylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 103-65-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
56	Bromobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-86-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
57	1,3,5-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-67-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
58	2-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-49-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
59	4-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-43-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
60	tert-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-06-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
61	1,2,4-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-63-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
62	sec-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 135-98-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
63	4-Isopropyltoluene (p-cymene)	2,000.1	µg/mL	+/-	11.6285	µg/mL	Gravimetric
	CAS # 99-87-6.SEC			+/-	44.2545	µg/mL	Unstressed
	Purity 96%			+/-	44.4349	µg/mL	Stressed
64	1,3-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 541-73-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
65	1,4-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-46-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
66	n-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 104-51-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

67	1,2-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-50-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 96-12-8.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
69	1,2,4-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 120-82-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
70	Hexachlorobutadiene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 87-68-3.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
71	Naphthalene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 91-20-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
72	1,2,3-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 87-61-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

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

Column:
60m x .25mm x 1.4um
Rtx-502.2 (cat.#10916)

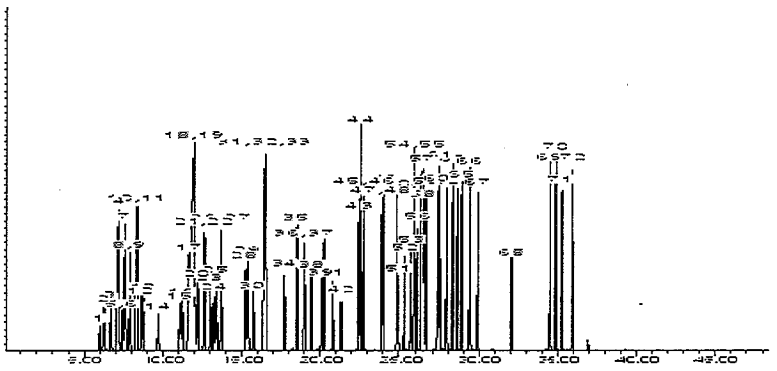
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



Jennifer L. Pollino - QC Analyst

Date Passed: 01-Mar-2013 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

573199
ID: VOA_IS Mix_S_00004
Exp: 03/31/14 Prpd: JH
Internal Standard Mix at

Custom Standard

Product Number: TAM-104 **Page:** 1 of 1

Lot Number: CJ-0470 **Lot Issue Date:** 14-Feb-2012 **Expiration Date:** 31-Mar-2014

This Certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
fluorobenzene	000462-06-6	RM03366-01	2513 ± 13 µg/mL
chlorobenzene-d5	003114-55-4	RM01430-04	2512 ± 13 µg/mL
1,4-dichlorobenzene-d4	003855-82-1	RM01700-02	2507 ± 13 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at Room Temperature (18-25° C)

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

A2LA ACCREDITED
ISO 17025:2005 Accredited A2LA Cert. No. 0851-01
ISO 9001:2008 Registered TUV USA, Inc. Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
wwww.ultrasci.com

William J. Leary
Quality Assurance Manager

11/19/2013

ULTRA SCIENTIFIC
Analytical Solutions

Certificate of Analysis

573188
ID: VOA_SS Mix_S_00003
Exp: 09/30/14 Prpd: JH
Surrogate Standard Mix at

Custom Standard

Product Number: TAM-100 **Page:** 1 of 1

Lot Number: CJ-3029 **Lot Issue Date:** 06-Aug-2012 **Expiration Date:** 30-Sep-2014

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
4-bromofluorobenzene	000460-00-4	RM03365	2509 ± 13 µg/mL
dibromofluoromethane	001868-53-7	RM04871	2511 ± 13 µg/mL
1,2-dichloroethane-d4	017060-07-0	RM05260	2506 ± 13 µg/mL
toluene-d8	002037-26-5	RM01741	2507 ± 13 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

A2LA ACCREDITED

ISO 17025 Accredited A2LA Cert. No. 0851-01

ISO 9001 Registered TUV USA, Inc. Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 401-295-2330
www.ultrasci.com

William J. Leary
Quality Assurance Manager

11/19/2013

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39437-2

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	Alaska (UST)	State Program	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas DEQ	State Program	6	88-0737
TestAmerica Nashville	California	NELAP	9	1168CA
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAP	4	E87358
TestAmerica Nashville	Illinois	NELAP	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAP	7	E-10229
TestAmerica Nashville	Kentucky (UST)	State Program	4	19
TestAmerica Nashville	Louisiana	NELAP	6	30613
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAP	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana (UST)	State Program	8	NA
TestAmerica Nashville	Nevada	State Program	9	TN00032
TestAmerica Nashville	New Hampshire	NELAP	1	2963
TestAmerica Nashville	New Jersey	NELAP	2	TN965
TestAmerica Nashville	New York	NELAP	2	11342
TestAmerica Nashville	North Carolina DENR	State Program	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio VAP	State Program	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAP	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAP	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009 (001)
TestAmerica Nashville	South Carolina	State Program	4	84009 (002)
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAP	6	T104704077-09-TX
TestAmerica Nashville	USDA	Federal		S-48469
TestAmerica Nashville	Utah	NELAP	8	TN00032
TestAmerica Nashville	Virginia	NELAP	3	460152
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia DEP	State Program	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430
TestAmerica Nashville	Wyoming (UST)	A2LA	8	453.07

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260B

Volatile Organic Compounds (GC/MS) by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
MW-06-GW-001	490-39437-1	99	91	109	94
MW-07-GW-001	490-39437-3	101	93	108	93
Trip Blank	490-39437-4	100	92	108	94
	MB 490-121717/4	99	92	107	92
	LCS 490-121717/3	101	93	105	92
	490-39480-E-1 MS	101	88	104	95
	490-39480-F-1 MSD	101	87	104	96

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	70-130
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 11131330.D

Lab ID: LCS 490-121717/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	100	81.40	81	54-145	
Benzene	20.0	19.50	98	80-121	
Bromochloromethane	20.0	20.53	103	78-129	
Bromodichloromethane	20.0	19.21	96	75-129	
Bromoform	20.0	16.68	83	46-145	
Bromomethane	20.0	21.02	105	41-150	
2-Butanone (MEK)	100	88.70	89	62-133	
Carbon disulfide	20.0	18.40	92	77-126	
Carbon tetrachloride	20.0	18.79	94	64-147	
Chlorobenzene	20.0	19.99	100	80-120	
Chlorodibromomethane	20.0	16.67	83	69-133	
Chloroethane	20.0	19.80	99	72-120	
Chloroform	20.0	18.66	93	73-129	
Chloromethane	20.0	18.40	92	12-150	
cis-1,2-Dichloroethene	20.0	19.99	100	76-125	
cis-1,3-Dichloropropene	20.0	20.42	102	74-140	
Cyclohexane	20.0	18.32	92	73-122	
1,2-Dibromo-3-Chloropropane	20.0	15.64	78	54-125	
1,2-Dibromoethane (EDB)	20.0	19.21	96	80-129	
1,2-Dichlorobenzene	20.0	19.87	99	80-121	
1,3-Dichlorobenzene	20.0	20.09	100	80-122	
1,4-Dichlorobenzene	20.0	19.67	98	80-120	
Dichlorodifluoromethane	20.0	21.40	107	37-127	
1,1-Dichloroethane	20.0	19.47	97	78-125	
1,2-Dichloroethane	20.0	18.43	92	77-121	
1,1-Dichloroethene	20.0	20.44	102	79-124	
1,2-Dichloropropane	20.0	19.26	96	75-120	
Ethylbenzene	20.0	19.25	96	80-130	
2-Hexanone	100	85.36	85	60-142	
Isopropylbenzene	20.0	19.70	99	80-141	
Methyl acetate	100	72.48	72	64-150	
Methylcyclohexane	20.0	19.02	95	71-129	
Methylene Chloride	20.0	19.71	99	79-123	
4-Methyl-2-pentanone (MIBK)	100	96.22	96	60-137	
Methyl tert-butyl ether	20.0	17.77	89	72-133	
N-Propylbenzene	20.0	18.19	91	75-129	
Styrene	20.0	20.20	101	80-127	
1,1,2,2-Tetrachloroethane	20.0	18.04	90	69-131	
Tetrachloroethene	20.0	20.35	102	80-126	
Tetrahydrofuran	40.0	31.21	78	51-124	
Toluene	20.0	20.70	103	80-126	
trans-1,2-Dichloroethene	20.0	18.94	95	79-126	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 11131330.D

Lab ID: LCS 490-121717/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	18.61	93	63-134	
1,2,4-Trichlorobenzene	20.0	19.20	96	63-133	
1,1,1-Trichloroethane	20.0	18.27	91	78-135	
1,1,2-Trichloroethane	20.0	20.01	100	80-124	
Trichloroethene	20.0	20.90	104	80-123	
Trichlorofluoromethane	20.0	20.73	104	65-124	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	19.79	99	77-129	
Vinyl chloride	20.0	20.45	102	68-120	
Xylenes, Total	40.0	37.83	95	80-132	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 11131350.D

Lab ID: 490-39480-E-1 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acetone	250	ND	189.9	76	45-141	
Benzene	50.0	2.66	51.80	98	75-133	
Bromochloromethane	50.0	ND	50.21	100	67-139	
Bromodichloromethane	50.0	ND	49.73	99	70-140	
Bromoform	50.0	ND	41.28	83	42-147	
Bromomethane	50.0	ND	35.35	71	16-163	
2-Butanone (MEK)	250	ND	208.1	83	50-138	
Carbon disulfide	50.0	ND	45.90	92	48-152	
Carbon tetrachloride	50.0	ND	52.33	105	62-164	
Chlorobenzene	50.0	ND	50.25	101	80-129	
Chlorodibromomethane	50.0	ND	43.18	86	66-140	
Chloroethane	50.0	ND	48.09	96	58-137	
Chloroform	50.0	ND	46.26	93	66-138	
Chloromethane	50.0	ND	41.09	82	10-169	
cis-1,2-Dichloroethene	50.0	ND	49.00	98	68-138	
cis-1,3-Dichloropropene	50.0	ND	52.18	104	71-141	
Cyclohexane	50.0	3.57 J	53.08	99	58-144	
1,2-Dibromo-3-Chloropropane	50.0	ND	37.68	75	52-126	
1,2-Dibromoethane (EDB)	50.0	ND	46.50	93	75-137	
1,2-Dichlorobenzene	50.0	ND	49.39	99	79-128	
1,3-Dichlorobenzene	50.0	ND	49.58	99	77-131	
1,4-Dichlorobenzene	50.0	ND	49.52	99	78-126	
Dichlorodifluoromethane	50.0	ND	47.19	94	40-127	
1,1-Dichloroethane	50.0	ND	48.80	98	71-139	
1,2-Dichloroethane	50.0	ND	44.62	89	64-136	
1,1-Dichloroethene	50.0	ND	51.03	102	70-142	
1,2-Dichloropropane	50.0	ND	47.78	96	67-131	
Ethylbenzene	50.0	0.489 J	49.83	99	79-139	
2-Hexanone	250	ND	228.6	91	50-150	
Isopropylbenzene	50.0	0.891 J	52.65	104	80-153	
Methyl acetate	250	ND	147.4	59	30-165	
Methylcyclohexane	50.0	0.806 J	51.83	102	59-151	
Methylene Chloride	50.0	ND	47.03	94	64-139	
4-Methyl-2-pentanone (MIBK)	250	ND	251.1	100	50-147	
Methyl tert-butyl ether	50.0	0.755 J	43.86	86	66-141	
N-Propylbenzene	50.0	1.98	50.70	97	69-142	
Styrene	50.0	ND	50.33	101	61-148	
1,1,2,2-Tetrachloroethane	50.0	ND	45.31	91	56-143	
Tetrachloroethene	50.0	ND	53.17	106	72-145	
Tetrahydrofuran	100	ND	70.62	71	34-133	
Toluene	50.0	1.43	54.13	105	75-136	
trans-1,2-Dichloroethene	50.0	ND	48.22	96	66-143	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 11131350.D

Lab ID: 490-39480-E-1 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	50.0	ND	45.35	91	59-135	
1,2,4-Trichlorobenzene	50.0	ND	50.05	100	60-136	
1,1,1-Trichloroethane	50.0	ND	49.09	98	76-149	
1,1,2-Trichloroethane	50.0	ND	48.13	96	74-134	
Trichloroethene	50.0	0.247 J	52.07	104	73-144	
Trichlorofluoromethane	50.0	ND	51.06	102	58-139	
1,1,2-Trichloro-1,2,2-trichfluoroethane	50.0	ND	52.06	104	72-148	
Vinyl chloride	50.0	ND	48.43	97	56-129	
Xylenes, Total	100	1.33 J	98.62	97	74-141	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 11131351.D

Lab ID: 490-39480-F-1 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	250	194.7	78	3	21	45-141	
Benzene	50.0	51.78	98	0	17	75-133	
Bromochloromethane	50.0	50.06	100	0	17	67-139	
Bromodichloromethane	50.0	50.40	101	1	18	70-140	
Bromoform	50.0	42.27	85	2	16	42-147	
Bromomethane	50.0	42.52	85	18	50	16-163	
2-Butanone (MEK)	250	210.0	84	1	19	50-138	
Carbon disulfide	50.0	46.04	92	0	21	48-152	
Carbon tetrachloride	50.0	51.97	104	1	19	62-164	
Chlorobenzene	50.0	50.26	101	0	14	80-129	
Chlorodibromomethane	50.0	42.77	86	1	15	66-140	
Chloroethane	50.0	47.56	95	1	20	58-137	
Chloroform	50.0	46.23	92	0	18	66-138	
Chloromethane	50.0	42.82	86	4	31	10-169	
cis-1,2-Dichloroethene	50.0	48.75	98	1	17	68-138	
cis-1,3-Dichloropropene	50.0	52.14	104	0	15	71-141	
Cyclohexane	50.0	52.64	98	1	16	58-144	
1,2-Dibromo-3-Chloropropane	50.0	41.93	84	11	24	52-126	
1,2-Dibromoethane (EDB)	50.0	45.99	92	1	15	75-137	
1,2-Dichlorobenzene	50.0	50.53	101	2	15	79-128	
1,3-Dichlorobenzene	50.0	50.23	100	1	15	77-131	
1,4-Dichlorobenzene	50.0	49.58	99	0	15	78-126	
Dichlorodifluoromethane	50.0	46.80	94	1	18	40-127	
1,1-Dichloroethane	50.0	48.46	97	1	17	71-139	
1,2-Dichloroethane	50.0	44.39	89	1	17	64-136	
1,1-Dichloroethene	50.0	53.32	107	4	17	70-142	
1,2-Dichloropropane	50.0	48.39	97	1	17	67-131	
Ethylbenzene	50.0	49.81	99	0	15	79-139	
2-Hexanone	250	233.8	94	2	15	50-150	
Isopropylbenzene	50.0	52.96	104	1	16	80-153	
Methyl acetate	250	153.4	61	4	31	30-165	
Methylcyclohexane	50.0	51.32	101	1	19	59-151	
Methylene Chloride	50.0	47.04	94	0	17	64-139	
4-Methyl-2-pentanone (MIBK)	250	258.1	103	3	17	50-147	
Methyl tert-butyl ether	50.0	44.68	88	2	16	66-141	
N-Propylbenzene	50.0	51.58	99	2	17	69-142	
Styrene	50.0	50.40	101	0	24	61-148	
1,1,2,2-Tetrachloroethane	50.0	45.65	91	1	20	56-143	
Tetrachloroethene	50.0	51.94	104	2	16	72-145	
Tetrahydrofuran	100	73.68	74	4	18	34-133	
Toluene	50.0	54.45	106	1	15	75-136	
trans-1,2-Dichloroethene	50.0	47.52	95	1	16	66-143	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 11131351.D

Lab ID: 490-39480-F-1 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	50.0	48.47	97	7	14	59-135	
1,2,4-Trichlorobenzene	50.0	56.25	113	12	19	60-136	
1,1,1-Trichloroethane	50.0	49.15	98	0	17	76-149	
1,1,2-Trichloroethane	50.0	48.11	96	0	15	74-134	
Trichloroethene	50.0	51.47	102	1	17	73-144	
Trichlorofluoromethane	50.0	50.95	102	0	18	58-139	
1,1,2-Trichloro-1,2,2-trichfluoroethane	50.0	51.79	104	1	18	72-148	
Vinyl chloride	50.0	48.84	98	1	17	56-129	
Xylenes, Total	100	98.47	97	0	15	74-141	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Lab File ID: 11131332.D Lab Sample ID: MB 490-121717/4

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP33 Date Analyzed: 11/13/2013 23:08

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 490-121717/3	11131330.D	11/13/2013 22:15
Trip Blank	490-39437-4	11131333.D	11/13/2013 23:35
MW-06-GW-001	490-39437-1	11131335.D	11/14/2013 00:29
MW-07-GW-001	490-39437-3	11131336.D	11/14/2013 00:56
	490-39480-E-1 MS	11131350.D	11/14/2013 07:12
	490-39480-F-1 MSD	11131351.D	11/14/2013 07:39

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Lab File ID: 10181302.D BFB Injection Date: 10/18/2013

Instrument ID: HP33 BFB Injection Time: 19:05

Analysis Batch No.: 115521

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.9	
75	30.0 - 60.0 % of mass 95	49.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.4	(0.5)1
174	50.0 - 120.00 % of mass 95	81.3	
175	5.0 - 9.0 % of mass 174	5.7	(7.0)1
176	95.0 - 101.0 % of mass 174	78.4	(96.5)1
177	5.0 - 9.0 % of mass 176	5.3	(6.7)2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD0005 490-115521/2	10181304.D	10/18/2013	20:11
	STD001 490-115521/3	10181305.D	10/18/2013	20:38
	STD002 490-115521/4	10181306.D	10/18/2013	21:05
	STD005 490-115521/5	10181307.D	10/18/2013	21:32
	STD010 490-115521/6	10181308.D	10/18/2013	21:59
	ICIS 490-115521/7	10181309.D	10/18/2013	22:26
	STD050 490-115521/8	10181310.D	10/18/2013	22:53
	ICV 490-115521/9	10181311.D	10/18/2013	23:20
	STD100 490-115521/10	10181312.D	10/18/2013	23:47
	STD200 490-115521/11	10181313.D	10/19/2013	00:14

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Lab File ID: 11131328.D BFB Injection Date: 11/13/2013

Instrument ID: HP33 BFB Injection Time: 21:21

Analysis Batch No.: 121717

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.0	
75	30.0 - 60.0 % of mass 95	48.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.5	(0.6)1
174	50.0 - 120.00 % of mass 95	85.8	
175	5.0 - 9.0 % of mass 174	6.3	(7.4)1
176	95.0 - 101.0 % of mass 174	82.9	(96.6)1
177	5.0 - 9.0 % of mass 176	5.6	(6.8)2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-121717/2	11131329.D	11/13/2013	21:48
	LCS 490-121717/3	11131330.D	11/13/2013	22:15
	MB 490-121717/4	11131332.D	11/13/2013	23:08
Trip Blank	490-39437-4	11131333.D	11/13/2013	23:35
MW-06-GW-001	490-39437-1	11131335.D	11/14/2013	00:29
MW-07-GW-001	490-39437-3	11131336.D	11/14/2013	00:56
	490-39480-E-1 MS	11131350.D	11/14/2013	07:12
	490-39480-F-1 MSD	11131351.D	11/14/2013	07:39

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Sample No.: ICIS 490-115521/7 Date Analyzed: 10/18/2013 22:26

Instrument ID: HP33 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 10181309.D Heated Purge: (Y/N) N

Calibration ID: 19745

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		511147	3.69	349463	6.01	161267	8.14
UPPER LIMIT		1022294	4.19	698926	6.51	322534	8.64
LOWER LIMIT		255574	3.19	174732	5.51	80634	7.64
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 490-115521/9		505561	3.69	343991	6.01	163651	8.14
CCVIS 490-121717/2		464664	3.69	317554	6.00	154705	8.14

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Sample No.: CCVIS 490-121717/2 Date Analyzed: 11/13/2013 21:48

Instrument ID: HP33 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 11131329.D Heated Purge: (Y/N) N

Calibration ID: 19745

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		464664	3.69	317554	6.00	154705	8.14
UPPER LIMIT		929328	4.19	635108	6.50	309410	8.64
LOWER LIMIT		232332	3.19	158777	5.50	77353	7.64
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 490-121717/3		464484	3.69	314749	6.00	156749	8.14
MB 490-121717/4		437326	3.69	289632	6.01	131459	8.14
490-39437-4	Trip Blank	449434	3.69	295690	6.01	127448	8.14
490-39437-1	MW-06-GW-001	435497	3.69	286045	6.01	127028	8.14
490-39437-3	MW-07-GW-001	446473	3.69	294215	6.00	127424	8.14
490-39480-E-1 MS		513450	3.69	348728	6.00	166980	8.14
490-39480-F-1 MSD		514361	3.69	352368	6.00	167458	8.14

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39437-2

SDG No.:

Client Sample ID: MW-06-GW-001 | Lab Sample ID: 490-39437-1

Matrix: Water | Lab File ID: 11131335.D

Analysis Method: 8260B | Date Collected: 11/04/2013 13:25

Sample wt/vol: 5(mL) | Date Analyzed: 11/14/2013 00:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121717 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND		1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	ND		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39437-2

SDG No.:

Client Sample ID: MW-06-GW-001 | Lab Sample ID: 490-39437-1

Matrix: Water | Lab File ID: 11131335.D

Analysis Method: 8260B | Date Collected: 11/04/2013 13:25

Sample wt/vol: 5(mL) | Date Analyzed: 11/14/2013 00:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121717 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND		5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	0.379	J B	1.00	0.200
75-69-4	Trichlorofluoromethane	ND		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		1.00	0.330
75-01-4	Vinyl chloride	ND		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		70-130
2037-26-5	Toluene-d8 (Surr)	109		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP33\20131113-28397.b\11131335.D
Lims ID: 490-39437-A-1 Lab Sample ID: 490-39437-1
Client ID: MW-06-GW-001
Sample Type: Client
Inject. Date: 14-Nov-2013 00:29:30 ALS Bottle#: 35 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 490-39437-A-1
Misc. Info.: 490-0028397-007
Operator ID: JJR Instrument ID: HP33

Method: \\Nvlchrom\ChromData\HP33\20131113-28397.b\8260HP33.m
Limit Group: MSV 8260B ICAL
Last Update: 14-Nov-2013 10:46:59 Calib Date: 19-Oct-2013 00:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D

Column 1 : Detector MS SCAN
Process Host: XAWRK035

First Level Reviewer: redmondj Date: 14-Nov-2013 10:46:59

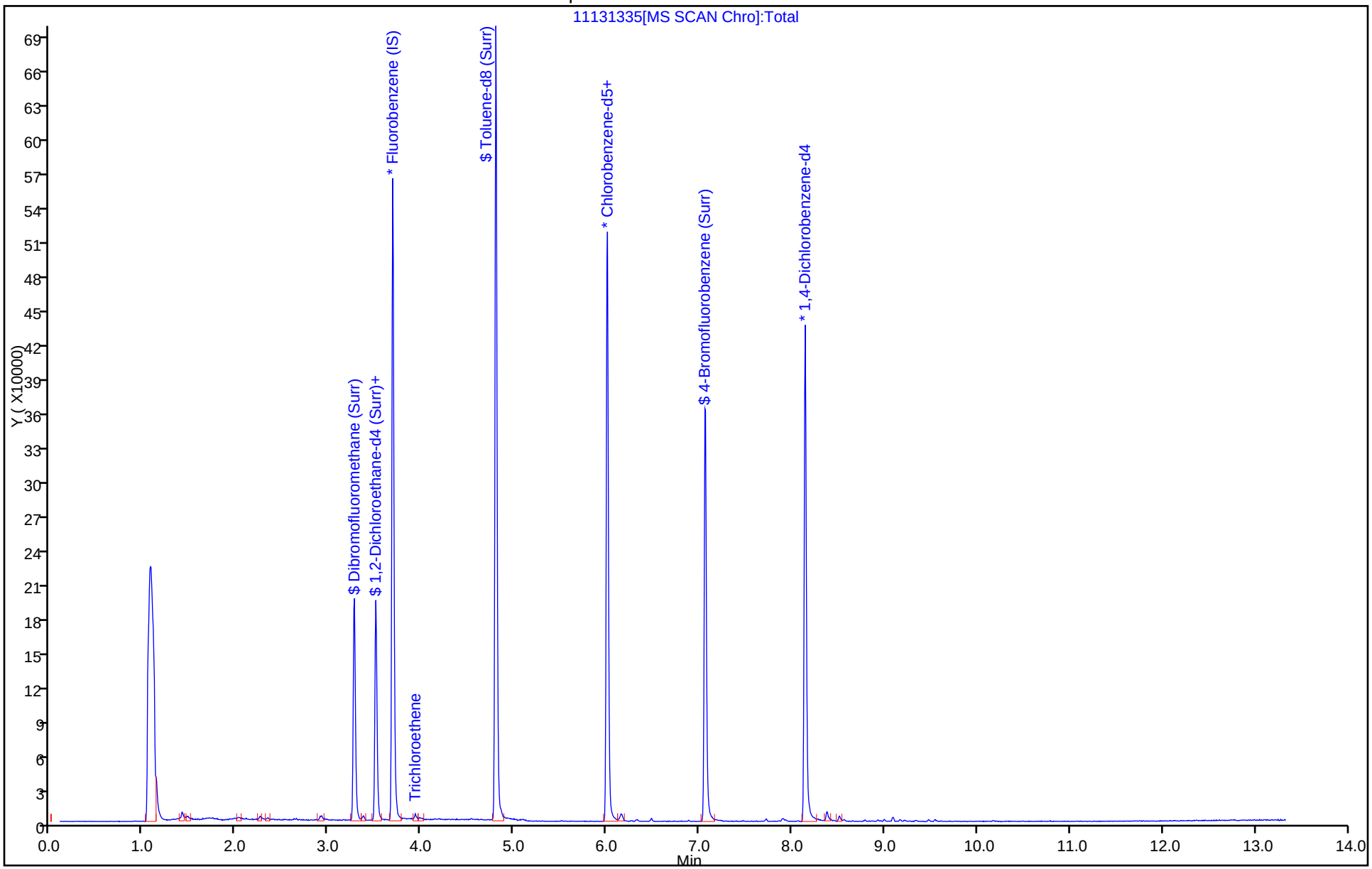
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.689	3.686	0.003	99	435497	30.0	
* 2 Chlorobenzene-d5	117	6.007	6.004	0.003	85	286045	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.142	8.139	0.003	93	127028	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.276	3.272	0.004	75	102929	29.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.507	3.503	0.004	91	112070	27.4	
$ 6 Toluene-d8 (Surr)	98	4.802	4.805	-0.003	93	416332	32.7	
$ 7 4-Bromofluorobenzene (Surr)	95	7.059	7.062	-0.003	92	125752	28.3	
62 Trichloroethene	130	3.939	3.929	0.010	52	1310	0.3795	

Report Date: 14-Nov-2013 10:46:59 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131113-28397.b\11131335.D

Injection Date:	14-Nov-2013 00:29:30	Instrument ID:	HP33	Operator ID:	JJR
Lims ID:	490-39437-A-1	Lab Sample ID:	490-39437-1	Worklist Smp#:	7
Client ID:	MW-06-GW-001				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	35
Method:	8260HP33	Limit Group:	MSV 8260B ICAL		



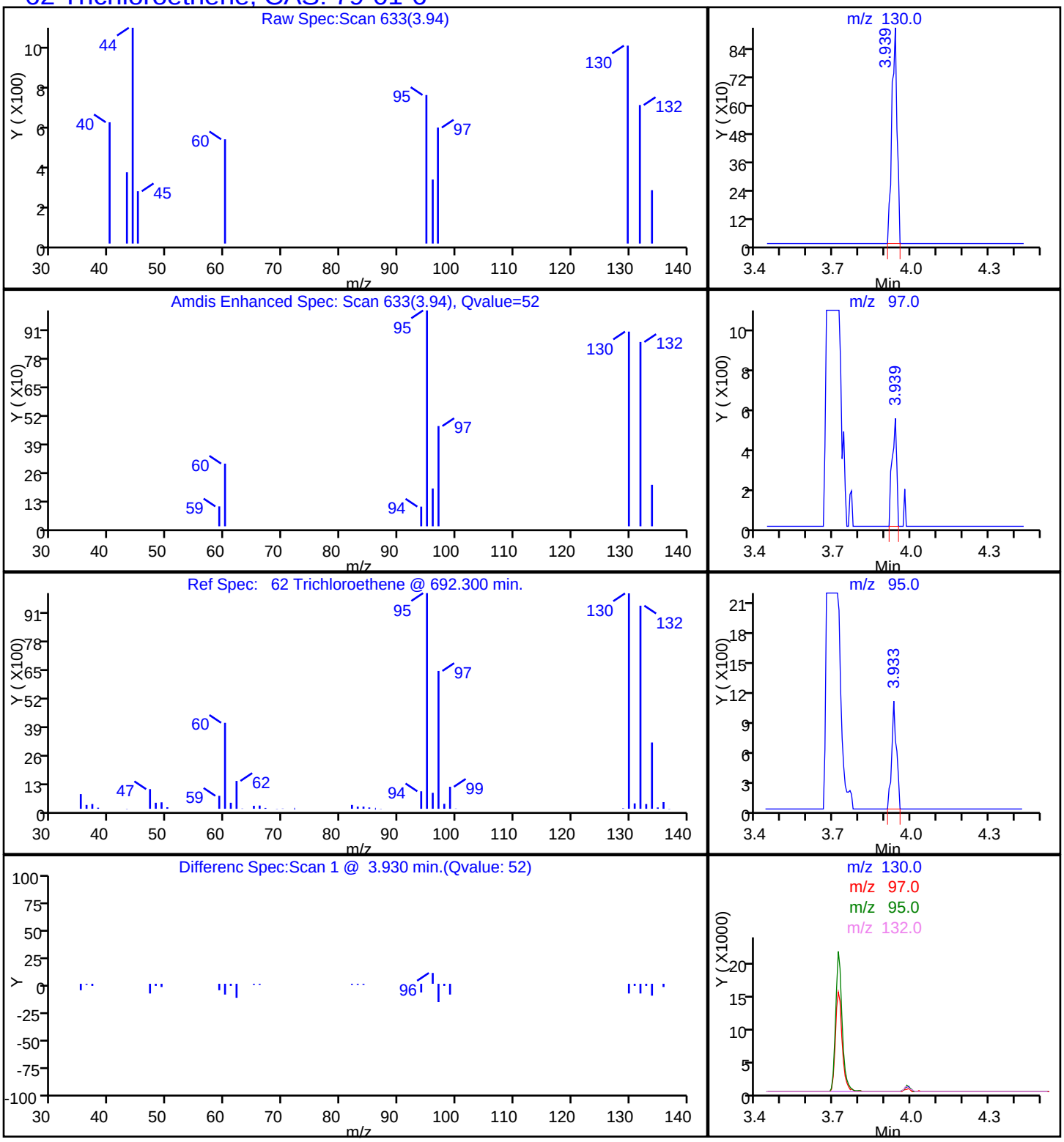
Report Date: 14-Nov-2013 10:46:59 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131113-28397.b\11131335.D

Injection Date:	14-Nov-2013 00:29:30	Instrument ID:	HP33
Lims ID:	490-39437-A-1	Lab Sample ID:	490-39437-1
Client ID:	MW-06-GW-001		
Operator ID:	JJR	ALS Bottle#:	35 Worklist Smp#: 7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260HP33	Limit Group:	MSV 8260B ICAL
Column:		Detector	MS SCAN

62 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39437-2

SDG No.:

Client Sample ID: MW-07-GW-001 | Lab Sample ID: 490-39437-3

Matrix: Water | Lab File ID: 11131336.D

Analysis Method: 8260B | Date Collected: 11/04/2013 15:28

Sample wt/vol: 5(mL) | Date Analyzed: 11/14/2013 00:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121717 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND		1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	ND		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39437-2

SDG No.:

Client Sample ID: MW-07-GW-001 | Lab Sample ID: 490-39437-3

Matrix: Water | Lab File ID: 11131336.D

Analysis Method: 8260B | Date Collected: 11/04/2013 15:28

Sample wt/vol: 5(mL) | Date Analyzed: 11/14/2013 00:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121717 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND		5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	0.340	J B	1.00	0.200
75-69-4	Trichlorofluoromethane	ND		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		1.00	0.330
75-01-4	Vinyl chloride	ND		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		70-130
1868-53-7	Dibromofluoromethane (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		70-130
2037-26-5	Toluene-d8 (Surr)	108		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP33\20131113-28397.b\11131336.D
Lims ID: 490-39437-A-3 Lab Sample ID: 490-39437-3
Client ID: MW-07-GW-001
Sample Type: Client
Inject. Date: 14-Nov-2013 00:56:30 ALS Bottle#: 36 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 490-39437-A-3
Misc. Info.: 490-0028397-008
Operator ID: JJR Instrument ID: HP33

Method: \\Nvlchrom\ChromData\HP33\20131113-28397.b\8260HP33.m
Limit Group: MSV 8260B ICAL
Last Update: 14-Nov-2013 10:47:11 Calib Date: 19-Oct-2013 00:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D

Column 1 : Detector MS SCAN
Process Host: XAWRK035

First Level Reviewer: redmondj Date: 14-Nov-2013 10:47:11

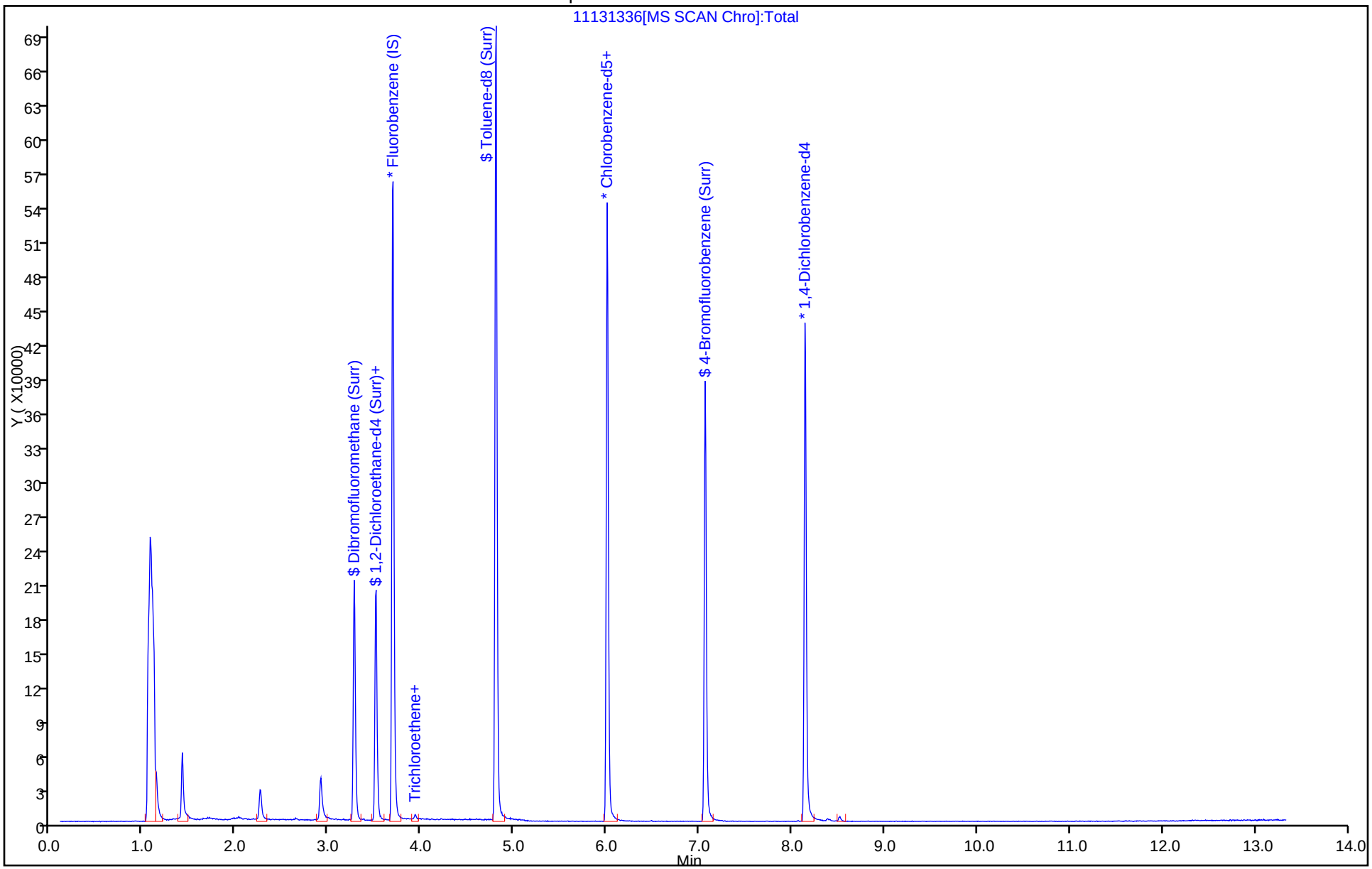
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.692	3.686	0.006	99	446473	30.0	
* 2 Chlorobenzene-d5	117	6.004	6.004	0.0	85	294215	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.139	8.139	0.0	94	127424	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.273	3.272	0.001	75	106761	30.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.510	3.503	0.007	99	116637	27.8	
$ 6 Toluene-d8 (Surr)	98	4.806	4.805	0.001	93	425988	32.5	
$ 7 4-Bromofluorobenzene (Surr)	95	7.063	7.062	0.001	92	124189	27.9	
62 Trichloroethene	130	3.930	3.929	0.001	48	1205	0.3405	

Report Date: 14-Nov-2013 10:47:11 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131113-28397.b\11131336.D

Injection Date:	14-Nov-2013 00:56:30	Instrument ID:	HP33	Operator ID:	JJR
Lims ID:	490-39437-A-3	Lab Sample ID:	490-39437-3	Worklist Smp#:	8
Client ID:	MW-07-GW-001				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	36
Method:	8260HP33	Limit Group:	MSV 8260B ICAL		



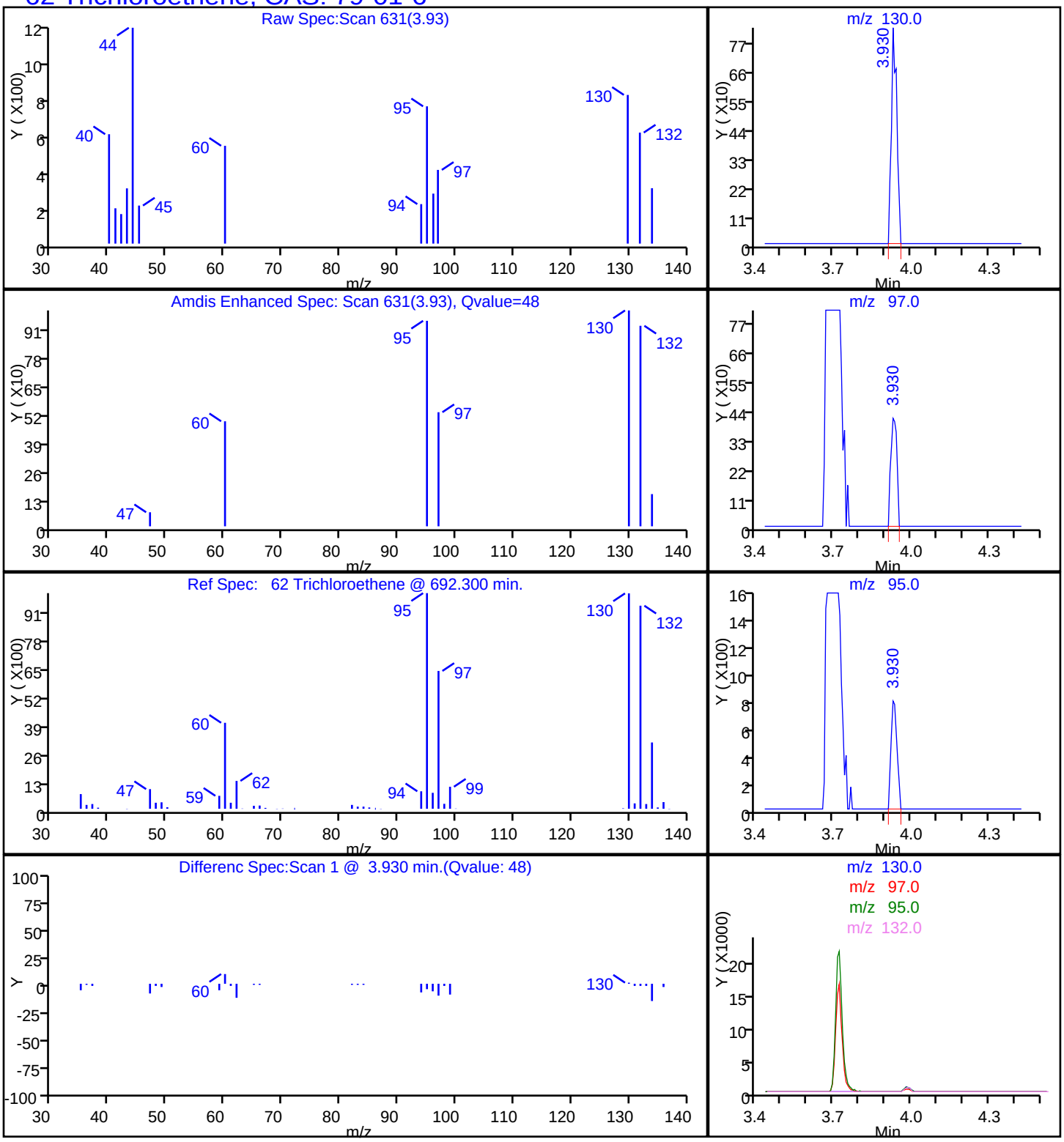
Report Date: 14-Nov-2013 10:47:11 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131113-28397.b\11131336.D

Injection Date:	14-Nov-2013 00:56:30	Instrument ID:	HP33		
Lims ID:	490-39437-A-3	Lab Sample ID:	490-39437-3		
Client ID:	MW-07-GW-001				
Operator ID:	JJR	ALS Bottle#:	36	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260HP33	Limit Group:	MSV 8260B ICAL		
Column:		Detector	MS SCAN		

62 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39437-2

SDG No.:

Client Sample ID: Trip Blank | Lab Sample ID: 490-39437-4

Matrix: Water | Lab File ID: 11131333.D

Analysis Method: 8260B | Date Collected: 11/04/2013 00:01

Sample wt/vol: 5(mL) | Date Analyzed: 11/13/2013 23:35

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121717 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND		1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	ND		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	0.496	J	5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39437-2

SDG No.:

Client Sample ID: Trip Blank | Lab Sample ID: 490-39437-4

Matrix: Water | Lab File ID: 11131333.D

Analysis Method: 8260B | Date Collected: 11/04/2013 00:01

Sample wt/vol: 5(mL) | Date Analyzed: 11/13/2013 23:35

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121717 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND		5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	0.366	J B	1.00	0.200
75-69-4	Trichlorofluoromethane	ND		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		1.00	0.330
75-01-4	Vinyl chloride	ND		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		70-130
2037-26-5	Toluene-d8 (Surr)	108		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP33\20131113-28397.b\11131333.D
Lims ID: 490-39437-A-4 Lab Sample ID: 490-39437-4
Client ID: Trip Blank
Sample Type: Client
Inject. Date: 13-Nov-2013 23:35:30 ALS Bottle#: 33 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 490-39437-A-4
Misc. Info.: 490-0028397-005
Operator ID: JJR Instrument ID: HP33

Method: \\Nvlchrom\ChromData\HP33\20131113-28397.b\8260HP33.m
Limit Group: MSV 8260B ICAL
Last Update: 14-Nov-2013 10:46:24 Calib Date: 19-Oct-2013 00:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D

Column 1 : Detector MS SCAN
Process Host: XAWRK035

First Level Reviewer: redmondj Date: 14-Nov-2013 10:46:23

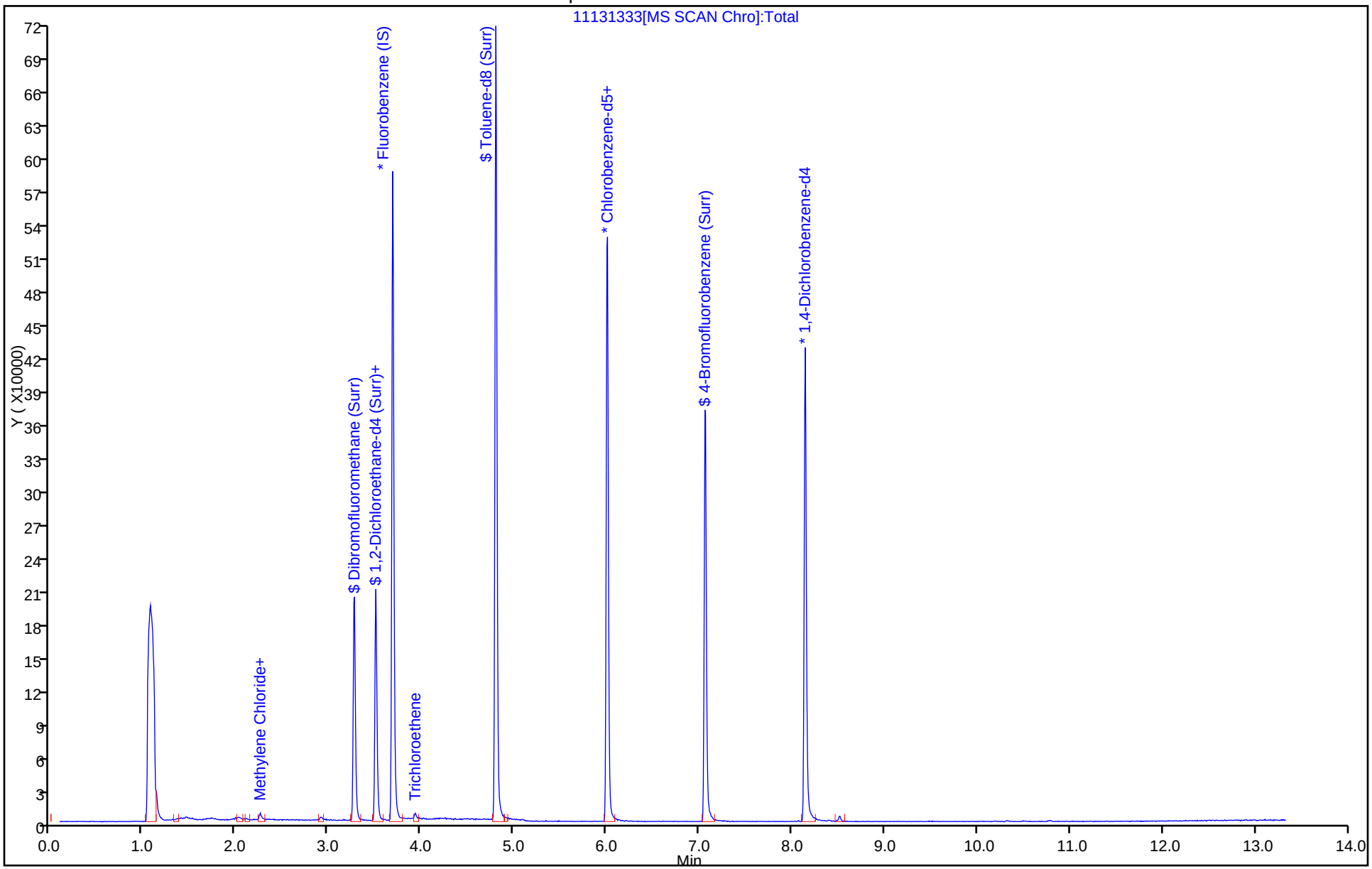
	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
*	1 Fluorobenzene (IS)	96	3.690	3.686	0.004	99	449434	30.0	
*	2 Chlorobenzene-d5	117	6.007	6.004	0.003	84	295690	30.0	
*	3 1,4-Dichlorobenzene-d4	152	8.143	8.139	0.004	93	127448	30.0	
$	4 Dibromofluoromethane (Surr)	111	3.270	3.272	-0.002	58	107305	30.1	
$	5 1,2-Dichloroethane-d4 (Surr)	65	3.507	3.503	0.004	97	116862	27.6	
$	6 Toluene-d8 (Surr)	98	4.803	4.805	-0.002	93	427469	32.4	
$	7 4-Bromofluorobenzene (Surr)	95	7.060	7.062	-0.002	92	126103	28.3	
	30 Methylene Chloride	84	2.260	2.256	0.004	58	1756	0.4959	
	62 Trichloroethene	130	3.933	3.929	0.004	55	1303	0.3657	

Report Date: 14-Nov-2013 10:46:24 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131113-28397.b\11131333.D

Injection Date:	13-Nov-2013 23:35:30	Instrument ID:	HP33	Operator ID:	JJR
Lims ID:	490-39437-A-4	Lab Sample ID:	490-39437-4	Worklist Smp#:	5
Client ID:	Trip Blank				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	33
Method:	8260HP33	Limit Group:	MSV 8260B ICAL		



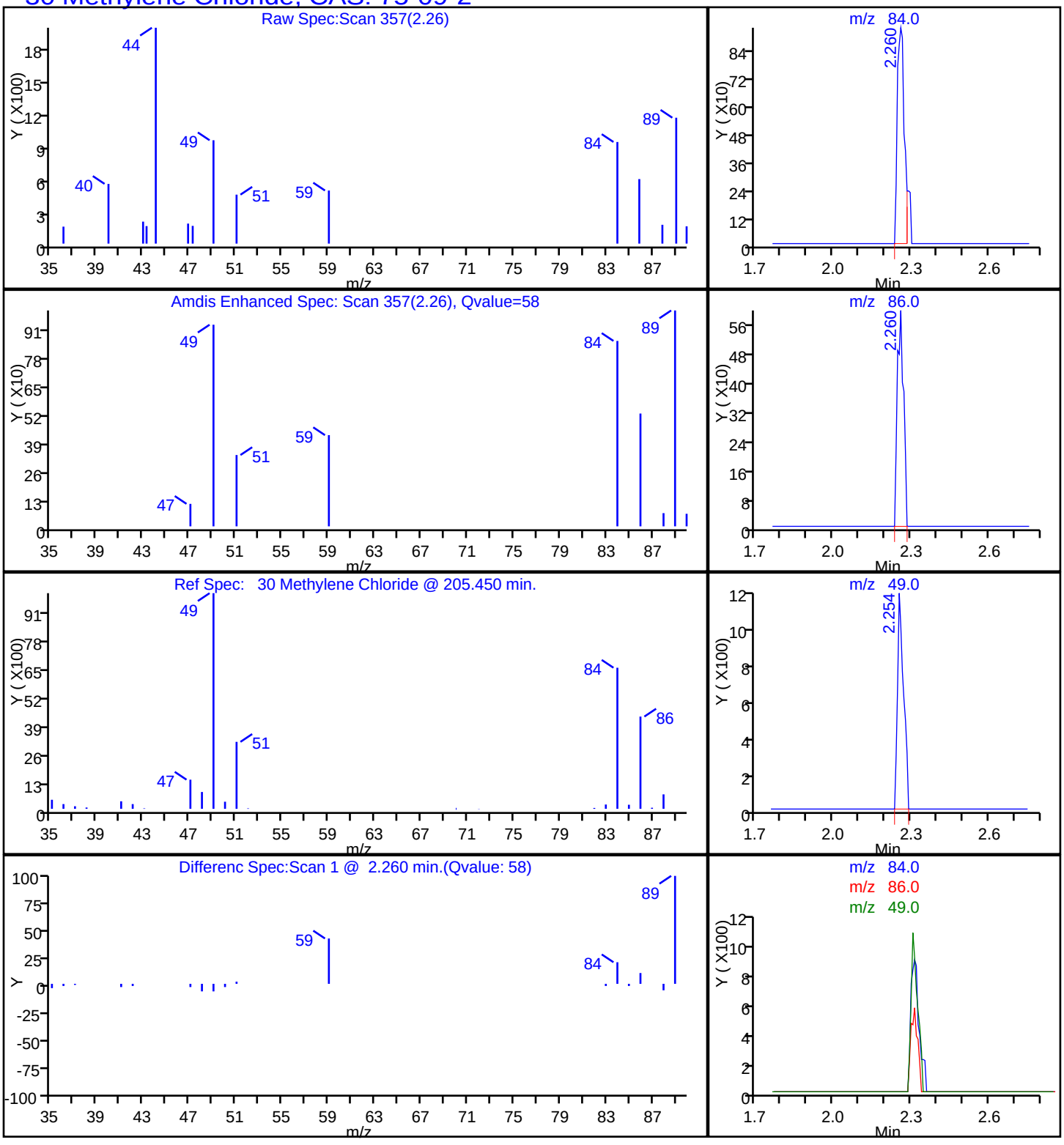
Report Date: 14-Nov-2013 10:46:24 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131113-28397.b\11131333.D

Injection Date:	13-Nov-2013 23:35:30	Instrument ID:	HP33		
Lims ID:	490-39437-A-4	Lab Sample ID:	490-39437-4		
Client ID:	Trip Blank				
Operator ID:	JJR	ALS Bottle#:	33	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260HP33	Limit Group:	MSV 8260B ICAL		
Column:		Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2



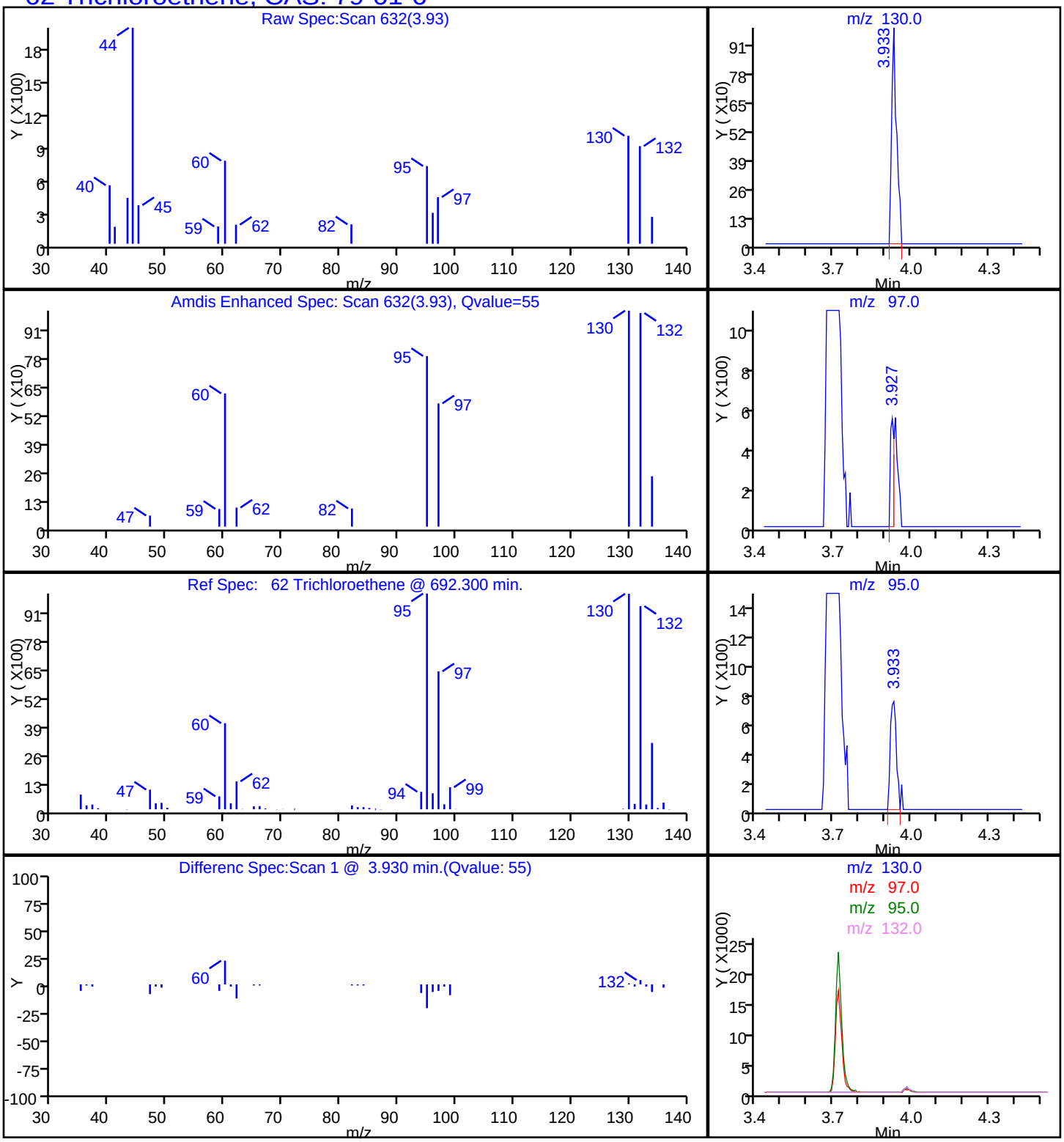
Report Date: 14-Nov-2013 10:46:24 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131113-28397.b\11131333.D

Injection Date:	13-Nov-2013 23:35:30	Instrument ID:	HP33		
Lims ID:	490-39437-A-4	Lab Sample ID:	490-39437-4		
Client ID:	Trip Blank				
Operator ID:	JJR	ALS Bottle#:	33	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260HP33	Limit Group:	MSV 8260B ICAL		
Column:		Detector	MS SCAN		

62 Trichloroethene, CAS: 79-01-6



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39437-2 Analy Batch No.: 115521

SDG No.:

Instrument ID: HP33 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2013 20:11 Calibration End Date: 10/19/2013 00:14 Calibration ID: 19745

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0005 490-115521/2	10181304.D
Level 2	STD001 490-115521/3	10181305.D
Level 3	STD002 490-115521/4	10181306.D
Level 4	STD005 490-115521/5	10181307.D
Level 5	STD010 490-115521/6	10181308.D
Level 6	ICIS 490-115521/7	10181309.D
Level 7	STD050 490-115521/8	10181310.D
Level 8	STD100 490-115521/10	10181312.D
Level 9	STD200 490-115521/11	10181313.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2664 0.2640	0.2523 0.2390	0.2684 0.3046	0.2510 0.2718	0.2763	Ave		0.2660				7.0		15.0			
Chloromethane	0.2735 0.2275	0.2941 0.2198	0.2371 0.2891	0.2327 0.2796	0.2325	Ave		0.2540			0.1000	12.0		15.0			
Vinyl chloride	0.2604 0.2673	0.2789 0.2513	0.2603 0.3185	0.2605 0.2936	0.2789	Ave		0.2744				7.6		15.0			
Butadiene	0.2430 0.2586	0.2723 0.2427	0.2405 0.3063	0.2464 0.2811	0.2712	Ave		0.2625				8.5		15.0			
Bromomethane	0.0586 0.0628	0.0658 0.0780	0.0526 0.1244	0.0483 0.1227	0.0601	Lin	-0.683	0.1253							0.9920		0.9900
Chloroethane	0.3317 0.1772	0.1647 0.1640	0.1957 0.2027	0.1913 0.1947	0.1836	Ave		0.1842				7.9		15.0			
Dichlorofluoromethane	0.4279 0.4221	0.4453 0.4041	0.4257 0.4949	0.4223 0.4656	0.4410	Ave		0.4388				6.2		15.0			
Trichlorofluoromethane	0.2973 0.3618	0.3656 0.3415	0.3266 0.4290	0.3414 0.4002	0.3869	Ave		0.3611				11.0		15.0			
Diethyl ether	0.2035 0.1985	0.1910 0.1894	0.1731 0.2314	0.1954 0.2157	0.2064	Ave		0.2005				8.3		15.0			
Ethanol	0.0035 0.0048	0.0032 0.0045	0.0056 0.0056	0.0049 0.0054	0.0050	Lin1	-0.067	0.0053							0.9960		0.9900
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.2124 0.2106	0.2020 0.1960	0.2090 0.2474	0.2029 0.2311	0.2190	Ave		0.2145				7.5		15.0			
Acrolein	0.0442 0.0341	0.0431 0.0342	0.0376 0.0418	0.0380 0.0403	0.0376	Ave		0.0390				9.3		15.0			
1,1-Dichloroethene	0.1858 0.1962	0.1867 0.1811	0.1837 0.2239	0.1878 0.2146	0.1969	Ave		0.1952				7.6		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39437-2 Analy Batch No.: 115521

SDG No.:

Instrument ID: HP33 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2013 20:11 Calibration End Date: 10/19/2013 00:14 Calibration ID: 19745

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Acetone	0.0928 0.0225	0.0595 0.0204	0.0375 0.0256	0.0278 0.0245	0.0259	Lin1	0.1581	0.0237							0.9940		0.9900
Iodomethane	+++++ 0.1370	+++++ 0.1578	0.0354 0.2021	0.0784 0.1876	0.1096	Lin1	-0.741	0.1929							0.9940		0.9900
Isopropyl alcohol	+++++ 0.0102	0.0115 0.0099	0.0096 0.0117	0.0097 0.0115	0.0109	Ave		0.0106				8.4		15.0			
Carbon disulfide	0.7514 0.6165	0.7030 0.5790	0.6325 0.7233	0.5947 0.6708	0.6349	Ave		0.6562				9.1		15.0			
3-Chloro-1-propene	0.1707 0.1509	0.1631 0.1391	0.1456 0.1598	0.1429 0.1524	0.1562	Ave		0.1534				6.6		15.0			
Acetonitrile	0.0196 0.0290	0.0361 0.0256	0.0366 0.0304	0.0288 0.0253	0.0301	Ave		0.0302				14.0		15.0			
Methyl acetate	0.2445 0.2442	0.2604 0.2370	0.2366 0.2774	0.2403 0.2568	0.2502	Ave		0.2497				5.3		15.0			
Methylene Chloride	0.2449 0.2199	0.2489 0.2120	0.2290 0.2609	0.2287 0.2470	0.2358	Ave		0.2363				6.6		15.0			
tert-Butyl alcohol (TBA)	0.0140 0.0165	0.0168 0.0166	0.0176 0.0195	0.0175 0.0199	0.0185	Ave		0.0174				10.0		15.0			
Methyl tert-butyl ether	0.6809 0.6643	0.6743 0.6407	0.6591 0.7757	0.6709 0.7325	0.6901	Ave		0.6876				6.0		15.0			
trans-1,2-Dichloroethene	0.3083 0.3166	0.3265 0.2978	0.3196 0.3720	0.3142 0.3513	0.3217	Ave		0.3253				7.0		15.0			
Acrylonitrile	0.0944 0.0959	0.1001 0.0937	0.0998 0.1133	0.1009 0.1058	0.1021	Ave		0.1007				6.1		15.0			
Hexane	0.4210 0.3672	0.4128 0.3388	0.3896 0.4268	0.3644 0.3973	0.3811	Ave		0.3888				7.5		15.0			
Diisopropyl ether	0.8521 0.8100	0.9117 0.7804	0.8338 0.9443	0.8249 0.8901	0.8427	Ave		0.8545				6.1		15.0			
1,1-Dichloroethane	0.3499 0.4271	0.4280 0.4076	0.4125 0.5082	0.4309 0.4812	0.4452	Ave		0.4323			0.1000	10.0		15.0			
Vinyl acetate	0.6758 0.6333	0.6438 0.5960	0.6456 0.7088	0.6345 0.6822	0.6597	Ave		0.6533				5.0		15.0			
Chloroprene	0.3557 0.3752	0.3889 0.3509	0.3680 0.4369	0.3565 0.4129	0.3894	Ave		0.3816				7.5		15.0			
Ethyl tert-butyl ether	0.6963 0.7391	0.7396 0.7094	0.7229 0.8665	0.7445 0.8073	0.7567	Ave		0.7536				7.0		15.0			
2,2-Dichloropropane	0.3281 0.3250	0.3450 0.3149	0.3411 0.3902	0.3330 0.3660	0.3353	Ave		0.3421				6.7		15.0			
cis-1,2-Dichloroethene	0.3785 0.3911	0.3906 0.3802	0.4084 0.4686	0.3965 0.4443	0.4067	Ave		0.4072				7.4		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39437-2 Analy Batch No.: 115521

SDG No.:

Instrument ID: HP33 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2013 20:11 Calibration End Date: 10/19/2013 00:14 Calibration ID: 19745

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Ethyl acetate	0.4215 0.3843	0.4171 0.3873	0.3721 0.4677	0.4017 0.4397	0.4116	Ave		0.4114				7.2		15.0			
2-Butanone (MEK)	0.0332 0.0261	0.0273 0.0283	0.0278 0.0338	0.0277 0.0328	0.0294	Ave		0.0296				9.8		15.0			
Propionitrile	0.0399 0.0352	0.0355 0.0347	0.0343 0.0413	0.0345 0.0394	0.0365	Ave		0.0368				7.2		15.0			
Bromochloromethane	0.1036 0.1240	0.1211 0.1202	0.1346 0.1476	0.1222 0.1373	0.1268	Ave		0.1264				9.9		15.0			
Methacrylonitrile	0.1742 0.1695	0.1777 0.1670	0.1717 0.1962	0.1719 0.1773	0.1796	Ave		0.1761				4.9		15.0			
Tetrahydrofuran	0.1604 0.1018	0.1229 0.1006	0.1175 0.1221	0.1055 0.1189	0.1110	Ave		0.1179				15.0		15.0			
Chloroform	0.4592 0.3916	0.4044 0.3729	0.4054 0.4564	0.4061 0.4350	0.3952	Ave		0.4140				7.2		15.0			
Cyclohexane	0.4232 0.4437	0.4512 0.4122	0.4433 0.5221	0.4223 0.4921	0.4504	Ave		0.4512				7.8		15.0			
1,1,1-Trichloroethane	0.3357 0.3363	0.3390 0.3179	0.3222 0.3955	0.3090 0.3754	0.3296	Ave		0.3401				8.2		15.0			
Carbon tetrachloride	0.2697 0.2698	0.2790 0.2636	0.2622 0.3404	0.2604 0.3240	0.2773	Ave		0.2829				10.0		15.0			
1,1-Dichloropropene	0.2843 0.3041	0.3218 0.2849	0.3053 0.3577	0.2871 0.3376	0.3163	Ave		0.3110				8.1		15.0			
Isobutanol	0.0363 0.0220	0.0220 0.0215	0.0245 0.0255	0.0235 0.0254	0.0232	Ave		0.0235				6.8		15.0			
Benzene	0.9363 0.9337	0.9721 0.8923	0.9726 1.0978	0.9356 1.0074	0.9710	Ave		0.9688				6.0		15.0			
Tert-amyl methyl ether	0.6428 0.6624	0.6435 0.6453	0.6268 0.7893	0.6706 0.7417	0.6755	Ave		0.6775				7.9		15.0			
1,2-Dichloroethane	0.2664 0.3087	0.3070 0.2988	0.2953 0.3627	0.3139 0.3399	0.3245	Ave		0.3130				8.8		15.0			
Heptane	0.4602 0.3898	0.3940 0.3706	0.3940 0.4621	0.3849 0.4266	0.4000	Ave		0.4091				8.1		15.0			
n-Butanol	+++++ 0.0049	0.0056 0.0049	0.0048 0.0058	0.0049 0.0059	0.0053	Ave		0.0052				8.7		15.0			
Trichloroethene	0.2159 0.2320	0.2273 0.2236	0.2236 0.2759	0.2384 0.2608	0.2427	Ave		0.2378				8.2		15.0			
Cyclohexanone	0.0698 0.0652	0.0706 0.0637	0.0689 0.0786	0.0657 0.0744	0.0697	Ave		0.0696				6.7		15.0			
Ethyl acrylate	0.6977 0.6525	0.7064 0.6373	0.6890 0.7859	0.6571 0.7442	0.6971	Ave		0.6963				6.7		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39437-2 Analy Batch No.: 115521

SDG No.:

Instrument ID: HP33 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2013 20:11 Calibration End Date: 10/19/2013 00:14 Calibration ID: 19745

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Methylcyclohexane	0.4061 0.4257	0.4180 0.4017	0.4339 0.5089	0.4205 0.4752	0.4428	Ave		0.4370				7.9		15.0			
1,2-Dichloropropane	0.2382 0.2492	0.2465 0.2390	0.2399 0.2912	0.2447 0.2739	0.2515	Ave		0.2527				7.1		15.0			
Methyl methacrylate	0.2536 0.2343	0.2596 0.2293	0.2297 0.2799	0.2340 0.2671	0.2359	Ave		0.2471				7.5		15.0			
Dibromomethane	0.1385 0.1362	0.1289 0.1290	0.1241 0.1591	0.1286 0.1519	0.1298	Ave		0.1362				8.7		15.0			
1,4-Dioxane	0.0110 0.0020	0.0059 0.0018	0.0036 0.0021	0.0026 0.0021	0.0024	Lin2	0.0652	0.0020							0.9940		0.9900
Bromodichloromethane	0.2710 0.2797	0.2564 0.2836	0.2450 0.3573	0.2640 0.3432	0.2814	Ave		0.2869				13.0		15.0			
2-Nitropropane	0.0763 0.0916	0.0853 0.0968	0.0989 0.1243	0.0963 0.1269	0.0873	Ave		0.1032				15.0		15.0			
2-Chloroethyl vinyl ether	0.1950 0.2122	0.1889 0.2122	0.2096 0.2544	0.1985 0.2384	0.2261	Ave		0.2150				9.9		15.0			
cis-1,3-Dichloropropene	0.4330 0.4942	0.4215 0.4927	0.4294 0.6174	0.4650 0.5728	0.5027	Ave		0.4921				14.0		15.0			
4-Methyl-2-pentanone (MIBK)	0.1371 0.1246	0.1224 0.1266	0.1154 0.1542	0.1219 0.1505	0.1266	Ave		0.1310				10.0		15.0			
Toluene	1.3694 1.3720	1.3744 1.3128	1.3700 1.6108	1.3860 1.4575	1.4228	Ave		1.4084				6.1		15.0			
trans-1,3-Dichloropropene	0.3443 0.4158	0.3853 0.4248	0.3740 0.5330	0.3692 0.5086	0.4097	Ave		0.4183				15.0		15.0			
Ethyl methacrylate	0.3678 0.4319	0.3709 0.4262	0.4155 0.5337	0.4038 0.5075	0.4356	Ave		0.4325				13.0		15.0			
1,1,2-Trichloroethane	0.2150 0.2787	0.2905 0.2659	0.2733 0.3266	0.2786 0.3048	0.2826	Ave		0.2796				11.0		15.0			
Tetrachloroethene	0.3551 0.3490	0.3683 0.3312	0.3628 0.4151	0.3407 0.3824	0.3572	Ave		0.3624				6.8		15.0			
1,3-Dichloropropane	0.4898 0.4942	0.4952 0.4810	0.5006 0.5836	0.4909 0.5444	0.5059	Ave		0.5095				6.5		15.0			
2-Hexanone	0.1049 0.1161	0.1129 0.1194	0.1077 0.1467	0.1129 0.1435	0.1205	Ave		0.1205				12.0		15.0			
n-Butyl acetate	0.1722 0.1789	0.1519 0.1757	0.1325 0.2125	0.1670 0.2134	0.1863	Ave		0.1767				15.0		15.0			
Chlorodibromomethane	0.1830 0.2227	0.1929 0.2282	0.1992 0.2952	0.2076 0.2811	0.2188	Lin1	-0.191	0.2757							0.9920		0.9900
1,2-Dibromoethane (EDB)	0.2838 0.2886	0.2888 0.2807	0.2806 0.3426	0.2828 0.3182	0.2894	Ave		0.2951				7.2		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39437-2 Analy Batch No.: 115521

SDG No.:

Instrument ID: HP33 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2013 20:11 Calibration End Date: 10/19/2013 00:14 Calibration ID: 19745

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Chlorobenzene	0.8921 0.9042	0.9355 0.8721	0.9012 1.0564	0.9020 0.9742	0.9350	Ave		0.9303			0.3000	6.0		15.0			
Ethylbenzene	1.6209 1.5913	1.6020 1.5265	1.6171 1.8743	1.5494 1.6837	1.6293	Ave		1.6327				6.2		15.0			
1,1,1,2-Tetrachloroethane	0.2750 0.3001	0.2710 0.3059	0.2862 0.3856	0.2781 0.3645	0.3104	Ave		0.3085				13.0		15.0			
m,p-Xylene	1.2992 1.2174	1.2238 1.1788	1.2658 1.4569	1.2068 1.3137	1.2448	Ave		1.2675				6.6		15.0			
o-Xylene	1.1923 1.2397	1.2302 1.1911	1.2020 1.4699	1.1872 1.3418	1.2469	Ave		1.2557				7.5		15.0			
Styrene	0.8701 1.0212	0.9225 1.0084	0.9632 1.2488	0.9781 1.1523	1.0284	Ave		1.0214				11.0		15.0			
Bromoform	0.1491 0.1793	0.1399 0.2006	0.1578 0.2591	0.1638 0.2455	0.1771	Lin1	-0.213	0.2407			0.1000				0.9900		0.9900
Isopropylbenzene	1.5113 1.5697	1.5504 1.5269	1.5465 1.8759	1.5326 1.6697	1.6352	Ave		1.6020				7.2		15.0			
Bromobenzene	1.3666 1.2602	1.2562 1.1971	1.3317 1.4682	1.2865 1.3746	1.3270	Ave		1.3187				6.1		15.0			
1,1,2,2-Tetrachloroethane	0.7281 0.7686	0.7634 0.7340	0.8275 0.8870	0.7708 0.8438	0.8060	Ave		0.7921			0.3000	6.7		15.0			
N-Propylbenzene	4.1373 4.0634	3.9524 3.8279	4.0344 4.6612	4.1039 4.1676	4.1867	Ave		4.1261				5.6		15.0			
1,2,3-Trichloropropane	0.2780 0.2599	0.2427 0.2476	0.2613 0.3015	0.2860 0.2832	0.2802	Ave		0.2711				7.2		15.0			
trans-1,4-Dichloro-2-butene	+++++ 0.2211	0.1257 0.2329	0.1952 0.2783	0.1991 0.2845	0.2067	Ave		0.2371				15.0		15.0			
2-Chlorotoluene	2.2825 2.3004	2.4343 2.1718	2.3481 2.6464	2.4018 2.4279	2.3055	Ave		2.3687				5.6		15.0			
1,3,5-Trimethylbenzene	2.7059 2.7710	2.7107 2.6281	2.6885 3.2049	2.7965 2.9380	2.8374	Ave		2.8090				6.2		15.0			
4-Chlorotoluene	2.4203 2.4458	2.3140 2.2949	2.4913 2.8395	2.4674 2.6126	2.5157	Ave		2.4890				6.6		15.0			
tert-Butylbenzene	2.2213 2.4131	2.4180 2.2768	2.3007 2.8253	2.4746 2.5784	2.4489	Ave		2.4397				7.4		15.0			
1,2,4-Trimethylbenzene	2.6582 2.8381	2.6329 2.7027	2.8037 3.2700	2.8497 2.9803	2.8933	Ave		2.8477				6.8		15.0			
sec-Butylbenzene	3.2734 3.5857	3.4222 3.4143	3.5515 4.1741	3.5721 3.7090	3.6332	Ave		3.5928				7.1		15.0			
p-Isopropyltoluene	2.9162 3.1086	2.7864 2.9726	2.9567 3.6977	3.0473 3.3797	3.1298	Ave		3.1106				8.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39437-2 Analy Batch No.: 115521

SDG No.:

Instrument ID: HP33 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2013 20:11 Calibration End Date: 10/19/2013 00:14 Calibration ID: 19745

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,3-Dichlorobenzene	1.5652 1.5392	1.5145 1.4553	1.4835 1.7757	1.5122 1.6389	1.5364	Ave		1.5579				6.2		15.0			
1,4-Dichlorobenzene	1.6738 1.5262	1.5476 1.4352	1.5441 1.7852	1.5800 1.6465	1.5222	Ave		1.5845				6.5		15.0			
1,2,3-Trimethylbenzene	2.7672 2.8281	2.8797 2.6773	2.7412 3.2464	2.8271 2.9557	2.8589	Ave		2.8646				5.7		15.0			
Benzyl chloride	0.4494 0.5686	0.4471 0.6542	0.4437 0.8432	0.4815 0.7893	0.5487	Lin1	-2.397	0.8014							0.9930		0.9900
n-Butylbenzene	2.5673 2.7247	2.4868 2.6009	2.4548 3.2405	2.5531 2.9509	2.6580	Ave		2.6930				9.4		15.0			
1,2-Dichlorobenzene	1.4370 1.3928	1.3187 1.3285	1.3579 1.6311	1.4120 1.4893	1.4240	Ave		1.4213				6.7		15.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1674	0.1337 0.1625	0.1294 0.2108	0.1519 0.1973	0.1619	Lin1	-0.223	0.1969							0.9940		0.9900
1,3,5-Trichlorobenzene	0.7894 0.9466	0.8216 0.8927	0.8363 1.1350	0.8735 1.0528	0.9516	Ave		0.9222				12.0		15.0			
1,2,4-Trichlorobenzene	0.6813 0.8017	0.7359 0.7688	0.7517 0.9779	0.7365 0.9249	0.8041	Ave		0.7981				12.0		15.0			
Hexachlorobutadiene	0.4602 0.4099	0.4330 0.3800	0.4329 0.4881	0.3922 0.4556	0.4012	Ave		0.4281				8.3		15.0			
Naphthalene	2.8240 2.3661	2.4397 2.2713	2.2680 2.8407	2.2856 2.6346	2.3359	Ave		2.4740				9.4		15.0			
1,2,3-Trichlorobenzene	0.7017 0.7298	0.6428 0.6894	0.6569 0.8969	0.7174 0.8392	0.7387	Ave		0.7347				11.0		15.0			
Dibromofluoromethane (Surr)	0.2324 0.2384	0.2360 0.2411	0.2355 0.2411	0.2346 0.2431	0.2388	Ave		0.2379				1.5		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2792 0.2872	0.2819 0.2768	0.2803 0.2836	0.2819 0.2832	0.2854	Ave		0.2822				1.1		15.0			
Toluene-d8 (Surr)	1.3695 1.3225	1.3342 1.3165	1.3514 1.3306	1.3297 1.3261	1.3484	Ave		1.3365				1.3		15.0			
4-Bromofluorobenzene (Surr)	1.0713 1.0504	1.0557 1.0190	1.0671 1.0217	1.0837 1.0368	1.0370	Ave		1.0492				2.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39437-2 Analy Batch No.: 115521

SDG No.:

Instrument ID: HP33 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2013 20:11 Calibration End Date: 10/19/2013 00:14 Calibration ID: 19745

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0005 490-115521/2	10181304.D
Level 2	STD001 490-115521/3	10181305.D
Level 3	STD002 490-115521/4	10181306.D
Level 4	STD005 490-115521/5	10181307.D
Level 5	STD010 490-115521/6	10181308.D
Level 6	ICIS 490-115521/7	10181309.D
Level 7	STD050 490-115521/8	10181310.D
Level 8	STD100 490-115521/10	10181312.D
Level 9	STD200 490-115521/11	10181313.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Dichlorodifluoromethane	FB	Ave	2242 89974	4298 207149	8944 511137	20746 923077	44842	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Chloromethane	FB	Ave	2302 77526	5009 190500	7902 485057	19235 949581	37748	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Vinyl chloride	FB	Ave	2192 91095	4751 217797	8673 534324	21532 997131	45274	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Butadiene	FB	Ave	2045 88131	4638 210303	8015 513971	20360 954630	44028	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Bromomethane	FB	Lin	493 21412	1121 67580	1753 208748	3995 416597	9750	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Chloroethane	FB	Ave	2792 60374	2805 142090	6520 340027	15809 661093	29807	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Dichlorofluoromethane	FB	Ave	3601 143830	7585 350201	14187 830329	34899 1581012	71581	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Trichlorofluoromethane	FB	Ave	2502 123293	6228 295928	10884 719719	28217 1359058	62795	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Diethyl ether	FB	Ave	1713 67630	3254 164126	5768 388180	16151 732350	33496	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Ethanol	FB	Lin1	1483 81072	2691 196421	9401 469765	20211 911450	40511	25.0 1000	50.0 2500	100 5000	250 10000	500
1,1,2-Trichloro-1,2,2-trichfluoroethane	FB	Ave	1788 71781	3440 169830	6966 415105	16770 784865	35544	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Acrolein	FB	Ave	929 29013	1834 74022	3131 175253	7849 342035	15249	1.25 50.0	2.50 125	5.00 250	12.5 500	25.0
1,1-Dichloroethene	FB	Ave	1564 66865	3180 156923	6121 375677	15523 728736	31956	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Acetone	FB	Lin1	3904 38379	5065 88376	6242 214790	11476 415248	21019	2.50 100	5.00 250	10.0 500	25.0 1000	50.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39437-2 Analy Batch No.: 115521

SDG No.:

Instrument ID: HP33 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2013 20:11 Calibration End Date: 10/19/2013 00:14 Calibration ID: 19745

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Iodomethane	FB	Lin1	+++++ 46686	+++++ 136795	1180 339021	6483 636929	17789	+++++ 20.0	+++++ 50.0	2.00 100	5.00 200	10.0
Isopropyl alcohol	FB	Ave	+++++ 34863	1963 85739	3187 195761	7996 391309	17771	+++++ 200	10.0 500	20.0 1000	50.0 2000	100
Carbon disulfide	FB	Ave	6324 210074	11974 501830	21079 1213578	49150 2277834	103055	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
3-Chloro-1-propene	FB	Ave	1437 51430	2778 120546	4852 268195	11808 517452	25351	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Acetonitrile	FB	Ave	1652 98969	6157 221463	12186 509224	23766 860517	48882	5.00 200	10.0 500	20.0 1000	50.0 2000	100
Methyl acetate	FB	Ave	10290 416057	22178 1027082	39420 2326734	99295 4359314	203084	2.50 100	5.00 250	10.0 500	25.0 1000	50.0
Methylene Chloride	FB	Ave	2061 74943	4240 183724	7631 437743	18900 838855	38273	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
tert-Butyl alcohol (TBA)	FB	Ave	1179 56215	2864 143738	5868 326559	14430 675315	30057	5.00 200	10.0 500	20.0 1000	50.0 2000	100
Methyl tert-butyl ether	FB	Ave	5731 226369	11485 555257	21963 1301430	55451 2487341	112019	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
trans-1,2-Dichloroethene	FB	Ave	2595 107887	5561 258055	10649 624157	25971 1192924	52221	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Acrylonitrile	FB	Ave	7945 326664	17051 812038	33251 1900185	83431 3594080	165780	5.00 200	10.0 500	20.0 1000	50.0 2000	100
Hexane	FB	Ave	3543 125144	7031 293618	12983 716171	30116 1349065	61854	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Diisopropyl ether	FB	Ave	7172 276006	15530 676380	27785 1584441	68173 3022531	136793	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,1-Dichloroethane	FB	Ave	2945 145527	7291 353253	13747 852623	35610 1634154	72273	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Vinyl acetate	FB	Ave	11375 431596	21934 1033112	43025 2378441	104881 4633060	214172	1.00 40.0	2.00 100	4.00 200	10.0 400	20.0
Chloroprene	FB	Ave	2994 127860	6625 304069	12263 733082	29461 1402169	63208	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Ethyl tert-butyl ether	FB	Ave	5860 251874	12598 614779	24091 1453895	61530 2741504	122836	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
2,2-Dichloropropane	FB	Ave	2761 110759	5877 272932	11366 654736	27523 1242907	54431	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
cis-1,2-Dichloroethene	FB	Ave	3186 133276	6653 329501	13609 786234	32772 1508655	66016	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Ethyl acetate	FB	Ave	7095 261891	14211 671353	24799 1569410	66396 2986014	133627	1.00 40.0	2.00 100	4.00 200	10.0 400	20.0
2-Butanone (MEK)	FB	Ave	1399 44434	2328 122752	4624 283307	11450 557413	23876	2.50 100	5.00 250	10.0 500	25.0 1000	50.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39437-2 Analy Batch No.: 115521

SDG No.:

Instrument ID: HP33 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2013 20:11 Calibration End Date: 10/19/2013 00:14 Calibration ID: 19745

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Propionitrile	FB	Ave	3357 119998	6050 300445	11444 692378	28531 1337436	59168	5.00 200	10.0 500	20.0 1000	50.0 2000	100
Bromochloromethane	FB	Ave	872 42242	2062 104215	4486 247599	10101 466208	20578	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Methacrylonitrile	FB	Ave	14664 577566	30273 1447596	57211 3292660	142032 6020026	291609	5.00 200	10.0 500	20.0 1000	50.0 2000	100
Tetrahydrofuran	FB	Ave	2700 69395	4188 174364	7833 409801	17443 807525	36047	1.00 40.0	2.00 100	4.00 200	10.0 400	20.0
Chloroform	FB	Ave	3865 133451	6889 323161	13510 765761	33564 1477167	64153	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Cyclohexane	FB	Ave	3562 151206	7685 357206	14772 875926	34903 1671158	73111	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,1,1-Trichloroethane	FB	Ave	2825 114586	5775 275490	10736 663590	25539 1274820	53499	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Carbon tetrachloride	FB	Ave	2270 91932	4752 228485	8739 571187	21517 1100208	45018	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,1-Dichloropropene	FB	Ave	2393 103629	5482 246887	10173 600081	23729 1146523	51347	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Isobutanol	FB	Ave	3052 74977	3742 186329	8174 428565	19436 863397	37713	5.00 200	10.0 500	20.0 1000	50.0 2000	100
Benzene	FB	Ave	7880 318186	16558 773346	32412 1841890	77328 3420951	157620	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Tert-amyl methyl ether	FB	Ave	5410 225735	10961 559223	20887 1324308	55423 2518675	109647	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2-Dichloroethane	FB	Ave	2242 105185	5229 258980	9839 608481	25946 1154213	52680	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Heptane	FB	Ave	3873 132832	6711 321220	13131 775311	31811 1448617	64931	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
n-Butanol	FB	Ave	+++++ 41445	2381 105457	3987 244496	10148 497076	21404	+++++ 500	25.0 1250	50.0 2500	125 5000	250
Trichloroethene	FB	Ave	1817 79058	3872 193824	7450 462980	19707 885601	39393	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Cyclohexanone	FB	Ave	5872 222334	12033 552279	22961 1318604	54305 2527047	113160	5.00 200	10.0 500	20.0 1000	50.0 2000	100
Ethyl acrylate	FB	Ave	5872 222334	12033 552279	22961 1318604	54305 2527047	113160	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Methylcyclohexane	FB	Ave	3418 145067	7120 348123	14460 853914	34750 1613692	71875	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2-Dichloropropane	FB	Ave	2005 84913	4199 207099	7996 488528	20227 930150	40819	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Methyl methacrylate	FB	Ave	4268 159710	8845 397529	15311 939239	38679 1813822	76576	1.00 40.0	2.00 100	4.00 200	10.0 400	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39437-2 Analy Batch No.: 115521

SDG No.:

Instrument ID: HP33 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2013 20:11 Calibration End Date: 10/19/2013 00:14 Calibration ID: 19745

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Dibromomethane	FB	Ave	1166 46425	2195 111797	4137 266880	10628 515833	21070	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,4-Dioxane	FB	Lin2	1845 13727	1995 31464	2395 70098	4361 145123	7782	10.0 400	20.0 1000	40.0 2000	100 4000	200
Bromodichloromethane	FB	Ave	2281 95309	4368 245763	8165 599558	21818 1165254	45684	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
2-Nitropropane	FB	Ave	1284 62431	2905 167717	6593 417265	15922 861740	28347	1.00 40.0	2.00 100	4.00 200	10.0 400	20.0
2-Chloroethyl vinyl ether	CBZ	Ave	1086 49431	2167 125730	4619 294660	11210 582218	25065	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
cis-1,3-Dichloropropene	CBZ	Ave	2411 115126	4836 291952	9466 715178	26260 1399105	55739	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	3816 145108	7024 375017	12720 892843	34435 1837699	70162	2.50 100	5.00 250	10.0 500	25.0 1000	50.0
Toluene	CBZ	Ave	7625 319645	15770 777913	30197 1865807	78275 3560031	157763	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
trans-1,3-Dichloropropene	CBZ	Ave	1917 96870	4421 251692	8243 617419	20850 1242219	45433	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Ethyl methacrylate	CBZ	Ave	2048 100622	4256 252546	9159 618185	22802 1239572	48302	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,1,2-Trichloroethane	CBZ	Ave	1197 64933	3333 157558	6025 378287	15736 744532	31334	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Tetrachloroethene	CBZ	Ave	1977 81315	4226 196269	7997 480832	19244 934012	39605	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,3-Dichloropropane	CBZ	Ave	2727 115132	5682 284984	11034 675996	27721 1329803	56092	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
2-Hexanone	CBZ	Ave	2921 135252	6476 353742	11875 849923	31894 1753150	66800	2.50 100	5.00 250	10.0 500	25.0 1000	50.0
n-Butyl acetate	FB	Ave	1449 60951	2588 152309	4416 356509	13805 724716	30238	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Chlorodibromomethane	CBZ	Lin1	1019 51884	2213 135195	4390 341942	11722 686721	24263	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2-Dibromoethane (EDB)	CBZ	Ave	1580 67244	3314 166345	6184 396859	15972 777192	32088	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Chlorobenzene	CBZ	Ave	4967 210660	10734 516756	19864 1223619	50943 2379635	103672	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Ethylbenzene	CBZ	Ave	9025 370735	18381 904486	35645 2171016	87503 4112676	180660	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	1531 69922	3109 181272	6309 446695	15707 890231	34416	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
m,p-Xylene	CBZ	Ave	7234 283621	14042 698467	27901 1687537	68157 3208847	138020	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39437-2 Analy Batch No.: 115521

SDG No.:

Instrument ID: HP33 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2013 20:11 Calibration End Date: 10/19/2013 00:14 Calibration ID: 19745

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
o-Xylene	CBZ	Ave	6639 288823	14115 705791	26494 1702638	67049 3277580	138257	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Styrene	CBZ	Ave	4845 237904	10584 597501	21232 1446577	55237 2814568	114031	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Bromoform	CBZ	Lin1	830 41764	1605 118847	3478 300076	9251 599693	19638	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Isopropylbenzene	CBZ	Ave	8415 365713	17789 904760	34089 2172946	86555 4078380	181317	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Bromobenzene	DCB	Ave	3412 135489	6475 346747	13129 826581	32508 1610381	68595	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,1,2,2-Tetrachloroethane	DCB	Ave	1818 82628	3935 212594	8158 499351	19476 988539	41667	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
N-Propylbenzene	DCB	Ave	10330 436860	20372 1108776	39775 2624182	103699 4882314	216428	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2,3-Trichloropropane	DCB	Ave	694 27937	1251 71707	2576 169760	7228 331738	14485	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
trans-1,4-Dichloro-2-butene	DCB	Ave	+++++ 23776	648 67466	1924 156665	5032 333285	10684	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0
2-Chlorotoluene	DCB	Ave	5699 247324	12547 629065	23150 1489900	60689 2844280	119180	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,3,5-Trimethylbenzene	DCB	Ave	6756 297918	13972 761239	26506 1804323	70662 3441886	146675	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
4-Chlorotoluene	DCB	Ave	6043 262947	11927 664726	24562 1598595	62346 3060621	130044	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
tert-Butylbenzene	DCB	Ave	5546 259436	12463 659489	22683 1590621	62530 3020605	126595	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2,4-Trimethylbenzene	DCB	Ave	6637 305127	13571 782867	27642 1840960	72006 3491387	149566	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
sec-Butylbenzene	DCB	Ave	8173 385507	17639 988980	35014 2349985	90260 4345036	187816	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
p-Isopropyltoluene	DCB	Ave	7281 334210	14362 861047	29150 2081752	77001 3959267	161792	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,3-Dichlorobenzene	DCB	Ave	3908 165486	7806 421550	14626 999699	38212 1919959	79420	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,4-Dichlorobenzene	DCB	Ave	4179 164088	7977 415727	15223 1005016	39924 1928895	78686	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2,3-Trimethylbenzene	DCB	Ave	6909 304057	14843 775484	27026 1827694	71437 3462603	147785	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Benzyl chloride	CBZ	Lin1	2502 132461	5130 387621	9781 976649	27194 1927845	60845	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
n-Butylbenzene	DCB	Ave	6410 292932	12818 753369	24202 1824371	64513 3456987	137400	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39437-2 Analy Batch No.: 115521

SDG No.:

Instrument ID: HP33 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/18/2013 20:11 Calibration End Date: 10/19/2013 00:14 Calibration ID: 19745

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,2-Dichlorobenzene	DCB	Ave	3588 149744	6797 384817	13388 918273	35680 1744748	73611	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2-Dibromo-3-Chloropropane	DCB	Lin1	+++++ 17998	689 47077	1276 118650	3839 231105	8367	+++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,3,5-Trichlorobenzene	DCB	Ave	1971 101765	4235 258585	8245 639007	22073 1233324	49193	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2,4-Trichlorobenzene	DCB	Ave	1701 86195	3793 222696	7411 550520	18611 1083526	41568	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Hexachlorobutadiene	DCB	Ave	1149 44072	2232 110065	4268 274806	9909 533753	20740	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Naphthalene	DCB	Ave	7051 254387	12575 657901	22360 1599302	57754 3086408	120753	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2,3-Trichlorobenzene	DCB	Ave	1752 78463	3313 199699	6476 504924	18128 983081	38185	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Dibromofluoromethane (Surr)	FB	Ave	117358 121845	120617 125360	117697 121355	116329 123823	116277	30.0 30.0	30.0 30.0	30.0 30.0	30.0 30.0	30.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	141005 146813	144061 143918	140102 142758	139806 144255	138973	30.0 30.0	30.0 30.0	30.0 30.0	30.0 30.0	30.0
Toluene-d8 (Surr)	CBZ	Ave	457520 462180	459230 468031	446811 462397	450556 485885	448544	30.0 30.0	30.0 30.0	30.0 30.0	30.0 30.0	30.0
4-Bromofluorobenzene (Surr)	DCB	Ave	160483 169399	163248 177094	157807 172565	164300 182184	160814	30.0 30.0	30.0 30.0	30.0 30.0	30.0 30.0	30.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181304.D		
Lims ID:	std0005	Client ID:	
Inject. Date:	18-Oct-2013 20:11:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	STD0005		
Misc. Info.:	490-0026993-002		
Operator:	JJR	Instrument ID:	HP33
Purge Vol:	5.000 mL	ALS Bottle#:	4
Lims Batch ID:	115521	Lims Sample ID:	2
Sublist:	chrom-8260HP33*sub13		
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\8260HP33.m		
Last Update:	19-Oct-2013 19:44:36	Calib Date:	19-Oct-2013 00:14:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK030		
First Level Reviewer: redmondj		Date:	19-Oct-2013 19:44:36

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.690	3.689	0.001	99	504983	30.0	
* 2 Chlorobenzene-d5	117	6.002	6.007	-0.005	86	334082	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.143	8.142	0.001	96	149807	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.270	3.269	0.001	80	117358	29.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.508	3.507	0.001	91	141005	29.7	
$ 6 Toluene-d8 (Surr)	98	4.803	4.802	0.001	94	457520	30.7	
$ 7 4-Bromofluorobenzene (Surr)	95	7.060	7.059	0.001	89	160483	30.6	
9 Dichlorodifluoromethane	85	1.171	1.171	0.0	45	2242	0.5007	
10 Chloromethane	50	1.299	1.298	0.001	25	2302	0.5669	M
11 Vinyl chloride	62	1.336	1.335	0.001	39	2192	0.4745	
12 Butadiene	54	1.348	1.353	-0.005	0	2045	0.4629	
13 Bromomethane	96	1.518	1.517	0.001	3	493	4.89	
14 Chloroethane	64	1.567	1.566	0.001	34	2792	0.7531	
15 Dichlorofluoromethane	67	1.683	1.675	0.007	48	3601	0.4876	
16 Trichlorofluoromethane	101	1.689	1.688	0.001	53	2502	0.4116	
18 Ethyl ether	59	1.841	1.840	0.001	69	1713	0.5076	
17 Ethanol	45	1.841	1.840	0.001	38	1483	125.3	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.944	1.943	0.001	43	1788	0.4952	
20 Acrolein	56	1.950	1.949	0.001	37	929	1.42	
21 1,1-Dichloroethene	96	1.975	1.974	0.0	74	1564	0.4760	
22 Acetone	58	2.029	2.028	0.001	96	3904	3.11	
26 Carbon disulfide	76	2.102	2.101	0.001	94	6324	0.5725	
29 Acetonitrile	41	2.175	2.174	0.001	44	1652	2.31	
27 3-Chloro-1-propene	76	2.175	2.174	0.001	35	1437	0.5565	
28 Methyl acetate	43	2.181	2.180	0.001	96	10290	2.45	
30 Methylene Chloride	84	2.254	2.253	0.001	62	2061	0.5181	
31 2-Methyl-2-propanol	59	2.303	2.302	0.001	26	1179	4.02	
32 Methyl tert-butyl ether	73	2.370	2.363	0.007	71	5731	0.4951	
33 trans-1,2-Dichloroethene	61	2.382	2.381	0.001	71	2595	0.4739	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
34 Acrylonitrile	53	2.431	2.424	0.007	94	7945	4.69	
35 Hexane	57	2.486	2.485	0.001	75	3543	0.5414	
36 Isopropyl ether	45	2.619	2.618	0.001	90	7172	0.4986	
37 1,1-Dichloroethane	63	2.644	2.637	0.007	10	2945	0.4047	
38 Vinyl acetate	43	2.644	2.643	0.001	96	11375	1.03	
39 2-Chloro-1,3-butadiene	53	2.674	2.673	0.001	56	2994	0.4661	
40 Tert-butyl ethyl ether	59	2.832	2.831	0.001	86	5860	0.4620	
41 2,2-Dichloropropane	77	2.966	2.965	0.001	68	2761	0.4795	
42 cis-1,2-Dichloroethene	61	2.984	2.983	0.001	49	3186	0.4648	
44 Ethyl acetate	43	2.997	2.996	0.001	78	7095	1.02	
43 2-Butanone (MEK)	72	2.997	2.996	0.001	91	1399	2.81	M
45 Propionitrile	54	3.082	3.081	0.001	63	3357	5.42	
46 Chlorobromomethane	130	3.136	3.135	0.001	57	872	0.4099	
47 Methacrylonitrile	41	3.149	3.142	0.007	93	14664	4.95	
48 Tetrahydrofuran	42	3.149	3.148	0.001	26	2700	1.36	
49 Chloroform	83	3.167	3.166	0.001	50	3865	0.5546	
51 1,1,1-Trichloroethane	97	3.264	3.263	0.001	38	2825	0.4935	
50 Cyclohexane	56	3.264	3.263	0.001	71	3562	0.4690	
53 Carbon tetrachloride	117	3.349	3.348	0.001	57	2270	0.4766	
54 1,1-Dichloropropene	75	3.368	3.367	0.001	53	2393	0.4571	
55 Isobutyl alcohol	43	3.465	3.458	0.007	64	3052	7.15	
56 Benzene	78	3.495	3.500	-0.005	40	7880	0.4832	
58 Tert-amyl methyl ether	73	3.544	3.543	0.001	83	5410	0.4744	
59 1,2-Dichloroethane	62	3.556	3.555	0.001	1	2242	0.4255	
60 n-Heptane	43	3.593	3.598	-0.005	81	3873	0.5624	
62 Trichloroethene	130	3.927	3.926	0.001	64	1817	0.4539	
63 Ethyl acrylate	55	4.012	4.005	0.007	0	5872	0.5010	
64 Cyclohexanone	55	4.012	4.005	0.007	61	5872	5.01	
65 Methylcyclohexane	83	4.012	4.012	0.0	76	3418	0.4647	
66 1,2-Dichloropropane	63	4.116	4.115	0.001	67	2005	0.4714	
68 Methyl methacrylate	41	4.171	4.164	0.007	73	4268	1.03	
69 Dibromomethane	93	4.201	4.206	-0.005	70	1166	0.5084	
70 1,4-Dioxane	88	4.213	4.212	0.001	61	1845	17.8	M
71 Dichlorobromomethane	83	4.304	4.304	0.0	40	2281	0.4724	
73 2-Chloroethyl vinyl ether	63	4.536	4.523	0.014	40	1086	0.4636	
72 2-Nitropropane	43	4.530	4.523	0.008	75	1284	6.37	
74 cis-1,3-Dichloropropene	75	4.639	4.638	0.001	47	2411	0.4400	
75 4-Methyl-2-pentanone (MIBK)	58	4.755	4.748	0.007	84	3816	2.62	
76 Toluene	91	4.858	4.851	0.007	75	7625	0.4862	
77 trans-1,3-Dichloropropene	75	5.089	5.088	0.001	54	1917	0.4115	
78 Ethyl methacrylate	69	5.114	5.100	0.014	33	2048	0.4252	
79 1,1,2-Trichloroethane	97	5.229	5.228	0.001	38	1197	0.3845	
80 Tetrachloroethene	166	5.272	5.271	0.001	71	1977	0.4898	
81 1,3-Dichloropropane	76	5.375	5.374	0.001	43	2727	0.4806	
82 2-Hexanone	58	5.430	5.411	0.019	82	2921	2.18	
83 n-Butyl acetate	43	5.491	5.490	0.001	33	1449	0.4871	
84 Chlorodibromomethane	127	5.533	5.532	0.001	7	1019	0.7461	
85 Ethylene Dibromide	107	5.643	5.636	0.007	37	1580	0.4809	
87 Chlorobenzene	112	6.032	6.031	0.001	61	4967	0.4794	
88 Ethylbenzene	91	6.093	6.092	0.001	82	9025	0.4964	
89 1,1,1,2-Tetrachloroethane	131	6.105	6.104	0.001	17	1531	0.4456	
90 m-Xylene & p-Xylene	91	6.209	6.202	0.007	90	7234	0.5125	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
91 o-Xylene	91	6.561	6.554	0.007	64	6639	0.5387	
92 Styrene	104	6.586	6.579	0.007	59	4845	0.4259	
93 Bromoform	173	6.768	6.767	0.001	19	830	2.61	
94 Isopropylbenzene	105	6.878	6.871	0.007	67	8415	0.4717	
95 Bromobenzene	77	7.188	7.187	0.001	66	3412	0.5182	
96 1,1,2,2-Tetrachloroethane	83	7.231	7.224	0.007	30	1818	0.4596	
97 N-Propylbenzene	91	7.255	7.254	0.001	80	10330	0.5014	
98 1,2,3-Trichloropropane	110	7.285	7.266	0.019	10	694	0.5102	M
100 2-Chlorotoluene	91	7.364	7.357	0.007	76	5699	0.4835	
101 1,3,5-Trimethylbenzene	105	7.431	7.424	0.007	66	6756	0.4816	
102 4-Chlorotoluene	91	7.474	7.467	0.007	69	6043	0.4862	
103 tert-Butylbenzene	119	7.717	7.716	0.001	63	5546	0.4552	
105 1,2,4-Trimethylbenzene	105	7.790	7.783	0.007	62	6637	0.4667	
106 sec-Butylbenzene	105	7.930	7.929	0.001	62	8173	0.4555	
108 1,3-Dichlorobenzene	146	8.076	8.069	0.007	49	3908	0.5024	
107 4-Isopropyltoluene	119	8.070	8.069	0.001	80	7281	0.4688	
109 1,4-Dichlorobenzene	146	8.167	8.160	0.007	60	4179	0.5282	
110 1,2,3-Trimethylbenzene	105	8.186	8.185	0.001	0	6909	0.4830	
111 Benzyl chloride	91	8.313	8.306	0.007	1	2502	2.60	
112 n-Butylbenzene	91	8.472	8.465	0.007	63	6410	0.4767	
113 1,2-Dichlorobenzene	146	8.526	8.519	0.007	46	3588	0.5055	
115 1,3,5-Trichlorobenzene	180	9.463	9.456	0.007	28	1971	0.4280	
116 1,2,4-Trichlorobenzene	180	10.175	10.162	0.013	17	1701	0.4227	
117 Hexachlorobutadiene	225	10.315	10.314	0.001	12	1149	0.5374	
118 Naphthalene	128	10.485	10.460	0.025	55	7051	0.5707	
119 1,2,3-Trichlorobenzene	180	10.771	10.758	0.013	34	1752	0.4775	
S 134 Xylenes, Total	1				0		1.05	
S 135 1,2-Dichloroethene, Total	1				0		0.9387	

QC Flag Legend

Review Flags
M - Manually Integrated

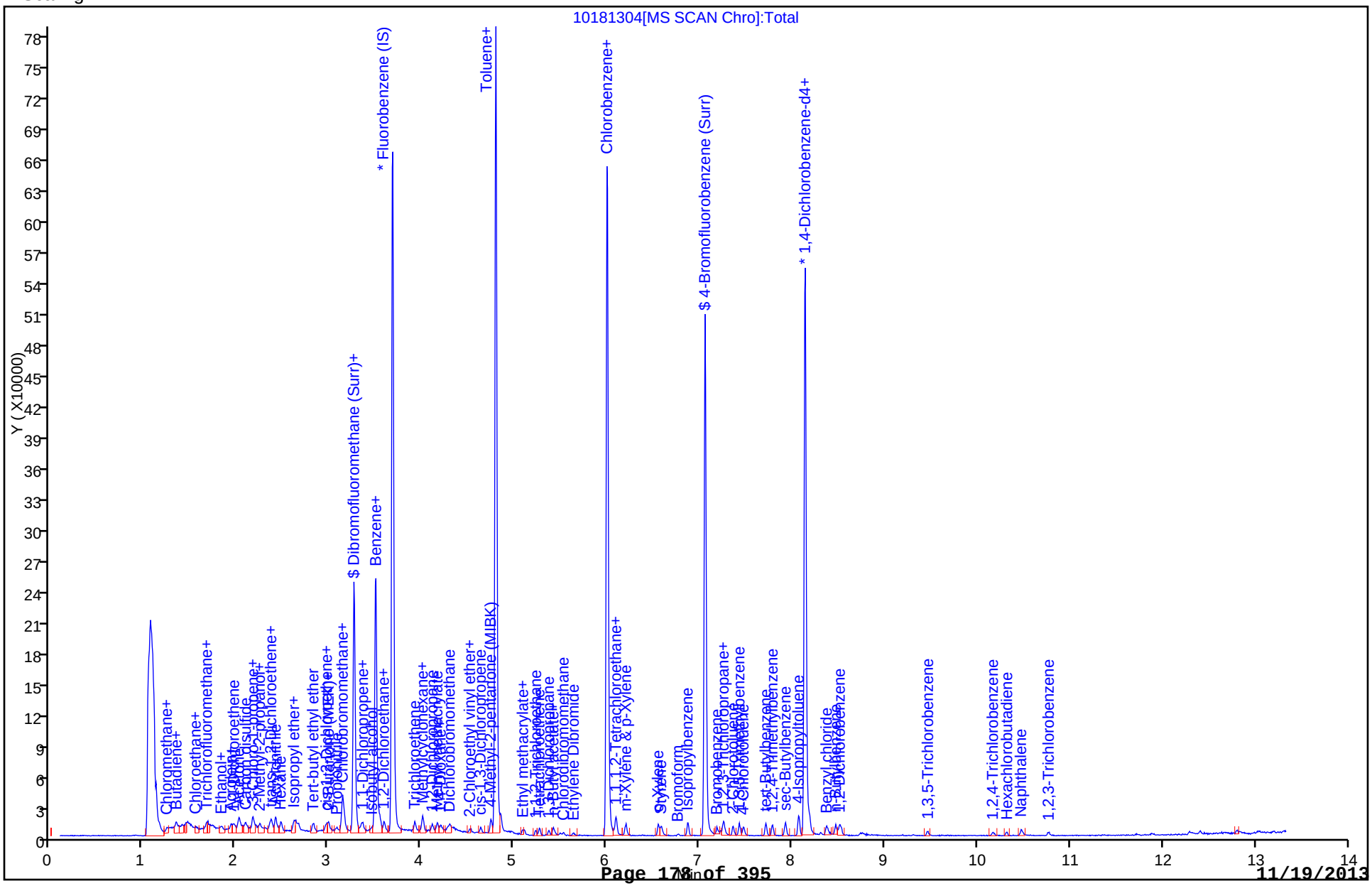
Report Date: 19-Oct-2013 19:44:36 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181304.D

Injection Date:	18-Oct-2013 20:11:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	2
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Manual Integration/User Assign Peak Report

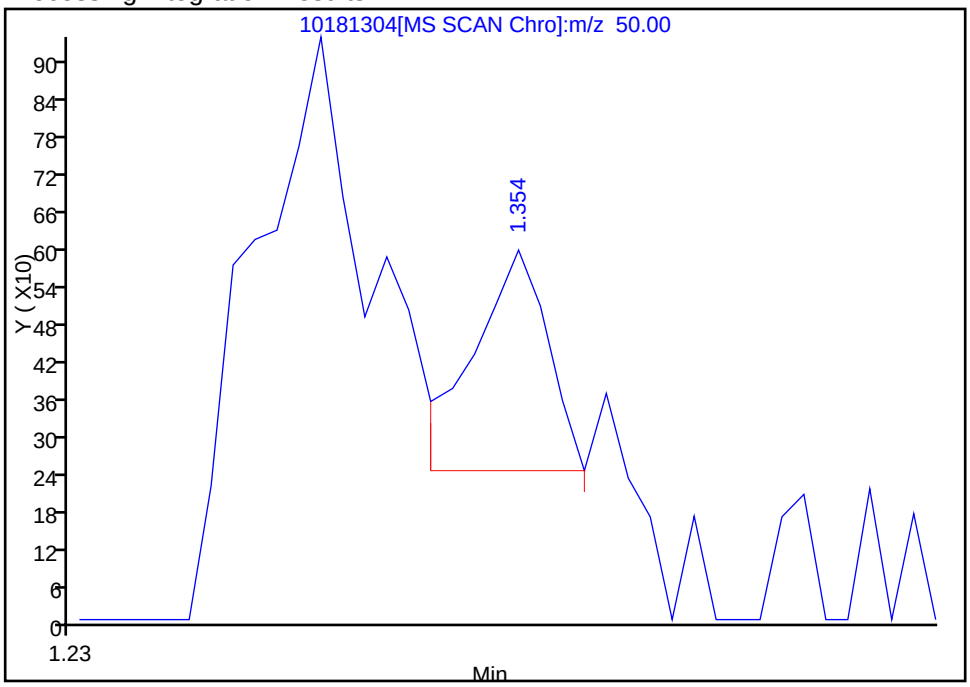
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181304.D		
Injection Date:	18-Oct-2013 20:11:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	2
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

10 Chloromethane, Signal: 1, m/z: 50.0 Type: quant, RT: 1.30

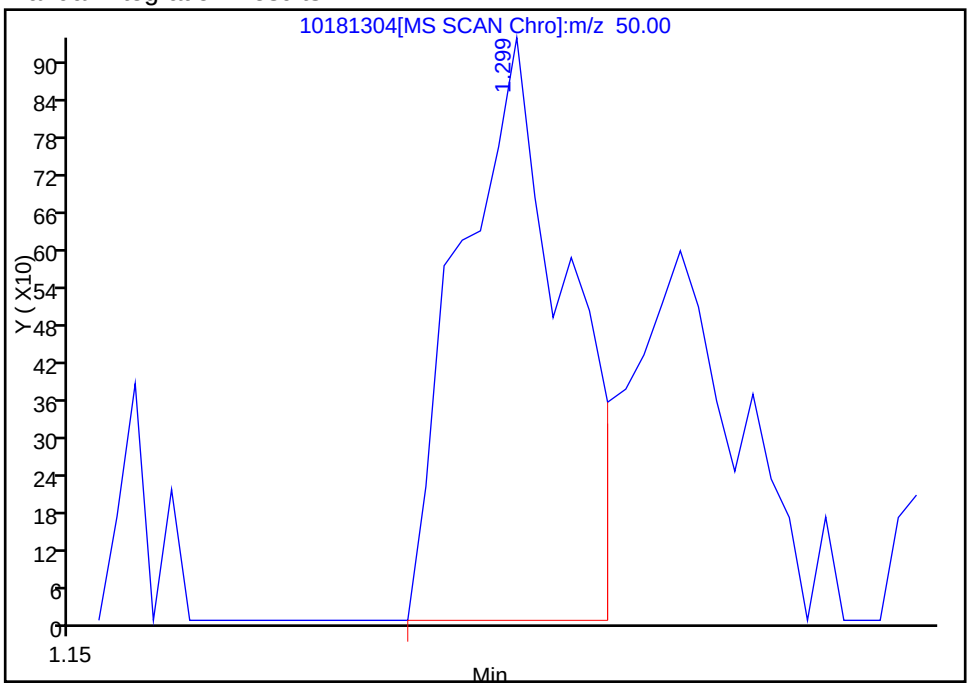
Processing Integration Results

RT: 1.35
Response: 522
Amount: 0.575261



Manual Integration Results

RT: 1.30
Response: 2302
Amount: 0.566901



Reviewer: redmondj, 19-Oct-2013 19:44:36
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

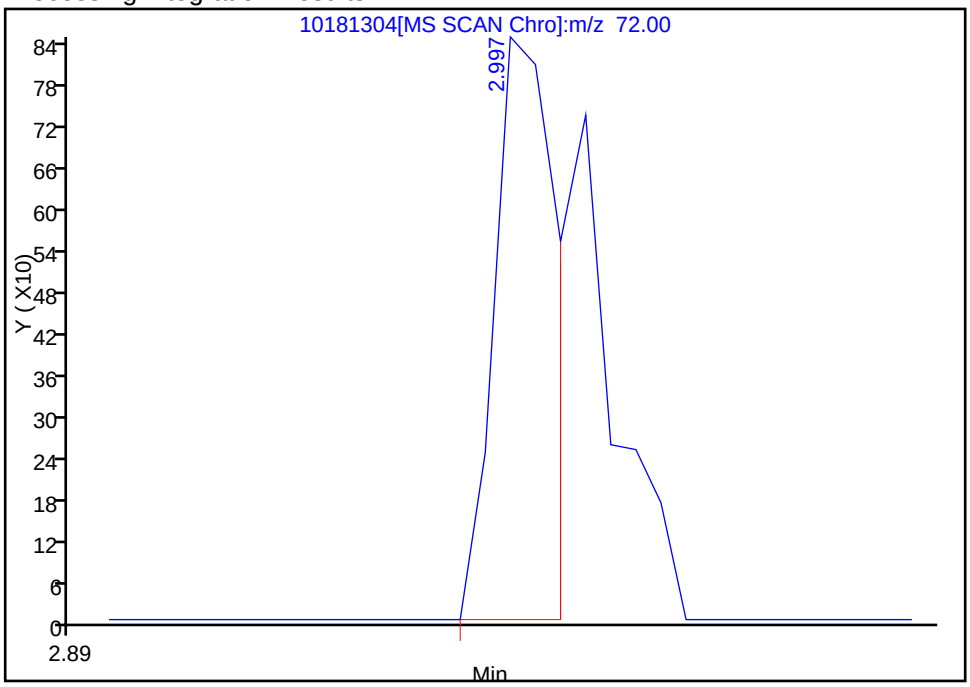
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181304.D		
Injection Date:	18-Oct-2013 20:11:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	2
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

43 2-Butanone (MEK), Signal: 1, m/z: 72.0 Type: quant, RT: 3.00

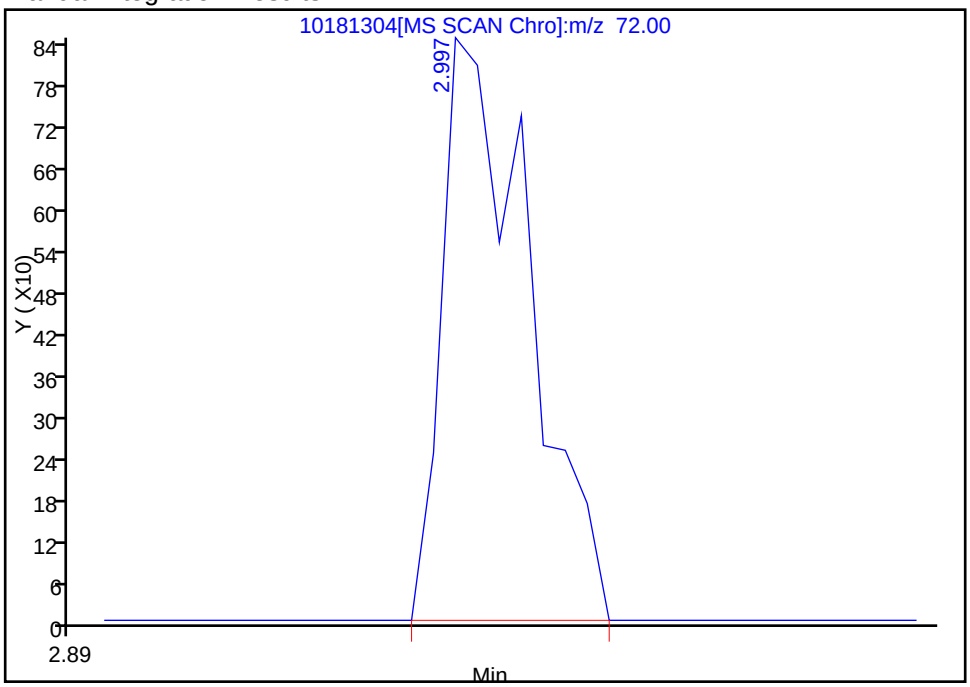
Processing Integration Results

RT: 3.00
Response: 889
Amount: 1.868810



Manual Integration Results

RT: 3.00
Response: 1399
Amount: 2.807148



Reviewer: redmondj, 19-Oct-2013 19:44:36
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

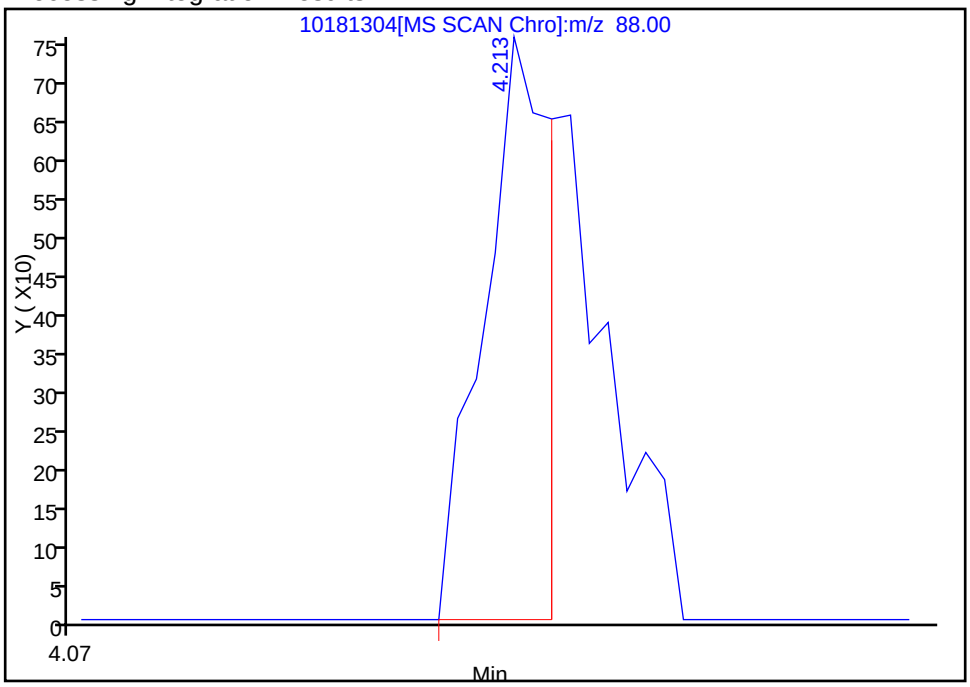
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181304.D		
Injection Date:	18-Oct-2013 20:11:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	2
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

70 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 4.21

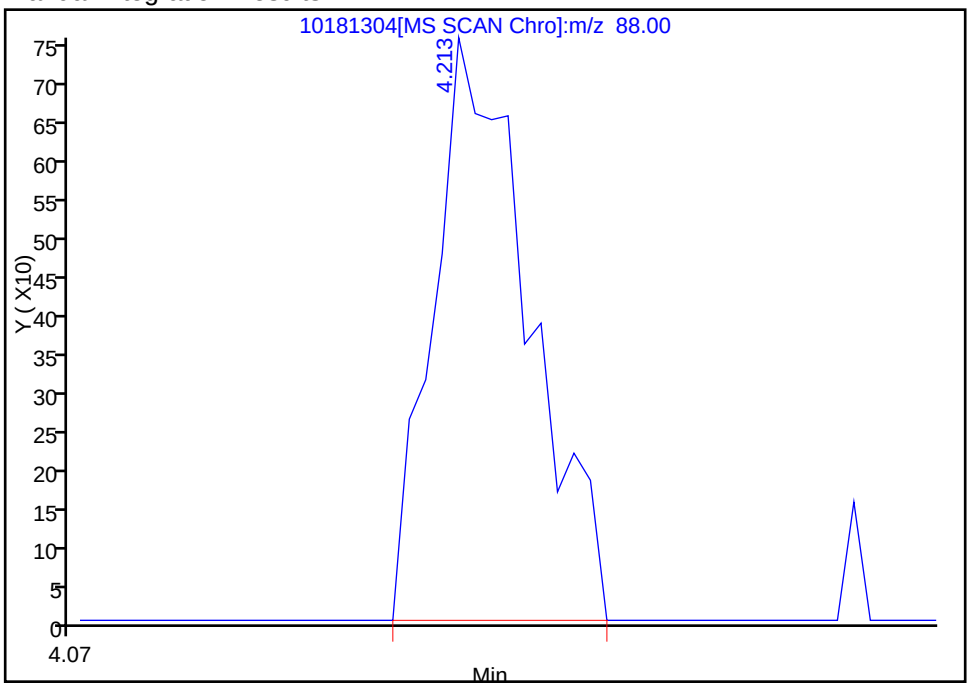
Processing Integration Results

RT: 4.21
Response: 1132
Amount: 7.950854



Manual Integration Results

RT: 4.21
Response: 1845
Amount: 17.750790



Reviewer: redmondj, 19-Oct-2013 19:44:36
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

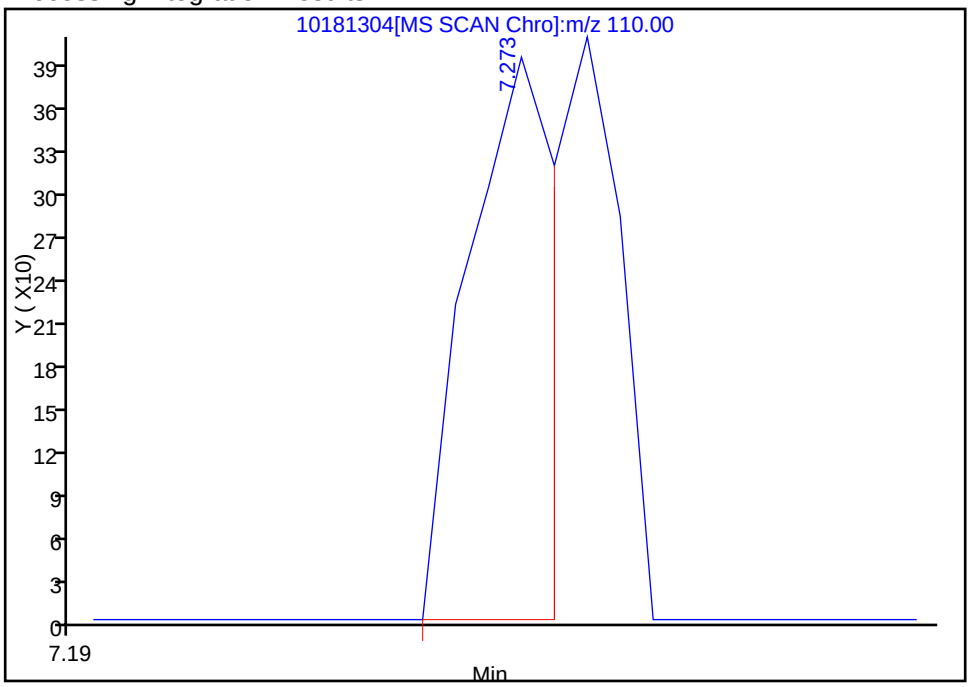
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181304.D		
Injection Date:	18-Oct-2013 20:11:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	2
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

98 1,2,3-Trichloropropane, Signal: 1, m/z: 110.0 Type: quant, RT: 7.27

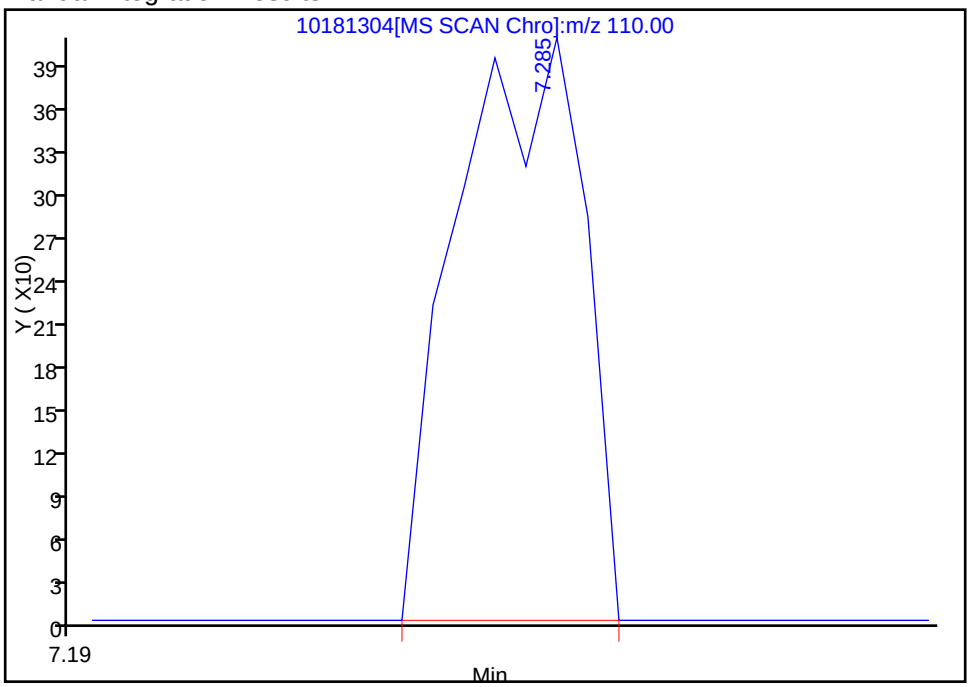
Processing Integration Results

RT: 7.27
Response: 445
Amount: 0.342862



Manual Integration Results

RT: 7.29
Response: 694
Amount: 0.510238



Reviewer: redmondj, 19-Oct-2013 19:44:36
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181305.D		
Lims ID:	std001	Client ID:	
Inject. Date:	18-Oct-2013 20:38:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	STD001		
Misc. Info.:	490-0026993-003		
Operator:	JJR	Instrument ID:	HP33
Purge Vol:	5.000 mL	ALS Bottle#:	5
Lims Batch ID:	115521	Lims Sample ID:	3
Sublist:	chrom-8260HP33*sub13		
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\8260HP33.m		
Last Update:	19-Oct-2013 19:47:07	Calib Date:	19-Oct-2013 00:14:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK030		
First Level Reviewer: redmondj		Date:	19-Oct-2013 19:47:07

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.685	3.689	-0.004	99	511012	30.0	
* 2 Chlorobenzene-d5	117	6.003	6.007	-0.004	85	344211	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.138	8.142	-0.004	95	154630	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.272	3.269	0.003	81	120617	29.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.503	3.507	-0.004	91	144061	30.0	
$ 6 Toluene-d8 (Surr)	98	4.805	4.802	0.003	93	459230	29.9	
$ 7 4-Bromofluorobenzene (Surr)	95	7.062	7.059	0.003	89	163248	30.2	
9 Dichlorodifluoromethane	85	1.167	1.171	-0.004	77	4298	0.9486	
10 Chloromethane	50	1.294	1.298	-0.004	67	5009	1.29	M
11 Vinyl chloride	62	1.337	1.335	0.002	66	4751	1.02	
12 Butadiene	54	1.355	1.353	0.002	0	4638	1.04	
13 Bromomethane	96	1.513	1.517	-0.004	34	1121	5.17	M
14 Chloroethane	64	1.568	1.566	0.002	72	2805	0.7469	
15 Dichlorofluoromethane	67	1.684	1.675	0.009	68	7585	1.01	
16 Trichlorofluoromethane	101	1.696	1.688	0.008	69	6228	1.01	
18 Ethyl ether	59	1.836	1.840	-0.004	75	3254	0.9529	
17 Ethanol	45	1.842	1.840	0.002	43	2691	133.0	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.945	1.943	0.002	66	3440	0.9415	
20 Acrolein	56	1.945	1.949	-0.004	27	1834	2.76	
21 1,1-Dichloroethene	96	1.982	1.974	0.008	79	3180	0.9565	
22 Acetone	58	2.031	2.028	0.003	99	5065	5.87	
25 Isopropyl alcohol	45	2.091	2.095	-0.004	1	1963	34.4	
26 Carbon disulfide	76	2.098	2.101	-0.003	95	11974	1.07	
29 Acetonitrile	41	2.171	2.174	-0.004	55	6157	12.1	
27 3-Chloro-1-propene	76	2.177	2.174	0.003	47	2778	1.06	
28 Methyl acetate	43	2.183	2.180	0.003	94	22178	5.21	
30 Methylene Chloride	84	2.256	2.253	0.003	82	4240	1.05	
31 2-Methyl-2-propanol	59	2.298	2.302	-0.004	75	2864	9.65	
32 Methyl tert-butyl ether	73	2.365	2.363	0.002	86	11485	0.9806	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
33 trans-1,2-Dichloroethene	61	2.377	2.381	-0.004	82	5561	1.00	
34 Acrylonitrile	53	2.426	2.424	0.002	97	17051	9.94	
35 Hexane	57	2.487	2.485	0.002	86	7031	1.06	
36 Isopropyl ether	45	2.621	2.618	0.003	94	15530	1.07	
37 1,1-Dichloroethane	63	2.639	2.637	0.002	64	7291	0.99	
38 Vinyl acetate	43	2.645	2.643	0.002	96	21934	1.97	
39 2-Chloro-1,3-butadiene	53	2.669	2.673	-0.004	85	6625	1.02	
40 Tert-butyl ethyl ether	59	2.828	2.831	-0.003	95	12598	0.9814	
41 2,2-Dichloropropane	77	2.967	2.965	0.002	75	5877	1.01	
42 cis-1,2-Dichloroethene	61	2.986	2.983	0.003	64	6653	0.9591	
44 Ethyl acetate	43	2.998	2.996	0.002	77	14211	2.03	
43 2-Butanone (MEK)	72	3.004	2.996	0.008	88	2328	4.62	
45 Propionitrile	54	3.083	3.081	0.002	88	6050	9.65	
46 Chlorobromomethane	130	3.138	3.135	0.003	32	2062	0.9579	
47 Methacrylonitrile	41	3.150	3.142	0.008	94	30273	10.1	
48 Tetrahydrofuran	42	3.150	3.148	0.002	26	4188	2.09	
49 Chloroform	83	3.162	3.166	-0.004	63	6889	0.9768	
51 1,1,1-Trichloroethane	97	3.266	3.263	0.003	59	5775	1.00	
50 Cyclohexane	56	3.259	3.263	-0.004	81	7685	1.00	
53 Carbon tetrachloride	117	3.351	3.348	0.003	75	4752	0.9860	
54 1,1-Dichloropropene	75	3.369	3.367	0.002	73	5482	1.03	
55 Isobutyl alcohol	43	3.460	3.458	0.002	73	3742	8.71	
56 Benzene	78	3.497	3.500	-0.003	47	16558	1.00	
58 Tert-amyl methyl ether	73	3.545	3.543	0.002	78	10961	0.9497	
59 1,2-Dichloroethane	62	3.551	3.555	-0.004	1	5229	0.9807	
60 n-Heptane	43	3.594	3.598	-0.004	82	6711	0.9630	
61 n-Butanol	56	3.916	3.914	0.002	66	2381	26.6	
62 Trichloroethene	130	3.929	3.926	0.003	78	3872	0.9559	
63 Ethyl acrylate	55	4.008	4.005	0.003	0	12033	1.01	
64 Cyclohexanone	55	4.008	4.005	0.003	62	12033	10.1	
65 Methylcyclohexane	83	4.014	4.012	0.002	77	7120	0.9565	
66 1,2-Dichloropropane	63	4.117	4.115	0.002	71	4199	0.9756	
68 Methyl methacrylate	41	4.166	4.164	0.002	86	8845	2.10	
69 Dibromomethane	93	4.202	4.206	-0.004	76	2195	0.9459	
70 1,4-Dioxane	88	4.221	4.212	0.009	33	1995	21.5	
71 Dichlorobromomethane	83	4.306	4.304	0.002	76	4368	0.8940	
72 2-Nitropropane	43	4.525	4.523	0.003	55	2905	7.11	
73 2-Chloroethyl vinyl ether	63	4.525	4.523	0.003	52	2167	0.8784	M
74 cis-1,3-Dichloropropene	75	4.640	4.638	0.002	63	4836	0.8565	
75 4-Methyl-2-pentanone (MIBK)	58	4.750	4.748	0.002	92	7024	4.67	
76 Toluene	91	4.853	4.851	0.002	88	15770	0.9759	
77 trans-1,3-Dichloropropene	75	5.091	5.088	0.003	75	4421	0.9212	
78 Ethyl methacrylate	69	5.109	5.100	0.009	73	4256	0.8576	
79 1,1,2-Trichloroethane	97	5.230	5.228	0.002	62	3333	1.04	
80 Tetrachloroethene	166	5.273	5.271	0.002	88	4226	1.02	
81 1,3-Dichloropropane	76	5.376	5.374	0.002	66	5682	0.9720	
82 2-Hexanone	58	5.425	5.411	0.014	85	6476	4.68	
83 n-Butyl acetate	43	5.498	5.490	0.008	69	2588	0.8598	
84 Chlorodibromomethane	127	5.529	5.532	-0.003	48	2213	1.12	
85 Ethylene Dibromide	107	5.644	5.636	0.008	52	3314	0.9789	
87 Chlorobenzene	112	6.027	6.031	-0.004	75	10734	1.01	
88 Ethylbenzene	91	6.094	6.092	0.002	92	18381	0.9812	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
89 1,1,1,2-Tetrachloroethane	131	6.113	6.104	0.009	64	3109	0.8782	
90 m-Xylene & p-Xylene	91	6.204	6.202	0.002	95	14042	0.9656	
91 o-Xylene	91	6.557	6.554	0.003	88	14115	1.11	
92 Styrene	104	6.587	6.579	0.008	81	10584	0.9031	
93 Bromoform	173	6.770	6.767	0.003	74	1605	2.87	
94 Isopropylbenzene	105	6.879	6.871	0.008	84	17789	0.9678	
95 Bromobenzene	77	7.189	7.187	0.002	78	6475	0.9526	
96 1,1,2,2-Tetrachloroethane	83	7.232	7.224	0.008	52	3935	0.9638	
97 N-Propylbenzene	91	7.256	7.254	0.002	94	20372	0.9579	
98 1,2,3-Trichloropropane	110	7.281	7.266	0.015	33	1251	0.8911	
99 trans-1,4-Dichloro-2-butene	53	7.299	7.284	0.015	1	648	1.33	
100 2-Chlorotoluene	91	7.366	7.357	0.009	87	12547	1.03	
101 1,3,5-Trimethylbenzene	105	7.433	7.424	0.009	80	13972	0.9650	
102 4-Chlorotoluene	91	7.475	7.467	0.008	85	11927	0.9297	
103 tert-Butylbenzene	119	7.719	7.716	0.003	78	12463	0.99	
105 1,2,4-Trimethylbenzene	105	7.786	7.783	0.003	81	13571	0.9246	
106 sec-Butylbenzene	105	7.932	7.929	0.003	82	17639	0.9525	
108 1,3-Dichlorobenzene	146	8.078	8.069	0.009	67	7806	0.9721	
107 4-Isopropyltoluene	119	8.071	8.069	0.002	89	14362	0.8958	
109 1,4-Dichlorobenzene	146	8.163	8.160	0.003	73	7977	0.9767	
110 1,2,3-Trimethylbenzene	105	8.187	8.185	0.002	0	14843	1.01	
111 Benzyl chloride	91	8.309	8.306	0.003	57	5130	2.88	
112 n-Butylbenzene	91	8.473	8.465	0.008	78	12818	0.9234	
113 1,2-Dichlorobenzene	146	8.528	8.519	0.009	86	6797	0.9278	
114 1,2-Dibromo-3-Chloropropane	157	9.313	9.298	0.014	4	689	1.36	
115 1,3,5-Trichlorobenzene	180	9.459	9.456	0.002	56	4235	0.8910	
116 1,2,4-Trichlorobenzene	180	10.182	10.162	0.020	5	3793	0.9221	
117 Hexachlorobutadiene	225	10.316	10.314	0.002	41	2232	1.01	
118 Naphthalene	128	10.468	10.460	0.008	74	12575	0.9861	
119 1,2,3-Trichlorobenzene	180	10.766	10.758	0.008	36	3313	0.8748	
S 134 Xylenes, Total	1				0		2.08	
S 135 1,2-Dichloroethene, Total	1				0		1.96	

QC Flag Legend

Review Flags
M - Manually Integrated

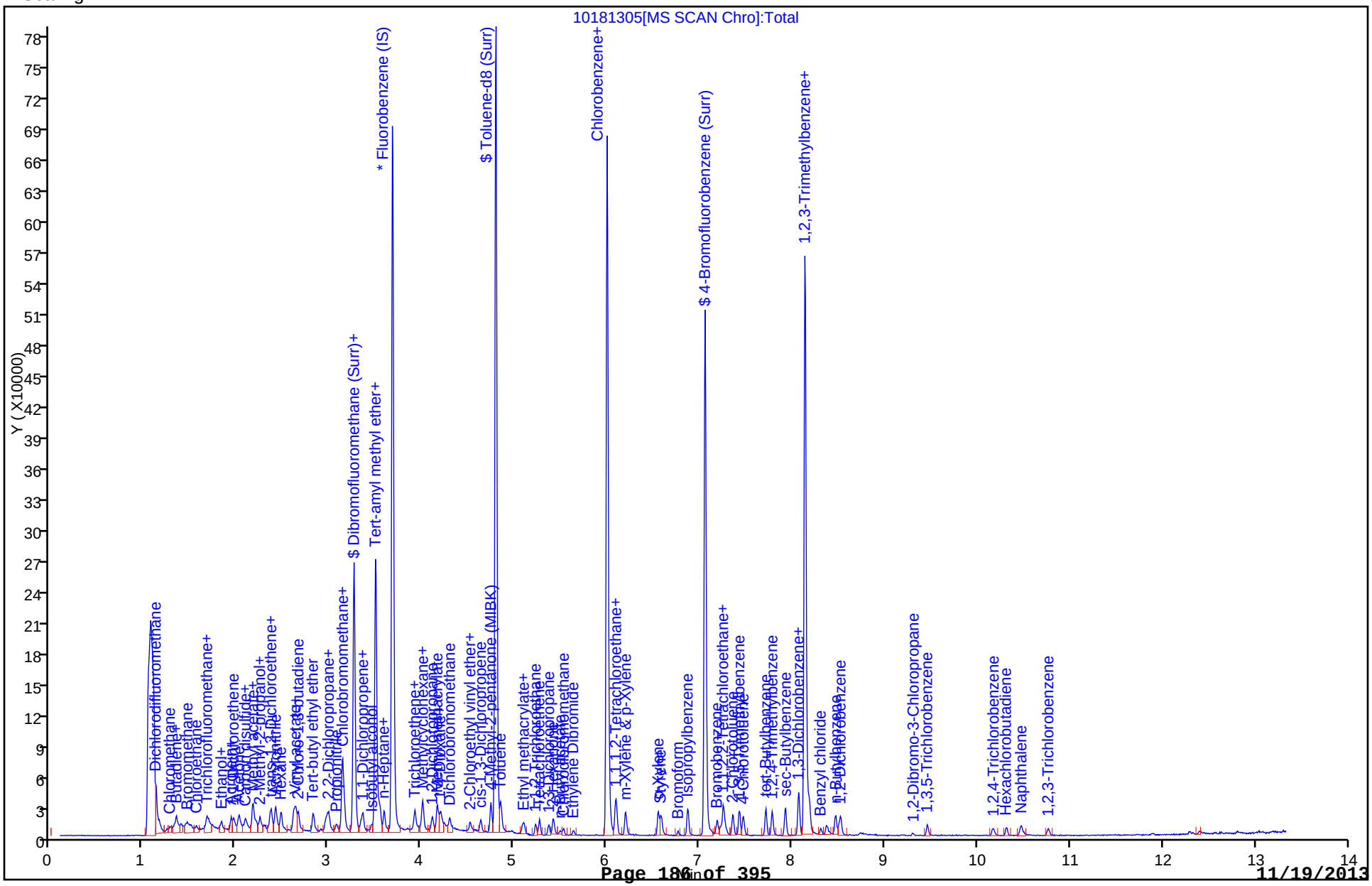
Report Date: 19-Oct-2013 19:47:07 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181305.D

Injection Date:	18-Oct-2013 20:38:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	3
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Manual Integration/User Assign Peak Report

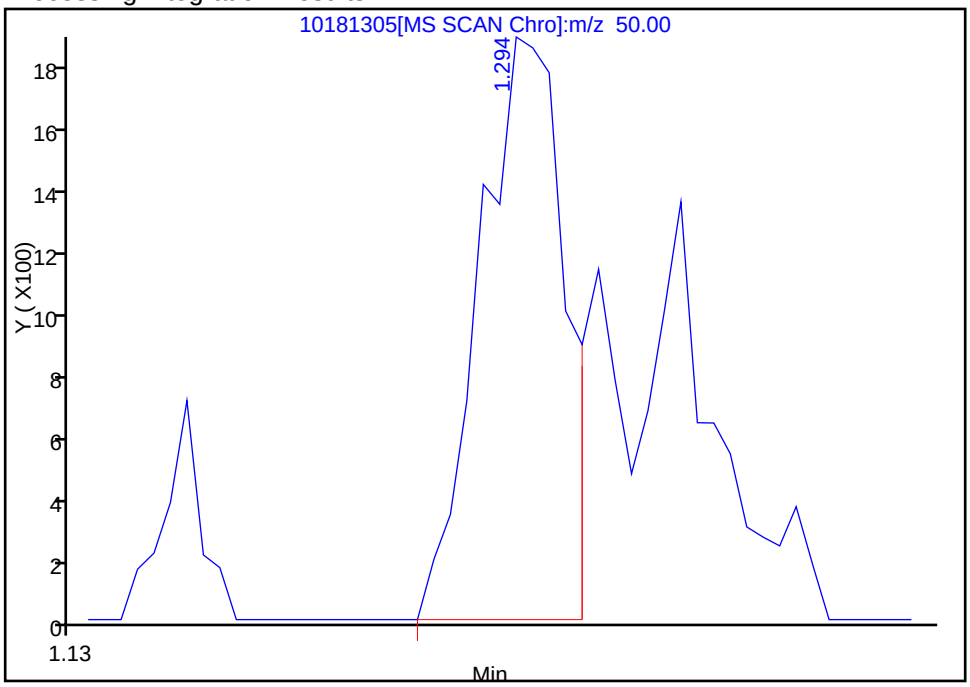
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181305.D		
Injection Date:	18-Oct-2013 20:38:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	3
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

10 Chloromethane, Signal: 1, m/z: 50.0 Type: quant, RT: 1.30

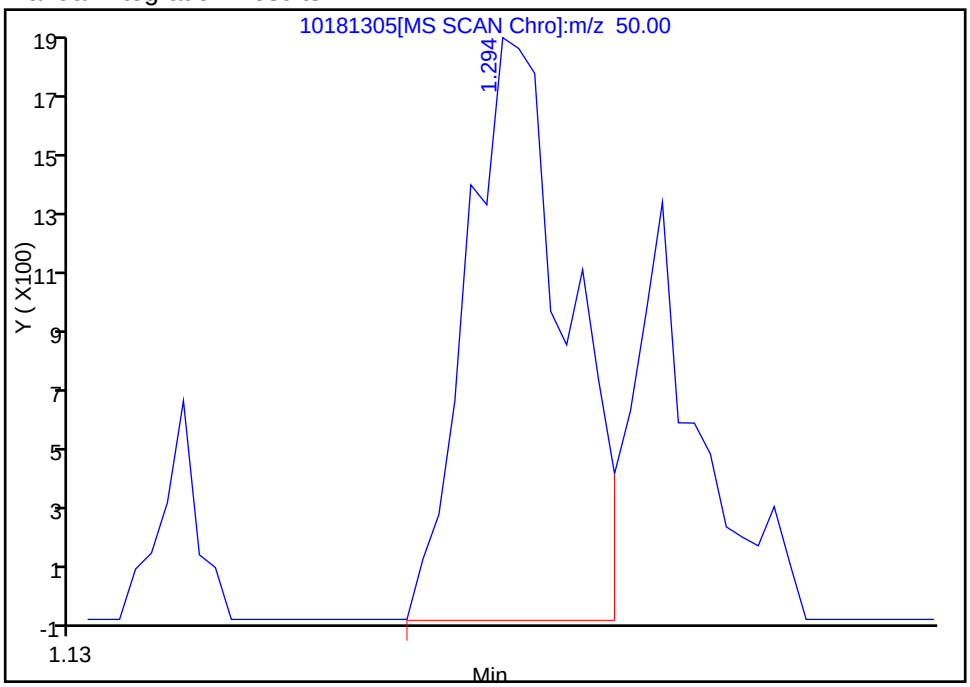
Processing Integration Results

RT: 1.29
Response: 4130
Amount: 1.005073



Manual Integration Results

RT: 1.29
Response: 5009
Amount: 1.289117



Reviewer: redmondj, 19-Oct-2013 19:47:07
Audit Action: Manually Integrated
Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Nashville

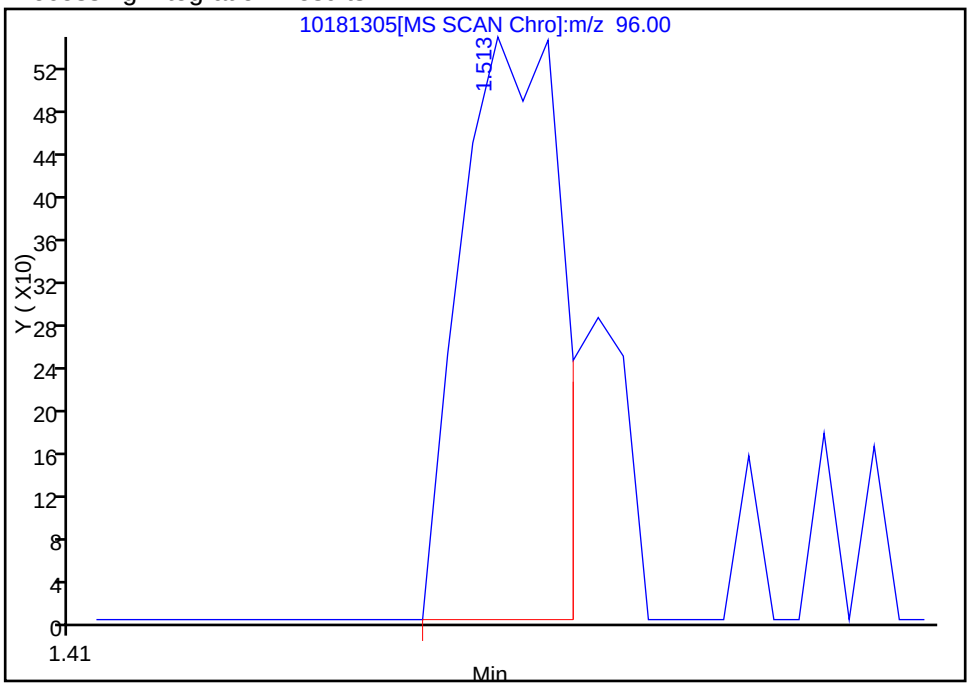
Data File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181305.D

Injection Date:	18-Oct-2013 20:38:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	3
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

13 Bromomethane, Signal: 1, m/z: 96.0 Type: quant, RT: 1.52

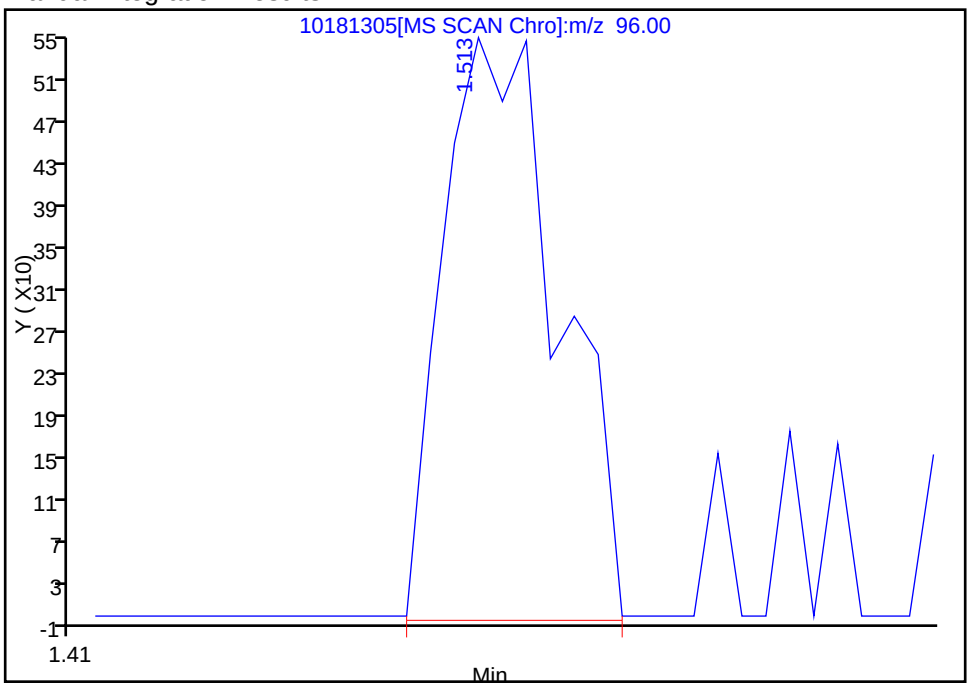
Processing Integration Results

RT: 1.51
Response: 914
Amount: 5.087295



Manual Integration Results

RT: 1.51
Response: 1121
Amount: 5.169720



Reviewer: redmondj, 19-Oct-2013 19:47:07
Audit Action: Manually Integrated
Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

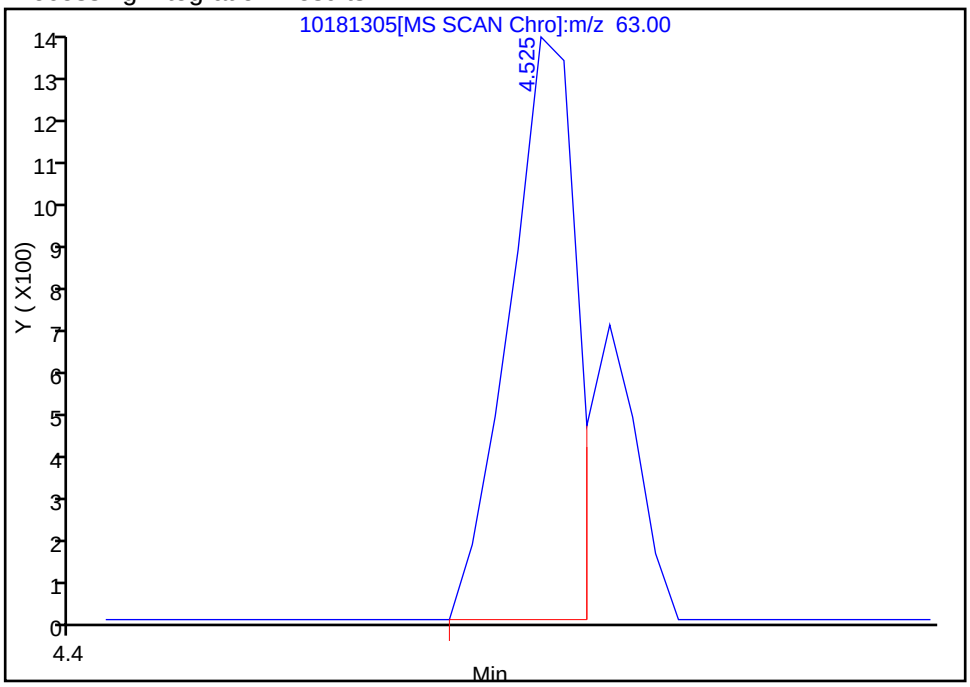
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181305.D		
Injection Date:	18-Oct-2013 20:38:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	3
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

73 2-Chloroethyl vinyl ether, Signal: 1, m/z: 63.0 Type: quant, RT: 4.52

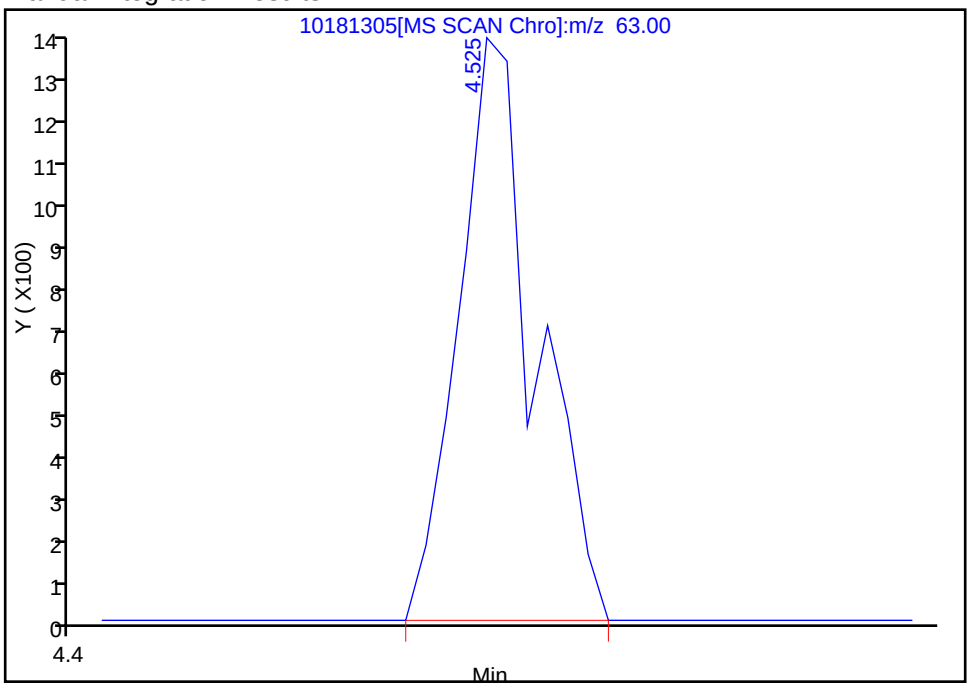
Processing Integration Results

RT: 4.52
Response: 1688
Amount: 0.699323



Manual Integration Results

RT: 4.52
Response: 2167
Amount: 0.878400



Reviewer: redmondj, 19-Oct-2013 19:47:07
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181306.D
Lims ID: std002 Client ID:
Inject. Date: 18-Oct-2013 21:05:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: STD002
Misc. Info.: 490-0026993-004
Operator: JJR Instrument ID: HP33
Purge Vol: 5.000 mL ALS Bottle#: 6
Lims Batch ID: 115521 Lims Sample ID: 4
Sublist: chrom-8260HP33*sub13
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP33\20131018-26993.b\8260HP33.m
Last Update: 19-Oct-2013 19:48:38 Calib Date: 19-Oct-2013 00:14:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK030

First Level Reviewer: redmondj Date: 19-Oct-2013 19:48:38

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.690	3.689	0.001	98	499859	30.0	
* 2 Chlorobenzene-d5	117	6.007	6.007	0.0	84	330634	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.143	8.142	0.001	94	147886	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.270	3.269	0.001	85	117697	29.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.507	3.507	0.0	92	140102	29.8	
$ 6 Toluene-d8 (Surr)	98	4.803	4.802	0.001	93	446811	30.3	
$ 7 4-Bromofluorobenzene (Surr)	95	7.060	7.059	0.001	89	157807	30.5	
9 Dichlorodifluoromethane	85	1.171	1.171	0.0	86	8944	2.02	
10 Chloromethane	50	1.299	1.298	0.001	64	7902	1.87	M
11 Vinyl chloride	62	1.341	1.335	0.006	88	8673	1.90	
12 Butadiene	54	1.354	1.353	0.001	0	8015	1.83	
13 Bromomethane	96	1.518	1.517	0.001	67	1753	5.49	
14 Chloroethane	64	1.573	1.566	0.007	81	6520	1.93	
15 Dichlorofluoromethane	67	1.676	1.675	0.001	92	14187	1.94	
16 Trichlorofluoromethane	101	1.694	1.688	0.006	81	10884	1.81	
18 Ethyl ether	59	1.840	1.840	0.0	83	5768	1.73	
17 Ethanol	45	1.840	1.840	0.0	77	9401	207.2	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.944	1.943	0.001	69	6966	1.95	
20 Acrolein	56	1.956	1.949	0.007	35	3131	4.82	
21 1,1-Dichloroethene	96	1.974	1.974	0.0	83	6121	1.88	
22 Acetone	58	2.035	2.028	0.007	98	6242	9.13	
23 Iodomethane	142	2.065	2.071	-0.006	52	1180	2.92	
25 Isopropyl alcohol	45	2.096	2.095	0.001	1	3187	38.7	
26 Carbon disulfide	76	2.102	2.101	0.001	99	21079	1.93	
29 Acetonitrile	41	2.181	2.174	0.007	38	12186	25.3	
27 3-Chloro-1-propene	76	2.175	2.174	0.001	52	4852	1.90	
28 Methyl acetate	43	2.181	2.180	0.001	97	39420	9.47	
30 Methylene Chloride	84	2.254	2.253	0.001	86	7631	1.94	
31 2-Methyl-2-propanol	59	2.303	2.302	0.001	89	5868	20.2	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
32 Methyl tert-butyl ether	73	2.363	2.363	0.0	86	21963	1.92	
33 trans-1,2-Dichloroethene	61	2.382	2.381	0.001	94	10649	1.96	
34 Acrylonitrile	53	2.424	2.424	0.0	99	33251	19.8	
35 Hexane	57	2.485	2.485	0.0	86	12983	2.00	
36 Isopropyl ether	45	2.619	2.618	0.001	94	27785	1.95	
37 1,1-Dichloroethane	63	2.643	2.637	0.006	92	13747	1.91	
38 Vinyl acetate	43	2.643	2.643	0.0	97	43025	3.95	
39 2-Chloro-1,3-butadiene	53	2.668	2.673	-0.005	83	12263	1.93	
40 Tert-butyl ethyl ether	59	2.826	2.831	-0.005	98	24091	1.92	
41 2,2-Dichloropropane	77	2.966	2.965	0.001	89	11366	1.99	
42 cis-1,2-Dichloroethene	61	2.990	2.983	0.007	82	13609	2.01	
44 Ethyl acetate	43	3.002	2.996	0.006	92	24799	3.62	
43 2-Butanone (MEK)	72	3.002	2.996	0.006	90	4624	9.37	
45 Propionitrile	54	3.081	3.081	0.0	95	11444	18.7	
46 Chlorobromomethane	130	3.136	3.135	0.001	70	4486	2.13	
47 Methacrylonitrile	41	3.148	3.142	0.006	95	57211	19.5	
48 Tetrahydrofuran	42	3.148	3.148	0.0	21	7833	3.99	
49 Chloroform	83	3.166	3.166	0.0	65	13510	1.96	
51 1,1,1-Trichloroethane	97	3.264	3.263	0.001	78	10736	1.89	
50 Cyclohexane	56	3.264	3.263	0.001	88	14772	1.97	
53 Carbon tetrachloride	117	3.349	3.348	0.001	77	8739	1.85	
54 1,1-Dichloropropene	75	3.367	3.367	0.0	82	10173	1.96	
55 Isobutyl alcohol	43	3.465	3.458	0.007	82	8174	19.7	
56 Benzene	78	3.501	3.500	0.001	83	32412	2.01	
58 Tert-amyl methyl ether	73	3.544	3.543	0.001	94	20887	1.85	
59 1,2-Dichloroethane	62	3.556	3.555	0.001	60	9839	1.89	
60 n-Heptane	43	3.598	3.598	0.0	88	13131	1.93	
61 n-Butanol	56	3.915	3.914	0.001	78	3987	45.6	
62 Trichloroethene	130	3.927	3.926	0.001	91	7450	1.88	
63 Ethyl acrylate	55	4.006	4.005	0.001	0	22961	1.98	
64 Cyclohexanone	55	4.006	4.005	0.001	71	22961	19.8	
65 Methylcyclohexane	83	4.012	4.012	0.0	87	14460	1.99	
66 1,2-Dichloropropane	63	4.116	4.115	0.001	87	7996	1.90	
68 Methyl methacrylate	41	4.164	4.164	0.0	88	15311	3.72	
69 Dibromomethane	93	4.207	4.206	0.001	81	4137	1.82	
70 1,4-Dioxane	88	4.213	4.212	0.001	3	2395	34.7	
71 Dichlorobromomethane	83	4.304	4.304	0.0	85	8165	1.71	
72 2-Nitropropane	43	4.523	4.523	0.001	58	6593	8.88	
73 2-Chloroethyl vinyl ether	63	4.529	4.523	0.007	63	4619	1.95	
74 cis-1,3-Dichloropropene	75	4.639	4.638	0.001	68	9466	1.75	
75 4-Methyl-2-pentanone (MIBK)	58	4.748	4.748	0.0	96	12720	8.81	
76 Toluene	91	4.858	4.851	0.007	90	30197	1.95	
77 trans-1,3-Dichloropropene	75	5.089	5.088	0.001	81	8243	1.79	
78 Ethyl methacrylate	69	5.107	5.100	0.007	80	9159	1.92	
79 1,1,2-Trichloroethane	97	5.235	5.228	0.007	83	6025	1.96	
80 Tetrachloroethene	166	5.271	5.271	0.0	89	7997	2.00	
81 1,3-Dichloropropane	76	5.375	5.374	0.001	83	11034	1.97	
82 2-Hexanone	58	5.423	5.411	0.012	94	11875	8.94	
83 n-Butyl acetate	43	5.496	5.490	0.006	81	4416	1.50	
84 Chlorodibromomethane	127	5.533	5.532	0.001	68	4390	1.86	
85 Ethylene Dibromide	107	5.642	5.636	0.006	71	6184	1.90	
87 Chlorobenzene	112	6.032	6.031	0.001	90	19864	1.94	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
88 Ethylbenzene	91	6.093	6.092	0.001	95	35645	1.98	
89 1,1,1,2-Tetrachloroethane	131	6.105	6.104	0.001	82	6309	1.86	
90 m-Xylene & p-Xylene	91	6.202	6.202	0.0	97	27901	2.00	
91 o-Xylene	91	6.555	6.554	0.001	97	26494	2.17	
92 Styrene	104	6.585	6.579	0.006	88	21232	1.89	
93 Bromoform	173	6.774	6.767	0.007	76	3478	3.57	
94 Isopropylbenzene	105	6.877	6.871	0.006	91	34089	1.93	
95 Bromobenzene	77	7.188	7.187	0.001	91	13129	2.02	
96 1,1,2,2-Tetrachloroethane	83	7.230	7.224	0.006	77	8158	2.09	
97 N-Propylbenzene	91	7.255	7.254	0.001	96	39775	1.96	
98 1,2,3-Trichloropropane	110	7.273	7.266	0.007	63	2576	1.93	
99 trans-1,4-Dichloro-2-butene	53	7.291	7.284	0.007	1	1924	2.29	
100 2-Chlorotoluene	91	7.358	7.357	0.001	93	23150	1.98	
101 1,3,5-Trimethylbenzene	105	7.431	7.424	0.007	91	26506	1.91	
102 4-Chlorotoluene	91	7.474	7.467	0.007	93	24562	2.00	
103 tert-Butylbenzene	119	7.717	7.716	0.001	87	22683	1.89	
105 1,2,4-Trimethylbenzene	105	7.784	7.783	0.001	94	27642	1.97	
106 sec-Butylbenzene	105	7.930	7.929	0.001	87	35014	1.98	
108 1,3-Dichlorobenzene	146	8.076	8.069	0.007	68	14626	1.90	
107 4-Isopropyltoluene	119	8.070	8.069	0.001	93	29150	1.90	
109 1,4-Dichlorobenzene	146	8.167	8.160	0.007	84	15223	1.95	
110 1,2,3-Trimethylbenzene	105	8.185	8.185	0.0	0	27026	1.91	
111 Benzyl chloride	91	8.307	8.306	0.001	73	9781	3.43	
112 n-Butylbenzene	91	8.471	8.465	0.006	90	24202	1.82	
113 1,2-Dichlorobenzene	146	8.526	8.519	0.007	89	13388	1.91	
114 1,2-Dibromo-3-Chloropropane	157	9.311	9.298	0.013	28	1276	2.00	
115 1,3,5-Trichlorobenzene	180	9.463	9.456	0.007	79	8245	1.81	
116 1,2,4-Trichlorobenzene	180	10.169	10.162	0.007	60	7411	1.88	
117 Hexachlorobutadiene	225	10.315	10.314	0.001	59	4268	2.02	
118 Naphthalene	128	10.473	10.460	0.013	85	22360	1.83	
119 1,2,3-Trichlorobenzene	180	10.765	10.758	0.007	70	6476	1.79	
S 134 Xylenes, Total	1				0		4.17	
S 135 1,2-Dichloroethene, Total	1				0		3.97	

QC Flag Legend

Review Flags
M - Manually Integrated

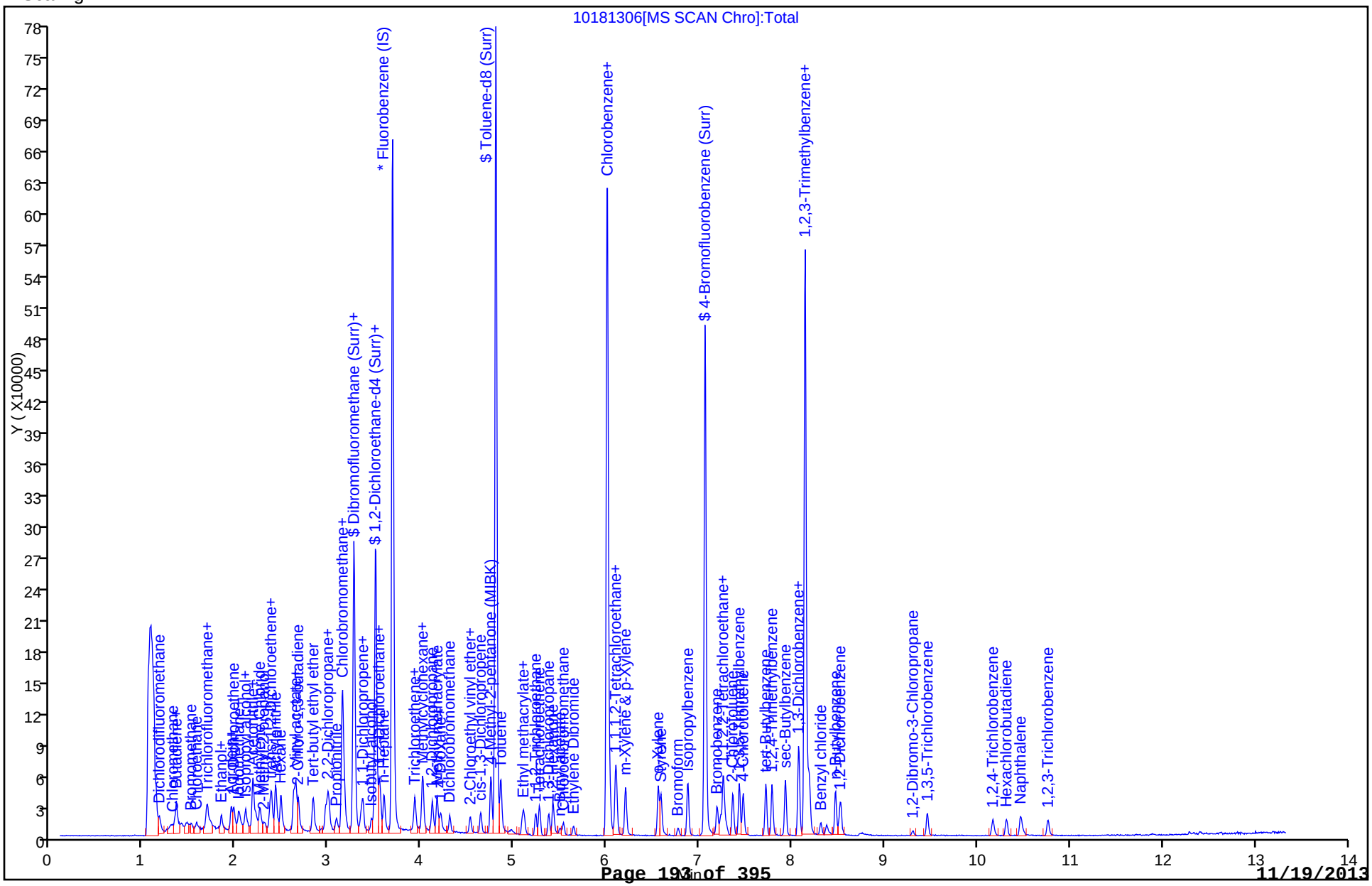
Report Date: 19-Oct-2013 19:48:38 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181306.D

Injection Date:	18-Oct-2013 21:05:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	4
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



11/19/2013

Manual Integration/User Assign Peak Report

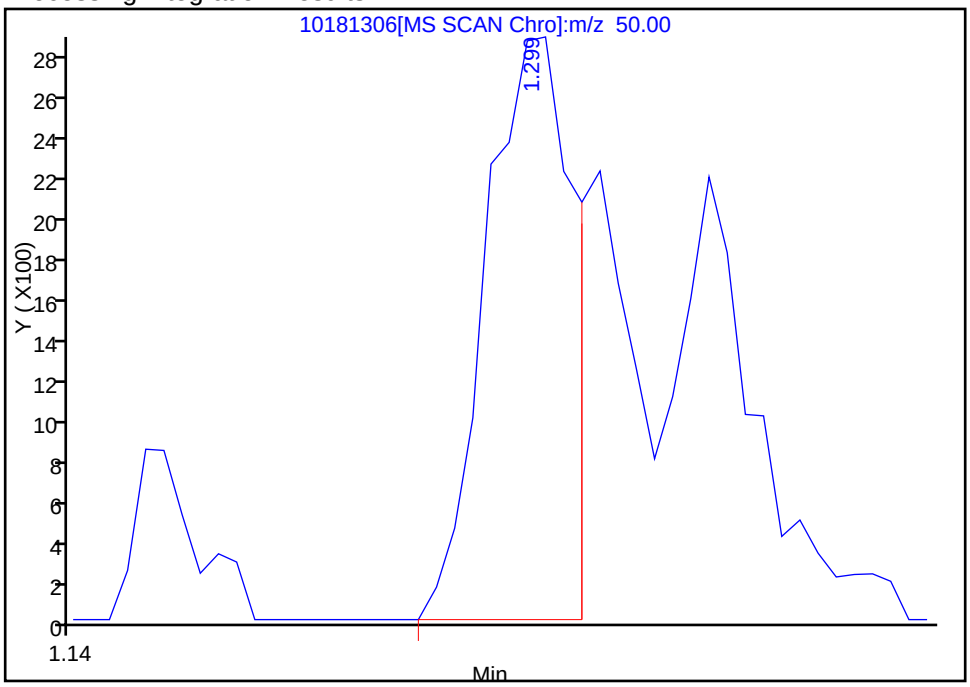
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181306.D		
Injection Date:	18-Oct-2013 21:05:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	4
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

10 Chloromethane, Signal: 1, m/z: 50.0 Type: quant, RT: 1.30

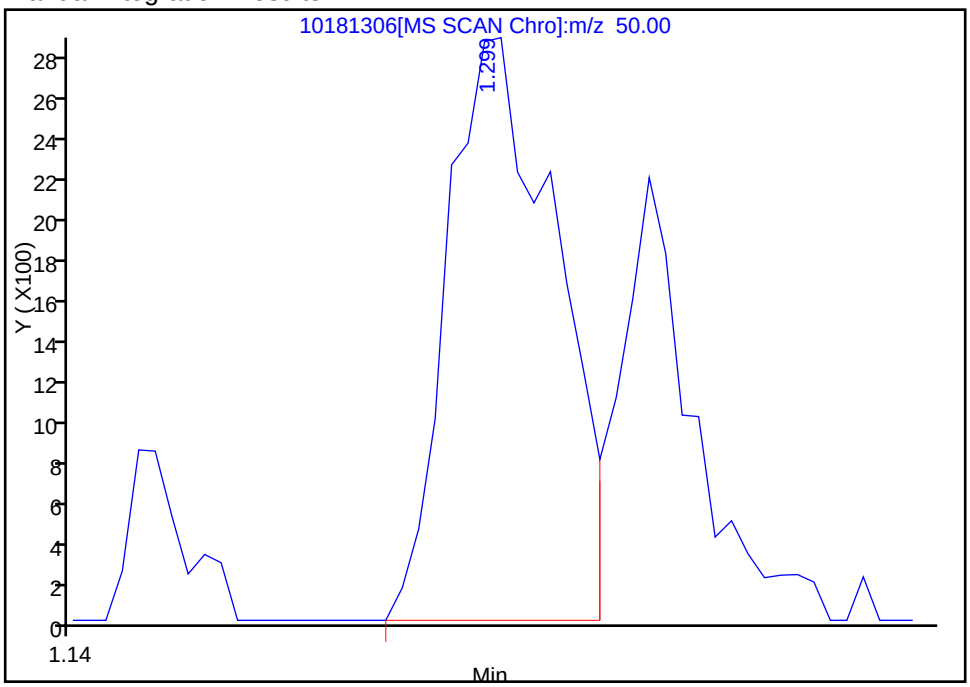
Processing Integration Results

RT: 1.30
Response: 5792
Amount: 1.487006



Manual Integration Results

RT: 1.30
Response: 7902
Amount: 1.867103



Reviewer: redmondj, 19-Oct-2013 19:48:38
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181307.D		
Lims ID:	std005	Client ID:	
Inject. Date:	18-Oct-2013 21:32:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	STD005		
Misc. Info.:	490-0026993-005		
Operator:	JJR	Instrument ID:	HP33
Purge Vol:	5.000 mL	ALS Bottle#:	7
Lims Batch ID:	115521	Lims Sample ID:	5
Sublist:	chrom-8260HP33*sub13		
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\8260HP33.m		
Last Update:	19-Oct-2013 19:51:28	Calib Date:	19-Oct-2013 00:14:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK030		
First Level Reviewer: redmondj		Date:	19-Oct-2013 19:51:28

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.688	3.689	-0.001	98	495878	30.0	
* 2 Chlorobenzene-d5	117	6.006	6.007	-0.001	85	338853	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.141	8.142	-0.001	95	151610	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.269	3.269	0.0	84	116329	29.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.506	3.507	-0.001	91	139806	30.0	
$ 6 Toluene-d8 (Surr)	98	4.802	4.802	0.0	93	450556	29.8	
$ 7 4-Bromofluorobenzene (Surr)	95	7.059	7.059	0.0	89	164300	31.0	
9 Dichlorodifluoromethane	85	1.170	1.171	-0.001	84	20746	4.72	
10 Chloromethane	50	1.304	1.298	0.006	90	19235	4.58	
11 Vinyl chloride	62	1.334	1.335	-0.001	87	21532	4.75	
12 Butadiene	54	1.352	1.353	-0.001	0	20360	4.69	
13 Bromomethane	96	1.517	1.517	0.0	82	3995	6.58	
14 Chloroethane	64	1.571	1.566	0.005	98	15809	4.89	
15 Dichlorofluoromethane	67	1.681	1.675	0.006	80	34899	4.81	
16 Trichlorofluoromethane	101	1.693	1.688	0.005	97	28217	4.73	
18 Ethyl ether	59	1.839	1.840	-0.001	88	16151	4.87	
17 Ethanol	45	1.839	1.840	-0.001	78	20211	315.0	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.942	1.943	-0.001	82	16770	4.73	
20 Acrolein	56	1.948	1.949	-0.001	42	7849	12.2	
21 1,1-Dichloroethene	96	1.973	1.974	-0.001	95	15523	4.81	
22 Acetone	58	2.028	2.028	0.0	97	11476	22.6	
23 Iodomethane	142	2.070	2.071	-0.001	91	6483	4.56	M
25 Isopropyl alcohol	45	2.101	2.095	0.006	1	7996	45.5	M
26 Carbon disulfide	76	2.101	2.101	0.0	99	49150	4.53	
29 Acetonitrile	41	2.174	2.174	0.0	75	23766	51.5	
27 3-Chloro-1-propene	76	2.174	2.174	0.0	86	11808	4.66	
28 Methyl acetate	43	2.180	2.180	0.0	98	99295	24.1	
30 Methylene Chloride	84	2.253	2.253	0.0	84	18900	4.84	
31 2-Methyl-2-propanol	59	2.301	2.302	-0.001	95	14430	50.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
32 Methyl tert-butyl ether	73	2.368	2.363	0.005	88	55451	4.88	
33 trans-1,2-Dichloroethene	61	2.380	2.381	-0.001	91	25971	4.83	
34 Acrylonitrile	53	2.423	2.424	-0.001	98	83431	50.1	
35 Hexane	57	2.484	2.485	-0.001	89	30116	4.69	
36 Isopropyl ether	45	2.618	2.618	0.0	94	68173	4.83	
37 1,1-Dichloroethane	63	2.642	2.637	0.005	75	35610	4.98	
38 Vinyl acetate	43	2.642	2.643	-0.001	97	104881	9.71	
39 2-Chloro-1,3-butadiene	53	2.672	2.673	-0.001	90	29461	4.67	
40 Tert-butyl ethyl ether	59	2.831	2.831	0.0	97	61530	4.94	
41 2,2-Dichloropropane	77	2.964	2.965	-0.001	90	27523	4.87	
42 cis-1,2-Dichloroethene	61	2.983	2.983	0.0	70	32772	4.87	
44 Ethyl acetate	43	3.001	2.996	0.005	93	66396	9.76	
43 2-Butanone (MEK)	72	3.001	2.996	0.005	97	11450	23.4	
45 Propionitrile	54	3.080	3.081	-0.001	99	28531	46.9	
46 Chlorobromomethane	130	3.135	3.135	0.0	75	10101	4.84	
47 Methacrylonitrile	41	3.147	3.142	0.005	94	142032	48.8	
48 Tetrahydrofuran	42	3.147	3.148	-0.001	27	17443	8.95	
49 Chloroform	83	3.165	3.166	-0.001	82	33564	4.90	
51 1,1,1-Trichloroethane	97	3.262	3.263	-0.001	80	25539	4.54	
50 Cyclohexane	56	3.262	3.263	-0.001	93	34903	4.68	
53 Carbon tetrachloride	117	3.348	3.348	0.0	80	21517	4.60	
54 1,1-Dichloropropene	75	3.366	3.367	-0.001	91	23729	4.62	
55 Isobutyl alcohol	43	3.463	3.458	0.005	95	19436	47.4	
56 Benzene	78	3.500	3.500	0.0	94	77328	4.83	
58 Tert-amyl methyl ether	73	3.542	3.543	-0.001	96	55423	4.95	
59 1,2-Dichloroethane	62	3.555	3.555	-0.001	74	25946	5.01	
60 n-Heptane	43	3.597	3.598	-0.001	92	31811	4.70	
61 n-Butanol	56	3.913	3.914	-0.001	87	10148	117.0	
62 Trichloroethene	130	3.932	3.926	0.006	92	19707	5.01	
63 Ethyl acrylate	55	4.011	4.005	0.006	0	54305	4.72	
64 Cyclohexanone	55	4.011	4.005	0.006	74	54305	47.2	
65 Methylcyclohexane	83	4.011	4.012	-0.001	88	34750	4.81	
66 1,2-Dichloropropane	63	4.114	4.115	-0.001	94	20227	4.84	
68 Methyl methacrylate	41	4.169	4.164	0.005	88	38679	9.47	
69 Dibromomethane	93	4.205	4.206	-0.001	81	10628	4.72	
70 1,4-Dioxane	88	4.218	4.212	0.006	3	4361	92.5	M
71 Dichlorobromomethane	83	4.303	4.304	-0.001	95	21818	4.60	
72 2-Nitropropane	43	4.522	4.523	0.0	74	15922	13.3	
73 2-Chloroethyl vinyl ether	63	4.528	4.523	0.006	80	11210	4.62	
74 cis-1,3-Dichloropropene	75	4.637	4.638	-0.001	80	26260	4.72	
75 4-Methyl-2-pentanone (MIBK)	58	4.747	4.748	-0.001	97	34435	23.3	
76 Toluene	91	4.856	4.851	0.005	95	78275	4.92	
77 trans-1,3-Dichloropropene	75	5.088	5.088	0.0	95	20850	4.41	
78 Ethyl methacrylate	69	5.106	5.100	0.006	86	22802	4.67	
79 1,1,2-Trichloroethane	97	5.234	5.228	0.006	85	15736	4.98	
80 Tetrachloroethene	166	5.276	5.271	0.005	82	19244	4.70	
81 1,3-Dichloropropane	76	5.373	5.374	-0.001	92	27721	4.82	
82 2-Hexanone	58	5.416	5.411	0.005	96	31894	23.4	
83 n-Butyl acetate	43	5.495	5.490	0.005	91	13805	4.73	
84 Chlorodibromomethane	127	5.532	5.532	0.0	81	11722	4.20	
85 Ethylene Dibromide	107	5.641	5.636	0.005	93	15972	4.79	
87 Chlorobenzene	112	6.030	6.031	-0.001	92	50943	4.85	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
88 Ethylbenzene	91	6.091	6.092	-0.001	98	87503	4.74	
89 1,1,1,2-Tetrachloroethane	131	6.103	6.104	-0.001	84	15707	4.51	
90 m-Xylene & p-Xylene	91	6.201	6.202	-0.001	98	68157	4.76	
91 o-Xylene	91	6.554	6.554	0.0	97	67049	5.36	
92 Styrene	104	6.584	6.579	0.005	94	55237	4.79	
93 Bromoform	173	6.773	6.767	0.006	91	9251	5.59	
94 Isopropylbenzene	105	6.876	6.871	0.005	95	86555	4.78	
95 Bromobenzene	77	7.186	7.187	-0.001	95	32508	4.88	
96 1,1,2,2-Tetrachloroethane	83	7.229	7.224	0.005	76	19476	4.87	
97 N-Propylbenzene	91	7.253	7.254	-0.001	92	103699	4.97	
98 1,2,3-Trichloropropane	110	7.272	7.266	0.006	80	7228	5.27	
99 trans-1,4-Dichloro-2-butene	53	7.296	7.284	0.012	27	5032	4.50	
100 2-Chlorotoluene	91	7.357	7.357	0.0	95	60689	5.07	
101 1,3,5-Trimethylbenzene	105	7.430	7.424	0.006	94	70662	4.98	
102 4-Chlorotoluene	91	7.472	7.467	0.005	97	62346	4.96	
103 tert-Butylbenzene	119	7.716	7.716	0.0	91	62530	5.07	
105 1,2,4-Trimethylbenzene	105	7.783	7.783	-0.001	96	72006	5.00	
106 sec-Butylbenzene	105	7.929	7.929	-0.001	93	90260	4.97	
108 1,3-Dichlorobenzene	146	8.075	8.069	0.006	85	38212	4.85	
107 4-Isopropyltoluene	119	8.068	8.069	-0.001	96	77001	4.90	
109 1,4-Dichlorobenzene	146	8.166	8.160	0.006	82	39924	4.99	
110 1,2,3-Trimethylbenzene	105	8.184	8.185	-0.001	0	71437	4.93	
111 Benzyl chloride	91	8.306	8.306	0.0	94	27194	5.32	
112 n-Butylbenzene	91	8.470	8.465	0.005	96	64513	4.74	
113 1,2-Dichlorobenzene	146	8.525	8.519	0.006	96	35680	4.97	
114 1,2-Dibromo-3-Chloropropane	157	9.303	9.298	0.005	55	3839	4.56	
115 1,3,5-Trichlorobenzene	180	9.455	9.456	-0.001	93	22073	4.74	
116 1,2,4-Trichlorobenzene	180	10.161	10.162	-0.001	90	18611	4.61	
117 Hexachlorobutadiene	225	10.313	10.314	-0.001	85	9909	4.58	
118 Naphthalene	128	10.465	10.460	0.005	96	57754	4.62	
119 1,2,3-Trichlorobenzene	180	10.763	10.758	0.005	90	18128	4.88	
S 134 Xylenes, Total	1				0		10.1	
S 135 1,2-Dichloroethene, Total	1				0		9.70	

QC Flag Legend

Review Flags
M - Manually Integrated

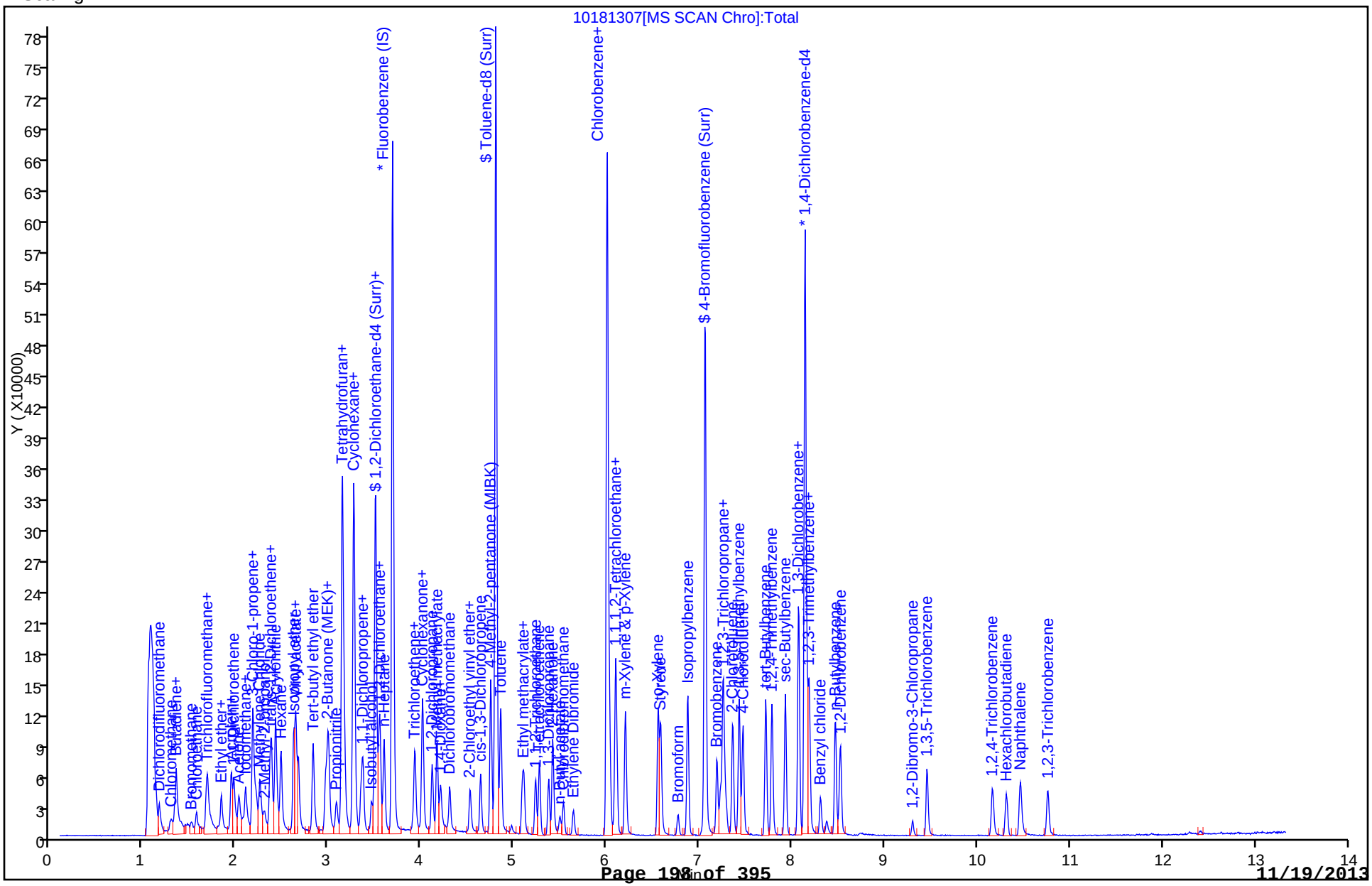
Report Date: 19-Oct-2013 19:51:28 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181307.D

Injection Date:	18-Oct-2013 21:32:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	5
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Manual Integration/User Assign Peak Report

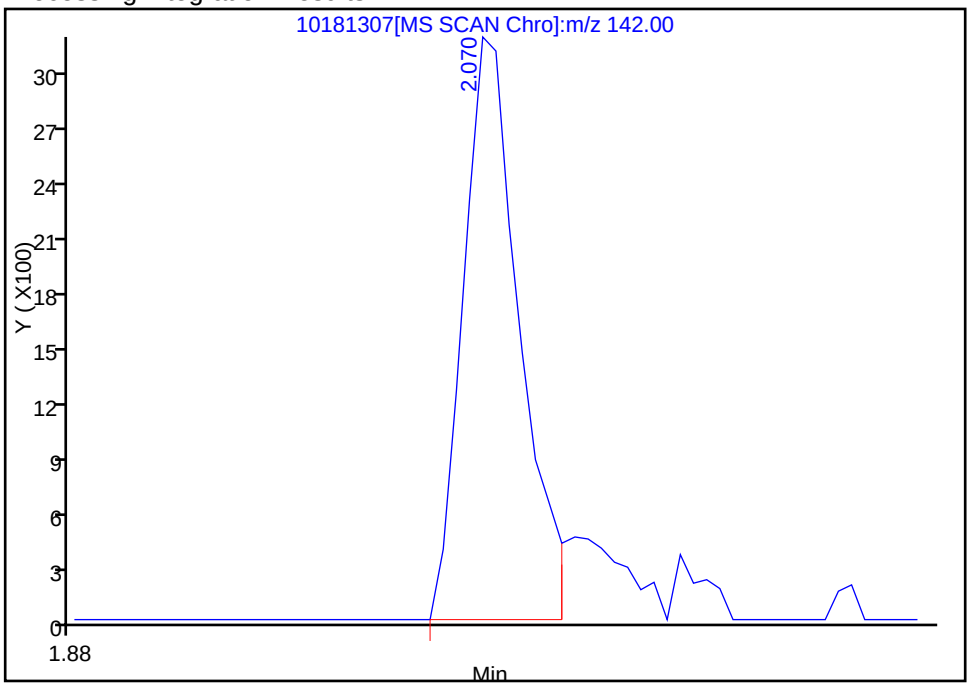
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181307.D		
Injection Date:	18-Oct-2013 21:32:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	5
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

23 Iodomethane, Signal: 1, m/z: 142.0 Type: quant, RT: 2.07

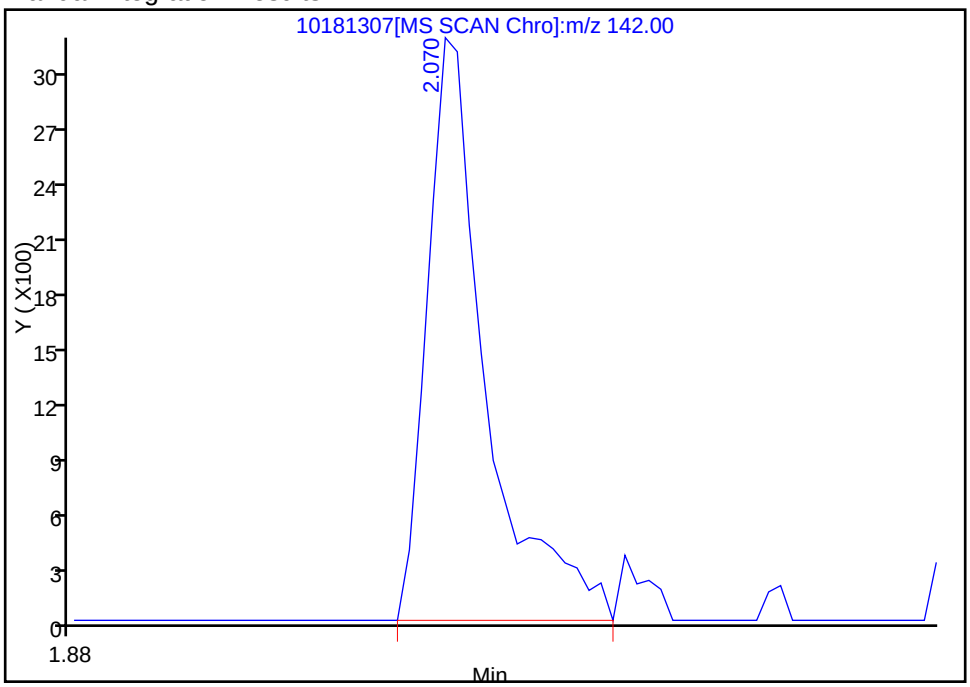
Processing Integration Results

RT: 2.07
Response: 5674
Amount: 4.360849



Manual Integration Results

RT: 2.07
Response: 6483
Amount: 4.559513



Reviewer: redmondj, 19-Oct-2013 19:51:28
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

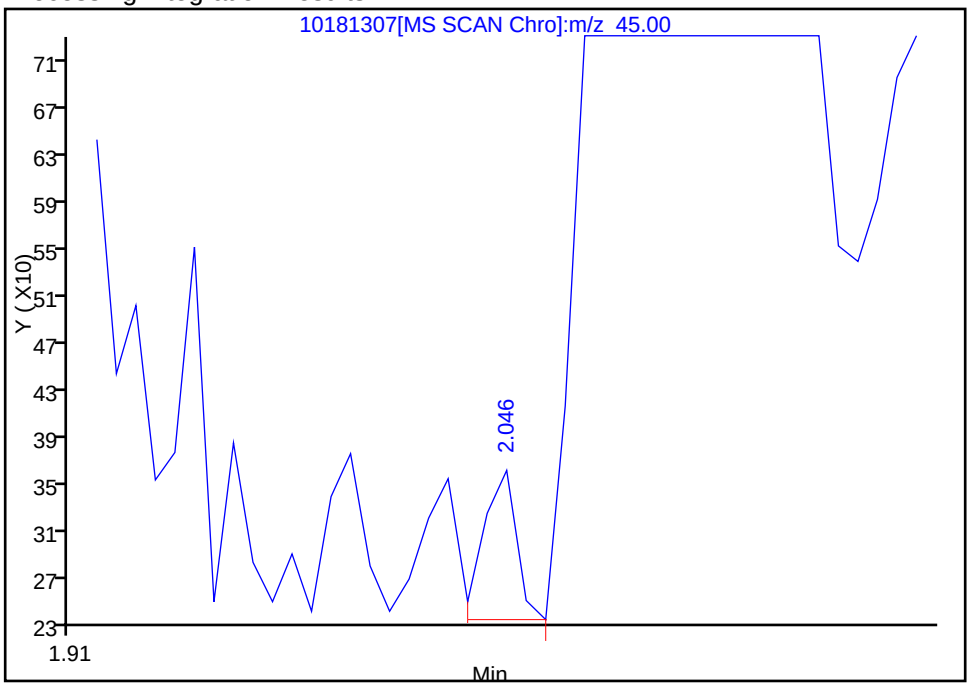
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181307.D		
Injection Date:	18-Oct-2013 21:32:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	5
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

25 Isopropyl alcohol, Signal: 1, m/z: 45.0 Type: quant, RT: 2.10

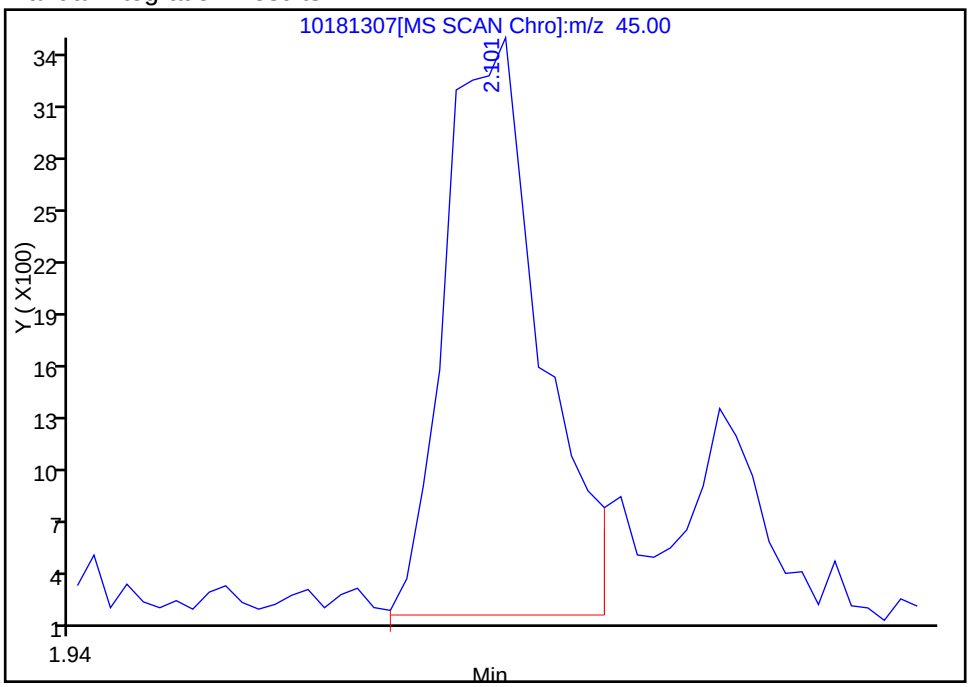
Processing Integration Results

RT: 2.05
Response: 89
Amount: 22.769100



Manual Integration Results

RT: 2.10
Response: 7996
Amount: 45.515424



Reviewer: redmondj, 19-Oct-2013 19:50:57
Audit Action: Manually Integrated
Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

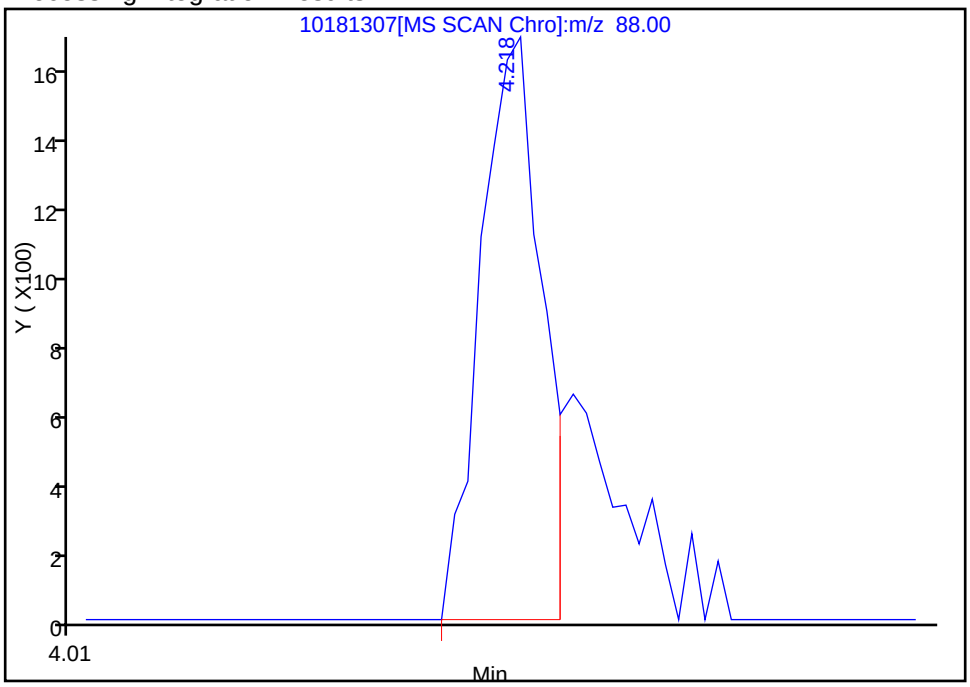
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181307.D		
Injection Date:	18-Oct-2013 21:32:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	5
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

70 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 4.21

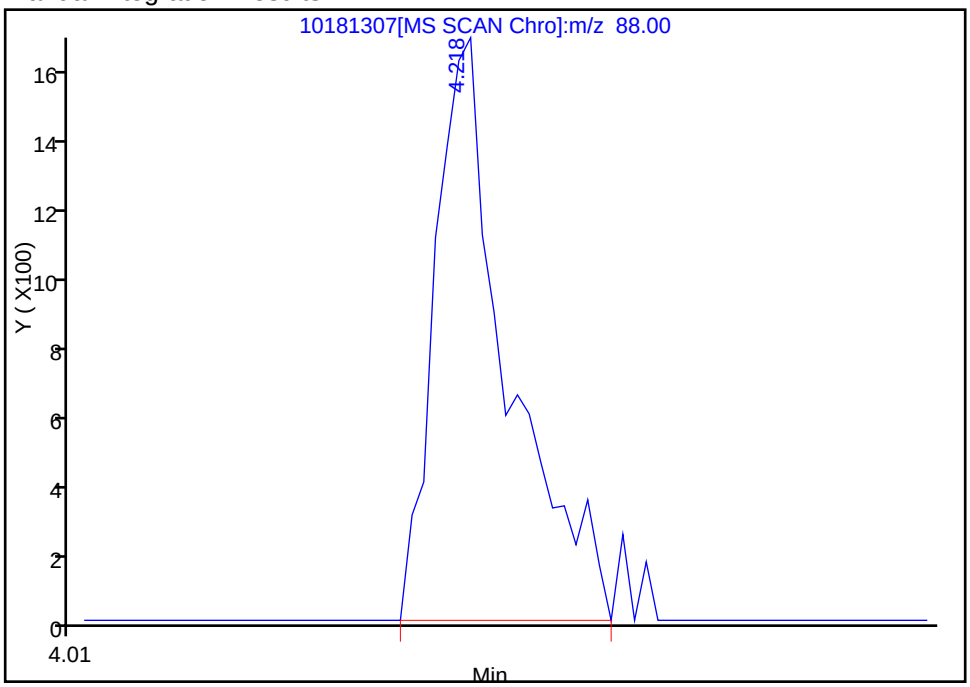
Processing Integration Results

RT: 4.22
Response: 3255
Amount: 61.079642



Manual Integration Results

RT: 4.22
Response: 4361
Amount: 92.462181



Reviewer: redmondj, 19-Oct-2013 19:49:13
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181308.D		
Lims ID:	std010	Client ID:	
Inject. Date:	18-Oct-2013 21:59:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	STD010		
Misc. Info.:	490-0026993-006		
Operator:	JJR	Instrument ID:	HP33
Purge Vol:	5.000 mL	ALS Bottle#:	8
Lims Batch ID:	115521	Lims Sample ID:	6
Sublist:	chrom-8260HP33*sub13		
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\8260HP33.m		
Last Update:	19-Oct-2013 19:52:39	Calib Date:	19-Oct-2013 00:14:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK030		
First Level Reviewer: redmondj		Date:	19-Oct-2013 19:52:39

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.688	3.689	-0.001	98	486969	30.0	
* 2 Chlorobenzene-d5	117	6.006	6.007	-0.001	86	332641	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.141	8.142	-0.001	94	155081	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.269	3.269	0.0	84	116277	30.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.506	3.507	-0.001	92	138973	30.3	
$ 6 Toluene-d8 (Surr)	98	4.802	4.802	0.0	92	448544	30.3	
$ 7 4-Bromofluorobenzene (Surr)	95	7.059	7.059	0.0	90	160814	29.7	
9 Dichlorodifluoromethane	85	1.170	1.171	-0.001	87	44842	10.4	
10 Chloromethane	50	1.298	1.298	0.0	89	37748	9.16	
11 Vinyl chloride	62	1.334	1.335	-0.001	78	45274	10.2	
12 Butadiene	54	1.352	1.353	-0.001	0	44028	10.3	
13 Bromomethane	96	1.517	1.517	0.0	91	9750	9.46	
14 Chloroethane	64	1.571	1.566	0.005	94	29807	9.49	
15 Dichlorofluoromethane	67	1.675	1.675	0.0	82	71581	10.1	
16 Trichlorofluoromethane	101	1.693	1.688	0.005	84	62795	10.7	
18 Ethyl ether	59	1.839	1.840	-0.001	84	33496	10.3	
17 Ethanol	45	1.839	1.840	-0.001	71	40511	474.3	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.949	1.943	0.006	91	35544	10.2	
20 Acrolein	56	1.949	1.949	0.0	46	15249	24.1	
21 1,1-Dichloroethene	96	1.973	1.974	-0.001	88	31956	10.1	
22 Acetone	58	2.028	2.028	0.0	100	21019	47.9	
23 Iodomethane	142	2.070	2.071	-0.001	96	17789	8.28	
25 Isopropyl alcohol	45	2.095	2.095	-0.001	7	17771	103.0	
26 Carbon disulfide	76	2.101	2.101	0.0	99	103055	9.67	
29 Acetonitrile	41	2.174	2.174	0.0	74	48882	109.8	
27 3-Chloro-1-propene	76	2.174	2.174	0.0	88	25351	10.2	
28 Methyl acetate	43	2.180	2.180	0.0	98	203084	50.1	
30 Methylene Chloride	84	2.259	2.253	0.006	87	38273	9.98	
31 2-Methyl-2-propanol	59	2.301	2.302	-0.001	95	30057	106.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
32 Methyl tert-butyl ether	73	2.368	2.363	0.005	88	112019	10.0	
33 trans-1,2-Dichloroethene	61	2.380	2.381	-0.001	96	52221	9.89	
34 Acrylonitrile	53	2.423	2.424	-0.001	97	165780	101.5	
35 Hexane	57	2.484	2.485	-0.001	90	61854	9.80	
36 Isopropyl ether	45	2.618	2.618	0.0	94	136793	9.86	
37 1,1-Dichloroethane	63	2.642	2.637	0.005	79	72273	10.3	
38 Vinyl acetate	43	2.642	2.643	-0.001	97	214172	20.2	
39 2-Chloro-1,3-butadiene	53	2.672	2.673	-0.001	88	63208	10.2	
40 Tert-butyl ethyl ether	59	2.831	2.831	0.0	98	122836	10.0	
41 2,2-Dichloropropane	77	2.964	2.965	-0.001	92	54431	9.80	
42 cis-1,2-Dichloroethene	61	2.983	2.983	0.0	71	66016	9.99	
44 Ethyl acetate	43	2.995	2.996	-0.001	91	133627	20.0	
43 2-Butanone (MEK)	72	2.995	2.996	-0.001	92	23876	49.7	
45 Propionitrile	54	3.080	3.081	-0.001	98	59168	99.0	
46 Chlorobromomethane	130	3.135	3.135	0.0	54	20578	10.0	
47 Methacrylonitrile	41	3.141	3.142	-0.001	94	291609	102.0	
48 Tetrahydrofuran	42	3.147	3.148	-0.001	28	36047	18.8	
49 Chloroform	83	3.165	3.166	-0.001	71	64153	9.55	
51 1,1,1-Trichloroethane	97	3.263	3.263	0.0	90	53499	9.69	
50 Cyclohexane	56	3.263	3.263	0.0	92	73111	9.98	
53 Carbon tetrachloride	117	3.348	3.348	0.0	91	45018	9.80	
54 1,1-Dichloropropene	75	3.366	3.367	-0.001	92	51347	10.2	
55 Isobutyl alcohol	43	3.457	3.458	-0.001	95	37713	93.9	
56 Benzene	78	3.500	3.500	0.0	97	157620	10.0	
58 Tert-amyl methyl ether	73	3.542	3.543	-0.001	97	109647	9.97	
59 1,2-Dichloroethane	62	3.555	3.555	0.0	77	52680	10.4	
60 n-Heptane	43	3.597	3.598	-0.001	92	64931	9.78	
61 n-Butanol	56	3.913	3.914	-0.001	89	21404	251.3	
62 Trichloroethene	130	3.932	3.926	0.006	93	39393	10.2	
63 Ethyl acrylate	55	4.011	4.005	0.006	0	113160	10.0	
64 Cyclohexanone	55	4.011	4.005	0.006	76	113160	100.1	
65 Methylcyclohexane	83	4.011	4.012	-0.001	88	71875	10.1	
66 1,2-Dichloropropane	63	4.114	4.115	-0.001	94	40819	9.95	
68 Methyl methacrylate	41	4.163	4.164	-0.001	89	76576	19.1	
69 Dibromomethane	93	4.205	4.206	-0.001	86	21070	9.53	
70 1,4-Dioxane	88	4.212	4.212	0.0	16	7782	197.7	M
71 Dichlorobromomethane	83	4.303	4.304	-0.001	92	45684	9.81	
72 2-Nitropropane	43	4.522	4.523	0.0	77	28347	19.5	
73 2-Chloroethyl vinyl ether	63	4.522	4.523	0.0	84	25065	10.5	
74 cis-1,3-Dichloropropene	75	4.637	4.638	-0.001	87	55739	10.2	
75 4-Methyl-2-pentanone (MIBK)	58	4.747	4.748	-0.001	97	70162	48.3	
76 Toluene	91	4.856	4.851	0.005	98	157763	10.1	
77 trans-1,3-Dichloropropene	75	5.088	5.088	0.0	94	45433	9.80	
78 Ethyl methacrylate	69	5.106	5.100	0.006	90	48302	10.1	
79 1,1,2-Trichloroethane	97	5.234	5.228	0.006	91	31334	10.1	
80 Tetrachloroethene	166	5.276	5.271	0.005	90	39605	9.86	
81 1,3-Dichloropropane	76	5.374	5.374	0.0	91	56092	9.93	
82 2-Hexanone	58	5.416	5.411	0.005	97	66800	50.0	
83 n-Butyl acetate	43	5.489	5.490	-0.001	92	30238	10.5	
84 Chlorodibromomethane	127	5.532	5.532	0.0	90	24263	8.39	
85 Ethylene Dibromide	107	5.641	5.636	0.005	96	32088	9.81	
87 Chlorobenzene	112	6.031	6.031	0.0	93	103672	10.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
88 Ethylbenzene	91	6.091	6.092	-0.001	98	180660	9.98	
89 1,1,1,2-Tetrachloroethane	131	6.110	6.104	0.006	83	34416	10.1	
90 m-Xylene & p-Xylene	91	6.201	6.202	-0.001	99	138020	9.82	
91 o-Xylene	91	6.554	6.554	0.0	97	138257	11.3	
92 Styrene	104	6.578	6.579	-0.001	95	114031	10.1	
93 Bromoform	173	6.767	6.767	0.0	95	19638	9.41	
94 Isopropylbenzene	105	6.870	6.871	-0.001	96	181317	10.2	
95 Bromobenzene	77	7.186	7.187	-0.001	96	68595	10.1	
96 1,1,2,2-Tetrachloroethane	83	7.229	7.224	0.005	79	41667	10.2	
97 N-Propylbenzene	91	7.253	7.254	-0.001	96	216428	10.1	
98 1,2,3-Trichloropropane	110	7.265	7.266	-0.001	75	14485	10.3	
99 trans-1,4-Dichloro-2-butene	53	7.290	7.284	0.006	46	10684	8.41	
100 2-Chlorotoluene	91	7.357	7.357	0.0	96	119180	9.73	
101 1,3,5-Trimethylbenzene	105	7.430	7.424	0.006	92	146675	10.1	
102 4-Chlorotoluene	91	7.466	7.467	-0.001	96	130044	10.1	
103 tert-Butylbenzene	119	7.716	7.716	0.0	92	126595	10.0	
105 1,2,4-Trimethylbenzene	105	7.783	7.783	0.0	97	149566	10.2	
106 sec-Butylbenzene	105	7.929	7.929	0.0	93	187816	10.1	
108 1,3-Dichlorobenzene	146	8.075	8.069	0.006	68	79420	9.86	
107 4-Isopropyltoluene	119	8.068	8.069	-0.001	97	161792	10.1	
109 1,4-Dichlorobenzene	146	8.166	8.160	0.006	87	78686	9.61	
110 1,2,3-Trimethylbenzene	105	8.184	8.185	-0.001	0	147785	9.98	
111 Benzyl chloride	91	8.306	8.306	0.0	98	60845	9.15	
112 n-Butylbenzene	91	8.464	8.465	-0.001	97	137400	9.87	
113 1,2-Dichlorobenzene	146	8.519	8.519	0.0	97	73611	10.0	
114 1,2-Dibromo-3-Chloropropane	157	9.297	9.298	-0.001	64	8367	8.96	
115 1,3,5-Trichlorobenzene	180	9.456	9.456	0.0	96	49193	10.3	
116 1,2,4-Trichlorobenzene	180	10.161	10.162	-0.001	93	41568	10.1	
117 Hexachlorobutadiene	225	10.319	10.314	0.005	87	20740	9.37	
118 Naphthalene	128	10.465	10.460	0.005	97	120753	9.44	
119 1,2,3-Trichlorobenzene	180	10.757	10.758	-0.001	95	38185	10.1	
S 134 Xylenes, Total	1				0		21.1	
S 135 1,2-Dichloroethene, Total	1				0		19.9	

QC Flag Legend

Review Flags
M - Manually Integrated

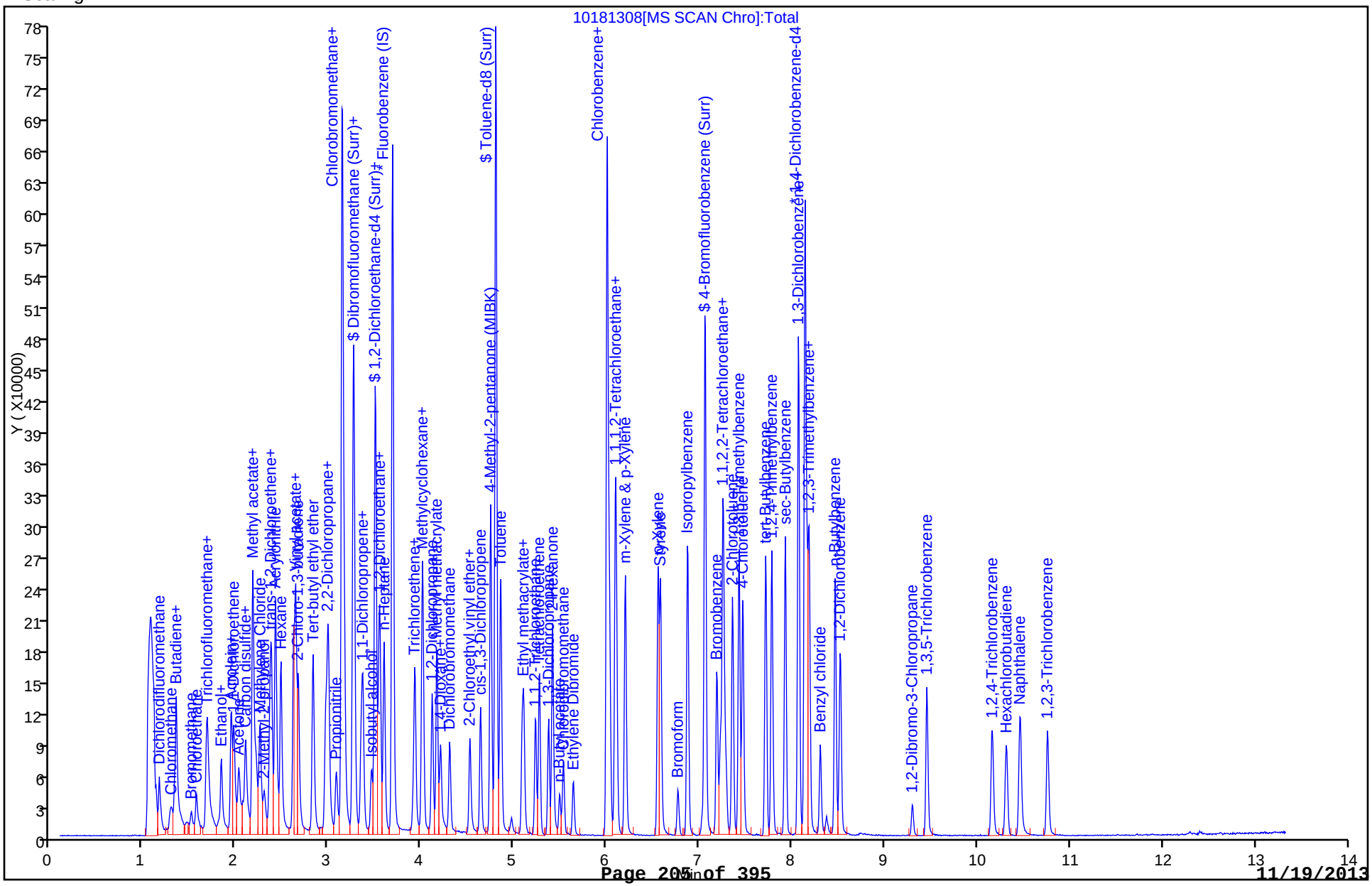
Report Date: 19-Oct-2013 19:52:40 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181308.D

Injection Date:	18-Oct-2013 21:59:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	6
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Manual Integration/User Assign Peak Report

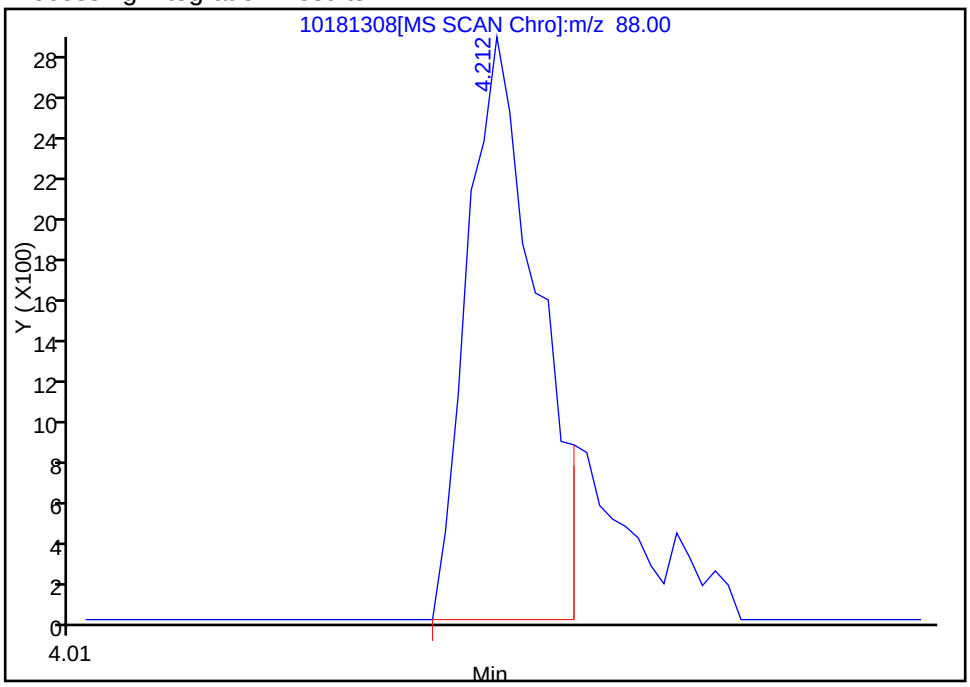
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181308.D		
Injection Date:	18-Oct-2013 21:59:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	6
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

70 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 4.21

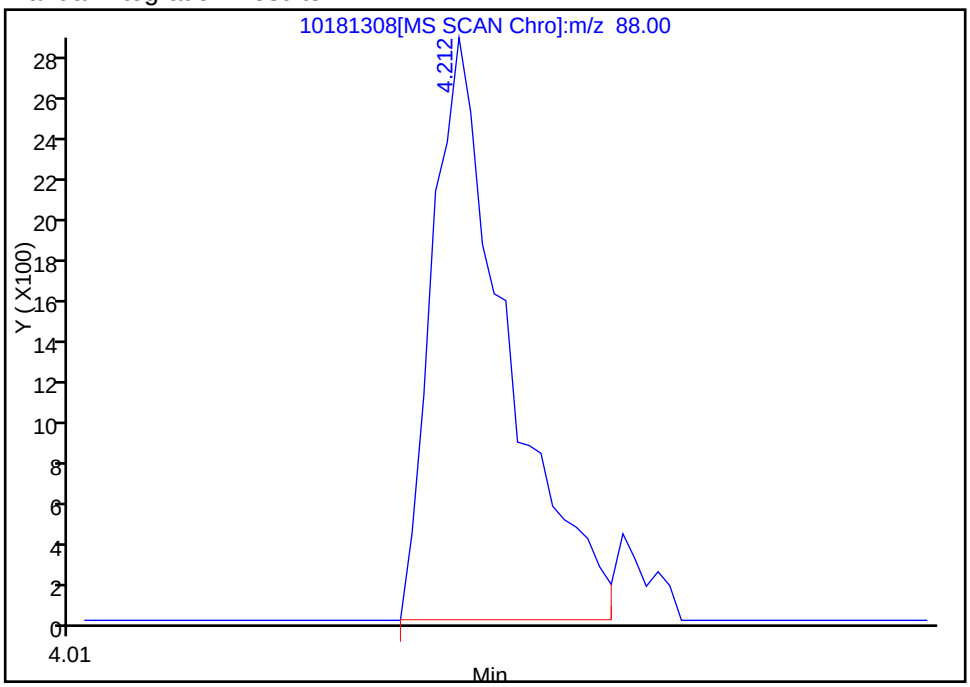
Processing Integration Results

RT: 4.21
Response: 6638
Amount: 164.2926



Manual Integration Results

RT: 4.21
Response: 7782
Amount: 197.7309



Reviewer: redmondj, 19-Oct-2013 19:52:39
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181309.D		
Lims ID:	icis	Client ID:	
Inject. Date:	18-Oct-2013 22:26:30	Dil. Factor:	1.0000
Sample Type:	ICIS	Calib Level:	6
Sample ID:	ICIS		
Misc. Info.:	490-0026993-007		
Operator:	JJR	Instrument ID:	HP33
Purge Vol:	5.000 mL	ALS Bottle#:	9
Lims Batch ID:	115521	Lims Sample ID:	7
Sublist:	chrom-8260HP33*sub13		
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\8260HP33.m		
Last Update:	19-Oct-2013 19:41:23	Calib Date:	19-Oct-2013 00:14:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK030		
First Level Reviewer: redmondj		Date:	19-Oct-2013 19:38:53

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.689	3.689	0.0	98	511147	30.0	
* 2 Chlorobenzene-d5	117	6.007	6.007	0.0	85	349463	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.142	8.142	0.0	94	161267	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.269	3.269	0.0	81	121845	30.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.507	3.507	0.0	86	146813	30.5	
$ 6 Toluene-d8 (Surr)	98	4.802	4.802	0.0	91	462180	29.7	
$ 7 4-Bromofluorobenzene (Surr)	95	7.059	7.059	0.0	89	169399	30.0	
9 Dichlorodifluoromethane	85	1.171	1.171	0.0	87	89974	19.9	
10 Chloromethane	50	1.298	1.298	0.0	99	77526	17.2	
11 Vinyl chloride	62	1.335	1.335	0.0	80	91095	19.5	
12 Butadiene	54	1.353	1.353	0.0	0	88131	19.7	
13 Bromomethane	96	1.517	1.517	0.0	90	21412	14.7	
14 Chloroethane	64	1.566	1.566	0.0	95	60374	19.2	
15 Dichlorofluoromethane	67	1.675	1.675	0.0	83	143830	19.2	
16 Trichlorofluoromethane	101	1.688	1.688	0.0	86	123293	20.0	
18 Ethyl ether	59	1.840	1.840	0.0	93	67630	19.8	
17 Ethanol	45	1.840	1.840	0.0	78	81072	980.3	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.943	1.943	0.0	84	71781	19.6	
20 Acrolein	56	1.949	1.949	0.0	54	29013	43.7	
21 1,1-Dichloroethene	96	1.974	1.974	0.0	90	66865	20.1	
22 Acetone	58	2.028	2.028	0.0	99	38379	88.3	
23 Iodomethane	142	2.071	2.071	0.0	98	46686	17.0	
25 Isopropyl alcohol	45	2.095	2.095	0.0	4	34863	198.2	
26 Carbon disulfide	76	2.101	2.101	0.0	99	210074	18.8	
29 Acetonitrile	41	2.174	2.174	0.0	72	98969	206.1	
27 3-Chloro-1-propene	76	2.174	2.174	0.0	88	51430	19.7	
28 Methyl acetate	43	2.180	2.180	0.0	98	416057	97.8	
30 Methylene Chloride	84	2.253	2.253	0.0	84	74943	18.6	
31 2-Methyl-2-propanol	59	2.302	2.302	0.0	95	56215	189.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
32 Methyl tert-butyl ether	73	2.363	2.363	0.0	88	226369	19.3	
33 trans-1,2-Dichloroethene	61	2.381	2.381	0.0	94	107887	19.5	
34 Acrylonitrile	53	2.424	2.424	0.0	98	326664	190.5	
35 Hexane	57	2.485	2.485	0.0	89	125144	18.9	
36 Isopropyl ether	45	2.618	2.618	0.0	94	276006	19.0	
37 1,1-Dichloroethane	63	2.637	2.637	0.0	85	145527	19.8	
38 Vinyl acetate	43	2.643	2.643	0.0	97	431596	38.8	
39 2-Chloro-1,3-butadiene	53	2.673	2.673	0.0	83	127860	19.7	
40 Tert-butyl ethyl ether	59	2.831	2.831	0.0	99	251874	19.6	
41 2,2-Dichloropropane	77	2.965	2.965	0.0	92	110759	19.0	
42 cis-1,2-Dichloroethene	61	2.983	2.983	0.0	71	133276	19.2	
44 Ethyl acetate	43	2.996	2.996	0.0	93	261891	37.4	
43 2-Butanone (MEK)	72	2.996	2.996	0.0	92	44434	92.3	
45 Propionitrile	54	3.081	3.081	0.0	99	119998	191.4	
46 Chlorobromomethane	130	3.135	3.135	0.0	79	42242	19.6	
47 Methacrylonitrile	41	3.142	3.142	0.0	94	577566	192.5	
48 Tetrahydrofuran	42	3.148	3.148	0.0	74	69395	34.6	
49 Chloroform	83	3.166	3.166	0.0	84	133451	18.9	
51 1,1,1-Trichloroethane	97	3.263	3.263	0.0	86	114586	19.8	
50 Cyclohexane	56	3.263	3.263	0.0	92	151206	19.7	
53 Carbon tetrachloride	117	3.348	3.348	0.0	81	91932	19.1	
54 1,1-Dichloropropene	75	3.367	3.367	0.0	95	103629	19.6	
55 Isobutyl alcohol	43	3.458	3.458	0.0	94	74977	178.1	
56 Benzene	78	3.500	3.500	0.0	94	318186	19.3	
58 Tert-amyl methyl ether	73	3.543	3.543	0.0	97	225735	19.6	
59 1,2-Dichloroethane	62	3.555	3.555	0.0	79	105185	18.5	
60 n-Heptane	43	3.598	3.598	0.0	92	132832	19.1	
61 n-Butanol	56	3.914	3.914	0.0	92	41445	436.0	
62 Trichloroethene	130	3.926	3.926	0.0	99	79058	19.5	
63 Ethyl acrylate	55	4.005	4.005	0.0	0	222334	18.7	
64 Cyclohexanone	55	4.005	4.005	0.0	77	222334	187.4	
65 Methylcyclohexane	83	4.012	4.012	0.0	93	145067	19.5	
66 1,2-Dichloropropane	63	4.115	4.115	0.0	94	84913	19.7	
68 Methyl methacrylate	41	4.164	4.164	0.0	91	159710	37.9	
69 Dibromomethane	93	4.206	4.206	0.0	85	46425	20.0	
70 1,4-Dioxane	88	4.212	4.212	0.0	1	13727	370.6	M
71 Dichlorobromomethane	83	4.304	4.304	0.0	93	95309	19.5	
73 2-Chloroethyl vinyl ether	63	4.523	4.523	0.0	84	49431	20.2	
72 2-Nitropropane	43	4.523	4.523	0.0	75	62431	34.5	
74 cis-1,3-Dichloropropene	75	4.638	4.638	0.0	90	115126	20.1	
75 4-Methyl-2-pentanone (MIBK)	58	4.748	4.748	0.0	97	145108	95.1	
76 Toluene	91	4.851	4.851	0.0	97	319645	19.5	
77 trans-1,3-Dichloropropene	75	5.088	5.088	0.0	94	96870	19.9	
78 Ethyl methacrylate	69	5.100	5.100	0.0	90	100622	20.0	
79 1,1,2-Trichloroethane	97	5.228	5.228	0.0	87	64933	19.9	
80 Tetrachloroethene	166	5.271	5.271	0.0	88	81315	19.3	
81 1,3-Dichloropropane	76	5.374	5.374	0.0	92	115132	19.4	
82 2-Hexanone	58	5.411	5.411	0.0	97	135252	96.3	
83 n-Butyl acetate	43	5.490	5.490	0.0	95	60951	17.9	
84 Chlorodibromomethane	127	5.532	5.532	0.0	88	51884	16.9	
85 Ethylene Dibromide	107	5.636	5.636	0.0	97	67244	19.5	
87 Chlorobenzene	112	6.031	6.031	0.0	93	210660	19.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
88 Ethylbenzene	91	6.092	6.092	0.0	98	370735	19.5	
89 1,1,1,2-Tetrachloroethane	131	6.104	6.104	0.0	84	69922	19.5	
90 m-Xylene & p-Xylene	91	6.202	6.202	0.0	98	283621	19.2	
91 o-Xylene	91	6.554	6.554	0.0	97	288823	22.4	
92 Styrene	104	6.579	6.579	0.0	95	237904	20.0	
93 Bromoform	173	6.767	6.767	0.0	95	41764	15.8	
94 Isopropylbenzene	105	6.871	6.871	0.0	96	365713	19.6	
95 Bromobenzene	77	7.187	7.187	0.0	94	135489	19.1	
96 1,1,2,2-Tetrachloroethane	83	7.224	7.224	0.0	81	82628	19.4	
97 N-Propylbenzene	91	7.254	7.254	0.0	97	436860	19.7	
98 1,2,3-Trichloropropane	110	7.266	7.266	0.0	81	27937	20.0	
99 trans-1,4-Dichloro-2-butene	53	7.284	7.284	0.0	32	23776	17.0	
100 2-Chlorotoluene	91	7.357	7.357	0.0	96	247324	19.5	
101 1,3,5-Trimethylbenzene	105	7.424	7.424	0.0	94	297918	19.7	
102 4-Chlorotoluene	91	7.467	7.467	0.0	97	262947	19.7	
103 tert-Butylbenzene	119	7.716	7.716	0.0	92	259436	19.8	
105 1,2,4-Trimethylbenzene	105	7.783	7.783	0.0	97	305127	19.9	
106 sec-Butylbenzene	105	7.929	7.929	0.0	94	385507	20.0	
108 1,3-Dichlorobenzene	146	8.069	8.069	0.0	70	165486	19.8	
107 4-Isopropyltoluene	119	8.069	8.069	0.0	97	334210	20.0	
109 1,4-Dichlorobenzene	146	8.160	8.160	0.0	92	164088	19.3	
110 1,2,3-Trimethylbenzene	105	8.185	8.185	0.0	0	304057	19.7	
111 Benzyl chloride	91	8.306	8.306	0.0	99	132461	16.8	
112 n-Butylbenzene	91	8.465	8.465	0.0	97	292932	20.2	
113 1,2-Dichlorobenzene	146	8.519	8.519	0.0	97	149744	19.6	
114 1,2-Dibromo-3-Chloropropane	157	9.298	9.298	0.0	74	17998	17.8	
115 1,3,5-Trichlorobenzene	180	9.456	9.456	0.0	97	101765	20.5	
116 1,2,4-Trichlorobenzene	180	10.162	10.162	0.0	93	86195	19.9	
117 Hexachlorobutadiene	225	10.314	10.314	0.0	94	44072	19.1	
118 Naphthalene	128	10.460	10.460	0.0	97	254387	19.1	
119 1,2,3-Trichlorobenzene	180	10.758	10.758	0.0	94	78463	19.9	
S 134 Xylenes, Total	1				0		41.6	
S 135 1,2-Dichloroethene, Total	1				0		38.7	

QC Flag Legend

Review Flags
M - Manually Integrated

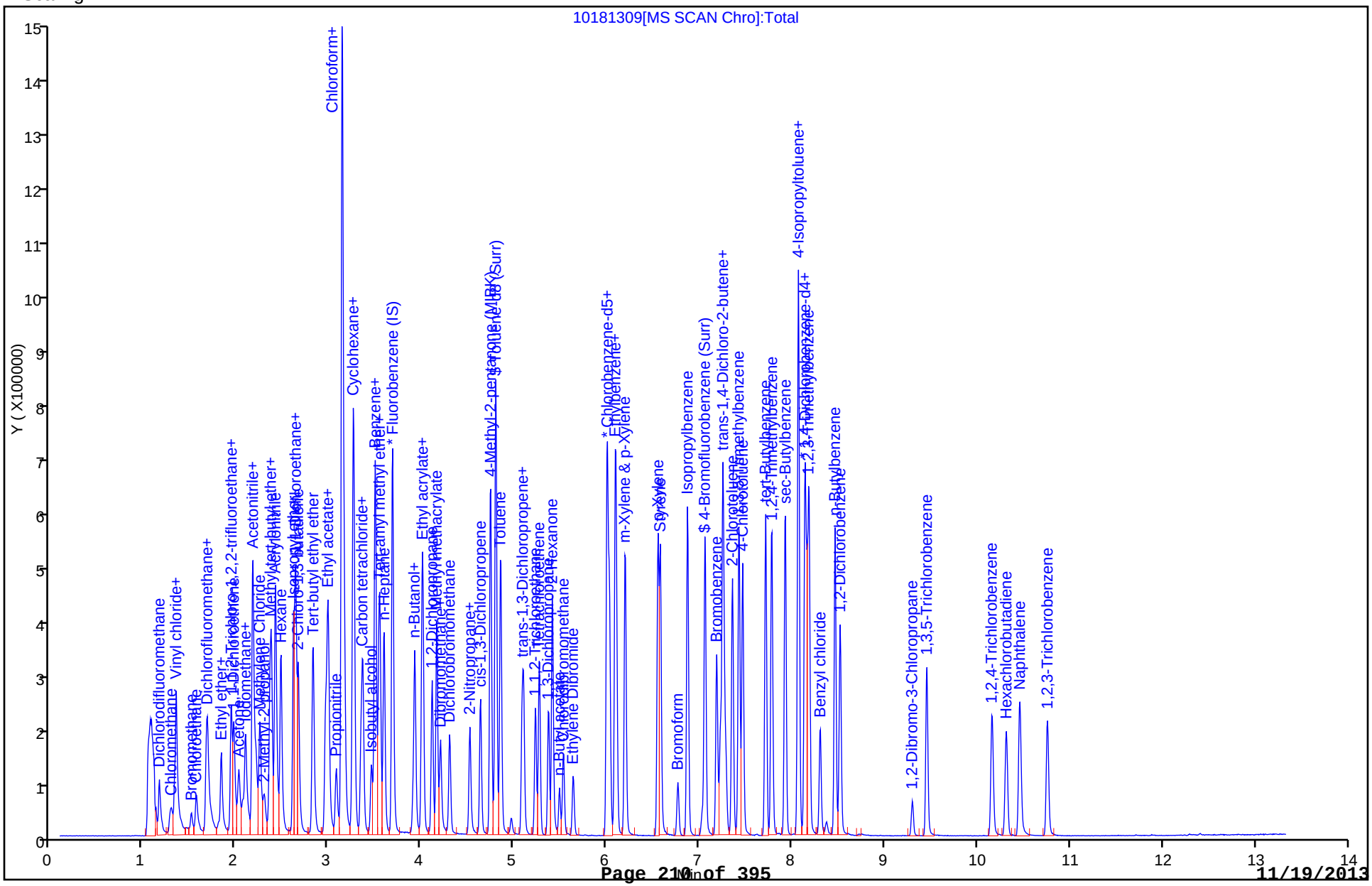
Report Date: 19-Oct-2013 19:41:23 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181309.D

Injection Date:	18-Oct-2013 22:26:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	7
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



Manual Integration/User Assign Peak Report

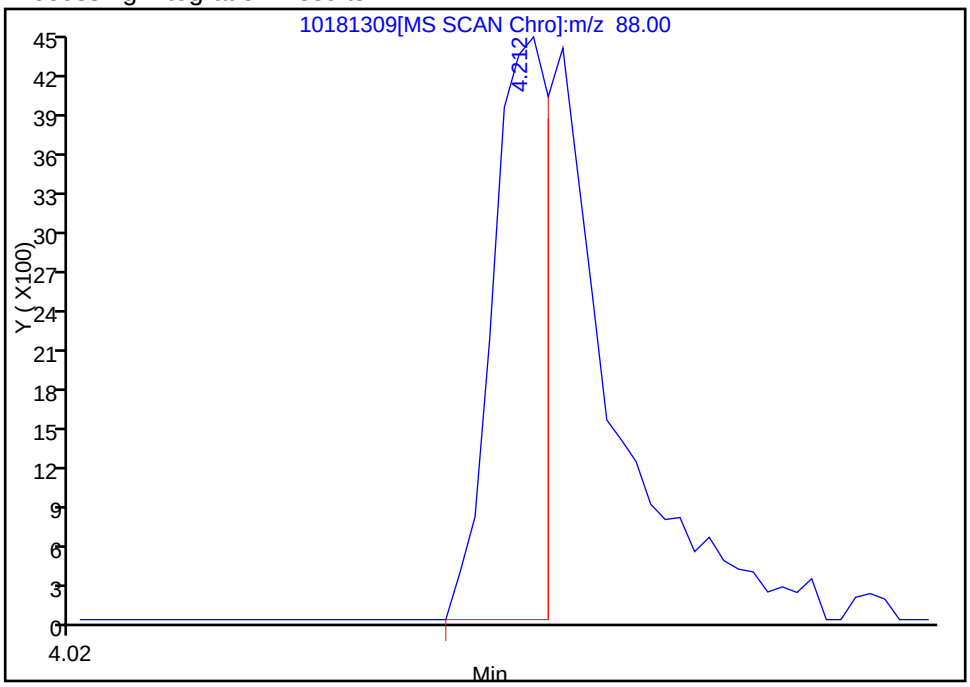
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181309.D		
Injection Date:	18-Oct-2013 22:26:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	7
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

70 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 4.21

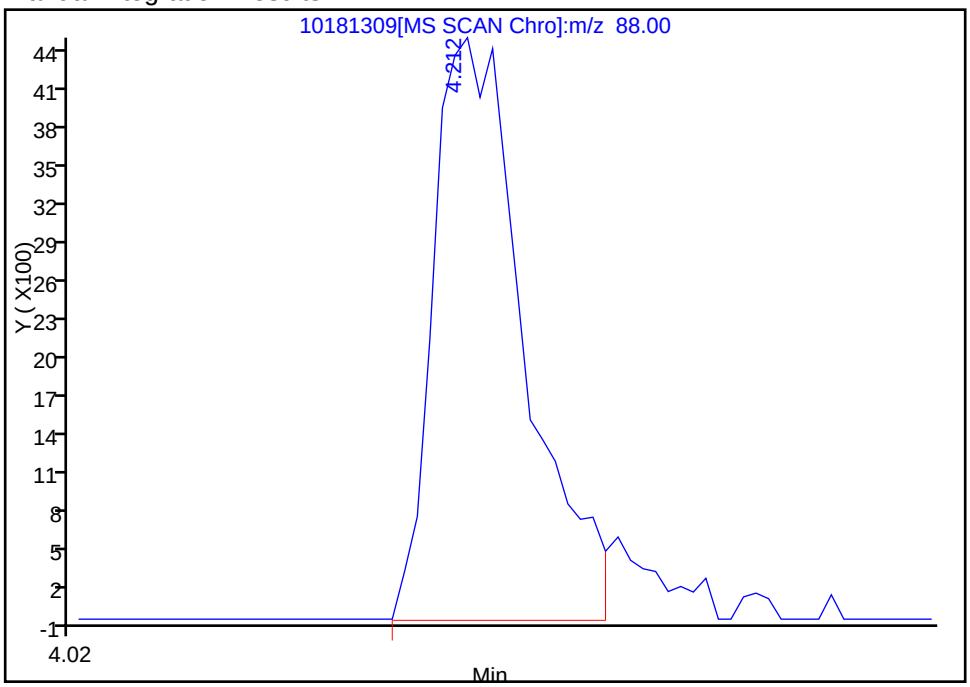
Processing Integration Results

RT: 4.21
Response: 7316
Amount: 222.1756



Manual Integration Results

RT: 4.21
Response: 13727
Amount: 370.6062



Reviewer: redmondj, 19-Oct-2013 19:38:53
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181310.D		
Lims ID:	std050	Client ID:	
Inject. Date:	18-Oct-2013 22:53:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	STD050		
Misc. Info.:	490-0026993-008		
Operator:	JJR	Instrument ID:	HP33
Purge Vol:	5.000 mL	ALS Bottle#:	10
Lims Batch ID:	115521	Lims Sample ID:	8
Sublist:	chrom-8260HP33*sub13		
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\8260HP33.m		
Last Update:	19-Oct-2013 19:53:36	Calib Date:	19-Oct-2013 00:14:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK030		

First Level Reviewer: redmondj Date: 19-Oct-2013 19:53:36

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.688	3.688	0.0	99	519995	30.0	
* 2 Chlorobenzene-d5	117	6.006	6.006	0.0	85	355525	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.142	8.142	0.0	94	173794	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.269	3.269	0.0	66	125360	30.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.506	3.506	0.0	76	143918	29.4	
$ 6 Toluene-d8 (Surr)	98	4.802	4.802	0.0	91	468031	29.5	
$ 7 4-Bromofluorobenzene (Surr)	95	7.059	7.059	0.0	88	177094	29.1	
9 Dichlorodifluoromethane	85	1.170	1.170	0.0	88	207149	44.9	
10 Chloromethane	50	1.292	1.292	0.0	89	190500	43.3	
11 Vinyl chloride	62	1.334	1.334	0.0	94	217797	45.8	
12 Butadiene	54	1.352	1.352	0.0	0	210303	46.2	
13 Bromomethane	96	1.511	1.511	0.0	90	67580	36.0	
14 Chloroethane	64	1.565	1.565	0.0	99	142090	42.8	
15 Dichlorofluoromethane	67	1.675	1.675	0.0	83	350201	46.0	
16 Trichlorofluoromethane	101	1.687	1.687	0.0	86	295928	47.3	
18 Ethyl ether	59	1.839	1.839	0.0	93	164126	47.2	
17 Ethanol	45	1.839	1.839	0.0	78	196421	2151.8	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.943	1.943	0.0	87	169830	45.7	
20 Acrolein	56	1.949	1.949	0.0	97	74022	109.6	
21 1,1-Dichloroethene	96	1.973	1.973	0.0	97	156923	46.4	
22 Acetone	58	2.028	2.028	0.0	99	88376	208.3	
23 Iodomethane	142	2.070	2.070	0.0	97	136795	44.2	
25 Isopropyl alcohol	45	2.095	2.095	0.0	7	85739	465.4	
26 Carbon disulfide	76	2.101	2.101	0.0	99	501830	44.1	
29 Acetonitrile	41	2.174	2.174	0.0	71	221463	471.7	
27 3-Chloro-1-propene	76	2.174	2.174	0.0	87	120546	45.3	
28 Methyl acetate	43	2.180	2.180	0.0	98	1027082	237.3	
30 Methylene Chloride	84	2.253	2.253	0.0	85	183724	44.8	
31 2-Methyl-2-propanol	59	2.301	2.301	0.0	97	143738	475.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
32 Methyl tert-butyl ether	73	2.362	2.362	0.0	88	555257	46.6	
33 trans-1,2-Dichloroethene	61	2.381	2.381	0.0	92	258055	45.8	
34 Acrylonitrile	53	2.423	2.423	0.0	97	812038	465.4	
35 Hexane	57	2.484	2.484	0.0	89	293618	43.6	
36 Isopropyl ether	45	2.618	2.618	0.0	95	676380	45.7	
37 1,1-Dichloroethane	63	2.636	2.636	0.0	84	353253	47.1	
38 Vinyl acetate	43	2.642	2.642	0.0	97	1033112	91.2	
39 2-Chloro-1,3-butadiene	53	2.666	2.666	0.0	91	304069	46.0	
40 Tert-butyl ethyl ether	59	2.825	2.825	0.0	99	614779	47.1	
41 2,2-Dichloropropane	77	2.965	2.965	0.0	93	272932	46.0	
42 cis-1,2-Dichloroethene	61	2.983	2.983	0.0	71	329501	46.7	
44 Ethyl acetate	43	2.995	2.995	0.0	92	671353	94.1	
43 2-Butanone (MEK)	72	2.995	2.995	0.0	97	122752	239.2	
45 Propionitrile	54	3.080	3.080	0.0	98	300445	470.9	
46 Chlorobromomethane	130	3.135	3.135	0.0	79	104215	47.6	
47 Methacrylonitrile	41	3.141	3.141	0.0	94	1447596	474.2	
48 Tetrahydrofuran	42	3.147	3.147	0.0	28	174364	85.3	
49 Chloroform	83	3.165	3.165	0.0	71	323161	45.0	
51 1,1,1-Trichloroethane	97	3.263	3.263	0.0	90	275490	46.7	
50 Cyclohexane	56	3.263	3.263	0.0	94	357206	45.7	
53 Carbon tetrachloride	117	3.348	3.348	0.0	82	228485	46.6	
54 1,1-Dichloropropene	75	3.366	3.366	0.0	94	246887	45.8	
55 Isobutyl alcohol	43	3.457	3.457	0.0	94	186329	435.3	
56 Benzene	78	3.500	3.500	0.0	98	773346	46.1	
58 Tert-amyl methyl ether	73	3.542	3.542	0.0	98	559223	47.6	
59 1,2-Dichloroethane	62	3.555	3.555	0.0	84	258980	47.7	
60 n-Heptane	43	3.597	3.597	0.0	92	321220	45.3	
61 n-Butanol	56	3.908	3.908	0.0	89	105457	1159.4	
62 Trichloroethene	130	3.926	3.926	0.0	94	193824	47.0	
63 Ethyl acrylate	55	4.005	4.005	0.0	0	552279	45.8	
64 Cyclohexanone	55	4.005	4.005	0.0	76	552279	457.6	
65 Methylcyclohexane	83	4.011	4.011	0.0	95	348123	46.0	
66 1,2-Dichloropropane	63	4.114	4.114	0.0	95	207099	47.3	
68 Methyl methacrylate	41	4.163	4.163	0.0	90	397529	92.8	
69 Dibromomethane	93	4.206	4.206	0.0	86	111797	47.3	
70 1,4-Dioxane	88	4.206	4.206	0.0	1	31464	856.6	
71 Dichlorobromomethane	83	4.303	4.303	0.0	93	245763	49.4	
72 2-Nitropropane	43	4.522	4.522	0.0	77	167717	81.8	
73 2-Chloroethyl vinyl ether	63	4.522	4.522	0.0	83	125730	49.3	
74 cis-1,3-Dichloropropene	75	4.638	4.638	0.0	90	291952	50.1	
75 4-Methyl-2-pentanone (MIBK)	58	4.747	4.747	0.0	97	375017	241.5	
76 Toluene	91	4.850	4.850	0.0	98	777913	46.6	
77 trans-1,3-Dichloropropene	75	5.082	5.082	0.0	95	251692	50.8	
78 Ethyl methacrylate	69	5.100	5.100	0.0	89	252546	49.3	
79 1,1,2-Trichloroethane	97	5.228	5.228	0.0	87	157558	47.6	
80 Tetrachloroethene	166	5.270	5.270	0.0	88	196269	45.7	
81 1,3-Dichloropropane	76	5.374	5.374	0.0	91	284984	47.2	
82 2-Hexanone	58	5.410	5.410	0.0	97	353742	247.6	
83 n-Butyl acetate	43	5.489	5.489	0.0	98	152309	49.7	
84 Chlorodibromomethane	127	5.532	5.532	0.0	89	135195	42.0	
85 Ethylene Dibromide	107	5.635	5.635	0.0	98	166345	47.6	
87 Chlorobenzene	112	6.031	6.031	0.0	94	516756	46.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
88 Ethylbenzene	91	6.091	6.091	0.0	99	904486	46.7	
89 1,1,1,2-Tetrachloroethane	131	6.104	6.104	0.0	84	181272	49.6	
90 m-Xylene & p-Xylene	91	6.195	6.195	0.0	98	698467	46.5	
91 o-Xylene	91	6.554	6.554	0.0	97	705791	53.8	
92 Styrene	104	6.578	6.578	0.0	95	597501	49.4	
93 Bromoform	173	6.767	6.767	0.0	96	118847	42.5	
94 Isopropylbenzene	105	6.870	6.870	0.0	96	904760	47.7	
95 Bromobenzene	77	7.186	7.186	0.0	94	346747	45.4	
96 1,1,2,2-Tetrachloroethane	83	7.229	7.229	0.0	79	212594	46.3	
97 N-Propylbenzene	91	7.253	7.253	0.0	97	1108776	46.4	
98 1,2,3-Trichloropropane	110	7.272	7.272	0.0	77	71707	45.7	
99 trans-1,4-Dichloro-2-butene	53	7.284	7.284	0.0	73	67466	43.4	
100 2-Chlorotoluene	91	7.357	7.357	0.0	96	629065	45.8	
101 1,3,5-Trimethylbenzene	105	7.430	7.430	0.0	85	761239	46.8	
102 4-Chlorotoluene	91	7.466	7.466	0.0	97	664726	46.1	
103 tert-Butylbenzene	119	7.716	7.716	0.0	88	659489	46.7	
105 1,2,4-Trimethylbenzene	105	7.783	7.783	0.0	98	782867	47.5	
106 sec-Butylbenzene	105	7.929	7.929	0.0	94	988980	47.5	
108 1,3-Dichlorobenzene	146	8.069	8.069	0.0	71	421550	46.7	
107 4-Isopropyltoluene	119	8.069	8.069	0.0	94	861047	47.8	
109 1,4-Dichlorobenzene	146	8.166	8.166	0.0	95	415727	45.3	
110 1,2,3-Trimethylbenzene	105	8.184	8.184	0.0	0	775484	46.7	
111 Benzyl chloride	91	8.300	8.300	0.0	99	387621	43.0	
112 n-Butylbenzene	91	8.464	8.464	0.0	97	753369	48.3	
113 1,2-Dichlorobenzene	146	8.519	8.519	0.0	96	384817	46.7	
114 1,2-Dibromo-3-Chloropropane	157	9.297	9.297	0.0	82	47077	42.3	
115 1,3,5-Trichlorobenzene	180	9.456	9.456	0.0	94	258585	48.4	
116 1,2,4-Trichlorobenzene	180	10.161	10.161	0.0	90	222696	48.2	
117 Hexachlorobutadiene	225	10.313	10.313	0.0	95	110065	44.4	
118 Naphthalene	128	10.459	10.459	0.0	97	657901	45.9	
119 1,2,3-Trichlorobenzene	180	10.757	10.757	0.0	93	199699	46.9	
S 134 Xylenes, Total	1				0		100.3	
S 135 1,2-Dichloroethene, Total	1				0		92.4	

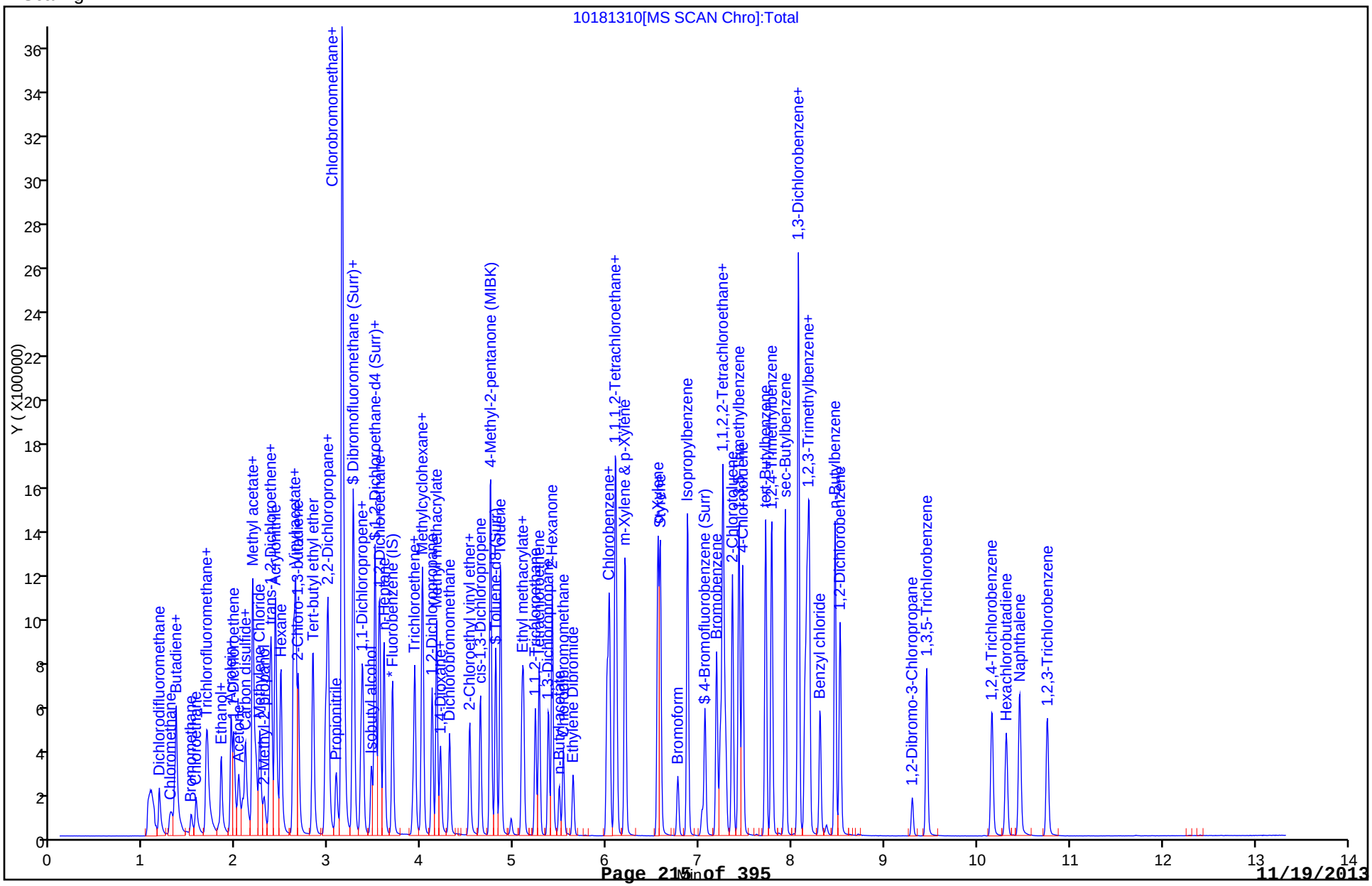
Report Date: 19-Oct-2013 19:53:37 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181310.D

Injection Date:	18-Oct-2013 22:53:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	8
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181312.D		
Lims ID:	std100	Client ID:	
Inject. Date:	18-Oct-2013 23:47:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	8
Sample ID:	STD100		
Misc. Info.:	490-0026993-010		
Operator:	JJR	Instrument ID:	HP33
Purge Vol:	5.000 mL	ALS Bottle#:	12
Lims Batch ID:	115521	Lims Sample ID:	10
Sublist:	chrom-8260HP33*sub13		
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\8260HP33.m		
Last Update:	19-Oct-2013 20:42:40	Calib Date:	19-Oct-2013 00:14:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK030		
First Level Reviewer: redmondj		Date:	19-Oct-2013 19:54:29

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.689	3.690	-0.001	99	503347	30.0	
* 2 Chlorobenzene-d5	117	6.007	6.002	0.005	83	347500	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.142	8.143	-0.001	93	168896	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.269	3.271	-0.002	61	121355	30.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.506	3.508	-0.002	70	142758	30.2	
$ 6 Toluene-d8 (Surr)	98	4.802	4.804	-0.002	91	462397	29.9	
$ 7 4-Bromofluorobenzene (Surr)	95	7.059	7.061	-0.002	88	172565	29.2	
9 Dichlorodifluoromethane	85	1.164	1.170	-0.006	88	511137	114.5	
10 Chloromethane	50	1.286	1.292	-0.006	89	485057	113.8	
11 Vinyl chloride	62	1.334	1.334	0.0	95	534324	116.0	
12 Butadiene	54	1.353	1.352	0.001	0	513971	116.7	
13 Bromomethane	96	1.505	1.511	-0.006	90	208748	104.8	
14 Chloroethane	64	1.560	1.565	-0.005	95	340027	110.0	
15 Dichlorofluoromethane	67	1.675	1.675	0.0	83	830329	112.8	
16 Trichlorofluoromethane	101	1.687	1.687	0.0	87	719719	118.8	
17 Ethanol	45	1.833	1.839	-0.006	90	469765	5297.9	
18 Ethyl ether	59	1.833	1.839	-0.006	96	388180	115.4	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.943	1.943	0.0	86	415105	115.3	
20 Acrolein	56	1.949	1.949	0.0	97	175253	268.1	
21 1,1-Dichloroethene	96	1.973	1.973	0.0	88	375677	114.7	
22 Acetone	58	2.028	2.028	0.0	99	214790	533.0	
23 Iodomethane	142	2.071	2.070	0.001	98	339021	108.6	
25 Isopropyl alcohol	45	2.095	2.095	0.0	71	195761	1097.8	
26 Carbon disulfide	76	2.095	2.101	-0.006	100	1213578	110.2	
29 Acetonitrile	41	2.174	2.174	0.0	71	509224	1003.8	
27 3-Chloro-1-propene	76	2.174	2.174	0.0	88	268195	104.2	
28 Methyl acetate	43	2.180	2.180	0.0	97	2326734	555.4	
30 Methylene Chloride	84	2.253	2.253	0.0	85	437743	110.4	
31 2-Methyl-2-propanol	59	2.302	2.301	0.001	97	326559	1116.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
32 Methyl tert-butyl ether	73	2.363	2.362	0.001	89	1301430	112.8	
33 trans-1,2-Dichloroethene	61	2.381	2.381	0.0	93	624157	114.3	
34 Acrylonitrile	53	2.423	2.423	0.0	99	1900185	1125.0	
35 Hexane	57	2.478	2.484	-0.006	89	716171	109.8	
36 Isopropyl ether	45	2.618	2.618	0.0	94	1584441	110.5	
37 1,1-Dichloroethane	63	2.636	2.636	0.0	85	852623	117.6	
38 Vinyl acetate	43	2.642	2.642	0.0	97	2378441	217.0	
39 2-Chloro-1,3-butadiene	53	2.667	2.666	0.001	92	733082	114.5	
40 Tert-butyl ethyl ether	59	2.825	2.825	0.0	98	1453895	115.0	
41 2,2-Dichloropropane	77	2.965	2.965	0.0	90	654736	114.1	
42 cis-1,2-Dichloroethene	61	2.983	2.983	0.0	70	786234	115.1	
44 Ethyl acetate	43	2.995	2.995	0.0	94	1569410	227.3	
43 2-Butanone (MEK)	72	2.995	2.995	0.0	97	283307	570.3	
45 Propionitrile	54	3.080	3.080	0.0	98	692378	1121.2	
46 Chlorobromomethane	130	3.135	3.135	0.0	51	247599	116.8	
47 Methacrylonitrile	41	3.147	3.141	0.006	93	3292660	1114.2	
48 Tetrahydrofuran	42	3.147	3.147	0.0	28	409801	207.2	
49 Chloroform	83	3.166	3.165	0.001	71	765761	110.2	
51 1,1,1-Trichloroethane	97	3.263	3.263	0.0	93	663590	116.3	
50 Cyclohexane	56	3.257	3.263	-0.006	93	875926	115.7	
53 Carbon tetrachloride	117	3.348	3.348	0.0	82	571187	120.3	
54 1,1-Dichloropropene	75	3.366	3.366	0.0	94	600081	115.0	
55 Isobutyl alcohol	43	3.458	3.457	0.001	94	428565	1088.6	
56 Benzene	78	3.494	3.500	-0.006	96	1841890	113.3	
58 Tert-amyl methyl ether	73	3.543	3.542	0.001	98	1324308	116.5	
59 1,2-Dichloroethane	62	3.555	3.555	0.0	84	608481	115.9	
60 n-Heptane	43	3.591	3.597	-0.006	92	775311	112.9	
61 n-Butanol	56	3.908	3.908	0.0	90	244496	2777.0	
62 Trichloroethene	130	3.926	3.926	0.0	94	462980	116.0	
63 Ethyl acrylate	55	4.005	4.005	0.0	0	1318604	112.9	
64 Cyclohexanone	55	4.005	4.005	0.0	76	1318604	1128.6	
65 Methylcyclohexane	83	4.011	4.011	0.0	95	853914	116.5	
66 1,2-Dichloropropane	63	4.115	4.114	0.001	95	488528	115.2	
68 Methyl methacrylate	41	4.163	4.163	0.0	90	939239	226.6	
69 Dibromomethane	93	4.206	4.206	0.0	90	266880	116.8	
70 1,4-Dioxane	88	4.212	4.206	0.006	69	70098	2086.5	
71 Dichlorobromomethane	83	4.303	4.303	0.0	93	599558	124.6	
72 2-Nitropropane	43	4.516	4.522	-0.006	80	417265	241.1	
73 2-Chloroethyl vinyl ether	63	4.522	4.522	0.0	81	294660	118.3	
74 cis-1,3-Dichloropropene	75	4.638	4.638	0.0	90	715178	125.5	
75 4-Methyl-2-pentanone (MIBK)	58	4.747	4.747	0.0	97	892843	588.3	
76 Toluene	91	4.851	4.850	0.001	98	1865807	114.4	
77 trans-1,3-Dichloropropene	75	5.082	5.082	0.0	94	617419	127.4	
78 Ethyl methacrylate	69	5.100	5.100	0.0	90	618185	123.4	
79 1,1,2-Trichloroethane	97	5.228	5.228	0.0	87	378287	116.8	
80 Tetrachloroethene	166	5.270	5.270	0.0	85	480832	114.5	
81 1,3-Dichloropropane	76	5.368	5.374	-0.006	92	675996	114.5	
82 2-Hexanone	58	5.410	5.410	0.0	97	849923	608.8	
83 n-Butyl acetate	43	5.483	5.489	-0.006	98	356509	120.2	
84 Chlorodibromomethane	127	5.532	5.532	0.0	88	341942	107.8	
85 Ethylene Dibromide	107	5.635	5.635	0.0	99	396859	116.1	
87 Chlorobenzene	112	6.031	6.031	0.0	94	1223619	113.6	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
88 Ethylbenzene	91	6.092	6.091	0.001	98	2171016	114.8	
89 1,1,1,2-Tetrachloroethane	131	6.104	6.104	0.0	85	446695	125.0	
90 m-Xylene & p-Xylene	91	6.195	6.195	0.0	99	1687537	114.9	
91 o-Xylene	91	6.554	6.554	0.0	97	1702638	117.1	
92 Styrene	104	6.578	6.578	0.0	95	1446577	122.3	
93 Bromoform	173	6.767	6.767	0.0	97	300076	108.5	
94 Isopropylbenzene	105	6.870	6.870	0.0	96	2172946	117.1	
95 Bromobenzene	77	7.187	7.186	0.001	94	826581	111.3	
96 1,1,2,2-Tetrachloroethane	83	7.229	7.229	0.0	89	499351	112.0	
97 N-Propylbenzene	91	7.254	7.253	0.001	97	2624182	113.0	
98 1,2,3-Trichloropropane	110	7.272	7.272	0.0	82	169760	111.2	
99 trans-1,4-Dichloro-2-butene	53	7.284	7.284	0.0	71	156665	117.4	
100 2-Chlorotoluene	91	7.357	7.357	0.0	96	1489900	111.7	
101 1,3,5-Trimethylbenzene	105	7.430	7.430	0.0	93	1804323	114.1	
102 4-Chlorotoluene	91	7.467	7.466	0.001	96	1598595	114.1	
103 tert-Butylbenzene	119	7.716	7.716	0.0	92	1590621	115.8	
105 1,2,4-Trimethylbenzene	105	7.783	7.783	0.0	97	1840960	114.8	
106 sec-Butylbenzene	105	7.929	7.929	0.0	94	2349985	116.2	
108 1,3-Dichlorobenzene	146	8.069	8.069	0.0	69	999699	114.0	
107 4-Isopropyltoluene	119	8.069	8.069	0.0	96	2081752	118.9	
109 1,4-Dichlorobenzene	146	8.166	8.166	0.0	94	1005016	112.7	
110 1,2,3-Trimethylbenzene	105	8.184	8.184	0.0	0	1827694	113.3	
111 Benzyl chloride	91	8.300	8.300	0.0	99	976649	108.2	
112 n-Butylbenzene	91	8.464	8.464	0.0	97	1824371	120.3	
113 1,2-Dichlorobenzene	146	8.519	8.519	0.0	96	918273	114.8	
114 1,2-Dibromo-3-Chloropropane	157	9.298	9.297	0.001	85	118650	108.2	
115 1,3,5-Trichlorobenzene	180	9.456	9.456	0.0	94	639007	123.1	
116 1,2,4-Trichlorobenzene	180	10.156	10.161	-0.005	93	550520	122.5	
117 Hexachlorobutadiene	225	10.314	10.313	0.001	96	274806	114.0	
118 Naphthalene	128	10.460	10.459	0.001	97	1599302	114.8	
119 1,2,3-Trichlorobenzene	180	10.758	10.757	0.001	93	504924	122.1	
S 134 Xylenes, Total	1				0		232.0	
S 135 1,2-Dichloroethene, Total	1				0		229.4	

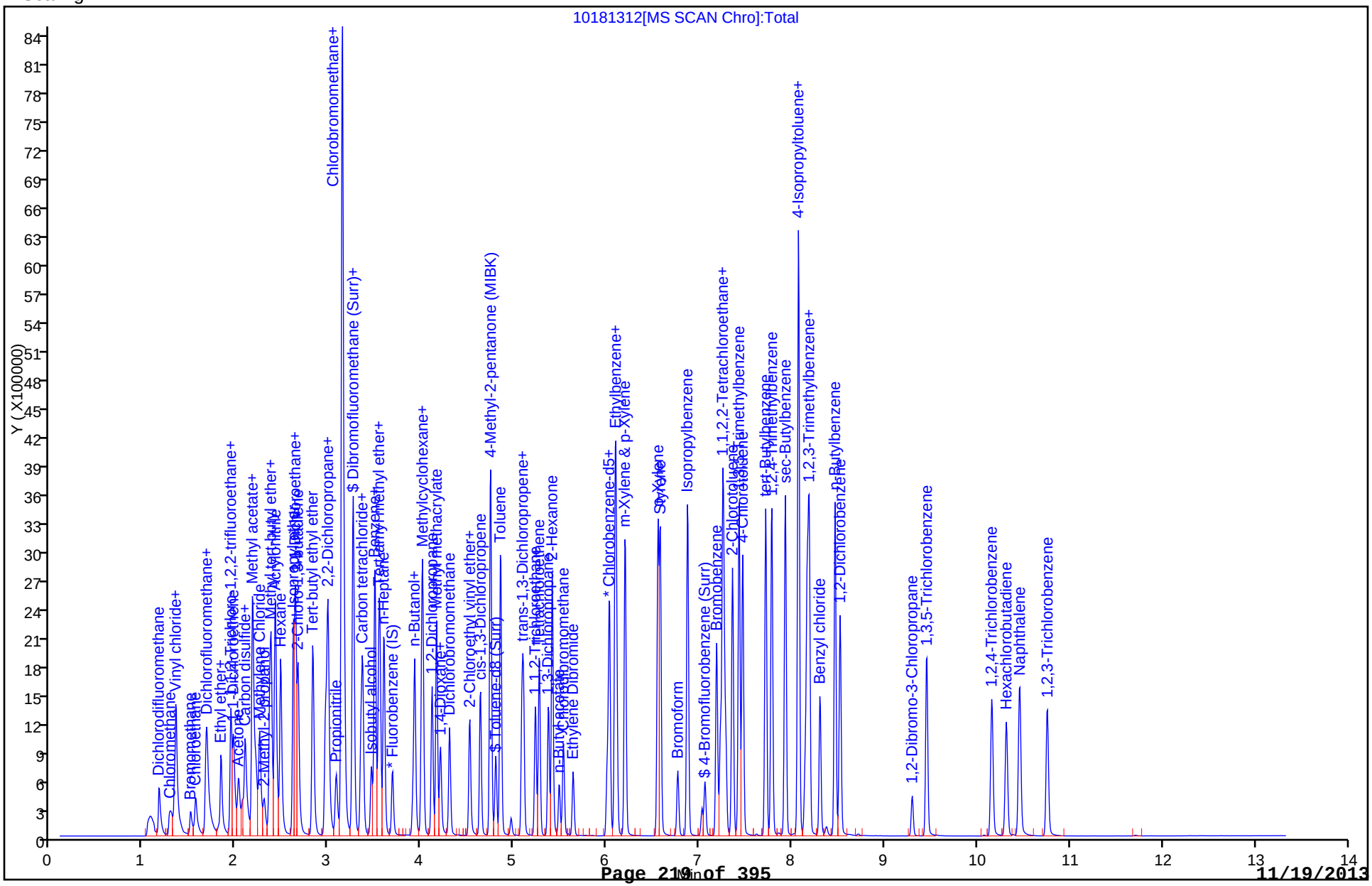
Report Date: 19-Oct-2013 20:42:41 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181312.D

Injection Date:	18-Oct-2013 23:47:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	10
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D		
Lims ID:	std200	Client ID:	
Inject. Date:	19-Oct-2013 00:14:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	9
Sample ID:	STD200		
Misc. Info.:	490-0026993-011		
Operator:	JJR	Instrument ID:	HP33
Purge Vol:	5.000 mL	ALS Bottle#:	13
Lims Batch ID:	115521	Lims Sample ID:	11
Sublist:	chrom-8260HP33*sub13		
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\8260HP33.m		
Last Update:	19-Oct-2013 20:29:47	Calib Date:	19-Oct-2013 00:14:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK030		
First Level Reviewer: redmondj		Date:	19-Oct-2013 20:29:19

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.684	3.688	-0.004	98	509359	30.0	
* 2 Chlorobenzene-d5	117	6.002	6.006	-0.004	85	366393	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.143	8.142	0.001	92	175725	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.270	3.269	0.001	58	123823	30.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.501	3.506	-0.005	44	144255	30.1	
$ 6 Toluene-d8 (Surr)	98	4.803	4.802	0.001	91	485885	29.8	
$ 7 4-Bromofluorobenzene (Surr)	95	7.060	7.059	0.001	82	182184	29.6	
9 Dichlorodifluoromethane	85	1.165	1.170	-0.005	89	923077	204.4	
10 Chloromethane	50	1.281	1.292	-0.011	89	949581	220.2	
11 Vinyl chloride	62	1.330	1.334	-0.004	79	997131	214.0	
12 Butadiene	54	1.348	1.352	-0.004	0	954630	214.2	
13 Bromomethane	96	1.500	1.511	-0.011	90	416597	201.3	
14 Chloroethane	64	1.555	1.565	-0.010	95	661093	211.4	
15 Dichlorofluoromethane	67	1.670	1.675	-0.005	82	1581012	212.2	
16 Trichlorofluoromethane	101	1.683	1.687	-0.004	87	1359058	221.6	
17 Ethanol	45	1.835	1.839	-0.004	80	911450	10146	
18 Ethyl ether	59	1.835	1.839	-0.004	94	732350	215.2	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.938	1.943	-0.005	86	784865	215.5	
20 Acrolein	56	1.944	1.949	-0.005	97	342035	517.0	
21 1,1-Dichloroethene	96	1.968	1.973	-0.005	89	728736	219.9	
22 Acetone	58	2.029	2.028	0.001	99	415248	1024.3	
23 Iodomethane	142	2.066	2.070	-0.004	98	636929	198.3	
25 Isopropyl alcohol	45	2.096	2.095	0.001	85	391309	2168.5	
26 Carbon disulfide	76	2.096	2.101	-0.005	100	2277834	204.4	
29 Acetonitrile	41	2.169	2.174	-0.005	71	860517	1676.3	
27 3-Chloro-1-propene	76	2.169	2.174	-0.005	90	517452	198.7	
28 Methyl acetate	43	2.175	2.180	-0.005	97	4359314	1028.2	
30 Methylene Chloride	84	2.254	2.253	0.001	84	838855	209.0	
31 2-Methyl-2-propanol	59	2.303	2.301	0.002	97	675315	2282.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
32 Methyl tert-butyl ether	73	2.364	2.362	0.002	92	2487341	213.1	
33 trans-1,2-Dichloroethene	61	2.376	2.381	-0.005	92	1192924	216.0	
34 Acrylonitrile	53	2.419	2.423	-0.004	97	3594080	2102.8	
35 Hexane	57	2.479	2.484	-0.005	89	1349065	204.4	
36 Isopropyl ether	45	2.619	2.618	0.001	96	3022531	208.3	
37 1,1-Dichloroethane	63	2.638	2.636	0.002	83	1634154	222.6	
38 Vinyl acetate	43	2.638	2.642	-0.004	97	4633060	417.7	
39 2-Chloro-1,3-butadiene	53	2.668	2.666	0.002	88	1402169	216.4	
40 Tert-butyl ethyl ether	59	2.826	2.825	0.001	98	2741504	214.3	
41 2,2-Dichloropropane	77	2.960	2.965	-0.005	90	1242907	214.0	
42 cis-1,2-Dichloroethene	61	2.984	2.983	0.001	70	1508655	218.2	
44 Ethyl acetate	43	2.997	2.995	0.002	94	2986014	427.4	
43 2-Butanone (MEK)	72	2.997	2.995	0.002	98	557413	1108.9	
45 Propionitrile	54	3.082	3.080	0.002	98	1337436	2140.2	
46 Chlorobromomethane	130	3.136	3.135	0.001	61	466208	217.3	
47 Methacrylonitrile	41	3.149	3.141	0.008	90	6020026	2013.1	
48 Tetrahydrofuran	42	3.149	3.147	0.002	28	807525	403.5	
49 Chloroform	83	3.167	3.165	0.002	81	1477167	210.1	
51 1,1,1-Trichloroethane	97	3.264	3.263	0.001	91	1274820	220.8	
50 Cyclohexane	56	3.258	3.263	-0.005	92	1671158	218.2	
53 Carbon tetrachloride	117	3.349	3.348	0.001	82	1100208	229.0	
54 1,1-Dichloropropene	75	3.362	3.366	-0.004	93	1146523	217.1	
55 Isobutyl alcohol	43	3.465	3.457	0.008	95	863397	2167.2	
56 Benzene	78	3.495	3.500	-0.005	97	3420951	208.0	
58 Tert-amyl methyl ether	73	3.544	3.542	0.002	97	2518675	218.9	
59 1,2-Dichloroethane	62	3.556	3.555	0.001	84	1154213	217.2	
60 n-Heptane	43	3.593	3.597	-0.004	91	1448617	208.5	
61 n-Butanol	56	3.909	3.908	0.001	90	497076	5579.2	
62 Trichloroethene	130	3.927	3.926	0.001	95	885601	219.3	
63 Ethyl acrylate	55	4.006	4.005	0.001	0	2527047	213.7	
64 Cyclohexanone	55	4.006	4.005	0.001	76	2527047	2137.4	
65 Methylcyclohexane	83	4.013	4.011	0.001	93	1613692	217.5	
66 1,2-Dichloropropane	63	4.116	4.114	0.002	95	930150	216.8	
68 Methyl methacrylate	41	4.165	4.163	0.002	89	1813822	432.4	
69 Dibromomethane	93	4.207	4.206	0.001	92	515833	223.0	
70 1,4-Dioxane	88	4.213	4.206	0.007	78	145123	4415.9	
71 Dichlorobromomethane	83	4.305	4.303	0.001	94	1165254	239.3	
73 2-Chloroethyl vinyl ether	63	4.524	4.522	0.002	80	582218	221.7	
72 2-Nitropropane	43	4.517	4.522	-0.005	80	861740	492.0	
74 cis-1,3-Dichloropropene	75	4.633	4.638	-0.005	90	1399105	232.8	
75 4-Methyl-2-pentanone (MIBK)	58	4.749	4.747	0.002	95	1837699	1148.4	
76 Toluene	91	4.852	4.850	0.002	98	3560031	207.0	
77 trans-1,3-Dichloropropene	75	5.083	5.082	0.001	94	1242219	243.2	
78 Ethyl methacrylate	69	5.101	5.100	0.001	90	1239572	234.6	
79 1,1,2-Trichloroethane	97	5.229	5.228	0.001	87	744532	218.1	
80 Tetrachloroethene	166	5.272	5.270	0.002	84	934012	211.0	
81 1,3-Dichloropropane	76	5.369	5.374	-0.005	92	1329803	213.7	
82 2-Hexanone	58	5.412	5.410	0.002	96	1753150	1190.9	
83 n-Butyl acetate	43	5.485	5.489	-0.004	98	724716	241.5	
84 Chlorodibromomethane	127	5.533	5.532	0.001	89	686721	204.7	
85 Ethylene Dibromide	107	5.637	5.635	0.002	98	777192	215.7	
87 Chlorobenzene	112	6.032	6.031	0.001	94	2379635	209.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
88 Ethylbenzene	91	6.093	6.091	0.002	98	4112676	206.2	
89 1,1,1,2-Tetrachloroethane	131	6.105	6.104	0.001	85	890231	236.3	
90 m-Xylene & p-Xylene	91	6.203	6.195	0.008	99	3208847	207.3	
91 o-Xylene	91	6.555	6.554	0.001	96	3277580	213.7	
92 Styrene	104	6.580	6.578	0.002	95	2814568	225.6	
93 Bromoform	173	6.768	6.767	0.001	97	599693	204.9	
94 Isopropylbenzene	105	6.872	6.870	0.002	97	4078380	208.4	
95 Bromobenzene	77	7.188	7.186	0.002	94	1610381	208.5	
96 1,1,2,2-Tetrachloroethane	83	7.231	7.229	0.002	89	988539	213.1	
97 N-Propylbenzene	91	7.255	7.253	0.002	97	4882314	202.0	
98 1,2,3-Trichloropropane	110	7.273	7.272	0.001	85	331738	208.9	
99 trans-1,4-Dichloro-2-butene	53	7.285	7.284	0.001	77	333285	240.0	
100 2-Chlorotoluene	91	7.358	7.357	0.001	96	2844280	205.0	
101 1,3,5-Trimethylbenzene	105	7.431	7.430	0.001	94	3441886	209.2	
102 4-Chlorotoluene	91	7.468	7.466	0.002	96	3060621	209.9	
103 tert-Butylbenzene	119	7.717	7.716	0.001	92	3020605	211.4	
105 1,2,4-Trimethylbenzene	105	7.784	7.783	0.001	97	3491387	209.3	
106 sec-Butylbenzene	105	7.930	7.929	0.001	95	4345036	206.5	
108 1,3-Dichlorobenzene	146	8.070	8.069	0.001	95	1919959	210.4	
107 4-Isopropyltoluene	119	8.070	8.069	0.001	95	3959267	217.3	
109 1,4-Dichlorobenzene	146	8.168	8.166	0.002	93	1928895	207.8	
110 1,2,3-Trimethylbenzene	105	8.186	8.184	0.002	0	3462603	206.4	
111 Benzyl chloride	91	8.301	8.300	0.001	99	1927845	200.0	
112 n-Butylbenzene	91	8.466	8.464	0.002	94	3456987	219.2	
113 1,2-Dichlorobenzene	146	8.520	8.519	0.001	96	1744748	209.6	
114 1,2-Dibromo-3-Chloropropane	157	9.299	9.297	0.002	86	231105	201.5	
115 1,3,5-Trichlorobenzene	180	9.457	9.456	0.001	97	1233324	228.3	
116 1,2,4-Trichlorobenzene	180	10.157	10.161	-0.004	94	1083526	231.8	
117 Hexachlorobutadiene	225	10.315	10.313	0.002	96	533753	212.8	
118 Naphthalene	128	10.455	10.459	-0.004	97	3086408	213.0	
119 1,2,3-Trichlorobenzene	180	10.759	10.757	0.002	93	983081	228.4	
S 134 Xylenes, Total	1				0		421.0	
S 135 1,2-Dichloroethene, Total	1				0		434.2	

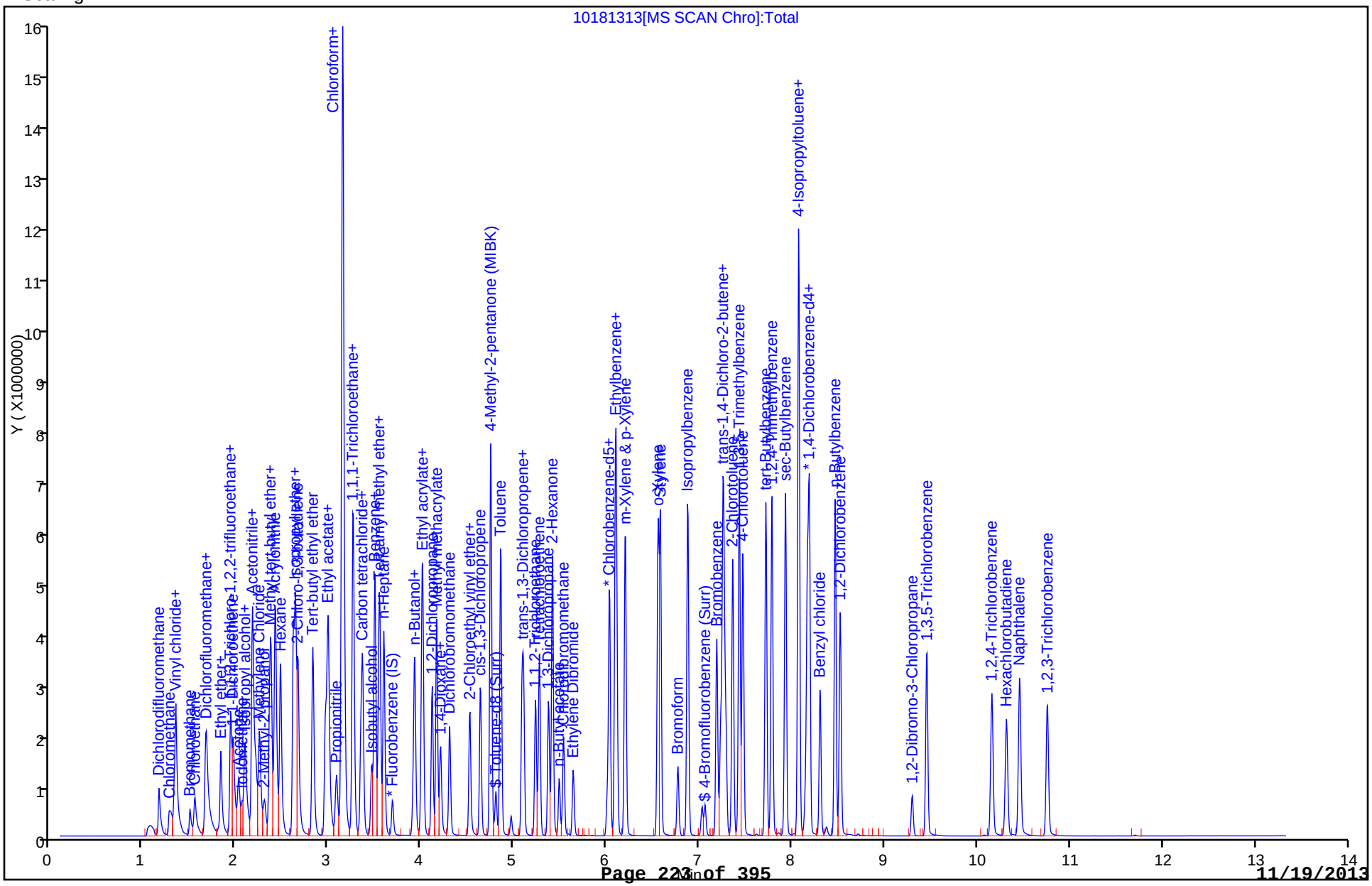
Report Date: 19-Oct-2013 20:29:47 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D

Injection Date:	19-Oct-2013 00:14:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	11
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Lab Sample ID: ICV 490-115521/9 Calibration Date: 10/18/2013 23:20

Instrument ID: HP33 Calib Start Date: 10/18/2013 20:11

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/19/2013 00:14

Lab File ID: 10181311.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2660	0.2505		47.1	50.0	-5.8	30.0
Chloromethane	Ave	0.2540	0.2192	0.1000	43.1	50.0	-13.7	30.0
Vinyl chloride	Ave	0.2744	0.2509		45.7	50.0	-8.6	30.0
Butadiene	Ave	0.2625	0.2379		45.3	50.0	-9.4	30.0
Bromomethane	Lin		0.0892		41.1	50.0	-17.9	30.0
Chloroethane	Ave	0.1842	0.1644		44.6	50.0	-10.7	30.0
Dichlorofluoromethane	Ave	0.4388	0.4066		46.3	50.0	-7.3	30.0
Trichlorofluoromethane	Ave	0.3611	0.3544		49.1	50.0	-1.9	30.0
Diethyl ether	Ave	0.2005	0.2090		52.1	50.0	4.2	30.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.2145	0.2107		49.1	50.0	-1.8	30.0
Acrolein	Ave	0.0390	0.0359		115	125	-7.9	30.0
1,1-Dichloroethene	Ave	0.1952	0.2025		51.9	50.0	3.7	30.0
Acetone	Lin1		0.0243		249	250	-0.3	30.0
Iodomethane	Lin1		0.1646		46.5	50.0	-7.0	30.0
Isopropyl alcohol	Ave	0.0106	0.0122		576	500	15.1	30.0
Carbon disulfide	Ave	0.6562	0.6468		49.3	50.0	-1.4	30.0
3-Chloro-1-propene	Ave	0.1534	0.1335		43.5	50.0	-13.0	30.0
Acetonitrile	Ave	0.0302	0.0266		440	500	-12.0	30.0
Methyl acetate	Ave	0.2497	0.2364		237	250	-5.3	30.0
Methylene Chloride	Ave	0.2363	0.2338		49.5	50.0	-1.1	30.0
tert-Butyl alcohol (TBA)	Ave	0.0174	0.0194		555	500	11.1	30.0
Methyl tert-butyl ether	Ave	0.6876	0.6916		50.3	50.0	0.6	30.0
trans-1,2-Dichloroethene	Ave	0.3253	0.3283		50.5	50.0	0.9	30.0
Acrylonitrile	Ave	0.1007	0.1021		507	500	1.4	30.0
Hexane	Ave	0.3888	0.3850		49.5	50.0	-1.0	30.0
Diisopropyl ether	Ave	0.8545	0.8704		50.9	50.0	1.9	30.0
1,1-Dichloroethane	Ave	0.4323	0.4500	0.1000	52.1	50.0	4.1	30.0
Vinyl acetate	Ave	0.6533	0.6994		107	100	7.1	30.0
Chloroprene	Ave	0.3816	0.3818		50.0	50.0	0.0	30.0
Ethyl tert-butyl ether	Ave	0.7536	0.7672		50.9	50.0	1.8	30.0
2,2-Dichloropropane	Ave	0.3421	0.3261		47.7	50.0	-4.7	30.0
cis-1,2-Dichloroethene	Ave	0.4072	0.4210		51.7	50.0	3.4	30.0
2-Butanone (MEK)	Ave	0.0296	0.0302		255	250	2.1	30.0
Ethyl acetate	Ave	0.4114	0.4579		111	100	11.3	30.0
Propionitrile	Ave	0.0368	0.0365		496	500	-0.9	30.0
Bromochloromethane	Ave	0.1264	0.1279		50.6	50.0	1.2	30.0
Methacrylonitrile	Ave	0.1761	0.1788		507	500	1.5	30.0
Tetrahydrofuran	Ave	0.1179	0.1072		91.0	100	-9.0	30.0
Chloroform	Ave	0.4140	0.4030		48.7	50.0	-2.7	30.0
Cyclohexane	Ave	0.4512	0.4437		49.2	50.0	-1.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Lab Sample ID: ICV 490-115521/9 Calibration Date: 10/18/2013 23:20

Instrument ID: HP33 Calib Start Date: 10/18/2013 20:11

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/19/2013 00:14

Lab File ID: 10181311.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Ave	0.3401	0.3404		50.1	50.0	0.1	30.0
Carbon tetrachloride	Ave	0.2829	0.2948		52.1	50.0	4.2	30.0
1,1-Dichloropropene	Ave	0.3110	0.3317		53.3	50.0	6.6	30.0
Isobutanol	Ave	0.0235	0.0248		528	500	5.7	30.0
Benzene	Ave	0.9688	0.9678		50.0	50.0	-0.1	30.0
Tert-amyl methyl ether	Ave	0.6775	0.7020		51.8	50.0	3.6	30.0
1,2-Dichloroethane	Ave	0.3130	0.3213		51.3	50.0	2.6	30.0
Heptane	Ave	0.4091	0.4057		49.6	50.0	-0.8	30.0
n-Butanol	Ave	0.0052	0.0062		1467	1250	17.3	30.0
Trichloroethene	Ave	0.2378	0.2467		51.9	50.0	3.7	30.0
Cyclohexanone	Ave	0.0696	0.0697		500	500	0.0	30.0
Ethyl acrylate	Ave	0.6963	0.6968		50.0	50.0	0.0	
Methylcyclohexane	Ave	0.4370	0.4368		50.0	50.0	-0.0	30.0
1,2-Dichloropropane	Ave	0.2527	0.2580		51.1	50.0	2.1	30.0
Methyl methacrylate	Ave	0.2471	0.2477		100	100	0.3	30.0
1,4-Dioxane	Lin2		0.0026		1275	1000	27.5	30.0
Dibromomethane	Ave	0.1362	0.1375		50.5	50.0	0.9	30.0
Bromodichloromethane	Ave	0.2869	0.2974		51.8	50.0	3.7	30.0
2-Nitropropane	Ave	0.1032	0.1008		97.7	100	-2.3	30.0
2-Chloroethyl vinyl ether	Ave	0.2150	0.2218		51.6	50.0	3.1	30.0
cis-1,3-Dichloropropene	Ave	0.4921	0.5439		55.3	50.0	10.5	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1310	0.1330		254	250	1.5	30.0
Toluene	Ave	1.408	1.425		50.6	50.0	1.2	30.0
trans-1,3-Dichloropropene	Ave	0.4183	0.4985		59.6	50.0	19.2	30.0
Ethyl methacrylate	Ave	0.4325	0.4688		54.2	50.0	8.4	30.0
1,1,2-Trichloroethane	Ave	0.2796	0.2877		51.5	50.0	2.9	30.0
Tetrachloroethene	Ave	0.3624	0.3639		50.2	50.0	0.4	30.0
1,3-Dichloropropane	Ave	0.5095	0.5145		50.5	50.0	1.0	30.0
2-Hexanone	Ave	0.1205	0.1276		265	250	5.9	30.0
n-Butyl acetate	Ave	0.1767	0.2436		68.9	50.0	37.9*	30.0
Chlorodibromomethane	Lin1		0.2518		46.4	50.0	-7.3	30.0
1,2-Dibromoethane (EDB)	Ave	0.2951	0.3020		51.2	50.0	2.4	30.0
Chlorobenzene	Ave	0.9303	0.9404	0.3000	50.5	50.0	1.1	30.0
Ethylbenzene	Ave	1.633	1.663		50.9	50.0	1.8	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3085	0.3383		54.8	50.0	9.6	30.0
m,p-Xylene	Ave	1.267	1.273		50.2	50.0	0.5	30.0
o-Xylene	Ave	1.256	1.298		51.7	50.0	3.4	30.0
Styrene	Ave	1.021	1.072		52.5	50.0	4.9	30.0
Bromoform	Lin1		0.2152	0.1000	45.6	50.0	-8.8	30.0
Isopropylbenzene	Ave	1.602	1.658		51.7	50.0	3.5	30.0
Bromobenzene	Ave	1.319	1.325		50.2	50.0	0.5	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Lab Sample ID: ICV 490-115521/9 Calibration Date: 10/18/2013 23:20

Instrument ID: HP33 Calib Start Date: 10/18/2013 20:11

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/19/2013 00:14

Lab File ID: 10181311.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,2,2-Tetrachloroethane	Ave	0.7921	0.8267	0.3000	52.2	50.0	4.4	30.0
N-Propylbenzene	Ave	4.126	4.248		51.5	50.0	2.9	30.0
1,2,3-Trichloropropane	Ave	0.2711	0.2765		51.0	50.0	2.0	30.0
trans-1,4-Dichloro-2-butene	Ave	0.2371	0.2574		54.3	50.0	8.6	30.0
2-Chlorotoluene	Ave	2.369	2.382		50.3	50.0	0.5	30.0
1,3,5-Trimethylbenzene	Ave	2.809	2.861		50.9	50.0	1.9	30.0
4-Chlorotoluene	Ave	2.489	2.516		50.5	50.0	1.1	30.0
tert-Butylbenzene	Ave	2.440	2.525		51.8	50.0	3.5	30.0
1,2,4-Trimethylbenzene	Ave	2.848	2.894		50.8	50.0	1.6	30.0
sec-Butylbenzene	Ave	3.593	3.730		51.9	50.0	3.8	30.0
1,3-Dichlorobenzene	Ave	1.558	1.594		51.2	50.0	2.3	30.0
p-Isopropyltoluene	Ave	3.111	3.241		52.1	50.0	4.2	30.0
1,4-Dichlorobenzene	Ave	1.585	1.608		50.8	50.0	1.5	30.0
1,2,3-Trimethylbenzene	Ave	2.865	2.918		50.9	50.0	1.9	30.0
Benzyl chloride	Lin1		0.6962		46.4	50.0	-7.1	30.0
n-Butylbenzene	Ave	2.693	2.838		52.7	50.0	5.4	30.0
1,2-Dichlorobenzene	Ave	1.421	1.461		51.4	50.0	2.8	30.0
1,2-Dibromo-3-Chloropropane	Lin1		0.1878		48.8	50.0	-2.3	30.0
1,3,5-Trichlorobenzene	Ave	0.9222	1.011		54.8	50.0	9.6	30.0
1,2,4-Trichlorobenzene	Ave	0.7981	0.8663		54.3	50.0	8.5	30.0
Hexachlorobutadiene	Ave	0.4281	0.4358		50.9	50.0	1.8	30.0
Naphthalene	Ave	2.474	2.632		53.2	50.0	6.4	30.0
1,2,3-Trichlorobenzene	Ave	0.7347	0.8118		55.2	50.0	10.5	30.0
Ethanol	Lin1					2500	-100.0*	30.0
Dibromofluoromethane (Surr)	Ave	0.2379	0.2383		30.1	30.0	0.2	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2822	0.2789		29.7	30.0	-1.2	30.0
Toluene-d8 (Surr)	Ave	1.337	1.325		29.7	30.0	-0.9	30.0
4-Bromofluorobenzene (Surr)	Ave	1.049	1.041		29.8	30.0	-0.8	30.0

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181311.D
Lims ID: icv Client ID:
Inject. Date: 18-Oct-2013 23:20:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: ICV
Misc. Info.: 490-0026993-009
Operator: JJR Instrument ID: HP33
Purge Vol: 5.000 mL ALS Bottle#: 11
Lims Batch ID: 115521 Lims Sample ID: 9
Sublist:
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\HP33\20131018-26993.b\8260HP33.m
Last Update: 19-Oct-2013 21:41:02 Calib Date: 19-Oct-2013 00:14:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D
Limit Group: MSV 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK030

First Level Reviewer: redmondj Date: 19-Oct-2013 20:32:12

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.689	3.690	-0.001	98	505561	30.0	
* 2 Chlorobenzene-d5	117	6.007	6.002	0.005	84	343991	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.142	8.143	-0.001	94	163651	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.269	3.271	-0.002	64	120473	30.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.507	3.508	-0.001	84	141005	29.7	
$ 6 Toluene-d8 (Surr)	98	4.802	4.804	-0.002	91	455816	29.7	
$ 7 4-Bromofluorobenzene (Surr)	95	7.059	7.061	-0.002	88	170316	29.8	
9 Dichlorodifluoromethane	85	1.171	1.170	0.001	88	211039	47.1	
10 Chloromethane	50	1.292	1.292	0.0	88	184652	43.1	
11 Vinyl chloride	62	1.335	1.334	0.001	79	211418	45.7	
12 Butadiene	54	1.353	1.352	0.001	0	200421	45.3	
13 Bromomethane	96	1.511	1.511	0.0	90	75160	41.1	
14 Chloroethane	64	1.566	1.565	0.001	96	138537	44.6	
15 Dichlorofluoromethane	67	1.675	1.675	0.0	83	342632	46.3	
16 Trichlorofluoromethane	101	1.688	1.687	0.001	87	298608	49.1	
18 Ethyl ether	59	1.840	1.839	0.001	94	176081	52.1	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.943	1.943	0.0	86	177537	49.1	
20 Acrolein	56	1.949	1.949	0.0	86	75630	115.2	
21 1,1-Dichloroethene	96	1.974	1.973	0.001	86	170618	51.9	
22 Acetone	58	2.028	2.028	0.0	99	102285	249.2	
23 Iodomethane	142	2.071	2.070	0.001	98	138680	46.5	
25 Isopropyl alcohol	45	2.095	2.095	0.0	75	103094	575.6	
26 Carbon disulfide	76	2.101	2.101	0.0	100	544986	49.3	
29 Acetonitrile	41	2.174	2.174	0.0	73	224171	440.0	
27 3-Chloro-1-propene	76	2.174	2.174	0.0	89	112494	43.5	
28 Methyl acetate	43	2.180	2.180	0.0	98	996022	236.7	
30 Methylene Chloride	84	2.253	2.253	0.0	84	196956	49.5	
31 2-Methyl-2-propanol	59	2.302	2.301	0.001	94	163099	555.4	
32 Methyl tert-butyl ether	73	2.363	2.362	0.001	89	582770	50.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
33 trans-1,2-Dichloroethene	61	2.381	2.381	0.0	93	276661	50.5	
34 Acrylonitrile	53	2.424	2.423	0.001	97	860072	507.0	
35 Hexane	57	2.479	2.484	-0.006	89	324373	49.5	
36 Isopropyl ether	45	2.618	2.618	0.0	94	733412	50.9	
37 1,1-Dichloroethane	63	2.637	2.636	0.001	85	379156	52.0	
38 Vinyl acetate	43	2.643	2.642	0.001	97	1178658	107.1	
39 2-Chloro-1,3-butadiene	53	2.667	2.666	0.001	80	321703	50.0	
40 Tert-butyl ethyl ether	59	2.825	2.825	0.0	98	646428	50.9	
41 2,2-Dichloropropane	77	2.965	2.965	0.0	92	274800	47.7	
42 cis-1,2-Dichloroethene	61	2.983	2.983	0.0	70	354771	51.7	
44 Ethyl acetate	43	2.996	2.995	0.001	95	771691	111.3	
43 2-Butanone (MEK)	72	2.996	2.995	0.001	97	127377	255.3	
45 Propionitrile	54	3.081	3.080	0.001	98	307314	495.5	
46 Chlorobromomethane	130	3.136	3.135	0.001	80	107791	50.6	
47 Methacrylonitrile	41	3.142	3.141	0.001	94	1506111	507.4	
48 Tetrahydrofuran	42	3.148	3.147	0.001	28	180704	91.0	
49 Chloroform	83	3.166	3.165	0.001	71	339554	48.7	
51 1,1,1-Trichloroethane	97	3.263	3.263	0.0	91	286820	50.1	
50 Cyclohexane	56	3.257	3.263	-0.006	92	373857	49.2	
53 Carbon tetrachloride	117	3.348	3.348	0.0	81	248420	52.1	
54 1,1-Dichloropropene	75	3.367	3.366	0.001	94	279466	53.3	
55 Isobutyl alcohol	43	3.458	3.457	0.001	95	208924	528.3	
56 Benzene	78	3.494	3.500	-0.006	96	815439	49.9	
58 Tert-amyl methyl ether	73	3.543	3.542	0.001	99	591490	51.8	
59 1,2-Dichloroethane	62	3.555	3.555	0.0	84	270710	51.3	
60 n-Heptane	43	3.592	3.597	-0.005	92	341842	49.6	
61 n-Butanol	56	3.908	3.908	0.0	90	129686	1466.5	
62 Trichloroethene	130	3.926	3.926	0.0	94	207848	51.9	
63 Ethyl acrylate	55	4.005	4.005	0.0	0	587086	50.0	
64 Cyclohexanone	55	4.005	4.005	0.0	76	587086	500.3	
65 Methylcyclohexane	83	4.012	4.011	0.001	95	368043	50.0	
66 1,2-Dichloropropane	63	4.115	4.114	0.001	95	217360	51.0	
68 Methyl methacrylate	41	4.164	4.163	0.001	90	417429	100.3	
69 Dibromomethane	93	4.206	4.206	0.0	86	115821	50.4	
70 1,4-Dioxane	88	4.206	4.206	0.0	3	43459	1275.2	
71 Dichlorobromomethane	83	4.304	4.303	0.001	93	250586	51.8	
72 2-Nitropropane	43	4.516	4.522	-0.006	78	169799	97.7	
73 2-Chloroethyl vinyl ether	63	4.523	4.522	0.001	82	127133	51.6	
74 cis-1,3-Dichloropropene	75	4.638	4.638	0.0	90	311820	55.3	
75 4-Methyl-2-pentanone (MIBK)	58	4.742	4.747	-0.005	97	381276	253.8	
76 Toluene	91	4.851	4.850	0.001	98	816967	50.6	
77 trans-1,3-Dichloropropene	75	5.082	5.082	0.0	94	285792	59.6	
78 Ethyl methacrylate	69	5.100	5.100	0.0	89	268795	54.2	
79 1,1,2-Trichloroethane	97	5.228	5.228	0.0	87	164948	51.5	
80 Tetrachloroethene	166	5.271	5.270	0.001	85	208639	50.2	
81 1,3-Dichloropropane	76	5.368	5.374	-0.006	92	294953	50.5	
82 2-Hexanone	58	5.411	5.410	0.001	97	365758	264.6	
83 n-Butyl acetate	43	5.484	5.489	-0.005	98	205286	68.9	
84 Chlorodibromomethane	127	5.532	5.532	0.0	89	144381	46.4	
85 Ethylene Dibromide	107	5.636	5.635	0.001	99	173146	51.2	
87 Chlorobenzene	112	6.031	6.031	0.0	94	539148	50.5	
88 Ethylbenzene	91	6.092	6.091	0.001	98	953282	50.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
89 1,1,1,2-Tetrachloroethane	131	6.104	6.104	0.0	85	193932	54.8	
90 m-Xylene & p-Xylene	91	6.195	6.195	0.0	98	729973	50.2	
91 o-Xylene	91	6.554	6.554	0.0	97	744389	51.7	
92 Styrene	104	6.579	6.578	0.001	95	614585	52.5	
93 Bromoform	173	6.767	6.767	0.0	96	123351	45.6	
94 Isopropylbenzene	105	6.871	6.870	0.001	96	950472	51.7	
95 Bromobenzene	77	7.187	7.186	0.001	93	361402	50.2	
96 1,1,2,2-Tetrachloroethane	83	7.224	7.229	-0.005	87	225492	52.2	
97 N-Propylbenzene	91	7.254	7.253	0.001	93	1158572	51.5	
98 1,2,3-Trichloropropane	110	7.266	7.272	-0.006	81	75407	51.0	
99 trans-1,4-Dichloro-2-butene	53	7.284	7.284	0.0	71	70214	54.3	
100 2-Chlorotoluene	91	7.357	7.357	0.0	96	649596	50.3	
101 1,3,5-Trimethylbenzene	105	7.424	7.430	-0.006	84	780335	50.9	
102 4-Chlorotoluene	91	7.467	7.466	0.001	97	686234	50.5	
103 tert-Butylbenzene	119	7.716	7.716	0.0	93	688824	51.8	
105 1,2,4-Trimethylbenzene	105	7.783	7.783	0.0	98	789364	50.8	
106 sec-Butylbenzene	105	7.929	7.929	0.0	94	1017377	51.9	
108 1,3-Dichlorobenzene	146	8.069	8.069	0.0	69	434697	51.2	
107 4-Isopropyltoluene	119	8.069	8.069	0.0	94	884065	52.1	
109 1,4-Dichlorobenzene	146	8.160	8.166	-0.006	94	438691	50.8	
110 1,2,3-Trimethylbenzene	105	8.185	8.184	0.001	0	795788	50.9	
111 Benzyl chloride	91	8.300	8.300	0.0	99	399136	46.4	
112 n-Butylbenzene	91	8.465	8.464	0.001	98	773936	52.7	
113 1,2-Dichlorobenzene	146	8.519	8.519	0.0	96	398554	51.4	
114 1,2-Dibromo-3-Chloropropane	157	9.298	9.297	0.001	84	51232	48.8	
115 1,3,5-Trichlorobenzene	180	9.456	9.456	0.0	97	275756	54.8	
116 1,2,4-Trichlorobenzene	180	10.156	10.161	-0.005	94	236279	54.3	
117 Hexachlorobutadiene	225	10.314	10.313	0.001	96	118875	50.9	
118 Naphthalene	128	10.460	10.459	0.001	97	717930	53.2	
119 1,2,3-Trichlorobenzene	180	10.758	10.757	0.001	94	221412	55.2	
S 134 Xylenes, Total	1				0		101.9	
S 135 1,2-Dichloroethene, Total	1				0		102.2	

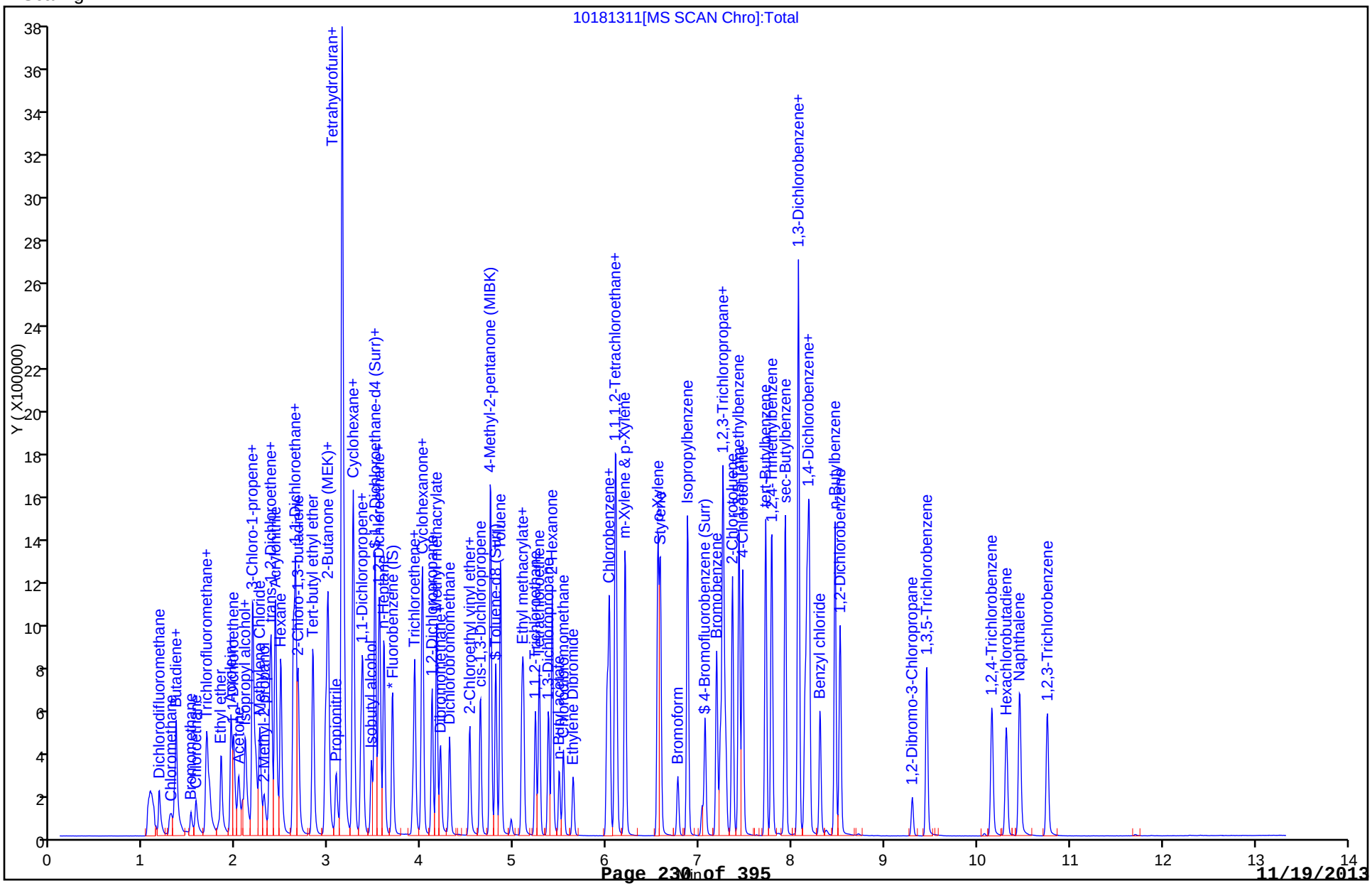
Report Date: 19-Oct-2013 21:41:03 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181311.D

Injection Date:	18-Oct-2013 23:20:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	9
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Lab Sample ID: CCVIS 490-121717/2 Calibration Date: 11/13/2013 21:48

Instrument ID: HP33 Calib Start Date: 10/18/2013 20:11

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/19/2013 00:14

Lab File ID: 11131329.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2660	0.2741		20.6	20.0	3.1	20.0
Chloromethane	Ave	0.2540	0.2183	0.1000	17.2	20.0	-14.1	20.0
Vinyl chloride	Ave	0.2744	0.2643		19.3	20.0	-3.7	20.0
Butadiene	Ave	0.2625	0.2428		18.5	20.0	-7.5	20.0
Bromomethane	Lin		0.0988		21.2	20.0	6.1	20.0
Chloroethane	Ave	0.1842	0.1750		19.0	20.0	-5.0	20.0
Dichlorofluoromethane	Ave	0.4388	0.4211		19.2	20.0	-4.0	20.0
Trichlorofluoromethane	Ave	0.3611	0.3618		20.0	20.0	0.2	20.0
Diethyl ether	Ave	0.2005	0.1825		18.2	20.0	-9.0	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.2145	0.2097		19.6	20.0	-2.2	20.0
Acrolein	Ave	0.0390	0.0270		34.7	50.0	-30.7	40.0
1,1-Dichloroethene	Ave	0.1952	0.1845		18.9	20.0	-5.5	20.0
Acetone	Lin1		0.0216		84.4	100	-15.6	20.0
Iodomethane	Lin1		0.1355		17.9	20.0	-10.6	20.0
Ethanol	Lin1		0.0019		374	1000	-62.6*	40.0
Isopropyl alcohol	Ave	0.0106	0.0096		180	200	-9.9	20.0
Carbon disulfide	Ave	0.6562	0.5880		17.9	20.0	-10.4	20.0
3-Chloro-1-propene	Ave	0.1534	0.1420		18.5	20.0	-7.4	20.0
Acetonitrile	Ave	0.0302	0.0239		158	200	-21.1*	20.0
Methyl acetate	Ave	0.2497	0.1743		69.8	100	-30.2*	20.0
Methylene Chloride	Ave	0.2363	0.2246		19.0	20.0	-5.0	20.0
tert-Butyl alcohol (TBA)	Ave	0.0174	0.0153		175	200	-12.4	40.0
Methyl tert-butyl ether	Ave	0.6876	0.5853		17.0	20.0	-14.9	20.0
trans-1,2-Dichloroethene	Ave	0.3253	0.2927		18.0	20.0	-10.0	20.0
Acrylonitrile	Ave	0.1007	0.0862		171	200	-14.4	20.0
Hexane	Ave	0.3888	0.3205		16.5	20.0	-17.6	20.0
Diisopropyl ether	Ave	0.8545	0.7206		16.9	20.0	-15.7	20.0
1,1-Dichloroethane	Ave	0.4323	0.4058	0.1000	18.8	20.0	-6.1	20.0
Vinyl acetate	Ave	0.6533	0.5472		33.5	40.0	-16.2	40.0
Chloroprene	Ave	0.3816	0.3346		17.5	20.0	-12.3	20.0
Ethyl tert-butyl ether	Ave	0.7536	0.6322		16.8	20.0	-16.1	20.0
2,2-Dichloropropane	Ave	0.3421	0.2672		15.6	20.0	-21.9*	20.0
cis-1,2-Dichloroethene	Ave	0.4072	0.3915		19.2	20.0	-3.9	20.0
Ethyl acetate	Ave	0.4114	0.4196		40.8	40.0	2.0	20.0
2-Butanone (MEK)	Ave	0.0296	0.0268		90.5	100	-9.5	20.0
Propionitrile	Ave	0.0368	0.0336		183	200	-8.7	20.0
Bromochloromethane	Ave	0.1264	0.1275		20.2	20.0	0.9	20.0
Methacrylonitrile	Ave	0.1761	0.1476		168	200	-16.2	20.0
Tetrahydrofuran	Ave	0.1179	0.0897		30.4	40.0	-23.9*	20.0
Chloroform	Ave	0.4140	0.3816		18.4	20.0	-7.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Lab Sample ID: CCVIS 490-121717/2 Calibration Date: 11/13/2013 21:48

Instrument ID: HP33 Calib Start Date: 10/18/2013 20:11

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/19/2013 00:14

Lab File ID: 11131329.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1-Trichloroethane	Ave	0.3401	0.3052		18.0	20.0	-10.2	20.0
Cyclohexane	Ave	0.4512	0.4096		18.2	20.0	-9.2	20.0
Carbon tetrachloride	Ave	0.2829	0.2623		18.5	20.0	-7.3	20.0
1,1-Dichloropropene	Ave	0.3110	0.2854		18.4	20.0	-8.2	20.0
Isobutanol	Ave	0.0235	0.0197		168	200	-16.0	20.0
Benzene	Ave	0.9688	0.9201		19.0	20.0	-5.0	20.0
Tert-amyl methyl ether	Ave	0.6775	0.5762		17.0	20.0	-15.0	20.0
1,2-Dichloroethane	Ave	0.3130	0.2868		18.3	20.0	-8.4	20.0
Heptane	Ave	0.4091	0.3033		14.8	20.0	-25.9*	20.0
n-Butanol	Ave	0.0052	0.0046		434	500	-13.2	20.0
Trichloroethene	Ave	0.2378	0.2409		20.3	20.0	1.3	20.0
Cyclohexanone	Ave	0.0696	0.0580		167	200	-16.7	20.0
Ethyl acrylate	Ave	0.6963	0.5798		16.7	20.0	-16.7	20.0
Methylcyclohexane	Ave	0.4370	0.4028		18.4	20.0	-7.8	20.0
1,2-Dichloropropane	Ave	0.2527	0.2352		18.6	20.0	-6.9	20.0
Methyl methacrylate	Ave	0.2471	0.1980		32.1	40.0	-19.8	20.0
Dibromomethane	Ave	0.1362	0.1303		19.1	20.0	-4.3	20.0
1,4-Dioxane	Lin2		0.0018		321	400	-19.7	20.0
Bromodichloromethane	Ave	0.2869	0.2676		18.7	20.0	-6.7	20.0
2-Nitropropane	Ave	0.1032	0.1048		40.6	40.0	1.6	20.0
2-Chloroethyl vinyl ether	Ave	0.2150	0.2190		20.4	20.0	1.9	20.0
cis-1,3-Dichloropropene	Ave	0.4921	0.4893		19.9	20.0	-0.6	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1310	0.1236		94.4	100	-5.6	20.0
Toluene	Ave	1.408	1.418		20.1	20.0	0.7	20.0
trans-1,3-Dichloropropene	Ave	0.4183	0.3849		18.4	20.0	-8.0	20.0
Ethyl methacrylate	Ave	0.4325	0.4255		19.7	20.0	-1.6	20.0
1,1,2-Trichloroethane	Ave	0.2796	0.2697		19.3	20.0	-3.5	20.0
Tetrachloroethene	Ave	0.3624	0.3570		19.7	20.0	-1.5	20.0
1,3-Dichloropropane	Ave	0.5095	0.4753		18.7	20.0	-6.7	20.0
2-Hexanone	Ave	0.1205	0.1022		84.8	100	-15.2	20.0
n-Butyl acetate	Ave	0.1767	0.2577		29.2	20.0	45.8*	20.0
Chlorodibromomethane	Lin1		0.2128		16.1	20.0	-19.4	20.0
1,2-Dibromoethane (EDB)	Ave	0.2951	0.2693		18.3	20.0	-8.7	20.0
Chlorobenzene	Ave	0.9303	0.8992	0.3000	19.3	20.0	-3.3	20.0
Ethylbenzene	Ave	1.633	1.524		18.7	20.0	-6.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3085	0.3027		19.6	20.0	-1.9	20.0
m,p-Xylene	Ave	1.267	1.150		18.1	20.0	-9.3	20.0
o-Xylene	Ave	1.256	1.171		18.7	20.0	-6.8	20.0
Styrene	Ave	1.021	1.003		19.6	20.0	-1.8	20.0
Bromoform	Lin1		0.1782	0.1000	15.7	20.0	-21.5*	20.0
Isopropylbenzene	Ave	1.602	1.533		19.1	20.0	-4.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Lab Sample ID: CCVIS 490-121717/2 Calibration Date: 11/13/2013 21:48

Instrument ID: HP33 Calib Start Date: 10/18/2013 20:11

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/19/2013 00:14

Lab File ID: 11131329.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Bromobenzene	Ave	1.319	1.151		17.5	20.0	-12.7	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7921	0.7214	0.3000	18.2	20.0	-8.9	20.0
N-Propylbenzene	Ave	4.126	3.742		18.1	20.0	-9.3	20.0
1,2,3-Trichloropropane	Ave	0.2711	0.2359		17.4	20.0	-13.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2371	0.1687		14.2	20.0	-28.9*	20.0
2-Chlorotoluene	Ave	2.369	2.075		17.5	20.0	-12.4	20.0
1,3,5-Trimethylbenzene	Ave	2.809	2.572		18.3	20.0	-8.4	20.0
4-Chlorotoluene	Ave	2.489	2.290		18.4	20.0	-8.0	20.0
tert-Butylbenzene	Ave	2.440	2.239		18.4	20.0	-8.2	20.0
1,2,4-Trimethylbenzene	Ave	2.848	2.608		18.3	20.0	-8.4	20.0
sec-Butylbenzene	Ave	3.593	3.275		18.2	20.0	-8.8	20.0
1,3-Dichlorobenzene	Ave	1.558	1.498		19.2	20.0	-3.9	20.0
p-Isopropyltoluene	Ave	3.111	2.886		18.6	20.0	-7.2	20.0
1,4-Dichlorobenzene	Ave	1.585	1.504		19.0	20.0	-5.1	20.0
1,2,3-Trimethylbenzene	Ave	2.865	2.588		18.1	20.0	-9.6	20.0
Benzyl chloride	Lin1		0.4203		13.5	20.0	-32.6*	20.0
n-Butylbenzene	Ave	2.693	2.427		18.0	20.0	-9.9	20.0
1,2-Dichlorobenzene	Ave	1.421	1.378		19.4	20.0	-3.1	20.0
1,2-Dibromo-3-Chloropropane	Lin1		0.1399		15.3	20.0	-23.3*	20.0
1,3,5-Trichlorobenzene	Ave	0.9222	0.9168		19.9	20.0	-0.6	20.0
1,2,4-Trichlorobenzene	Ave	0.7981	0.7788		19.5	20.0	-2.4	20.0
Hexachlorobutadiene	Ave	0.4281	0.4413		20.6	20.0	3.1	20.0
Naphthalene	Ave	2.474	2.034		16.4	20.0	-17.8	20.0
1,2,3-Trichlorobenzene	Ave	0.7347	0.7374		20.1	20.0	0.4	20.0
Dibromofluoromethane (Surr)	Ave	0.2379	0.2360		29.8	30.0	-0.8	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2822	0.2558		27.2	30.0	-9.3	30.0
Toluene-d8 (Surr)	Ave	1.337	1.384		31.1	30.0	3.6	30.0
4-Bromofluorobenzene (Surr)	Ave	1.049	0.9448		27.0	30.0	-9.9	30.0

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP33\20131113-28397.b\11131329.D
Lims ID: ccvis Lab Sample ID:
Client ID:
Sample Type: CCVIS
Inject. Date: 13-Nov-2013 21:48:30 ALS Bottle#: 29 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 490-0028397-002
Operator ID: JJR Instrument ID: HP33
Sublist: chrom-8260HP33*sub13

Method: \\Nvlchrom\ChromData\HP33\20131113-28397.b\8260HP33.m
Limit Group: MSV 8260B ICAL
Last Update: 14-Nov-2013 08:10:58 Calib Date: 19-Oct-2013 00:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D

Column 1 : Detector MS SCAN
Process Host: XAWRK035

First Level Reviewer: redmondj Date: 14-Nov-2013 08:10:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.686	3.686	0.0	99	464664	30.0	
* 2 Chlorobenzene-d5	117	6.004	6.004	0.0	84	317554	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.139	8.139	0.0	94	154705	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.272	3.272	0.0	82	109651	29.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.503	3.503	0.0	93	118858	27.2	
$ 6 Toluene-d8 (Surr)	98	4.805	4.805	0.0	92	439547	31.1	
$ 7 4-Bromofluorobenzene (Surr)	95	7.062	7.062	0.0	92	146172	27.0	
9 Dichlorodifluoromethane	85	1.167	1.167	0.0	88	84911	20.6	
10 Chloromethane	50	1.295	1.295	0.0	89	67617	17.2	
11 Vinyl chloride	62	1.338	1.338	0.0	95	81882	19.3	
12 Butadiene	54	1.356	1.356	0.0	0	75221	18.5	
13 Bromomethane	96	1.520	1.520	0.0	87	30617	21.2	
14 Chloroethane	64	1.569	1.569	0.0	95	54222	19.0	
15 Dichlorofluoromethane	67	1.678	1.678	0.0	82	130445	19.2	
16 Trichlorofluoromethane	101	1.690	1.690	0.0	85	112060	20.0	
18 Ethyl ether	59	1.836	1.836	0.0	89	56542	18.2	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.946	1.946	0.0	85	64966	19.6	
20 Acrolein	56	1.952	1.952	0.0	93	20916	34.7	
21 1,1-Dichloroethene	96	1.976	1.976	0.0	90	57140	18.9	
22 Acetone	58	2.031	2.031	0.0	100	33444	84.4	
23 Iodomethane	142	2.074	2.074	0.0	97	41980	17.9	
25 Isopropyl alcohol	45	2.086	2.086	0.0	34	29655	180.1	
17 Ethanol	45	2.086	2.086	0.0	18	29655	374.1	
26 Carbon disulfide	76	2.104	2.104	0.0	99	182154	17.9	
27 3-Chloro-1-propene	76	2.177	2.177	0.0	90	43984	18.5	
29 Acetonitrile	41	2.177	2.177	0.0	74	73869	157.7	
28 Methyl acetate	43	2.183	2.183	0.0	97	270032	69.8	
30 Methylene Chloride	84	2.256	2.256	0.0	83	69587	19.0	
31 2-Methyl-2-propanol	59	2.299	2.299	0.0	95	47301	175.2	
32 Methyl tert-butyl ether	73	2.366	2.366	0.0	89	181322	17.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
33 trans-1,2-Dichloroethene	61	2.384	2.384	0.0	94	90663	18.0	
34 Acrylonitrile	53	2.420	2.420	0.0	99	266918	171.2	
35 Hexane	57	2.481	2.481	0.0	87	99282	16.5	
36 Isopropyl ether	45	2.621	2.621	0.0	93	223214	16.9	
37 1,1-Dichloroethane	63	2.639	2.639	0.0	84	125721	18.8	
38 Vinyl acetate	43	2.646	2.646	0.0	97	339010	33.5	
39 2-Chloro-1,3-butadiene	53	2.670	2.670	0.0	87	103645	17.5	
40 Tert-butyl ethyl ether	59	2.828	2.828	0.0	97	195843	16.8	
41 2,2-Dichloropropane	77	2.968	2.968	0.0	90	82780	15.6	
42 cis-1,2-Dichloroethene	61	2.986	2.986	0.0	69	121269	19.2	
44 Ethyl acetate	43	2.992	2.992	0.0	91	259975	40.8	
43 2-Butanone (MEK)	72	2.998	2.998	0.0	91	41492	90.5	
45 Propionitrile	54	3.077	3.077	0.0	98	104047	182.5	
46 Chlorobromomethane	130	3.138	3.138	0.0	79	39500	20.2	
47 Methacrylonitrile	41	3.144	3.144	0.0	93	457131	167.6	
48 Tetrahydrofuran	42	3.150	3.150	0.0	74	55555	30.4	
49 Chloroform	83	3.169	3.169	0.0	71	118200	18.4	
50 Cyclohexane	56	3.266	3.266	0.0	90	126898	18.2	
51 1,1,1-Trichloroethane	97	3.266	3.266	0.0	82	94549	18.0	
53 Carbon tetrachloride	117	3.351	3.351	0.0	81	81267	18.5	
54 1,1-Dichloropropene	75	3.369	3.369	0.0	95	88407	18.4	
55 Isobutyl alcohol	43	3.461	3.461	0.0	96	61069	168.0	
56 Benzene	78	3.497	3.497	0.0	95	285034	19.0	
58 Tert-amyl methyl ether	73	3.546	3.546	0.0	97	178504	17.0	
59 1,2-Dichloroethane	62	3.558	3.558	0.0	77	88843	18.3	
60 n-Heptane	43	3.595	3.595	0.0	90	93965	14.8	
61 n-Butanol	56	3.911	3.911	0.0	89	35268	433.9	
62 Trichloroethene	130	3.929	3.929	0.0	95	74612	20.3	
63 Ethyl acrylate	55	4.008	4.008	0.0	0	179599	16.7	
64 Cyclohexanone	55	4.008	4.008	0.0	75	179599	166.5	
65 Methylcyclohexane	83	4.014	4.014	0.0	95	124761	18.4	
66 1,2-Dichloropropane	63	4.118	4.118	0.0	95	72865	18.6	
68 Methyl methacrylate	41	4.166	4.166	0.0	89	122685	32.1	
69 Dibromomethane	93	4.203	4.203	0.0	87	40370	19.1	
70 1,4-Dioxane	88	4.209	4.209	0.0	2	10819	321.3	
71 Dichlorobromomethane	83	4.306	4.306	0.0	99	82899	18.7	
72 2-Nitropropane	43	4.519	4.519	0.0	79	64938	40.6	
73 2-Chloroethyl vinyl ether	63	4.525	4.525	0.0	83	46361	20.4	
74 cis-1,3-Dichloropropene	75	4.635	4.635	0.0	91	103580	19.9	
75 4-Methyl-2-pentanone (MIBK)	58	4.744	4.744	0.0	97	130875	94.4	
76 Toluene	91	4.854	4.854	0.0	98	300201	20.1	
77 trans-1,3-Dichloropropene	75	5.085	5.085	0.0	96	81484	18.4	
78 Ethyl methacrylate	69	5.103	5.103	0.0	87	90079	19.7	
79 1,1,2-Trichloroethane	97	5.231	5.231	0.0	85	57102	19.3	
80 Tetrachloroethene	166	5.274	5.274	0.0	85	75571	19.7	
81 1,3-Dichloropropane	76	5.371	5.371	0.0	90	100628	18.7	
82 2-Hexanone	58	5.413	5.413	0.0	96	108199	84.8	
83 n-Butyl acetate	43	5.486	5.486	0.0	98	79818	29.2	
84 Chlorodibromomethane	127	5.529	5.529	0.0	89	45043	16.1	
85 Ethylene Dibromide	107	5.639	5.639	0.0	99	57002	18.3	
87 Chlorobenzene	112	6.028	6.028	0.0	95	190360	19.3	
88 Ethylbenzene	91	6.095	6.095	0.0	98	322686	18.7	

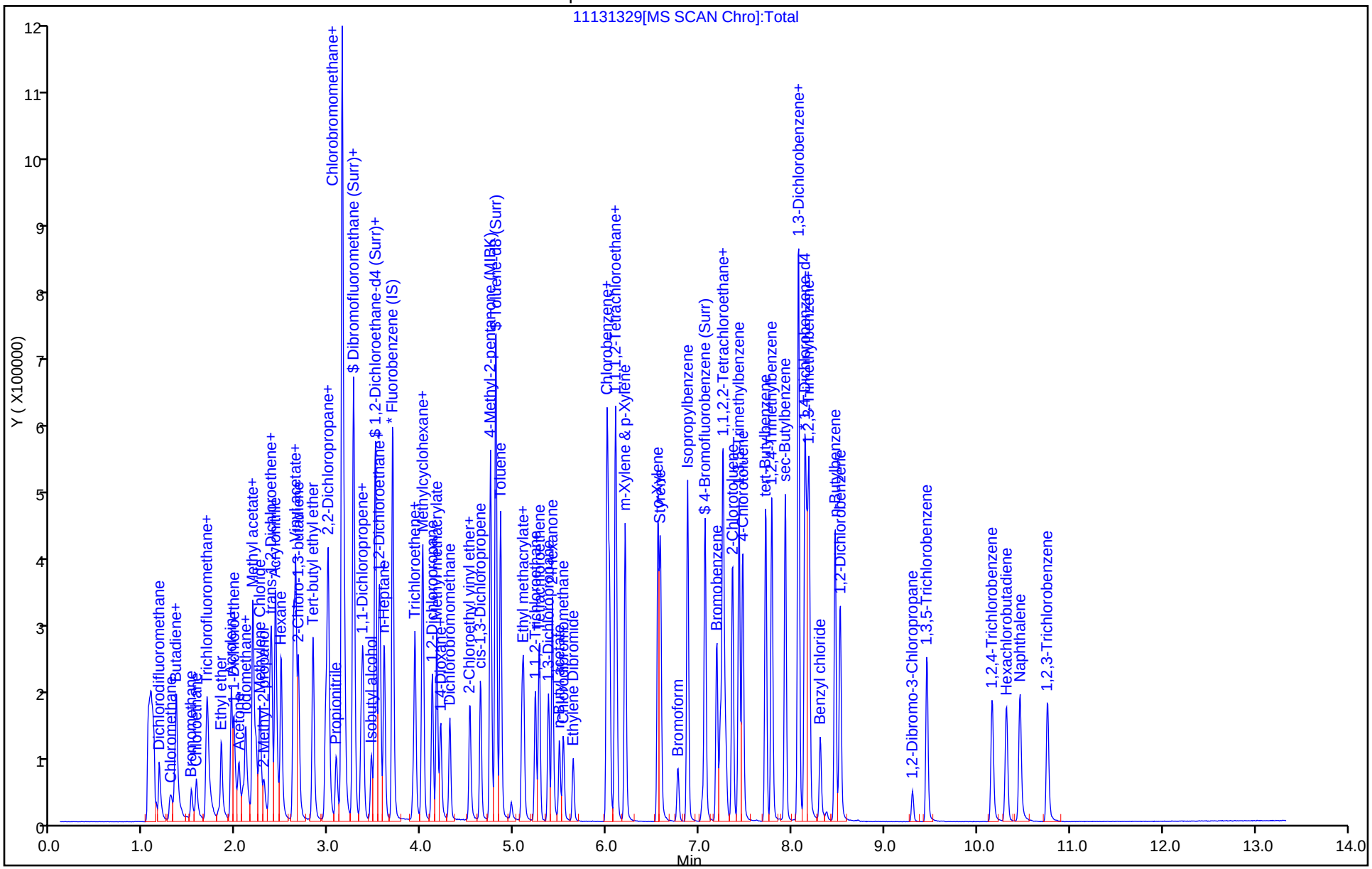
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
89 1,1,1,2-Tetrachloroethane	131	6.107	6.107	0.0	84	64073	19.6	
90 m-Xylene & p-Xylene	91	6.198	6.198	0.0	99	243365	18.1	
91 o-Xylene	91	6.551	6.551	0.0	97	247833	18.6	
92 Styrene	104	6.582	6.582	0.0	95	212303	19.6	
93 Bromoform	173	6.770	6.770	0.0	96	37718	15.7	
94 Isopropylbenzene	105	6.874	6.874	0.0	95	324599	19.1	
95 Bromobenzene	77	7.184	7.184	0.0	93	118756	17.5	
96 1,1,2,2-Tetrachloroethane	83	7.226	7.226	0.0	79	74403	18.2	
97 N-Propylbenzene	91	7.251	7.251	0.0	94	385952	18.1	
98 1,2,3-Trichloropropane	110	7.269	7.269	0.0	80	24328	17.4	
99 trans-1,4-Dichloro-2-butene	53	7.287	7.287	0.0	63	17398	14.2	
100 2-Chlorotoluene	91	7.360	7.360	0.0	97	214046	17.5	
101 1,3,5-Trimethylbenzene	105	7.427	7.427	0.0	93	265302	18.3	
102 4-Chlorotoluene	91	7.470	7.470	0.0	96	236224	18.4	
103 tert-Butylbenzene	119	7.713	7.713	0.0	87	230930	18.4	
105 1,2,4-Trimethylbenzene	105	7.780	7.780	0.0	97	269005	18.3	
106 sec-Butylbenzene	105	7.926	7.926	0.0	94	337801	18.2	
108 1,3-Dichlorobenzene	146	8.072	8.072	0.0	71	154482	19.2	
107 4-Isopropyltoluene	119	8.072	8.072	0.0	96	297649	18.6	
109 1,4-Dichlorobenzene	146	8.163	8.163	0.0	95	155161	19.0	
110 1,2,3-Trimethylbenzene	105	8.181	8.181	0.0	0	266960	18.1	
111 Benzyl chloride	91	8.303	8.303	0.0	97	88975	13.5	
112 n-Butylbenzene	91	8.467	8.467	0.0	94	250288	18.0	
113 1,2-Dichlorobenzene	146	8.522	8.522	0.0	97	142110	19.4	
114 1,2-Dibromo-3-Chloropropane	157	9.301	9.301	0.0	78	14428	15.3	
115 1,3,5-Trichlorobenzene	180	9.459	9.459	0.0	97	94559	19.9	
116 1,2,4-Trichlorobenzene	180	10.159	10.159	0.0	90	80325	19.5	
117 Hexachlorobutadiene	225	10.317	10.317	0.0	95	45518	20.6	
118 Naphthalene	128	10.463	10.463	0.0	96	209780	16.4	
119 1,2,3-Trichlorobenzene	180	10.761	10.761	0.0	94	76049	20.1	
S 134 Xylenes, Total	1				0		36.8	
S 135 1,2-Dichloroethene, Total	1				0		37.2	

Report Date: 14-Nov-2013 08:10:59 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131113-28397.b\11131329.D

Injection Date:	13-Nov-2013 21:48:30	Instrument ID:	HP33	Operator ID:	JJR
Lims ID:	ccvis	Lab Sample ID:		Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	8260HP33	Limit Group:	MSV 8260B ICAL		



TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181302.D		
Lims ID:	bfb	Client ID:	
Inject. Date:	18-Oct-2013 19:05:30	Dil. Factor:	1.0000
Sample Type:	BFB		
Sample ID:	BFB		
Misc. Info.:	490-0026993-001		
Operator:	JJR	Instrument ID:	HP33
Purge Vol:	5.000 mL	ALS Bottle#:	2
Lims Batch ID:	115521	Lims Sample ID:	1
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\8260HP33.m		
Last Update:	19-Oct-2013 20:38:18	Calib Date:	19-Oct-2013 00:14:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK030		
First Level Reviewer: redmondj		Date:	18-Oct-2013 20:04:42

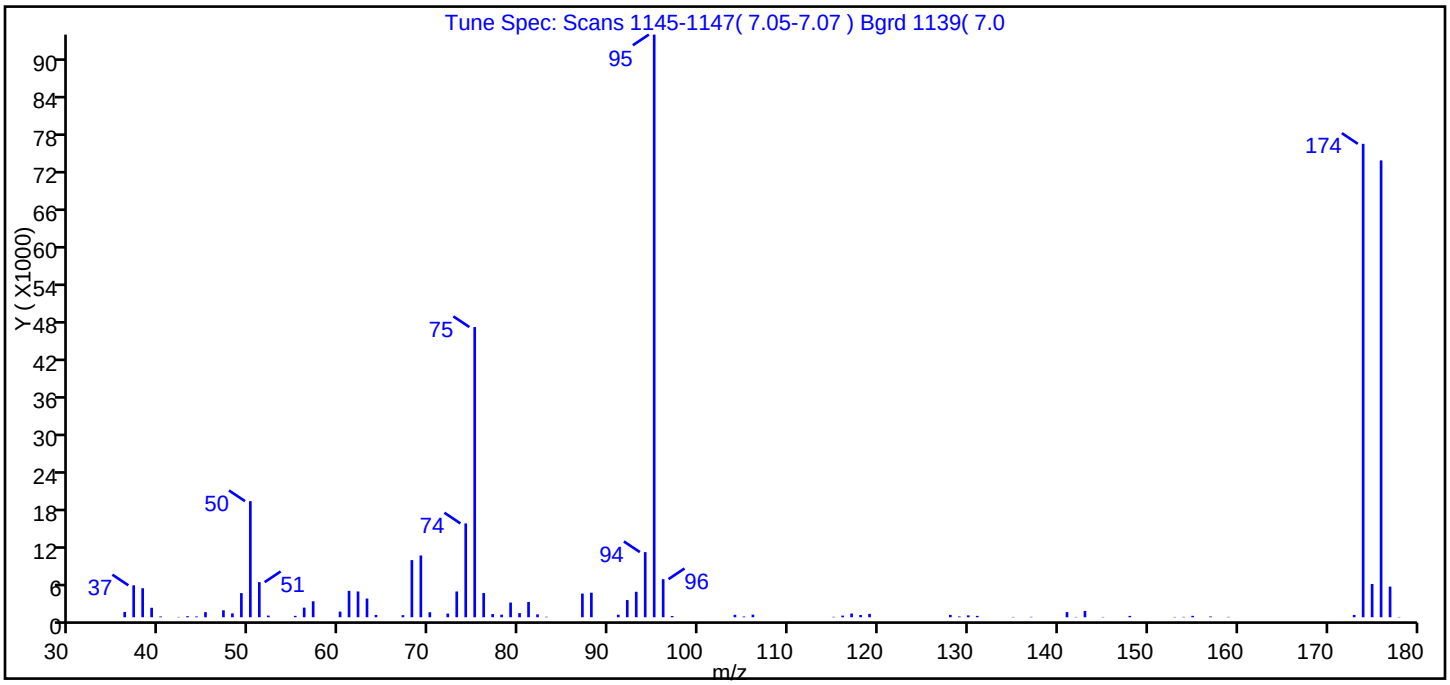
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.690	3.690	0.0	99	508151	30.0	
* 2 Chlorobenzene-d5	117	6.002	6.002	0.0	85	349735	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.143	8.143	0.0	95	154263	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.271	3.271	0.0	62	121462	30.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.508	3.508	0.0	98	141486	29.6	
$ 6 Toluene-d8 (Surr)	98	4.804	4.804	0.0	93	464479	29.8	
$ 7 4-Bromofluorobenzene (Surr)	95	7.061	7.061	0.0	89	165844	30.7	
$ 8 BFB	95	7.061	7.061	0.0	0	165844	0	

MS Tune Report

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131018-26993.b\10181302.D		
Injection Date:	18-Oct-2013 19:05:30	Limit Group:	MSV 8260B ICAL
Client ID:		Instrument ID:	HP33
Lims Batch ID:	115521	Lims Sample ID:	1
Operator ID:	JJR	Purge Vol:	5.000 mL
Column Type:		Column Dia:	
Tune Method:	BFB Method 8260		

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.93
75	30.00 - 60.00% of mass 95	49.81
96	5.00 - 9.00% of mass 95	6.54
173	Less than 2.00% of mass 174	0.40 (0.49)
174	Greater than 50.00% of mass 95	81.26
175	5.00 - 9.00% of mass 174	5.70 (7.02)
176	95.00 - 101.00% of mass 174	78.41 (96.50)
177	5.00 - 9.00% of mass 176	5.26 (6.71)

Data File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181302.D\8260HP33.rslt\spectra.d
Injection Date: 18-Oct-2013 19:05:30
Spectrum: Tune Spec: Scans 1145-1147(7.05-7.07) Bgrd 1139(7.0
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 78

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	854	62.00	4132	88.00	3940	135.00	56
37.00	5120	63.00	2999	91.00	401	137.00	68
38.00	4654	64.00	373	92.00	2757	141.00	827
39.00	1518	67.00	337	93.00	4082	142.00	55
40.00	128	68.00	9158	94.00	10440	143.00	1012
42.00	53	69.00	9907	95.00	93384	145.00	56
43.00	175	70.00	803	96.00	6107	148.00	219
44.00	130	72.00	586	97.00	198	153.00	54
45.00	819	73.00	4132	104.00	393	154.00	66
47.00	1116	74.00	15041	105.00	121	155.00	229
48.00	621	75.00	46512	106.00	416	157.00	123
49.00	3869	76.00	3875	115.00	71	159.00	66
50.00	18608	77.00	512	116.00	265	173.00	373
51.00	5628	78.00	410	117.00	598	174.00	75880
52.00	269	79.00	2356	118.00	366	175.00	5327
55.00	225	80.00	665	119.00	542	176.00	73224
56.00	1544	81.00	2452	128.00	380	177.00	4911
57.00	2559	82.00	462	129.00	128	178.00	53
60.00	906	83.00	80	130.00	302		
61.00	4232	87.00	3794	131.00	223		

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP33\20131113-28397.b\11131328.D
Lims ID: bfb Lab Sample ID:
Client ID:
Sample Type: BFB
Inject. Date: 13-Nov-2013 21:21:30 ALS Bottle#: 28 Worklist Smp#: 1
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 490-0028397-001
Operator ID: JJR Instrument ID: HP33

Method: \\Nvlchrom\ChromData\HP33\20131113-28397.b\8260HP33.m
Limit Group: MSV 8260B ICAL
Last Update: 14-Nov-2013 08:10:39 Calib Date: 19-Oct-2013 00:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D

Column 1 : Detector MS SCAN
Process Host: XAWRK035

First Level Reviewer: redmondj Date: 14-Nov-2013 08:10:39

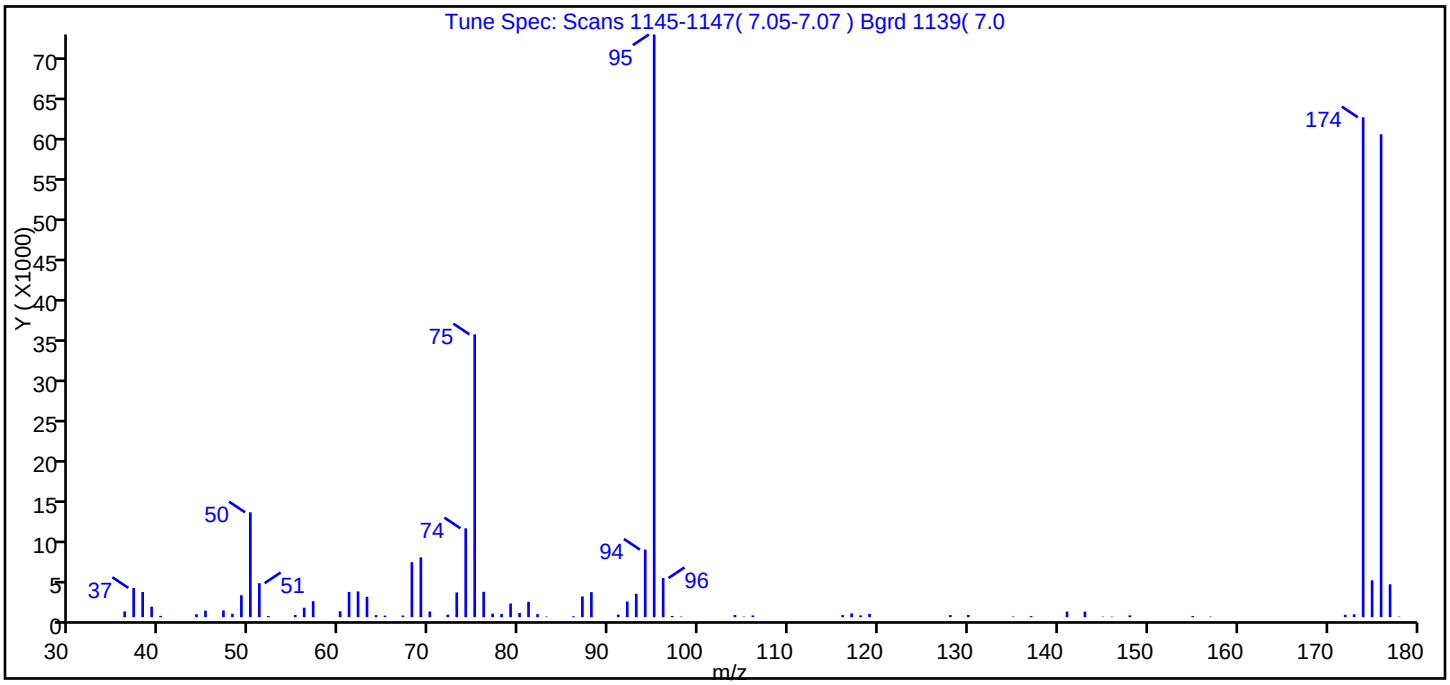
	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
*	1 Fluorobenzene (IS)	96	3.689	3.689	0.0	99	449924	30.0	
*	2 Chlorobenzene-d5	117	6.007	6.007	0.0	83	299872	30.0	
*	3 1,4-Dichlorobenzene-d4	152	8.142	8.142	0.0	94	136551	30.0	
$	4 Dibromofluoromethane (Surr)	111	3.269	3.269	0.0	71	107247	30.1	
$	5 1,2-Dichloroethane-d4 (Surr)	65	3.507	3.507	0.0	99	115113	27.2	
$	6 Toluene-d8 (Surr)	98	4.803	4.803	0.0	93	426048	31.9	
$	7 4-Bromofluorobenzene (Surr)	95	7.059	7.059	0.0	92	134556	28.2	
$	8 BFB	95	7.059	7.059	0.0	0	134556	0	

MS Tune Report

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131113-28397.b\11131328.D
Injection Date: 13-Nov-2013 21:21:30 Instrument ID: HP33
Lims ID: bfb Lab Sample ID:
Client ID:
Operator ID: JJR ALS Bottle#: 28 Worklist Smp#: 1
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260HP33 Limit Group: MSV 8260B ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.00
75	30.00 - 60.00% of mass 95	48.50
96	5.00 - 9.00% of mass 95	6.70
173	Less than 2.00% of mass 174	0.50 (0.60)
174	Greater than 50.00% of mass 95	85.80
175	5.00 - 9.00% of mass 174	6.30 (7.40)
176	95.00 - 101.00% of mass 174	82.90 (96.60)
177	5.00 - 9.00% of mass 176	5.60 (6.80)

Data File: \\Nvlchrom\ChromData\HP33\20131113-28397.b\11131328.D\8260HP33.rslt\spectra.d
Injection Date: 13-Nov-2013 21:21:30
Spectrum: Tune Spec: Scans 1145-1147(7.05-7.07) Bgrd 1139(7.0
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 74

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	711	63.00	2514	86.00	115	130.00	269
37.00	3615	64.00	250	87.00	2568	135.00	70
38.00	3109	65.00	195	88.00	3095	137.00	122
39.00	1294	67.00	203	91.00	317	141.00	689
40.00	155	68.00	6803	92.00	1931	143.00	681
44.00	362	69.00	7398	93.00	2892	145.00	55
45.00	805	70.00	700	94.00	8361	146.00	52
47.00	833	72.00	310	95.00	72128	148.00	218
48.00	412	73.00	3063	96.00	4837	155.00	141
49.00	2712	74.00	10999	97.00	143	157.00	63
50.00	12979	75.00	35008	98.00	65	172.00	290
51.00	4205	76.00	3133	104.00	272	173.00	350
52.00	141	77.00	433	105.00	60	174.00	61880
55.00	268	78.00	395	106.00	216	175.00	4559
56.00	1168	79.00	1688	116.00	258	176.00	59776
57.00	1973	80.00	516	117.00	466	177.00	4071
60.00	718	81.00	1897	118.00	219	178.00	55
61.00	3116	82.00	373	119.00	409		
62.00	3188	83.00	69	128.00	255		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39437-2

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-121717/4

Matrix: Water | Lab File ID: 11131332.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/13/2013 23:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121717 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		5.00	2.66
71-43-2	Benzene	ND		1.00	0.200
74-97-5	Bromochloromethane	ND		1.00	0.150
75-27-4	Bromodichloromethane	ND		1.00	0.170
75-25-2	Bromoform	ND		1.00	0.290
74-83-9	Bromomethane	ND		1.00	0.350
78-93-3	2-Butanone (MEK)	ND		50.0	2.64
75-15-0	Carbon disulfide	ND		1.00	0.220
56-23-5	Carbon tetrachloride	ND		1.00	0.180
108-90-7	Chlorobenzene	ND		1.00	0.180
124-48-1	Chlorodibromomethane	ND		1.00	0.250
75-00-3	Chloroethane	ND		1.00	0.360
67-66-3	Chloroform	ND		1.00	0.230
74-87-3	Chloromethane	ND		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	ND		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	ND		1.00	0.170
110-82-7	Cyclohexane	ND		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	ND		1.00	0.210
95-50-1	1,2-Dichlorobenzene	ND		1.00	0.190
541-73-1	1,3-Dichlorobenzene	ND		1.00	0.180
106-46-7	1,4-Dichlorobenzene	ND		1.00	0.170
75-71-8	Dichlorodifluoromethane	ND		1.00	0.170
75-34-3	1,1-Dichloroethane	ND		1.00	0.240
107-06-2	1,2-Dichloroethane	ND		1.00	0.200
75-35-4	1,1-Dichloroethene	ND		1.00	0.250
78-87-5	1,2-Dichloropropane	ND		1.00	0.250
100-41-4	Ethylbenzene	ND		1.00	0.190
591-78-6	2-Hexanone	ND		5.00	1.28
98-82-8	Isopropylbenzene	ND		1.00	0.330
79-20-9	Methyl acetate	ND		10.0	0.720
108-87-2	Methylcyclohexane	ND		5.00	0.200
75-09-2	Methylene Chloride	ND		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.00	0.810
1634-04-4	Methyl tert-butyl ether	ND		1.00	0.170
103-65-1	N-Propylbenzene	ND		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39437-2

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-121717/4

Matrix: Water | Lab File ID: 11131332.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/13/2013 23:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121717 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	ND		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.00	0.190
127-18-4	Tetrachloroethene	ND		1.00	0.140
109-99-9	Tetrahydrofuran	ND		5.00	2.84
108-88-3	Toluene	ND		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	ND		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	ND		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	ND		1.00	0.200
71-55-6	1,1,1-Trichloroethane	ND		1.00	0.190
79-00-5	1,1,2-Trichloroethane	ND		1.00	0.190
79-01-6	Trichloroethene	0.4298	J	1.00	0.200
75-69-4	Trichlorofluoromethane	ND		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	ND		1.00	0.330
75-01-4	Vinyl chloride	ND		1.00	0.180
1330-20-7	Xylenes, Total	ND		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		70-130
2037-26-5	Toluene-d8 (Surr)	107		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP33\20131113-28397.b\11131332.D
Lims ID: mb Lab Sample ID: MB 490-121719/4-A
Client ID:
Sample Type: MB
Inject. Date: 13-Nov-2013 23:08:30 ALS Bottle#: 32 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 490-0028397-004
Operator ID: JJR Instrument ID: HP33

Method: \\Nvlchrom\ChromData\HP33\20131113-28397.b\8260HP33.m
Limit Group: MSV 8260B ICAL
Last Update: 14-Nov-2013 10:46:08 Calib Date: 19-Oct-2013 00:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D

Column 1 : Detector MS SCAN
Process Host: XAWRK035

First Level Reviewer: redmondj Date: 14-Nov-2013 10:46:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.689	3.686	0.003	99	437326	30.0	
* 2 Chlorobenzene-d5	117	6.007	6.004	0.003	85	289632	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.142	8.139	0.003	94	131459	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.275	3.272	0.003	67	103286	29.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.506	3.503	0.003	91	114058	27.7	
$ 6 Toluene-d8 (Surr)	98	4.802	4.805	-0.003	93	416130	32.2	
$ 7 4-Bromofluorobenzene (Surr)	95	7.059	7.062	-0.003	94	126846	27.6	
30 Methylene Chloride	84	2.253	2.256	-0.003	55	682	0.1979	
49 Chloroform	83	3.172	3.169	0.003	18	1314	0.2177	
62 Trichloroethene	130	3.926	3.929	-0.003	48	1490	0.4298	
117 Hexachlorobutadiene	225	10.308	10.317	-0.009	1	1451	0.7734	M
119 1,2,3-Trichlorobenzene	180	10.776	10.761	0.015	26	2465	0.7656	M

QC Flag Legend

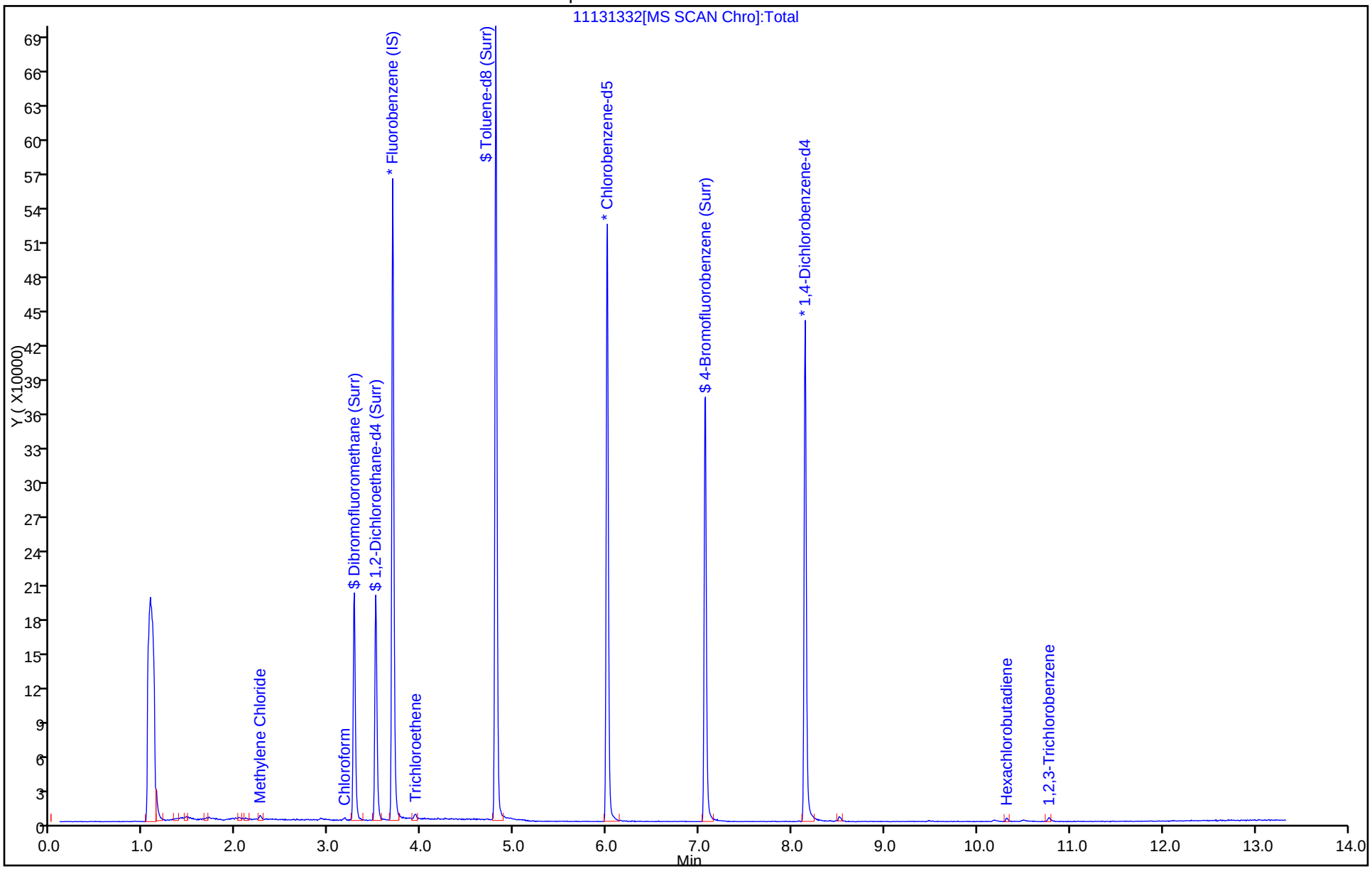
Review Flags
M - Manually Integrated

Report Date: 14-Nov-2013 10:46:09 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131113-28397.b\11131332.D

Injection Date:	13-Nov-2013 23:08:30	Instrument ID:	HP33	Operator ID:	JJR
Lims ID:	mb	Lab Sample ID:	MB 490-121719/4-A	Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	8260HP33	Limit Group:	MSV 8260B ICAL		



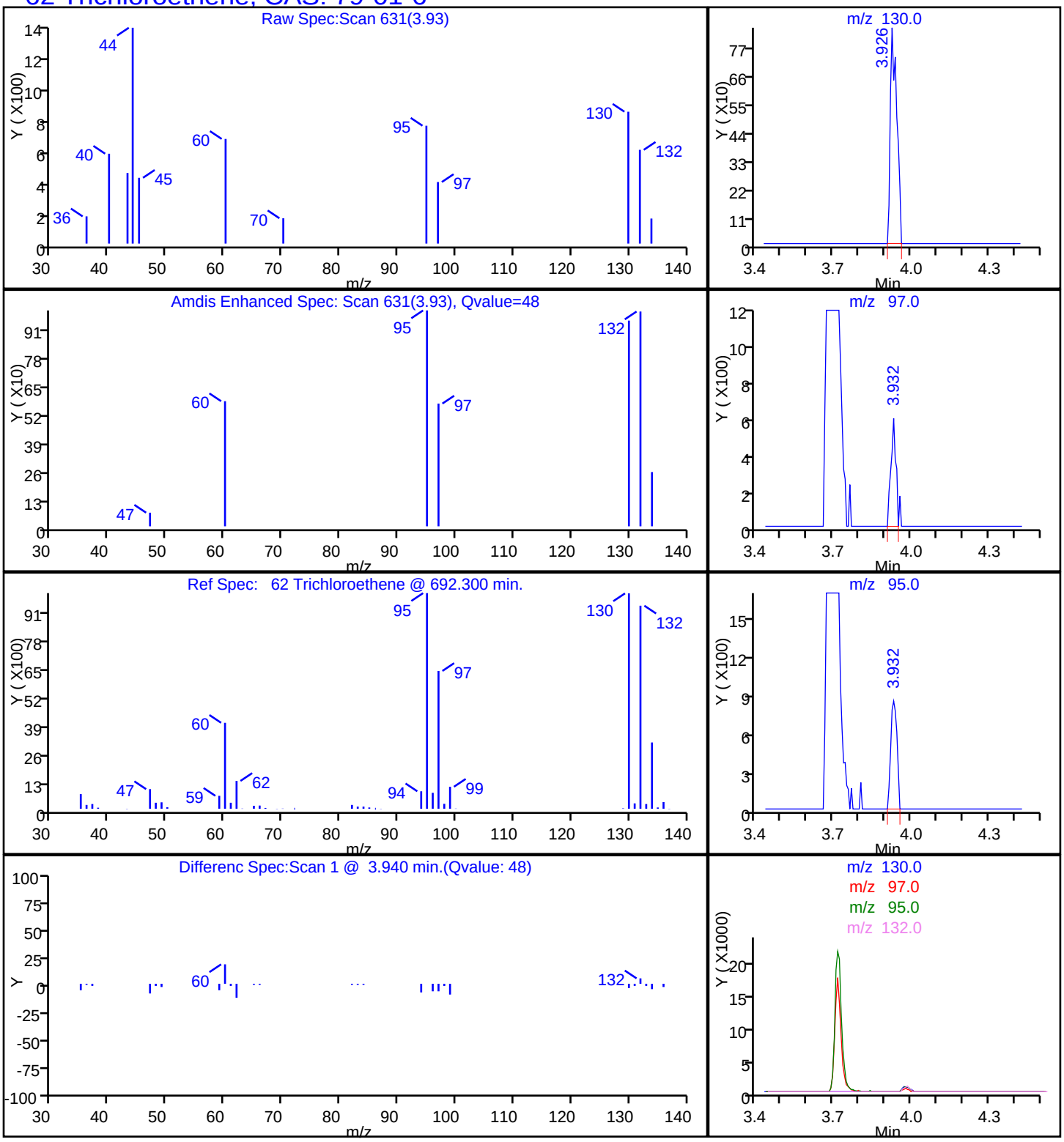
Report Date: 14-Nov-2013 10:46:09 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131113-28397.b\11131332.D

Injection Date:	13-Nov-2013 23:08:30	Instrument ID:	HP33
Lims ID:	mb	Lab Sample ID:	MB 490-121719/4-A
Client ID:			
Operator ID:	JJR	ALS Bottle#:	32 Worklist Smp#: 4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260HP33	Limit Group:	MSV 8260B ICAL
Column:		Detector	MS SCAN

62 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39437-2

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-121717/3

Matrix: Water | Lab File ID: 11131330.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/13/2013 22:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121717 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	81.40		5.00	2.66
71-43-2	Benzene	19.50		1.00	0.200
74-97-5	Bromochloromethane	20.53		1.00	0.150
75-27-4	Bromodichloromethane	19.21		1.00	0.170
75-25-2	Bromoform	16.68		1.00	0.290
74-83-9	Bromomethane	21.02		1.00	0.350
78-93-3	2-Butanone (MEK)	88.70		50.0	2.64
75-15-0	Carbon disulfide	18.40		1.00	0.220
56-23-5	Carbon tetrachloride	18.79		1.00	0.180
108-90-7	Chlorobenzene	19.99		1.00	0.180
124-48-1	Chlorodibromomethane	16.67		1.00	0.250
75-00-3	Chloroethane	19.80		1.00	0.360
67-66-3	Chloroform	18.66		1.00	0.230
74-87-3	Chloromethane	18.40		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	19.99		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	20.42		1.00	0.170
110-82-7	Cyclohexane	18.32		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	15.64		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	19.21		1.00	0.210
95-50-1	1,2-Dichlorobenzene	19.87		1.00	0.190
541-73-1	1,3-Dichlorobenzene	20.09		1.00	0.180
106-46-7	1,4-Dichlorobenzene	19.67		1.00	0.170
75-71-8	Dichlorodifluoromethane	21.40		1.00	0.170
75-34-3	1,1-Dichloroethane	19.47		1.00	0.240
107-06-2	1,2-Dichloroethane	18.43		1.00	0.200
75-35-4	1,1-Dichloroethene	20.44		1.00	0.250
78-87-5	1,2-Dichloropropane	19.26		1.00	0.250
100-41-4	Ethylbenzene	19.25		1.00	0.190
591-78-6	2-Hexanone	85.36		5.00	1.28
98-82-8	Isopropylbenzene	19.70		1.00	0.330
79-20-9	Methyl acetate	72.48		10.0	0.720
108-87-2	Methylcyclohexane	19.02		5.00	0.200
75-09-2	Methylene Chloride	19.71		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	96.22		5.00	0.810
1634-04-4	Methyl tert-butyl ether	17.77		1.00	0.170
103-65-1	N-Propylbenzene	18.19		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39437-2

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-121717/3

Matrix: Water | Lab File ID: 11131330.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/13/2013 22:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121717 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	20.20		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	18.04		1.00	0.190
127-18-4	Tetrachloroethene	20.35		1.00	0.140
109-99-9	Tetrahydrofuran	31.21		5.00	2.84
108-88-3	Toluene	20.70		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	18.94		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	18.61		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	19.20		1.00	0.200
71-55-6	1,1,1-Trichloroethane	18.27		1.00	0.190
79-00-5	1,1,2-Trichloroethane	20.01		1.00	0.190
79-01-6	Trichloroethene	20.90		1.00	0.200
75-69-4	Trichlorofluoromethane	20.73		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	19.79		1.00	0.330
75-01-4	Vinyl chloride	20.45		1.00	0.180
1330-20-7	Xylenes, Total	37.83		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		70-130
1868-53-7	Dibromofluoromethane (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		70-130
2037-26-5	Toluene-d8 (Surr)	105		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP33\20131113-28397.b\11131330.D
Lims ID: lcs Lab Sample ID: LCS 490-121719/3-A
Client ID:
Sample Type: LCS
Inject. Date: 13-Nov-2013 22:15:30 ALS Bottle#: 30 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 490-0028397-003
Operator ID: JJR Instrument ID: HP33

Method: \\Nvlchrom\ChromData\HP33\20131113-28397.b\8260HP33.m
Limit Group: MSV 8260B ICAL
Last Update: 14-Nov-2013 08:11:28 Calib Date: 19-Oct-2013 00:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D

Column 1 : Detector MS SCAN
Process Host: XAWRK035

First Level Reviewer: redmondj Date: 14-Nov-2013 08:11:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.692	3.686	0.006	99	464484	30.0	
* 2 Chlorobenzene-d5	117	6.003	6.004	-0.001	84	314749	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.139	8.139	0.0	94	156749	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.272	3.272	0.0	82	111503	30.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.503	3.503	0.0	86	122084	27.9	
$ 6 Toluene-d8 (Surr)	98	4.805	4.805	0.0	91	440020	31.4	
$ 7 4-Bromofluorobenzene (Surr)	95	7.062	7.062	0.0	92	151467	27.6	
9 Dichlorodifluoromethane	85	1.167	1.167	0.0	88	88126	21.4	
10 Chloromethane	50	1.289	1.295	-0.006	100	72359	18.4	
11 Vinyl chloride	62	1.337	1.338	-0.001	79	86902	20.5	
12 Butadiene	54	1.356	1.356	0.0	0	79340	19.5	
13 Bromomethane	96	1.514	1.520	-0.006	90	30195	21.0	
14 Chloroethane	64	1.569	1.569	-0.001	95	56472	19.8	
15 Dichlorofluoromethane	67	1.678	1.678	0.0	82	134300	19.8	
16 Trichlorofluoromethane	101	1.690	1.690	0.0	86	115927	20.7	
18 Ethyl ether	59	1.836	1.836	0.0	94	57724	18.6	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.946	1.946	0.0	92	65734	19.8	
20 Acrolein	56	1.952	1.952	0.0	48	21271	35.3	
21 1,1-Dichloroethene	96	1.976	1.976	0.0	95	61758	20.4	
22 Acetone	58	2.025	2.031	-0.006	100	32346	81.4	
23 Iodomethane	142	2.073	2.074	-0.001	98	39983	17.2	
25 Isopropyl alcohol	45	2.098	2.086	0.012	1	30197	183.5	
17 Ethanol	45	2.098	2.086	0.012	1	30197	380.8	
26 Carbon disulfide	76	2.104	2.104	0.0	99	186952	18.4	
27 3-Chloro-1-propene	76	2.177	2.177	0.0	89	45537	19.2	
29 Acetonitrile	41	2.177	2.177	0.0	73	75776	161.9	
28 Methyl acetate	43	2.183	2.183	0.0	97	280214	72.5	
30 Methylene Chloride	84	2.256	2.256	0.0	82	72132	19.7	
31 2-Methyl-2-propanol	59	2.299	2.299	0.0	96	50649	187.7	
32 Methyl tert-butyl ether	73	2.365	2.366	-0.001	89	189206	17.8	
33 trans-1,2-Dichloroethene	61	2.384	2.384	0.0	93	95388	18.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
34 Acrylonitrile	53	2.426	2.420	0.006	97	280439	179.9	
35 Hexane	57	2.481	2.481	0.0	87	103050	17.1	
36 Isopropyl ether	45	2.621	2.621	0.0	94	233094	17.6	
37 1,1-Dichloroethane	63	2.639	2.639	0.0	84	130314	19.5	
38 Vinyl acetate	43	2.645	2.646	-0.001	96	279996	27.7	
39 2-Chloro-1,3-butadiene	53	2.670	2.670	0.0	86	106397	18.0	
40 Tert-butyl ethyl ether	59	2.828	2.828	0.0	98	203529	17.4	
41 2,2-Dichloropropane	77	2.968	2.968	0.0	90	86082	16.3	
42 cis-1,2-Dichloroethene	61	2.986	2.986	0.0	69	126012	20.0	
44 Ethyl acetate	43	2.998	2.992	0.006	95	270508	42.5	
43 2-Butanone (MEK)	72	2.998	2.998	0.0	91	40661	88.7	
45 Propionitrile	54	3.077	3.077	0.0	98	103781	182.1	
46 Chlorobromomethane	130	3.138	3.138	0.0	78	40173	20.5	
47 Methacrylonitrile	41	3.144	3.144	0.0	92	458916	168.3	
48 Tetrahydrofuran	42	3.144	3.150	-0.006	27	56960	31.2	
49 Chloroform	83	3.168	3.169	-0.001	70	119632	18.7	
50 Cyclohexane	56	3.260	3.266	-0.006	92	127983	18.3	
51 1,1,1-Trichloroethane	97	3.266	3.266	0.0	83	96201	18.3	
53 Carbon tetrachloride	117	3.351	3.351	0.0	82	82322	18.8	
54 1,1-Dichloropropene	75	3.369	3.369	0.0	97	90577	18.8	
55 Isobutyl alcohol	43	3.460	3.461	-0.001	93	63484	174.7	
56 Benzene	78	3.497	3.497	0.0	95	292501	19.5	
58 Tert-amyl methyl ether	73	3.546	3.546	0.0	97	182994	17.4	
59 1,2-Dichloroethane	62	3.558	3.558	0.0	90	89326	18.4	
60 n-Heptane	43	3.600	3.595	0.005	90	97399	15.4	
61 n-Butanol	56	3.911	3.911	0.0	94	36353	447.5	
62 Trichloroethene	130	3.929	3.929	0.0	94	76946	20.9	
63 Ethyl acrylate	55	4.008	4.008	0.0	0	186766	17.3	
64 Cyclohexanone	55	4.008	4.008	0.0	75	186766	173.2	
65 Methylcyclohexane	83	4.014	4.014	0.0	94	128671	19.0	
66 1,2-Dichloropropane	63	4.117	4.118	-0.001	95	75368	19.3	
68 Methyl methacrylate	41	4.166	4.166	0.0	88	121706	31.8	
69 Dibromomethane	93	4.209	4.203	0.006	86	40552	19.2	
70 1,4-Dioxane	88	4.221	4.209	0.012	10	14081	428.3	
71 Dichlorobromomethane	83	4.306	4.306	0.0	93	85319	19.2	
72 2-Nitropropane	43	4.519	4.519	0.0	78	64662	40.5	
73 2-Chloroethyl vinyl ether	63	4.525	4.525	0.0	82	46107	20.4	
74 cis-1,3-Dichloropropene	75	4.635	4.635	0.0	91	105438	20.4	
75 4-Methyl-2-pentanone (MIBK)	58	4.744	4.744	0.0	96	132267	96.2	
76 Toluene	91	4.854	4.854	0.0	98	305872	20.7	
77 trans-1,3-Dichloropropene	75	5.085	5.085	0.0	92	81650	18.6	
78 Ethyl methacrylate	69	5.103	5.103	0.0	89	92256	20.3	
79 1,1,2-Trichloroethane	97	5.231	5.231	0.0	91	58683	20.0	
80 Tetrachloroethene	166	5.273	5.274	-0.001	86	77377	20.3	
81 1,3-Dichloropropane	76	5.371	5.371	0.0	90	102579	19.2	
82 2-Hexanone	58	5.413	5.413	0.0	96	107951	85.4	
83 n-Butyl acetate	43	5.492	5.486	0.006	98	82804	30.3	
84 Chlorodibromomethane	127	5.535	5.529	0.006	89	46203	16.7	
85 Ethylene Dibromide	107	5.638	5.639	-0.001	98	59467	19.2	
87 Chlorobenzene	112	6.028	6.028	0.0	94	195097	20.0	
88 Ethylbenzene	91	6.095	6.095	0.0	98	329673	19.2	
89 1,1,1,2-Tetrachloroethane	131	6.107	6.107	0.0	85	65315	20.2	

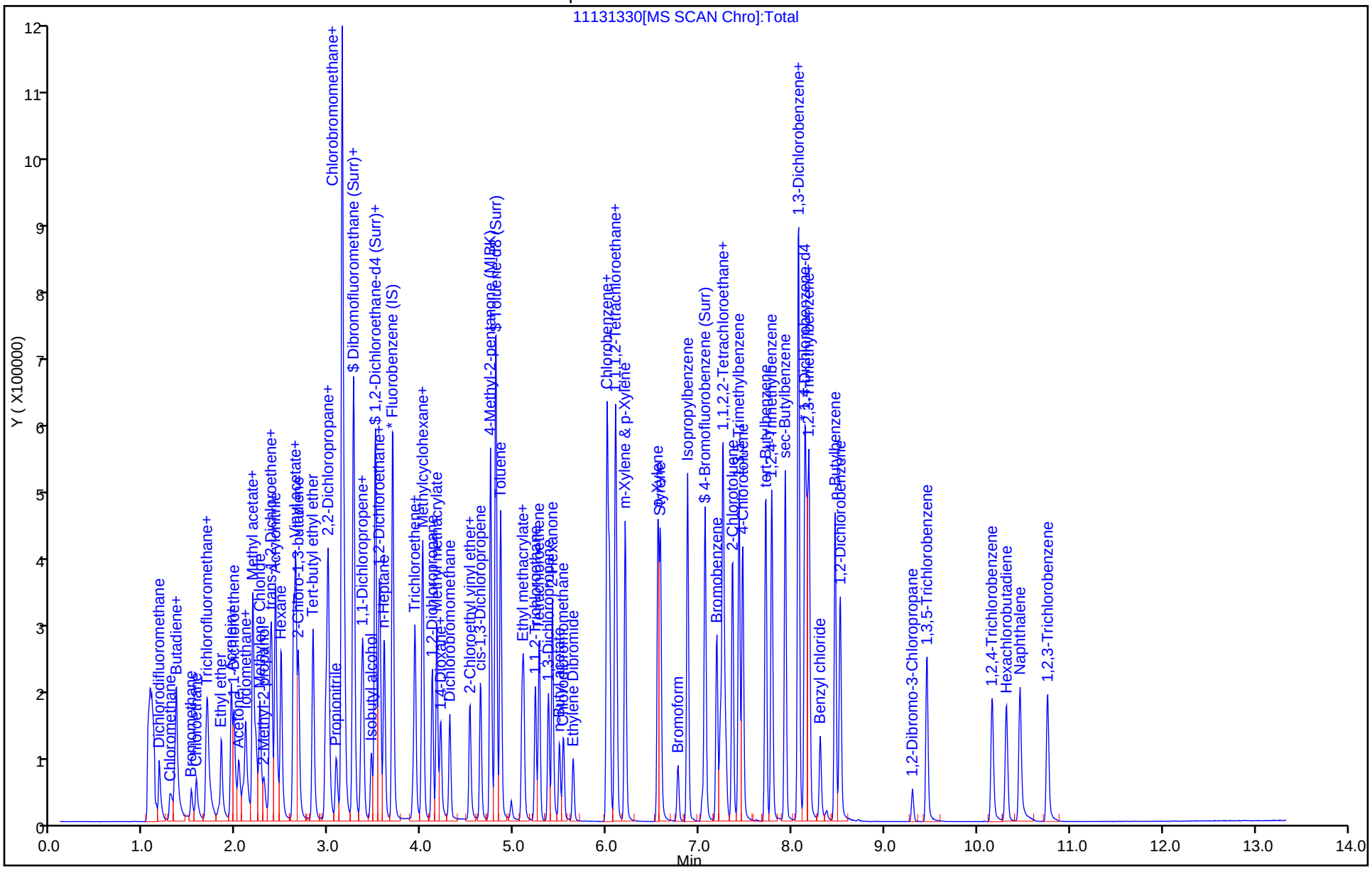
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
90 m-Xylene & p-Xylene	91	6.198	6.198	0.0	99	250494	18.8	
91 o-Xylene	91	6.551	6.551	0.0	96	250178	19.0	
92 Styrene	104	6.581	6.582	-0.001	95	216482	20.2	
93 Bromoform	173	6.770	6.770	0.0	97	39872	16.7	
94 Isopropylbenzene	105	6.873	6.874	-0.001	95	331147	19.7	
95 Bromobenzene	77	7.190	7.184	0.006	90	121944	17.7	
96 1,1,2,2-Tetrachloroethane	83	7.226	7.226	0.0	78	74675	18.0	
97 N-Propylbenzene	91	7.250	7.251	-0.001	98	392220	18.2	
98 1,2,3-Trichloropropane	110	7.269	7.269	0.0	80	25042	17.7	
99 trans-1,4-Dichloro-2-butene	53	7.287	7.287	0.0	72	17583	14.2	
100 2-Chlorotoluene	91	7.360	7.360	0.0	97	219948	17.8	
101 1,3,5-Trimethylbenzene	105	7.427	7.427	0.0	79	276173	18.8	
102 4-Chlorotoluene	91	7.469	7.470	-0.001	96	243673	18.7	
103 tert-Butylbenzene	119	7.719	7.713	0.006	91	243151	19.1	
105 1,2,4-Trimethylbenzene	105	7.780	7.780	0.0	97	280540	18.9	
106 sec-Butylbenzene	105	7.926	7.926	0.0	94	358208	19.1	
108 1,3-Dichlorobenzene	146	8.072	8.072	0.0	69	163501	20.1	
107 4-Isopropyltoluene	119	8.072	8.072	0.0	96	317219	19.5	
109 1,4-Dichlorobenzene	146	8.163	8.163	0.0	94	162848	19.7	
110 1,2,3-Trimethylbenzene	105	8.181	8.181	0.0	0	275879	18.4	
111 Benzyl chloride	91	8.303	8.303	0.0	97	88756	13.5	
112 n-Butylbenzene	91	8.467	8.467	0.0	95	259029	18.4	
113 1,2-Dichlorobenzene	146	8.522	8.522	0.0	97	147521	19.9	
114 1,2-Dibromo-3-Chloropropane	157	9.301	9.301	0.0	78	14923	15.6	
115 1,3,5-Trichlorobenzene	180	9.459	9.459	0.0	97	98300	20.4	
116 1,2,4-Trichlorobenzene	180	10.164	10.159	0.005	91	80081	19.2	
117 Hexachlorobutadiene	225	10.317	10.317	0.0	95	43950	19.6	
118 Naphthalene	128	10.463	10.463	0.0	97	231073	17.9	
119 1,2,3-Trichlorobenzene	180	10.761	10.761	0.0	96	84356	22.0	
S 134 Xylenes, Total	1				0		37.8	
S 135 1,2-Dichloroethene, Total	1				0		38.9	

Report Date: 14-Nov-2013 08:11:29 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131113-28397.b\11131330.D

Injection Date:	13-Nov-2013 22:15:30	Instrument ID:	HP33	Operator ID:	JJR
Lims ID:	lcs	Lab Sample ID:	LCS 490-121719/3-A	Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	8260HP33	Limit Group:	MSV 8260B ICAL		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39437-2

SDG No.:

Client Sample ID: | Lab Sample ID: 490-39480-E-1 MS

Matrix: Water | Lab File ID: 11131350.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/14/2013 07:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121717 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	189.9		5.00	2.66
71-43-2	Benzene	51.80		1.00	0.200
74-97-5	Bromochloromethane	50.21		1.00	0.150
75-27-4	Bromodichloromethane	49.73		1.00	0.170
75-25-2	Bromoform	41.28		1.00	0.290
74-83-9	Bromomethane	35.35		1.00	0.350
78-93-3	2-Butanone (MEK)	208.1		50.0	2.64
75-15-0	Carbon disulfide	45.90		1.00	0.220
56-23-5	Carbon tetrachloride	52.33		1.00	0.180
108-90-7	Chlorobenzene	50.25		1.00	0.180
124-48-1	Chlorodibromomethane	43.18		1.00	0.250
75-00-3	Chloroethane	48.09		1.00	0.360
67-66-3	Chloroform	46.26		1.00	0.230
74-87-3	Chloromethane	41.09		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	49.00		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	52.18		1.00	0.170
110-82-7	Cyclohexane	53.08		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	37.68		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	46.50		1.00	0.210
95-50-1	1,2-Dichlorobenzene	49.39		1.00	0.190
541-73-1	1,3-Dichlorobenzene	49.58		1.00	0.180
106-46-7	1,4-Dichlorobenzene	49.52		1.00	0.170
75-71-8	Dichlorodifluoromethane	47.19		1.00	0.170
75-34-3	1,1-Dichloroethane	48.80		1.00	0.240
107-06-2	1,2-Dichloroethane	44.62		1.00	0.200
75-35-4	1,1-Dichloroethene	51.03		1.00	0.250
78-87-5	1,2-Dichloropropane	47.78		1.00	0.250
100-41-4	Ethylbenzene	49.83		1.00	0.190
591-78-6	2-Hexanone	228.6		5.00	1.28
98-82-8	Isopropylbenzene	52.65		1.00	0.330
79-20-9	Methyl acetate	147.4		10.0	0.720
108-87-2	Methylcyclohexane	51.83		5.00	0.200
75-09-2	Methylene Chloride	47.03		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	251.1		5.00	0.810
1634-04-4	Methyl tert-butyl ether	43.86		1.00	0.170
103-65-1	N-Propylbenzene	50.70		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39437-2

SDG No.:

Client Sample ID: | Lab Sample ID: 490-39480-E-1 MS

Matrix: Water | Lab File ID: 11131350.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/14/2013 07:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121717 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	50.33		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	45.31		1.00	0.190
127-18-4	Tetrachloroethene	53.17		1.00	0.140
109-99-9	Tetrahydrofuran	70.62		5.00	2.84
108-88-3	Toluene	54.13		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	48.22		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	45.35		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	50.05		1.00	0.200
71-55-6	1,1,1-Trichloroethane	49.09		1.00	0.190
79-00-5	1,1,2-Trichloroethane	48.13		1.00	0.190
79-01-6	Trichloroethene	52.07		1.00	0.200
75-69-4	Trichlorofluoromethane	51.06		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	52.06		1.00	0.330
75-01-4	Vinyl chloride	48.43		1.00	0.180
1330-20-7	Xylenes, Total	98.62		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130
1868-53-7	Dibromofluoromethane (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		70-130
2037-26-5	Toluene-d8 (Surr)	104		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP33\20131113-28397.b\11131350.D
Lims ID: 490-39480-E-1 MS Lab Sample ID: 490-39480-1
Client ID:
Sample Type: MS
Inject. Date: 14-Nov-2013 07:12:30 ALS Bottle#: 50 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 490-39480-E-1 MS
Misc. Info.: 490-0028397-022
Operator ID: JJR Instrument ID: HP33

Method: \\Nvlchrom\ChromData\HP33\20131113-28397.b\8260HP33.m
Limit Group: MSV 8260B ICAL
Last Update: 14-Nov-2013 10:56:26 Calib Date: 19-Oct-2013 00:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D

Column 1 : Detector MS SCAN
Process Host: XAWRK035

First Level Reviewer: redmondj Date: 14-Nov-2013 10:56:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.691	3.686	0.005	99	513450	30.0	
* 2 Chlorobenzene-d5	117	6.002	6.004	-0.002	84	348728	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.144	8.139	0.005	92	166980	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.271	3.272	-0.001	74	122909	30.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.508	3.503	0.005	92	127963	26.5	
$ 6 Toluene-d8 (Surr)	98	4.804	4.805	-0.001	90	485559	31.3	
$ 7 4-Bromofluorobenzene (Surr)	95	7.061	7.062	-0.001	92	166218	28.5	
9 Dichlorodifluoromethane	85	1.172	1.167	0.005	88	214815	47.2	
10 Chloromethane	50	1.288	1.295	-0.007	88	178618	41.1	
11 Vinyl chloride	62	1.336	1.338	-0.002	79	227464	48.4	
12 Butadiene	54	1.355	1.356	-0.001	0	207939	46.3	
13 Bromomethane	96	1.519	1.520	-0.001	91	64117	35.4	
14 Chloroethane	64	1.568	1.569	-0.001	95	151615	48.1	
15 Dichlorofluoromethane	67	1.677	1.678	-0.001	82	357174	47.6	
16 Trichlorofluoromethane	101	1.695	1.690	0.005	87	315613	51.1	
18 Ethyl ether	59	1.841	1.836	0.005	89	154097	44.9	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.951	1.946	0.005	85	191125	52.1	
20 Acrolein	56	1.951	1.952	-0.001	39	55902	83.8	
21 1,1-Dichloroethene	96	1.975	1.976	-0.001	87	170460	51.0	
22 Acetone	58	2.030	2.031	-0.001	99	79786	189.9	
23 Iodomethane	142	2.072	2.074	-0.002	98	142405	47.0	
17 Ethanol	45	2.097	2.086	0.011	56	75180	841.9	
25 Isopropyl alcohol	45	2.097	2.086	0.011	73	75180	413.3	
24 Ethyl bromide	108	2.085	2.088	-0.003	1	3269	1.29	
26 Carbon disulfide	76	2.103	2.104	-0.001	99	515560	45.9	
27 3-Chloro-1-propene	76	2.176	2.177	-0.001	91	147805	56.3	
29 Acetonitrile	41	2.176	2.177	-0.001	69	211699	409.1	
28 Methyl acetate	43	2.182	2.183	-0.001	97	630051	147.4	
30 Methylene Chloride	84	2.261	2.256	0.005	82	190222	47.0	
31 2-Methyl-2-propanol	59	2.304	2.299	0.005	92	122695	411.4	
32 Methyl tert-butyl ether	73	2.365	2.366	-0.002	89	516132	43.9	

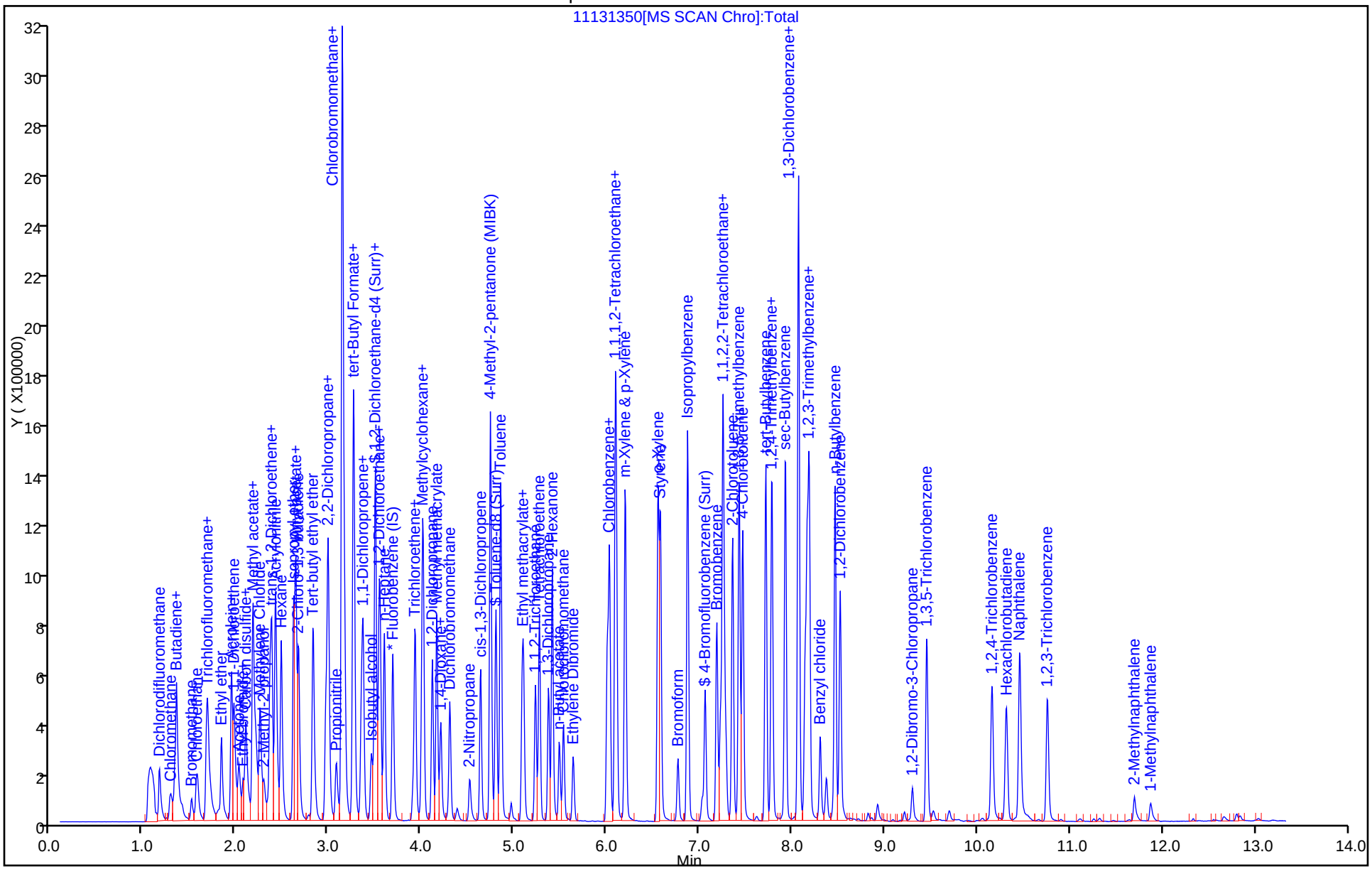
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
33 trans-1,2-Dichloroethene	61	2.383	2.384	-0.001	96	268477	48.2	
34 Acrylonitrile	53	2.425	2.420	0.005	98	712695	413.7	
35 Hexane	57	2.486	2.481	0.005	86	283755	42.6	
36 Isopropyl ether	45	2.620	2.621	-0.001	94	629357	43.0	
37 1,1-Dichloroethane	63	2.644	2.639	0.005	82	361062	48.8	
38 Vinyl acetate	43	2.644	2.646	-0.002	97	875778	78.3	
39 2-Chloro-1,3-butadiene	53	2.675	2.670	0.005	89	303254	46.4	
40 Tert-butyl ethyl ether	59	2.827	2.828	-0.001	98	555357	43.1	
41 2,2-Dichloropropane	77	2.967	2.968	-0.001	92	229815	39.3	
42 cis-1,2-Dichloroethene	61	2.985	2.986	-0.001	69	341524	49.0	
44 Ethyl acetate	43	2.997	2.992	0.005	95	647885	92.0	
43 2-Butanone (MEK)	72	2.997	2.998	-0.001	96	105444	208.1	
45 Propionitrile	54	3.082	3.077	0.005	98	258283	410.0	
46 Chlorobromomethane	130	3.137	3.138	-0.001	81	108593	50.2	
47 Methacrylonitrile	41	3.143	3.144	-0.001	92	1191706	395.3	
48 Tetrahydrofuran	42	3.149	3.150	-0.001	64	142476	70.6	
49 Chloroform	83	3.168	3.169	-0.001	71	327829	46.3	
52 tert-Butyl Formate	59	3.265	3.265	0.0	28	3532	0.8028	
50 Cyclohexane	56	3.265	3.266	-0.001	92	409884	53.1	
51 1,1,1-Trichloroethane	97	3.265	3.266	-0.001	92	285707	49.1	
53 Carbon tetrachloride	117	3.350	3.351	-0.001	81	253431	52.3	
54 1,1-Dichloropropene	75	3.368	3.369	-0.001	96	268150	50.4	
55 Isobutyl alcohol	43	3.460	3.461	-0.001	95	172736	430.1	
56 Benzene	78	3.502	3.497	0.005	97	858838	51.8	
57 t-Amyl alcohol	59	3.539	3.532	0.007	40	12265	36.0	
58 Tert-amyl methyl ether	73	3.545	3.546	-0.001	98	505398	43.6	
59 1,2-Dichloroethane	62	3.557	3.558	-0.001	89	239034	44.6	
60 n-Heptane	43	3.599	3.595	0.004	91	266968	38.1	
61 n-Butanol	56	3.910	3.911	-0.001	87	86896	967.6	
62 Trichloroethene	130	3.934	3.929	0.005	94	211926	52.1	
64 Cyclohexanone	55	4.007	4.008	-0.001	76	529262	444.1	
63 Ethyl acrylate	55	4.007	4.008	-0.001	0	529262	44.4	
65 Methylcyclohexane	83	4.019	4.014	0.005	94	387662	51.8	
66 1,2-Dichloropropane	63	4.117	4.118	-0.001	96	206649	47.8	
68 Methyl methacrylate	41	4.165	4.166	-0.001	89	336380	79.6	
69 Dibromomethane	93	4.208	4.203	0.005	89	107947	46.3	
70 1,4-Dioxane	88	4.214	4.209	0.005	11	31090	888.5	
71 Dichlorobromomethane	83	4.305	4.306	-0.001	100	244159	49.7	
72 2-Nitropropane	43	4.518	4.519	-0.001	97	99296	56.2	
74 cis-1,3-Dichloropropene	75	4.640	4.635	0.005	93	298474	52.2	
75 4-Methyl-2-pentanone (MIBK)	58	4.743	4.744	-0.001	96	382450	251.1	
76 Toluene	91	4.853	4.854	-0.001	98	886180	54.1	
77 trans-1,3-Dichloropropene	75	5.084	5.085	-0.001	97	220510	45.4	
78 Ethyl methacrylate	69	5.102	5.103	-0.001	89	244518	48.6	
79 1,1,2-Trichloroethane	97	5.230	5.231	-0.001	85	156409	48.1	
80 Tetrachloroethene	166	5.272	5.274	-0.002	86	224003	53.2	
81 1,3-Dichloropropane	76	5.370	5.371	-0.001	90	277310	46.8	
82 2-Hexanone	58	5.412	5.413	-0.001	96	320230	228.6	
83 n-Butyl acetate	43	5.485	5.486	-0.001	98	212038	70.1	
84 Chlorodibromomethane	127	5.534	5.529	0.005	90	136156	43.2	
85 Ethylene Dibromide	107	5.637	5.639	-0.002	99	159492	46.5	
86 1-Chlorohexane	91	6.008	6.002	0.006	15	858	0.1170	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
87 Chlorobenzene	112	6.027	6.028	-0.001	95	543454	50.3	
88 Ethylbenzene	91	6.094	6.095	-0.001	98	945681	49.8	
89 1,1,1,2-Tetrachloroethane	131	6.106	6.107	-0.001	86	184718	51.5	
90 m-Xylene & p-Xylene	91	6.197	6.198	-0.001	99	727106	49.4	
91 o-Xylene	91	6.556	6.551	0.005	96	719135	49.3	
92 Styrene	104	6.580	6.582	-0.002	95	597639	50.3	
93 Bromoform	173	6.769	6.770	-0.001	97	112998	41.3	
94 Isopropylbenzene	105	6.872	6.874	-0.002	95	980391	52.6	
95 Bromobenzene	77	7.189	7.184	0.005	91	330356	45.0	
96 1,1,2,2-Tetrachloroethane	83	7.231	7.226	0.005	87	199768	45.3	
97 N-Propylbenzene	91	7.256	7.251	0.005	97	1164336	50.7	
98 1,2,3-Trichloropropane	110	7.268	7.269	-0.001	82	65453	43.4	
99 trans-1,4-Dichloro-2-butene	53	7.286	7.287	-0.001	55	45309	34.3	
100 2-Chlorotoluene	91	7.359	7.360	-0.001	97	609916	46.3	
101 1,3,5-Trimethylbenzene	105	7.426	7.427	-0.001	93	762576	48.8	
102 4-Chlorotoluene	91	7.469	7.470	-0.001	95	656605	47.4	
103 tert-Butylbenzene	119	7.718	7.713	0.005	91	686887	50.6	
104 Pentachloroethane	167	7.773	7.780	-0.007	10	1704	1.02	
105 1,2,4-Trimethylbenzene	105	7.785	7.780	0.005	97	781044	49.3	
106 sec-Butylbenzene	105	7.931	7.926	0.005	94	1015734	50.8	
107 4-Isopropyltoluene	119	8.071	8.072	-0.001	96	882059	50.9	
108 1,3-Dichlorobenzene	146	8.071	8.072	-0.001	69	429925	49.6	
109 1,4-Dichlorobenzene	146	8.162	8.163	-0.001	95	436732	49.5	
110 1,2,3-Trimethylbenzene	105	8.186	8.181	0.005	0	759702	47.6	
111 Benzyl chloride	91	8.302	8.303	-0.001	98	225920	27.2	
112 n-Butylbenzene	91	8.466	8.467	-0.001	97	735863	49.1	
113 1,2-Dichlorobenzene	146	8.521	8.522	-0.001	98	390689	49.4	
114 1,2-Dibromo-3-Chloropropane	157	9.300	9.301	-0.001	85	40054	37.7	
115 1,3,5-Trichlorobenzene	180	9.452	9.459	-0.007	97	257495	50.2	
116 1,2,4-Trichlorobenzene	180	10.157	10.159	-0.002	90	222351	50.1	
117 Hexachlorobutadiene	225	10.316	10.317	-0.001	94	116813	49.0	
118 Naphthalene	128	10.456	10.463	-0.007	97	749499	54.4	
119 1,2,3-Trichlorobenzene	180	10.760	10.761	-0.001	94	199439	48.8	
120 2-Methylnaphthalene	142	11.697	11.698	-0.001	90	62866	12.2	
121 1-Methylnaphthalene	142	11.873	11.879	-0.006	87	45311	6.22	
S 134 Xylenes, Total	1				0		98.6	
S 135 1,2-Dichloroethene, Total	1				0		97.2	

Report Date: 14-Nov-2013 10:56:57 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\HP33\20131113-28397.b\11131350.D				
Injection Date:	14-Nov-2013 07:12:30	Instrument ID:	HP33	Operator ID:	JJR
Lims ID:	490-39480-E-1 MS	Lab Sample ID:	490-39480-1	Worklist Smp#:	22
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	50
Method:	8260HP33	Limit Group:	MSV 8260B ICAL		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39437-2

SDG No.:

Client Sample ID: | Lab Sample ID: 490-39480-F-1 MSD

Matrix: Water | Lab File ID: 11131351.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/14/2013 07:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121717 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	194.7		5.00	2.66
71-43-2	Benzene	51.78		1.00	0.200
74-97-5	Bromochloromethane	50.06		1.00	0.150
75-27-4	Bromodichloromethane	50.40		1.00	0.170
75-25-2	Bromoform	42.27		1.00	0.290
74-83-9	Bromomethane	42.52		1.00	0.350
78-93-3	2-Butanone (MEK)	210.0		50.0	2.64
75-15-0	Carbon disulfide	46.04		1.00	0.220
56-23-5	Carbon tetrachloride	51.97		1.00	0.180
108-90-7	Chlorobenzene	50.26		1.00	0.180
124-48-1	Chlorodibromomethane	42.77		1.00	0.250
75-00-3	Chloroethane	47.56		1.00	0.360
67-66-3	Chloroform	46.23		1.00	0.230
74-87-3	Chloromethane	42.82		1.00	0.360
156-59-2	cis-1,2-Dichloroethene	48.75		1.00	0.210
10061-01-5	cis-1,3-Dichloropropene	52.14		1.00	0.170
110-82-7	Cyclohexane	52.64		5.00	0.220
96-12-8	1,2-Dibromo-3-Chloropropane	41.93		10.0	0.940
106-93-4	1,2-Dibromoethane (EDB)	45.99		1.00	0.210
95-50-1	1,2-Dichlorobenzene	50.53		1.00	0.190
541-73-1	1,3-Dichlorobenzene	50.23		1.00	0.180
106-46-7	1,4-Dichlorobenzene	49.58		1.00	0.170
75-71-8	Dichlorodifluoromethane	46.80		1.00	0.170
75-34-3	1,1-Dichloroethane	48.46		1.00	0.240
107-06-2	1,2-Dichloroethane	44.39		1.00	0.200
75-35-4	1,1-Dichloroethene	53.32		1.00	0.250
78-87-5	1,2-Dichloropropane	48.39		1.00	0.250
100-41-4	Ethylbenzene	49.81		1.00	0.190
591-78-6	2-Hexanone	233.8		5.00	1.28
98-82-8	Isopropylbenzene	52.96		1.00	0.330
79-20-9	Methyl acetate	153.4		10.0	0.720
108-87-2	Methylcyclohexane	51.32		5.00	0.200
75-09-2	Methylene Chloride	47.04		5.00	0.220
108-10-1	4-Methyl-2-pentanone (MIBK)	258.1		5.00	0.810
1634-04-4	Methyl tert-butyl ether	44.68		1.00	0.170
103-65-1	N-Propylbenzene	51.58		1.00	0.170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39437-2

SDG No.:

Client Sample ID: | Lab Sample ID: 490-39480-F-1 MSD

Matrix: Water | Lab File ID: 11131351.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/14/2013 07:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 121717 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-42-5	Styrene	50.40		1.00	0.280
79-34-5	1,1,2,2-Tetrachloroethane	45.65		1.00	0.190
127-18-4	Tetrachloroethene	51.94		1.00	0.140
109-99-9	Tetrahydrofuran	73.68		5.00	2.84
108-88-3	Toluene	54.45		1.00	0.170
156-60-5	trans-1,2-Dichloroethene	47.52		1.00	0.230
10061-02-6	trans-1,3-Dichloropropene	48.47		1.00	0.170
120-82-1	1,2,4-Trichlorobenzene	56.25		1.00	0.200
71-55-6	1,1,1-Trichloroethane	49.15		1.00	0.190
79-00-5	1,1,2-Trichloroethane	48.11		1.00	0.190
79-01-6	Trichloroethene	51.47		1.00	0.200
75-69-4	Trichlorofluoromethane	50.95		1.00	0.210
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	51.79		1.00	0.330
75-01-4	Vinyl chloride	48.84		1.00	0.180
1330-20-7	Xylenes, Total	98.47		2.00	0.380

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		70-130
1868-53-7	Dibromofluoromethane (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		70-130
2037-26-5	Toluene-d8 (Surr)	104		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\HP33\20131113-28397.b\11131351.D
Lims ID: 490-39480-F-1 MSD Lab Sample ID: 490-39480-1
Client ID:
Sample Type: MSD
Inject. Date: 14-Nov-2013 07:39:30 ALS Bottle#: 51 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 490-39480-F-1 MSD
Misc. Info.: 490-0028397-023
Operator ID: JJR Instrument ID: HP33

Method: \\Nvlchrom\ChromData\HP33\20131113-28397.b\8260HP33.m
Limit Group: MSV 8260B ICAL
Last Update: 14-Nov-2013 11:02:20 Calib Date: 19-Oct-2013 00:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\HP33\20131018-26993.b\10181313.D

Column 1 : Detector MS SCAN
Process Host: XAWRK035

First Level Reviewer: redmondj Date: 14-Nov-2013 11:02:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.690	3.686	0.004	99	514361	30.0	
* 2 Chlorobenzene-d5	117	6.002	6.004	-0.002	84	352368	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.143	8.139	0.004	93	167458	30.0	
$ 4 Dibromofluoromethane (Surr)	111	3.271	3.272	-0.001	78	123369	30.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	3.508	3.503	0.005	85	126978	26.2	
$ 6 Toluene-d8 (Surr)	98	4.804	4.805	-0.001	90	491320	31.3	
$ 7 4-Bromofluorobenzene (Surr)	95	7.061	7.062	-0.001	90	168681	28.8	
9 Dichlorodifluoromethane	85	1.172	1.167	0.005	88	213453	46.8	
10 Chloromethane	50	1.287	1.295	-0.008	99	186500	42.8	
11 Vinyl chloride	62	1.336	1.338	-0.002	83	229801	48.8	
12 Butadiene	54	1.354	1.356	-0.002	0	216837	48.2	
13 Bromomethane	96	1.518	1.520	-0.002	90	79621	42.5	
14 Chloroethane	64	1.567	1.569	-0.002	99	150214	47.6	
15 Dichlorofluoromethane	67	1.677	1.678	-0.001	82	359267	47.8	
16 Trichlorofluoromethane	101	1.689	1.690	-0.001	88	315478	51.0	
18 Ethyl ether	59	1.841	1.836	0.005	91	152780	44.4	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	1.944	1.946	-0.002	86	190458	51.8	
20 Acrolein	56	1.950	1.952	-0.002	92	56867	85.1	
21 1,1-Dichloroethene	96	1.975	1.976	-0.001	98	178452	53.3	
22 Acetone	58	2.029	2.031	-0.002	100	81904	194.7	
23 Iodomethane	142	2.072	2.074	-0.002	98	147966	48.6	
17 Ethanol	45	2.096	2.086	0.010	56	78884	881.2	
25 Isopropyl alcohol	45	2.096	2.086	0.010	75	78884	432.9	
24 Ethyl bromide	108	2.103	2.088	0.014	1	4519	1.78	
26 Carbon disulfide	76	2.103	2.104	-0.002	100	517982	46.0	
27 3-Chloro-1-propene	76	2.176	2.177	-0.001	85	147639	56.1	
29 Acetonitrile	41	2.176	2.177	-0.001	69	212367	409.7	
28 Methyl acetate	43	2.182	2.183	-0.001	97	656944	153.4	
30 Methylene Chloride	84	2.255	2.256	-0.001	83	190602	47.0	
31 2-Methyl-2-propanol	59	2.303	2.299	0.004	95	131037	438.6	
32 Methyl tert-butyl ether	73	2.364	2.366	-0.002	88	526762	44.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
33 trans-1,2-Dichloroethene	61	2.382	2.384	-0.002	96	265078	47.5	
34 Acrylonitrile	53	2.425	2.420	0.005	97	732216	424.2	
35 Hexane	57	2.486	2.481	0.005	87	274966	41.3	
36 Isopropyl ether	45	2.620	2.621	-0.001	93	628230	42.9	
37 1,1-Dichloroethane	63	2.638	2.639	-0.001	82	359163	48.5	
38 Vinyl acetate	43	2.644	2.646	-0.002	97	881606	78.7	
39 2-Chloro-1,3-butadiene	53	2.674	2.670	0.004	89	304728	46.6	
40 Tert-butyl ethyl ether	59	2.826	2.828	-0.002	98	553866	42.9	
41 2,2-Dichloropropane	77	2.966	2.968	-0.002	89	231136	39.4	
42 cis-1,2-Dichloroethene	61	2.985	2.986	-0.001	69	340387	48.8	
44 Ethyl acetate	43	2.997	2.992	0.005	95	659598	93.5	
43 2-Butanone (MEK)	72	2.997	2.998	-0.001	97	106594	210.0	
45 Propionitrile	54	3.082	3.077	0.005	98	266535	422.4	
46 Chlorobromomethane	130	3.137	3.138	-0.001	81	108474	50.1	
47 Methacrylonitrile	41	3.143	3.144	-0.001	92	1213575	401.9	
48 Tetrahydrofuran	42	3.143	3.150	-0.007	28	148911	73.7	
49 Chloroform	83	3.167	3.169	-0.002	71	328184	46.2	
52 tert-Butyl Formate	59	3.264	3.265	-0.001	26	3701	0.8397	
50 Cyclohexane	56	3.264	3.266	-0.002	92	407194	52.6	
51 1,1,1-Trichloroethane	97	3.264	3.266	-0.002	92	286576	49.2	
53 Carbon tetrachloride	117	3.350	3.351	-0.001	83	252089	52.0	
54 1,1-Dichloropropene	75	3.368	3.369	-0.001	95	263946	49.5	
55 Isobutyl alcohol	43	3.459	3.461	-0.002	95	185929	462.1	
56 Benzene	78	3.502	3.497	0.005	97	860043	51.8	
57 t-Amyl alcohol	59	3.544	3.532	0.012	39	12445	36.4	
58 Tert-amyl methyl ether	73	3.544	3.546	-0.002	98	503940	43.4	
59 1,2-Dichloroethane	62	3.556	3.558	-0.002	89	238247	44.4	
60 n-Heptane	43	3.599	3.595	0.004	90	260539	37.1	
61 n-Butanol	56	3.909	3.911	-0.002	89	100849	1120.9	
62 Trichloroethene	130	3.928	3.929	-0.001	98	209849	51.5	
64 Cyclohexanone	55	4.007	4.008	-0.001	76	528619	442.8	
63 Ethyl acrylate	55	4.007	4.008	-0.001	0	528619	44.3	
65 Methylcyclohexane	83	4.013	4.014	-0.001	93	384525	51.3	
66 1,2-Dichloropropane	63	4.116	4.118	-0.002	96	209625	48.4	
68 Methyl methacrylate	41	4.165	4.166	-0.001	89	343922	81.2	
69 Dibromomethane	93	4.207	4.203	0.004	90	111456	47.7	
70 1,4-Dioxane	88	4.213	4.209	0.004	12	37080	1064.1	
71 Dichlorobromomethane	83	4.305	4.306	-0.001	94	247892	50.4	
72 2-Nitropropane	43	4.518	4.519	-0.001	98	102998	58.2	
74 cis-1,3-Dichloropropene	75	4.639	4.635	0.004	93	301384	52.1	
75 4-Methyl-2-pentanone (MIBK)	58	4.743	4.744	-0.001	96	397180	258.1	
76 Toluene	91	4.852	4.854	-0.002	98	900711	54.4	
77 trans-1,3-Dichloropropene	75	5.083	5.085	-0.002	92	238144	48.5	
78 Ethyl methacrylate	69	5.102	5.103	-0.001	89	264663	52.1	
79 1,1,2-Trichloroethane	97	5.229	5.231	-0.002	92	157979	48.1	
80 Tetrachloroethene	166	5.272	5.274	-0.002	86	221112	51.9	
81 1,3-Dichloropropane	76	5.369	5.371	-0.002	90	279850	46.8	
82 2-Hexanone	58	5.412	5.413	-0.001	96	331000	233.8	
83 n-Butyl acetate	43	5.485	5.486	-0.001	99	213594	70.5	
84 Chlorodibromomethane	127	5.534	5.529	0.005	88	136223	42.8	
85 Ethylene Dibromide	107	5.637	5.639	-0.002	100	159400	46.0	
86 1-Chlorohexane	91	6.008	6.002	0.006	21	1015	0.1381	

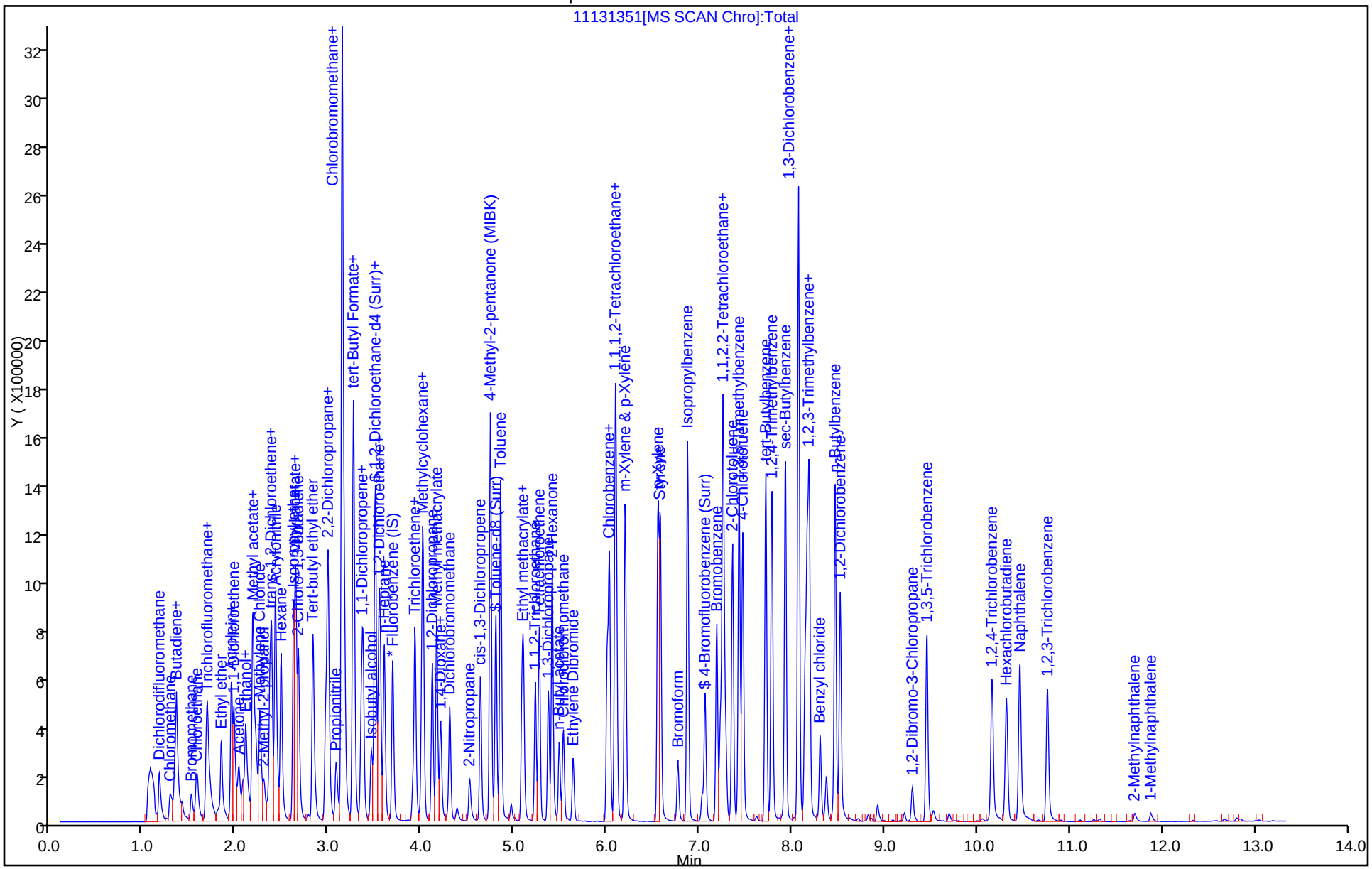
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
87 Chlorobenzene	112	6.026	6.028	-0.002	94	549235	50.3	
88 Ethylbenzene	91	6.093	6.095	-0.002	98	955156	49.8	
89 1,1,1,2-Tetrachloroethane	131	6.105	6.107	-0.002	85	187505	51.7	
90 m-Xylene & p-Xylene	91	6.197	6.198	-0.001	99	727414	48.9	
91 o-Xylene	91	6.556	6.556	0.005	96	731665	49.6	
92 Styrene	104	6.580	6.582	-0.002	95	604648	50.4	
93 Bromoform	173	6.769	6.770	-0.001	97	116982	42.3	
94 Isopropylbenzene	105	6.872	6.874	-0.002	95	996631	53.0	
95 Bromobenzene	77	7.188	7.184	0.004	90	339850	46.2	
96 1,1,2,2-Tetrachloroethane	83	7.225	7.226	-0.001	87	201865	45.7	
97 N-Propylbenzene	91	7.255	7.251	0.004	97	1187889	51.6	
98 1,2,3-Trichloropropane	110	7.267	7.269	-0.002	75	67703	44.7	
99 trans-1,4-Dichloro-2-butene	53	7.286	7.287	-0.001	56	50772	38.4	
100 2-Chlorotoluene	91	7.359	7.360	-0.001	97	633317	47.9	
101 1,3,5-Trimethylbenzene	105	7.432	7.427	0.005	93	773763	49.3	
102 4-Chlorotoluene	91	7.468	7.470	-0.002	96	675372	48.6	
103 tert-Butylbenzene	119	7.718	7.713	0.005	92	697431	51.2	
105 1,2,4-Trimethylbenzene	105	7.784	7.780	0.004	97	787367	49.5	
106 sec-Butylbenzene	105	7.930	7.926	0.004	94	1048679	52.3	
107 4-Isopropyltoluene	119	8.070	8.072	-0.002	96	904846	52.1	
108 1,3-Dichlorobenzene	146	8.070	8.072	-0.002	68	436802	50.2	
109 1,4-Dichlorobenzene	146	8.162	8.163	-0.001	95	438531	49.6	
110 1,2,3-Trimethylbenzene	105	8.186	8.181	0.005	0	772765	48.3	
111 Benzyl chloride	91	8.302	8.303	-0.001	98	232378	27.7	
112 n-Butylbenzene	91	8.466	8.467	-0.001	94	760602	50.6	
113 1,2-Dichlorobenzene	146	8.521	8.522	-0.001	97	400885	50.5	
114 1,2-Dibromo-3-Chloropropane	157	9.299	9.301	-0.002	86	44839	41.9	
115 1,3,5-Trichlorobenzene	180	9.457	9.459	-0.002	97	280577	54.5	
116 1,2,4-Trichlorobenzene	180	10.157	10.159	-0.002	92	250591	56.3	
117 Hexachlorobutadiene	225	10.315	10.317	-0.002	97	128789	53.9	
118 Naphthalene	128	10.461	10.463	-0.002	97	717757	52.0	
119 1,2,3-Trichlorobenzene	180	10.759	10.761	-0.002	94	226387	55.2	
120 2-Methylnaphthalene	142	11.702	11.698	0.004	83	23727	7.44	
121 1-Methylnaphthalene	142	11.873	11.879	-0.006	81	21003	3.42	
S 134 Xylenes, Total	1				0		98.5	
S 135 1,2-Dichloroethene, Total	1				0		96.3	

Report Date: 14-Nov-2013 11:02:25 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\HP33\20131113-28397.b\11131351.D

Injection Date:	14-Nov-2013 07:39:30	Instrument ID:	HP33	Operator ID:	JJR
Lims ID:	490-39480-F-1 MSD	Lab Sample ID:	490-39480-1	Worklist Smp#:	23
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	51
Method:	8260HP33	Limit Group:	MSV 8260B ICAL		



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Instrument ID: HP33 Start Date: 10/18/2013 19:05

Analysis Batch Number: 115521 End Date: 10/19/2013 00:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-115521/1		10/18/2013 19:05	1	10181302.D	DB-624 0.18(mm)
STD0005 490-115521/2 IC		10/18/2013 20:11	1	10181304.D	DB-624 0.18(mm)
STD001 490-115521/3 IC		10/18/2013 20:38	1	10181305.D	DB-624 0.18(mm)
STD002 490-115521/4 IC		10/18/2013 21:05	1	10181306.D	DB-624 0.18(mm)
STD005 490-115521/5 IC		10/18/2013 21:32	1	10181307.D	DB-624 0.18(mm)
STD010 490-115521/6 IC		10/18/2013 21:59	1	10181308.D	DB-624 0.18(mm)
ICIS 490-115521/7		10/18/2013 22:26	1	10181309.D	DB-624 0.18(mm)
STD050 490-115521/8 IC		10/18/2013 22:53	1	10181310.D	DB-624 0.18(mm)
ICV 490-115521/9		10/18/2013 23:20	1	10181311.D	DB-624 0.18(mm)
STD100 490-115521/10 IC		10/18/2013 23:47	1	10181312.D	DB-624 0.18(mm)
STD200 490-115521/11 IC		10/19/2013 00:14	1	10181313.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Instrument ID: HP33 Start Date: 11/13/2013 21:21

Analysis Batch Number: 121717 End Date: 11/14/2013 07:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-121717/1		11/13/2013 21:21	1	11131328.D	DB-624 0.18(mm)
CCVIS 490-121717/2		11/13/2013 21:48	1	11131329.D	DB-624 0.18(mm)
LCS 490-121717/3		11/13/2013 22:15	1	11131330.D	DB-624 0.18(mm)
MB 490-121717/4		11/13/2013 23:08	1	11131332.D	DB-624 0.18(mm)
490-39437-4	Trip Blank	11/13/2013 23:35	1	11131333.D	DB-624 0.18(mm)
ZZZZZ		11/14/2013 00:02	1		DB-624 0.18(mm)
490-39437-1	MW-06-GW-001	11/14/2013 00:29	1	11131335.D	DB-624 0.18(mm)
490-39437-3	MW-07-GW-001	11/14/2013 00:56	1	11131336.D	DB-624 0.18(mm)
ZZZZZ		11/14/2013 02:43	1		DB-624 0.18(mm)
490-39480-E-1 MS		11/14/2013 07:12	1	11131350.D	DB-624 0.18(mm)
490-39480-F-1 MSD		11/14/2013 07:39	1	11131351.D	DB-624 0.18(mm)

Method 8270C

Semivolatile Organic Compounds (GC/MS) by Method 8270C

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Matrix: Water Level: Low

GC Column (1): ZB-5MSi ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPH #
MW-06-GW-001	490-39437-1	45	27	80	80	89	78
MW-07-GW-001	490-39437-3	42	26	76	75	82	77
	MB 490-120924/1-A	44	27	79	76	82	88
	LCS 490-120924/2-A	45	27	78	75	83	83

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	10-120
PHL = Phenol-d5 (Surr)	10-120
NBZ = Nitrobenzene-d5 (Surr)	27-120
FBP = 2-Fluorobiphenyl (Surr)	29-120
TBP = 2,4,6-Tribromophenol (Surr)	10-120
TPH = Terphenyl-d14 (Surr)	13-120

Column to be used to flag recovery values

FORM II 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 1111007.D

Lab ID: LCS 490-120924/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	50.0	38.49	77	46-120	
Acenaphthylene	50.0	38.28	77	48-120	
Acetophenone	50.0	37.31	75	52-133	
Anthracene	50.0	39.80	80	58-130	
Atrazine	50.0	41.18	82	24-133	
Benzaldehyde	50.0	55.83	112	34-120	
Benzo[a]anthracene	50.0	39.01	78	57-120	
Benzo[a]pyrene	50.0	38.40	77	57-124	
Benzo[b]fluoranthene	50.0	38.31	77	51-125	
Benzo[g,h,i]perylene	50.0	39.54	79	51-123	
Benzo[k]fluoranthene	50.0	38.18	76	51-120	
Biphenyl	50.0	37.14	74	10-146	
Bis(2-chloroethoxy)methane	50.0	37.90	76	44-120	
Bis(2-chloroethyl)ether	50.0	34.53	69	47-120	
bis (2-chloroisopropyl) ether	50.0	26.72	53	44-120	
Bis(2-ethylhexyl) phthalate	50.0	42.53	85	47-138	
4-Bromophenyl phenyl ether	50.0	42.86	86	47-127	
Butyl benzyl phthalate	50.0	41.02	82	51-146	
Caprolactam	50.0	9.909 J	20	10-120	
Carbazole	50.0	38.82	78	54-123	
4-Chloroaniline	50.0	39.44	79	44-120	
4-Chloro-3-methylphenol	50.0	39.82	80	44-120	
2-Chloronaphthalene	50.0	37.57	75	39-120	
2-Chlorophenol	50.0	36.50	73	40-120	
4-Chlorophenyl phenyl ether	50.0	38.72	77	50-120	
Chrysene	50.0	39.24	78	55-120	
Dibenz(a,h)anthracene	50.0	39.70	79	50-125	
Dibenzofuran	50.0	38.11	76	50-120	
3,3'-Dichlorobenzidine	50.0	38.98	78	46-129	
2,4-Dichlorophenol	50.0	40.94	82	38-120	
Diethyl phthalate	50.0	40.43	81	54-128	
2,4-Dimethylphenol	50.0	36.73	73	21-126	
Dimethyl phthalate	50.0	39.86	80	53-127	
Di-n-butyl phthalate	50.0	42.43	85	54-140	
4,6-Dinitro-2-methylphenol	100	80.33	80	19-150	
2,4-Dinitrophenol	100	74.15	74	20-150	
2,4-Dinitrotoluene	50.0	38.86	78	46-132	
2,6-Dinitrotoluene	50.0	40.06	80	54-128	
Di-n-octyl phthalate	50.0	41.88	84	50-142	
Fluoranthene	50.0	38.40	77	56-120	
Fluorene	50.0	38.92	78	52-120	
Hexachlorobenzene	50.0	40.48	81	48-131	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Matrix: Water Level: Low Lab File ID: 1111007.D

Lab ID: LCS 490-120924/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Hexachlorobutadiene	50.0	31.73	63	28-120	
Hexachlorocyclopentadiene	50.0	35.14	70	17-120	
Hexachloroethane	50.0	27.69	55	30-120	
Indeno[1,2,3-cd]pyrene	50.0	33.02	66	54-125	
Isophorone	50.0	40.56	81	47-120	
2-Methylnaphthalene	50.0	35.49	71	31-120	
2-Methylphenol	50.0	32.34	65	38-120	
3 & 4 Methylphenol	50.0	29.57	59	33-120	
Naphthalene	50.0	33.79	68	37-120	
2-Nitroaniline	50.0	40.85	82	46-131	
3-Nitroaniline	50.0	36.46	73	54-121	
4-Nitroaniline	50.0	35.67	71	55-123	
Nitrobenzene	50.0	40.22	80	36-120	
2-Nitrophenol	50.0	41.63	83	32-120	
4-Nitrophenol	100	29.74	30	10-120	
N-Nitrosodi-n-propylamine	50.0	38.02	76	51-120	
n-Nitrosodiphenylamine(as diphenylamine)	50.0	51.13	102	58-149	
Pentachlorophenol	100	78.10	78	21-150	
Phenanthrene	50.0	38.89	78	56-120	
Phenol	50.0	14.67	29	14-120	
Pyrene	50.0	40.52	81	53-129	
2,4,5-Trichlorophenol	50.0	41.83	84	40-129	
2,4,6-Trichlorophenol	50.0	42.44	85	39-135	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Lab File ID: 1111006.D Lab Sample ID: MB 490-120924/1-A

Matrix: Water Date Extracted: 11/11/2013 08:54

Instrument ID: HP31 Date Analyzed: 11/11/2013 16:49

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 490-120924/2-A	1111007.D	11/11/2013 17:12
MW-06-GW-001	490-39437-1	1111009.D	11/11/2013 18:45
MW-07-GW-001	490-39437-3	1111010.D	11/11/2013 19:09

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Lab File ID: 1022002.D DFTPP Injection Date: 10/22/2013

Instrument ID: HP31 DFTPP Injection Time: 16:47

Analysis Batch No.: 116166

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	33.6	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	36.3	
70	Less than 2.0 % of mass 69	0.2	(0.4)1
127	40.0 - 60.0 % of mass 198	50.0	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.8	
275	10.0 - 30.0 % of mass 198	27.1	
365	Greater than 1.0 % of mass 198	3.2	
441	Present but less than mass 443	13.8	(71.5)3
442	Greater than 40.0 % of mass 198	97.1	
443	17.0 - 23.0 % of mass 442	19.3	(19.9)2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD 490-116166/3	1022003.D	10/22/2013	17:06
	STD 490-116166/6	1022004.D	10/22/2013	17:28
	STD 490-116166/7	1022005.D	10/22/2013	17:51
	STD 490-116166/8	1022006.D	10/22/2013	18:14
	ICIS 490-116166/9	1022007.D	10/22/2013	18:37
	STD 490-116166/10	1022008.D	10/22/2013	19:00
	STD 490-116166/11	1022009.D	10/22/2013	19:23
	ICV 490-116166/12	1022010.D	10/22/2013	19:45

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Lab File ID: 1111002.D DFTPP Injection Date: 11/11/2013

Instrument ID: HP31 DFTPP Injection Time: 15:21

Analysis Batch No.: 121052

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	30.2	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	33.1	
70	Less than 2.0 % of mass 69	0.2	(0.5)1
127	40.0 - 60.0 % of mass 198	47.8	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	7.1	
275	10.0 - 30.0 % of mass 198	28.8	
365	Greater than 1.0 % of mass 198	3.9	
441	Present but less than mass 443	17.6	(75.2)3
442	Greater than 40.0 % of mass 198	119.2	
443	17.0 - 23.0 % of mass 442	23.4	(19.7)2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 490-121052/3	1111003.D	11/11/2013	15:40
	CCV 490-121052/4	1111004.D	11/11/2013	16:03
	CCV 490-121052/5	1111005.D	11/11/2013	16:26
	MB 490-120924/1-A	1111006.D	11/11/2013	16:49
	LCS 490-120924/2-A	1111007.D	11/11/2013	17:12
MW-06-GW-001	490-39437-1	1111009.D	11/11/2013	18:45
MW-07-GW-001	490-39437-3	1111010.D	11/11/2013	19:09

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Sample No.: ICIS 490-116166/9 Date Analyzed: 10/22/2013 18:37

Instrument ID: HP31 GC Column: ZB-5MSi ID: 0.25(mm)

Lab File ID (Standard): 1022007.D Heated Purge: (Y/N) N

Calibration ID: 19839

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		156210	4.01	634089	4.80	437485	6.08
UPPER LIMIT		312420	4.51	1268178	5.30	874970	6.58
LOWER LIMIT		78105	3.51	317045	4.30	218743	5.58
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 490-116166/12		162920	4.01	658661	4.80	457210	6.08
CCVIS 490-121052/3		216494	3.81	805032	4.60	526176	5.83
CCV 490-121052/4		233156	3.81	855463	4.60	542729	5.83
CCV 490-121052/5		231326	3.81	856763	4.60	520160	5.82

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Sample No.: ICIS 490-116166/9 Date Analyzed: 10/22/2013 18:37

Instrument ID: HP31 GC Column: ZB-5MSi ID: 0.25(mm)

Lab File ID (Standard): 1022007.D Heated Purge: (Y/N) N

Calibration ID: 19839

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		793410	7.53	912421	10.59	914700	12.18
UPPER LIMIT		1586820	8.03	1824842	11.09	1829400	12.68
LOWER LIMIT		396705	7.03	456211	10.09	457350	11.68
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 490-116166/12		818414	7.53	937022	10.59	955277	12.18
CCVIS 490-121052/3		914728	7.24	1036025	10.27	1061086	11.85
CCV 490-121052/4		915843	7.24	993286	10.26	1002960	11.84
CCV 490-121052/5		865506	7.23	954992	10.26	969035	11.84

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Sample No.: CCVIS 490-121052/3 Date Analyzed: 11/11/2013 15:40

Instrument ID: HP31 GC Column: ZB-5MSi ID: 0.25(mm)

Lab File ID (Standard): 1111003.D Heated Purge: (Y/N) N

Calibration ID: 20283

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		216494	3.81	805032	4.60	526176	5.83
UPPER LIMIT		432988	4.31	1610064	5.10	1052352	6.33
LOWER LIMIT		108247	3.31	402516	4.10	263088	5.33
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 490-121052/4		233156	3.81	855463	4.60	542729	5.83
CCV 490-121052/5		231326	3.81	856763	4.60	520160	5.82
MB 490-120924/1-A		254889	3.81	960970	4.59	592515	5.82
LCS 490-120924/2-A		225864	3.80	860283	4.59	568468	5.82
490-39437-1	MW-06-GW-001	236027	3.81	903080	4.59	589853	5.82
490-39437-3	MW-07-GW-001	219519	3.81	845876	4.59	543089	5.82

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Sample No.: CCVIS 490-121052/3 Date Analyzed: 11/11/2013 15:40

Instrument ID: HP31 GC Column: ZB-5MSi ID: 0.25(mm)

Lab File ID (Standard): 1111003.D Heated Purge: (Y/N) N

Calibration ID: 20283

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		914728	7.24	1036025	10.27	1061086	11.85
UPPER LIMIT		1829456	7.74	2072050	10.77	2122172	12.35
LOWER LIMIT		457364	6.74	518013	9.77	530543	11.35
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 490-121052/4		915843	7.24	993286	10.26	1002960	11.84
CCV 490-121052/5		865506	7.23	954992	10.26	969035	11.84
MB 490-120924/1-A		1002927	7.23	1105656	10.26	1095070	11.84
LCS 490-120924/2-A		975673	7.23	1097693	10.27	1121572	11.85
490-39437-1	MW-06-GW-001	1033498	7.23	1170228	10.26	1197587	11.84
490-39437-3	MW-07-GW-001	943631	7.23	1058534	10.26	1069587	11.84

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39437-2

SDG No.:

Client Sample ID: MW-06-GW-001 | Lab Sample ID: 490-39437-1

Matrix: Water | Lab File ID: 1111009.D

Analysis Method: 8270C | Date Collected: 11/04/2013 13:25

Extract. Method: 3510C | Date Extracted: 11/11/2013 08:54

Sample wt/vol: 1070(mL) | Date Analyzed: 11/11/2013 18:45

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121052 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		1.87	0.342
208-96-8	Acenaphthylene	ND		1.87	0.308
98-86-2	Acetophenone	ND		9.35	1.78
120-12-7	Anthracene	ND		1.87	0.825
1912-24-9	Atrazine	ND		9.35	3.46
100-52-7	Benzaldehyde	ND		9.35	2.01
56-55-3	Benzo[a]anthracene	ND		1.87	0.303
50-32-8	Benzo[a]pyrene	ND		1.87	0.308
205-99-2	Benzo[b]fluoranthene	ND		1.87	0.394
191-24-2	Benzo[g,h,i]perylene	ND		1.87	0.268
207-08-9	Benzo[k]fluoranthene	ND		1.87	0.340
92-52-4	Biphenyl	ND		9.35	3.11
111-91-1	Bis(2-chloroethoxy)methane	ND		9.35	1.27
111-44-4	Bis(2-chloroethyl)ether	ND		9.35	1.30
108-60-1	bis (2-chloroisopropyl) ether	ND		9.35	1.83
117-81-7	Bis(2-ethylhexyl) phthalate	ND		9.35	1.93
101-55-3	4-Bromophenyl phenyl ether	ND		9.35	1.28
85-68-7	Butyl benzyl phthalate	ND		9.35	1.63
105-60-2	Caprolactam	ND		9.35	3.11
86-74-8	Carbazole	ND		9.35	0.279
106-47-8	4-Chloroaniline	ND		9.35	1.09
59-50-7	4-Chloro-3-methylphenol	ND		9.35	3.11
91-58-7	2-Chloronaphthalene	ND		9.35	1.53
95-57-8	2-Chlorophenol	ND		9.35	1.49
7005-72-3	4-Chlorophenyl phenyl ether	ND		9.35	1.64
218-01-9	Chrysene	ND		1.87	1.02
53-70-3	Dibenz(a,h)anthracene	ND		1.87	0.602
132-64-9	Dibenzofuran	ND		9.35	0.317
91-94-1	3,3'-Dichlorobenzidine	ND		9.35	1.42
120-83-2	2,4-Dichlorophenol	ND		9.35	0.953
84-66-2	Diethyl phthalate	ND		9.35	1.51
105-67-9	2,4-Dimethylphenol	ND		9.35	0.931
131-11-3	Dimethyl phthalate	ND		9.35	1.69
84-74-2	Di-n-butyl phthalate	ND		9.35	1.40

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39437-2

SDG No.:

Client Sample ID: MW-06-GW-001 | Lab Sample ID: 490-39437-1

Matrix: Water | Lab File ID: 1111009.D

Analysis Method: 8270C | Date Collected: 11/04/2013 13:25

Extract. Method: 3510C | Date Extracted: 11/11/2013 08:54

Sample wt/vol: 1070(mL) | Date Analyzed: 11/11/2013 18:45

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121052 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
534-52-1	4,6-Dinitro-2-methylphenol	ND		23.4	1.93
51-28-5	2,4-Dinitrophenol	ND		23.4	2.30
121-14-2	2,4-Dinitrotoluene	ND		9.35	3.11
606-20-2	2,6-Dinitrotoluene	ND		9.35	1.81
117-84-0	Di-n-octyl phthalate	ND		9.35	2.16
206-44-0	Fluoranthene	ND		1.87	0.324
86-73-7	Fluorene	ND		1.87	0.295
118-74-1	Hexachlorobenzene	ND		9.35	1.58
87-68-3	Hexachlorobutadiene	ND		9.35	3.11
77-47-4	Hexachlorocyclopentadiene	ND		9.35	3.11
67-72-1	Hexachloroethane	ND		9.35	3.11
193-39-5	Indeno[1,2,3-cd]pyrene	ND		1.87	0.356
78-59-1	Isophorone	ND		9.35	1.16
91-57-6	2-Methylnaphthalene	ND		1.87	0.291
95-48-7	2-Methylphenol	ND		9.35	3.11
15831-10-4	3 & 4 Methylphenol	ND		9.35	3.11
91-20-3	Naphthalene	ND		1.87	0.372
88-74-4	2-Nitroaniline	ND		23.4	0.972
99-09-2	3-Nitroaniline	ND		23.4	1.73
100-01-6	4-Nitroaniline	ND		23.4	2.23
98-95-3	Nitrobenzene	ND		9.35	1.16
88-75-5	2-Nitrophenol	ND		9.35	1.47
100-02-7	4-Nitrophenol	ND		23.4	3.11
621-64-7	N-Nitrosodi-n-propylamine	ND		9.35	1.33
86-30-6	n-Nitrosodiphenylamine(as diphenylamine)	ND		9.35	1.35
87-86-5	Pentachlorophenol	ND		23.4	1.54
85-01-8	Phenanthrene	ND		1.87	0.321
108-95-2	Phenol	ND		9.35	3.22
129-00-0	Pyrene	ND		1.87	0.309
95-95-4	2,4,5-Trichlorophenol	ND		23.4	1.90
88-06-2	2,4,6-Trichlorophenol	ND		9.35	1.64

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39437-2

SDG No.:

Client Sample ID: MW-06-GW-001 | Lab Sample ID: 490-39437-1

Matrix: Water | Lab File ID: 1111009.D

Analysis Method: 8270C | Date Collected: 11/04/2013 13:25

Extract. Method: 3510C | Date Extracted: 11/11/2013 08:54

Sample wt/vol: 1070(mL) | Date Analyzed: 11/11/2013 18:45

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121052 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	80		29-120
367-12-4	2-Fluorophenol (Surr)	45		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	80		27-120
4165-62-2	Phenol-d5 (Surr)	27		10-120
1718-51-0	Terphenyl-d14 (Surr)	78		13-120
118-79-6	2,4,6-Tribromophenol (Surr)	89		10-120

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\hp31\20131111-28238.b\1111009.D
Lims ID: 490-39437-V-1-A Lab Sample ID: 490-39437-1
Client ID: MW-06-GW-001
Sample Type: Client
Inject. Date: 11-Nov-2013 18:45:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 490-39437-V-1-A
Misc. Info.: 490-0028238-009
Operator ID: HP-31 Instrument ID: HP31

Method: \\Nvlchrom\ChromData\hp31\20131111-28238.b\8270HP31.m
Limit Group: MSS 8270C ICAL
Last Update: 12-Nov-2013 14:59:22 Calib Date: 04-Nov-2013 11:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\hp31\20131103-27806.b\1104019.D

Column 1 : Detector MS SCAN
Process Host: XAWRK011

First Level Reviewer: spryc Date: 12-Nov-2013 14:59:22

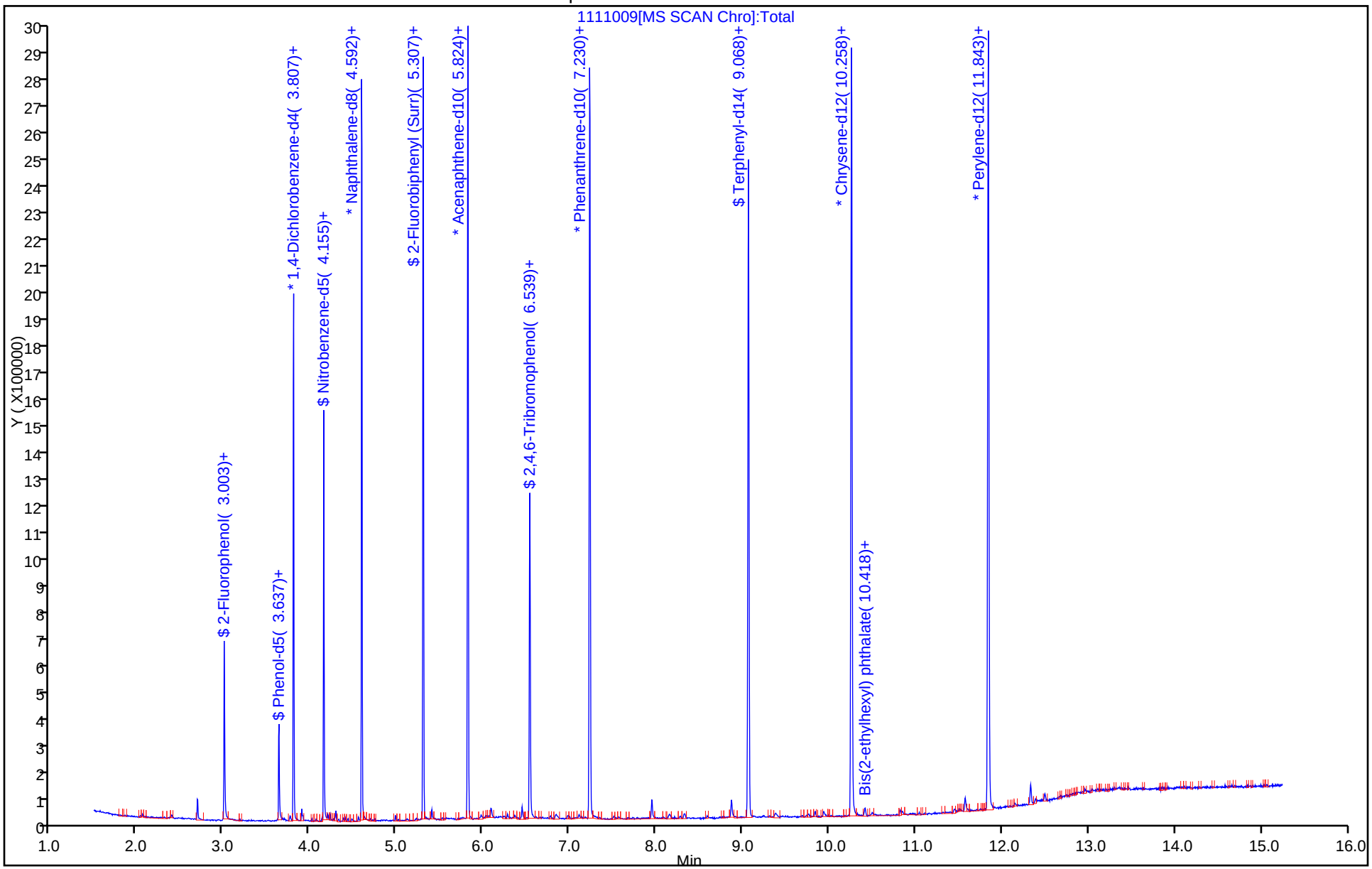
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.807	3.807	0.0	93	236027	40.0	
$ 11 2-Fluorophenol	112	3.003	3.006	-0.003	88	156418	22.6	
$ 15 Phenol-d5	99	3.637	3.636	0.001	0	126763	13.6	
* 37 Naphthalene-d8	136	4.592	4.597	-0.005	99	903080	40.0	
$ 46 Nitrobenzene-d5	82	4.155	4.158	-0.003	86	293684	39.8	
* 72 Acenaphthene-d10	164	5.824	5.824	0.0	90	589853	40.0	
$ 79 2-Fluorobiphenyl (Surr)	172	5.307	5.310	-0.003	99	718973	40.2	
* 106 Phenanthrene-d10	188	7.230	7.230	0.0	97	1033498	40.0	
$ 119 2,4,6-Tribromophenol	330	6.539	6.547	-0.008	91	137472	44.5	
* 140 Chrysene-d12	240	10.258	10.258	0.0	80	1170228	40.0	
$ 147 Terphenyl-d14	244	9.068	9.072	-0.004	96	868562	38.8	
154 Bis(2-ethylhexyl) phthalate	149	10.413	10.421	-0.008	87	10784	1.25	
* 156 Perylene-d12	264	11.843	11.843	0.0	86	1197587	40.0	

Report Date: 12-Nov-2013 14:59:22 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131111-28238.b\1111009.D

Injection Date:	11-Nov-2013 18:45:30	Instrument ID:	HP31	Operator ID:	HP-31
Lims ID:	490-39437-V-1-A	Lab Sample ID:	490-39437-1	Worklist Smp#:	9
Client ID:	MW-06-GW-001				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8270HP31	Limit Group:	MSS 8270C ICAL		



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39437-2

SDG No.:

Client Sample ID: MW-07-GW-001 | Lab Sample ID: 490-39437-3

Matrix: Water | Lab File ID: 1111010.D

Analysis Method: 8270C | Date Collected: 11/04/2013 15:28

Extract. Method: 3510C | Date Extracted: 11/11/2013 08:54

Sample wt/vol: 1070(mL) | Date Analyzed: 11/11/2013 19:09

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121052 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		1.87	0.342
208-96-8	Acenaphthylene	ND		1.87	0.308
98-86-2	Acetophenone	ND		9.35	1.78
120-12-7	Anthracene	ND		1.87	0.825
1912-24-9	Atrazine	ND		9.35	3.46
100-52-7	Benzaldehyde	ND		9.35	2.01
56-55-3	Benzo[a]anthracene	ND		1.87	0.303
50-32-8	Benzo[a]pyrene	ND		1.87	0.308
205-99-2	Benzo[b]fluoranthene	ND		1.87	0.394
191-24-2	Benzo[g,h,i]perylene	ND		1.87	0.268
207-08-9	Benzo[k]fluoranthene	ND		1.87	0.340
92-52-4	Biphenyl	ND		9.35	3.11
111-91-1	Bis(2-chloroethoxy)methane	ND		9.35	1.27
111-44-4	Bis(2-chloroethyl)ether	ND		9.35	1.30
108-60-1	bis (2-chloroisopropyl) ether	ND		9.35	1.83
117-81-7	Bis(2-ethylhexyl) phthalate	ND		9.35	1.93
101-55-3	4-Bromophenyl phenyl ether	ND		9.35	1.28
85-68-7	Butyl benzyl phthalate	ND		9.35	1.63
105-60-2	Caprolactam	ND		9.35	3.11
86-74-8	Carbazole	ND		9.35	0.279
106-47-8	4-Chloroaniline	ND		9.35	1.09
59-50-7	4-Chloro-3-methylphenol	ND		9.35	3.11
91-58-7	2-Chloronaphthalene	ND		9.35	1.53
95-57-8	2-Chlorophenol	ND		9.35	1.49
7005-72-3	4-Chlorophenyl phenyl ether	ND		9.35	1.64
218-01-9	Chrysene	ND		1.87	1.02
53-70-3	Dibenz(a,h)anthracene	ND		1.87	0.602
132-64-9	Dibenzofuran	ND		9.35	0.317
91-94-1	3,3'-Dichlorobenzidine	ND		9.35	1.42
120-83-2	2,4-Dichlorophenol	ND		9.35	0.953
84-66-2	Diethyl phthalate	ND		9.35	1.51
105-67-9	2,4-Dimethylphenol	ND		9.35	0.931
131-11-3	Dimethyl phthalate	ND		9.35	1.69
84-74-2	Di-n-butyl phthalate	ND		9.35	1.40

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39437-2

SDG No.:

Client Sample ID: MW-07-GW-001 | Lab Sample ID: 490-39437-3

Matrix: Water | Lab File ID: 1111010.D

Analysis Method: 8270C | Date Collected: 11/04/2013 15:28

Extract. Method: 3510C | Date Extracted: 11/11/2013 08:54

Sample wt/vol: 1070(mL) | Date Analyzed: 11/11/2013 19:09

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121052 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
534-52-1	4,6-Dinitro-2-methylphenol	ND		23.4	1.93
51-28-5	2,4-Dinitrophenol	ND		23.4	2.30
121-14-2	2,4-Dinitrotoluene	ND		9.35	3.11
606-20-2	2,6-Dinitrotoluene	ND		9.35	1.81
117-84-0	Di-n-octyl phthalate	ND		9.35	2.16
206-44-0	Fluoranthene	ND		1.87	0.324
86-73-7	Fluorene	ND		1.87	0.295
118-74-1	Hexachlorobenzene	ND		9.35	1.58
87-68-3	Hexachlorobutadiene	ND		9.35	3.11
77-47-4	Hexachlorocyclopentadiene	ND		9.35	3.11
67-72-1	Hexachloroethane	ND		9.35	3.11
193-39-5	Indeno[1,2,3-cd]pyrene	ND		1.87	0.356
78-59-1	Isophorone	ND		9.35	1.16
91-57-6	2-Methylnaphthalene	ND		1.87	0.291
95-48-7	2-Methylphenol	ND		9.35	3.11
15831-10-4	3 & 4 Methylphenol	ND		9.35	3.11
91-20-3	Naphthalene	ND		1.87	0.372
88-74-4	2-Nitroaniline	ND		23.4	0.972
99-09-2	3-Nitroaniline	ND		23.4	1.73
100-01-6	4-Nitroaniline	ND		23.4	2.23
98-95-3	Nitrobenzene	ND		9.35	1.16
88-75-5	2-Nitrophenol	ND		9.35	1.47
100-02-7	4-Nitrophenol	ND		23.4	3.11
621-64-7	N-Nitrosodi-n-propylamine	ND		9.35	1.33
86-30-6	n-Nitrosodiphenylamine(as diphenylamine)	ND		9.35	1.35
87-86-5	Pentachlorophenol	ND		23.4	1.54
85-01-8	Phenanthrene	ND		1.87	0.321
108-95-2	Phenol	ND		9.35	3.22
129-00-0	Pyrene	ND		1.87	0.309
95-95-4	2,4,5-Trichlorophenol	ND		23.4	1.90
88-06-2	2,4,6-Trichlorophenol	ND		9.35	1.64

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Client Sample ID: MW-07-GW-001 Lab Sample ID: 490-39437-3

Matrix: Water Lab File ID: 1111010.D

Analysis Method: 8270C Date Collected: 11/04/2013 15:28

Extract. Method: 3510C Date Extracted: 11/11/2013 08:54

Sample wt/vol: 1070(mL) Date Analyzed: 11/11/2013 19:09

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 121052 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	75		29-120
367-12-4	2-Fluorophenol (Surr)	42		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	76		27-120
4165-62-2	Phenol-d5 (Surr)	26		10-120
1718-51-0	Terphenyl-d14 (Surr)	77		13-120
118-79-6	2,4,6-Tribromophenol (Surr)	82		10-120

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\hp31\20131111-28238.b\1111010.D
Lims ID: 490-39437-V-3-A Lab Sample ID: 490-39437-3
Client ID: MW-07-GW-001
Sample Type: Client
Inject. Date: 11-Nov-2013 19:09:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 490-39437-V-3-A
Misc. Info.: 490-0028238-010
Operator ID: HP-31 Instrument ID: HP31

Method: \\Nvlchrom\ChromData\hp31\20131111-28238.b\8270HP31.m
Limit Group: MSS 8270C ICAL
Last Update: 12-Nov-2013 14:59:47 Calib Date: 04-Nov-2013 11:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\hp31\20131103-27806.b\1104019.D

Column 1 : Detector MS SCAN
Process Host: XAWRK011

First Level Reviewer: spryc Date: 12-Nov-2013 14:59:47

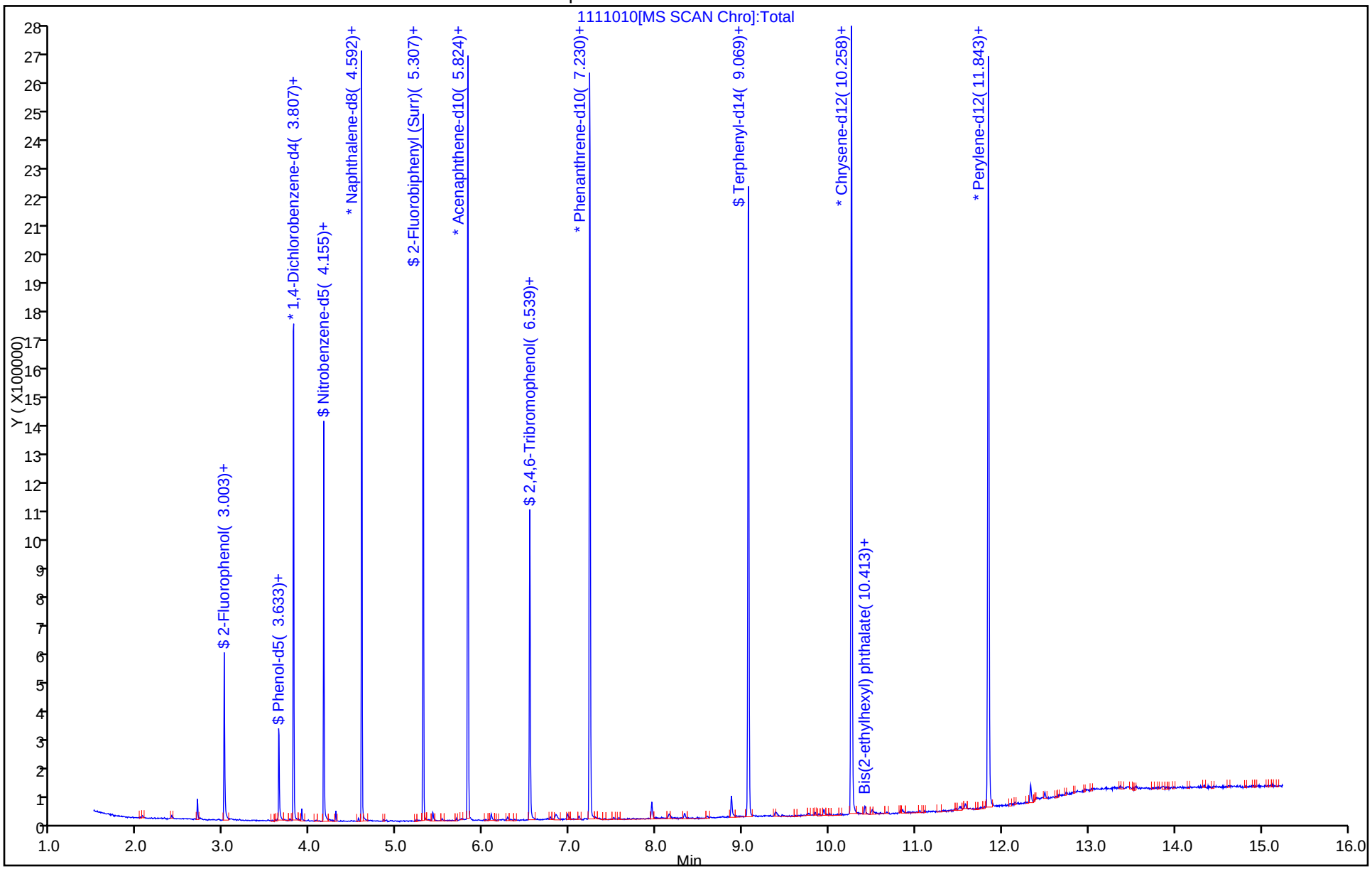
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.807	3.807	0.0	93	219519	40.0	
$ 11 2-Fluorophenol	112	3.003	3.006	-0.003	90	135915	21.2	
$ 15 Phenol-d5	99	3.633	3.636	-0.003	0	112323	13.0	
* 37 Naphthalene-d8	136	4.592	4.597	-0.005	99	845876	40.0	
$ 46 Nitrobenzene-d5	82	4.155	4.158	-0.003	85	262783	38.0	
* 72 Acenaphthene-d10	164	5.824	5.824	0.0	86	543089	40.0	
$ 79 2-Fluorobiphenyl (Surr)	172	5.307	5.310	-0.003	99	622004	37.7	
* 106 Phenanthrene-d10	188	7.230	7.230	0.0	97	943631	40.0	
$ 119 2,4,6-Tribromophenol	330	6.539	6.547	-0.008	91	115842	41.1	
* 140 Chrysene-d12	240	10.258	10.258	0.0	79	1058534	40.0	
$ 147 Terphenyl-d14	244	9.069	9.072	-0.003	96	780473	38.5	
154 Bis(2-ethylhexyl) phthalate	149	10.413	10.421	-0.008	93	9382	1.23	
* 156 Perylene-d12	264	11.843	11.843	0.0	83	1069587	40.0	

Report Date: 12-Nov-2013 14:59:47 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131111-28238.b\1111010.D

Injection Date:	11-Nov-2013 19:09:30	Instrument ID:	HP31	Operator ID:	HP-31
Lims ID:	490-39437-V-3-A	Lab Sample ID:	490-39437-3	Worklist Smp#:	10
Client ID:	MW-07-GW-001				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8270HP31	Limit Group:	MSS 8270C ICAL		



FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39437-2 Analy Batch No.: 116166

SDG No.:

Instrument ID: HP31 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/22/2013 17:06 Calibration End Date: 10/22/2013 19:23 Calibration ID: 19839

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 490-116166/3	1022003.D
Level 2	STD 490-116166/6	1022004.D
Level 3	STD 490-116166/7	1022005.D
Level 4	STD 490-116166/8	1022006.D
Level 5	ICIS 490-116166/9	1022007.D
Level 6	STD 490-116166/10	1022008.D
Level 7	STD 490-116166/11	1022009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.4648 0.4935	0.4780 0.4868	0.4732	0.4350	0.5029	Ave		0.4763				4.7		15.0			
N-Nitrosodimethylamine	0.5535 0.7226	0.6385 0.7292	0.5550	0.5995	0.6847	Ave		0.6404				12.0		15.0			
Pyridine	0.6735 0.8409	0.7431 0.8542	0.7525	0.7062	0.8551	Ave		0.7751				9.7		15.0			
Benzaldehyde	0.4358 0.5948	0.5564 0.5770	0.5006	0.5628	0.6155	Ave		0.5490				11.0		15.0			
Aniline	1.4250 2.0256	1.8207 1.9538	1.8498	1.9066	2.0899	Ave		1.8674				12.0		15.0			
Phenol	1.6072 1.7410	1.5899 1.6069	1.6080	1.6645	1.8109	Ave		1.6612				5.1		15.0			
Bis(2-chloroethyl)ether	1.2755 1.2086	1.2358 1.1762	1.2042	1.1907	1.2459	Ave		1.2196				2.8		15.0			
2-Chlorophenol	1.1943 1.4320	1.4162 1.3979	1.3790	1.3936	1.5021	Ave		1.3879				6.8		15.0			
n-Decane	1.1773 1.0721	1.1758 1.0472	1.1026	1.0700	1.1582	Ave		1.1148				4.9		15.0			
1,3-Dichlorobenzene	1.4090 1.4976	1.6006 1.4592	1.5621	1.5262	1.5762	Ave		1.5187				4.5		15.0			
1,4-Dichlorobenzene	1.5075 1.4889	1.5867 1.4371	1.5560	1.5292	1.5696	Ave		1.5250				3.4		15.0			
Benzyl alcohol	0.9791	0.8232 0.9399	0.8518	0.9273	1.0210	Ave		0.9237				8.1		15.0			
1,2-Dichlorobenzene	1.4563 1.4412	1.5399 1.4014	1.4979	1.5057	1.5024	Ave		1.4778				3.2		15.0			
Indene	2.2375 2.2019	2.4510 2.1029	2.3378	2.2912	2.3728	Ave		2.2850				5.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39437-2 Analy Batch No.: 116166

SDG No.:

Instrument ID: HP31 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/22/2013 17:06 Calibration End Date: 10/22/2013 19:23 Calibration ID: 19839

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
bis (2-chloroisopropyl) ether	0.4487 0.4790	0.5202 0.4745	0.4631	0.4778	0.4988	Ave		0.4803				4.9		15.0			
2-Methylphenol	1.0641 1.3052	1.2911 1.2613	1.2598	1.2502	1.3528	Ave		1.2549				7.3		15.0			
Acetophenone	1.5406 1.8248	1.7714 1.7619	1.8180	1.8081	1.9209	Ave		1.7779				6.6		15.0			
N-Nitrosodi-n-propylamine	0.8060 0.9165	0.8800 0.8696	0.8756	0.8769	0.9598	Ave		0.8835			0.0500	5.3		15.0			
3 & 4 Methylphenol	1.1205 1.4070	1.2749 1.3665	1.3556	1.3403	1.4745	Ave		1.3342				8.4		15.0			
Hexachloroethane	0.4880 0.5129	0.5361 0.5004	0.5113	0.4978	0.5325	Ave		0.5113				3.5		15.0			
Nitrobenzene	0.2857 0.3251	0.3233 0.3163	0.3065	0.3100	0.3371	Ave		0.3148				5.2		15.0			
Isophorone	0.5364 0.6116	0.6355 0.5911	0.5950	0.5992	0.6497	Ave		0.6026				6.0		15.0			
2-Nitrophenol	0.1569 0.2193	0.1933 0.2154	0.1948	0.2049	0.2212	Ave		0.2008				11.0		15.0			
2,4-Dimethylphenol	0.3034 0.3364	0.3430 0.3273	0.3357	0.3424	0.3558	Ave		0.3349				4.9		15.0			
Bis(2-chloroethoxy)methane	0.3502 0.3663	0.3821 0.3471	0.3486	0.3517	0.3793	Ave		0.3607				4.2		15.0			
Benzoic acid	0.3263	0.1913 0.3200	0.2197	0.2552	0.3121	Lin2	-0.719	0.3178							0.9930		0.9900
2,4-Dichlorophenol	0.2464 0.3149	0.3045 0.3082	0.3040	0.3151	0.3239	Ave		0.3024				8.5		15.0			
1,2,4-Trichlorobenzene	0.2947 0.3047	0.3283 0.2984	0.3182	0.3078	0.3169	Ave		0.3099				3.8		15.0			
Naphthalene	1.0301 0.9401	1.1288 0.8938	1.0566	1.0271	1.0381	Ave		1.0164				7.6		15.0			
4-Chloroaniline	0.3619 0.4835	0.4562 0.4721	0.4817	0.4921	0.5172	Ave		0.4664				11.0		15.0			
Hexachlorobutadiene	0.1472 0.1595	0.1834 0.1567	0.1678	0.1638	0.1672	Ave		0.1637				6.9		15.0			
Caprolactam	0.1669	0.1424 0.1615	0.1358	0.1489	0.1654	Ave		0.1535				8.5		15.0			
4-Chloro-3-methylphenol	0.2647 0.3344	0.3154 0.3246	0.3177	0.3261	0.3475	Ave		0.3186				8.2		15.0			
2-Methylnaphthalene	0.6926 0.7371	0.8268 0.7041	0.7920	0.7715	0.7887	Ave		0.7590				6.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39437-2 Analy Batch No.: 116166

SDG No.:

Instrument ID: HP31 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/22/2013 17:06 Calibration End Date: 10/22/2013 19:23 Calibration ID: 19839

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1-Methylnaphthalene	0.6712 0.6983	0.7821 0.6658	0.7422	0.7249	0.7387	Ave		0.7176				5.8		15.0			
Hexachlorocyclopentadiene	0.2017	0.2082	0.0830	0.1211	0.1774	Lin2	-1.387	0.2116			0.0500				0.9920		0.9900
1,2,4,5-Tetrachlorobenzene	0.2925 0.3165	0.3489 0.3088	0.3341	0.3257	0.3280	Ave		0.3221				5.7		15.0			
2,4,6-Trichlorophenol	0.2743 0.3577	0.3314 0.3503	0.3365	0.3408	0.3648	Ave		0.3366				8.9		15.0			
2,4,5-Trichlorophenol	0.2761 0.3901	0.3620 0.3818	0.3536	0.3675	0.3828	Ave		0.3591				11.0		15.0			
Biphenyl	0.8497 0.8795	0.9891 0.8269	0.9615	0.9488	0.9430	Ave		0.9141				6.8		15.0			
2-Chloronaphthalene	1.0089 1.0023	1.0820 0.9628	1.0503	1.0512	1.0478	Ave		1.0293				3.9		15.0			
2-Nitroaniline	0.2290 0.3235	0.2416 0.3119	0.2587	0.2885	0.3236	Lin2	-0.186	0.3062							0.9930		0.9900
Dimethyl phthalate	1.1865 1.2627	1.3543 1.2165	1.3361	1.3156	1.3275	Ave		1.2856				5.0		15.0			
1,3-Dinitrobenzene	0.2787	0.2743	0.2198	0.2417	0.2744	Ave		0.2578				10.0		15.0			
2,6-Dinitrotoluene	0.2436 0.3435	0.3050 0.3342	0.3049	0.3164	0.3445	Ave		0.3132				11.0		15.0			
Acenaphthylene	1.5966 1.6701	1.8545 1.6047	1.8090	1.8035	1.7893	Ave		1.7325				6.1		15.0			
3-Nitroaniline	0.2581 0.4296	0.3385 0.4248	0.3577	0.3828	0.4187	Lin2	-0.333	0.4154							0.9980		0.9900
Acenaphthene	1.0942 1.0797	1.2110 1.0365	1.1613	1.1438	1.1427	Ave		1.1242				5.2		15.0			
2,4-Dinitrophenol	0.2508	0.1469 0.2478	0.1662	0.1870	0.2326	Lin2	-1.087	0.2408			0.0500				0.9900		0.9900
Dibenzofuran	1.5314 1.5387	1.7222 1.4621	1.6694	1.6352	1.6385	Ave		1.5996				5.7		15.0			
2,4-Dinitrotoluene	0.4633	0.4192 0.4493	0.4277	0.4349	0.4700	Ave		0.4441				4.6		15.0			
4-Nitrophenol	0.1267 0.2673	0.2344 0.2572	0.2163	0.2331	0.2654	Lin2	-0.521	0.2618			0.0500				0.9950		0.9900
2,3,4,6-Tetrachlorophenol	0.2543 0.3429	0.3118 0.3304	0.3095	0.3200	0.3382	Ave		0.3153				9.4		15.0			
Diethyl phthalate	1.1226 1.2824	1.3560 1.2306	1.2981	1.2727	1.3517	Ave		1.2735				6.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39437-2 Analy Batch No.: 116166

SDG No.:

Instrument ID: HP31 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/22/2013 17:06 Calibration End Date: 10/22/2013 19:23 Calibration ID: 19839

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Hexadecane	0.5296 0.5666	0.5773 0.5485	0.5693	0.5520	0.6072	Ave		0.5644				4.4		15.0			
Fluorene	1.2676 1.2902	1.4370 1.2474	1.4130	1.3679	1.3678	Ave		1.3416				5.5		15.0			
4-Chlorophenyl phenyl ether	0.5797 0.6098	0.6535 0.5933	0.6232	0.6162	0.6222	Ave		0.6140				3.8		15.0			
4-Nitroaniline	0.2433 0.4462	0.3549 0.4328	0.3560	0.3938	0.4375	Lin2	-0.386	0.4299							0.9970		0.9900
4,6-Dinitro-2-methylphenol	0.0827 0.1725	0.1284 0.1693	0.1425	0.1491	0.1716	Lin2	-0.354	0.1677							0.9980		0.9900
n-Nitrosodiphenylamine(as diphenylamine)	0.4210 0.4584	0.4922 0.4527	0.4705	0.4704	0.4873	Ave		0.4646				5.1		15.0			
1,2-Diphenylhydrazine (as Azobenzene)	0.9936 1.0892	1.0833 1.0481	1.0798	1.0654	1.1506	Ave		1.0729				4.4		15.0			
4-Bromophenyl phenyl ether	0.1795 0.2099	0.2052 0.2062	0.1991	0.2045	0.2162	Ave		0.2029				5.7		15.0			
Hexachlorobenzene	0.2186 0.2309	0.2440 0.2289	0.2354	0.2300	0.2411	Ave		0.2327				3.6		15.0			
Atrazine	0.1660 0.2177	0.2066 0.2161	0.2144	0.2142	0.2282	Ave		0.2090				9.6		15.0			
Pentachlorophenol	0.0797 0.1465	0.1180 0.1475	0.1240	0.1312	0.1478	Lin2	-0.268	0.1449							0.9980		0.9900
n-Octadecane	0.2979 0.3403	0.3238 0.3339	0.3206	0.3214	0.3645	Ave		0.3289				6.3		15.0			
Phenanthrene	1.0364 1.0023	1.1889 0.9603	1.1048	1.0809	1.0775	Ave		1.0644				7.0		15.0			
Anthracene	1.0185 1.0166	1.1980 0.9934	1.1111	1.1159	1.1255	Ave		1.0827				6.9		15.0			
Carbazole	0.9960 1.0775	1.2130 1.0540	1.1589	1.1291	1.1622	Ave		1.1130				6.7		15.0			
Di-n-butyl phthalate	0.9998 1.1892	1.2113 1.1426	1.2037	1.2017	1.2889	Ave		1.1768				7.6		15.0			
Fluoranthene	1.0658 1.1814	1.3040 1.1535	1.2596	1.2468	1.2582	Ave		1.2099				6.7		15.0			
Benzidine	0.3058 0.3623	0.3003 0.3459	0.3303	0.3449	0.3745	Lin2	-0.120	0.3530							0.9970		0.9900
Pyrene	0.9372 1.0171	1.1053 0.9924	1.0865	1.0697	1.1174	Ave		1.0465				6.3		15.0			
Butyl benzyl phthalate	0.3409 0.5360	0.4402 0.5299	0.4552	0.4726	0.5478	Lin2	-0.386	0.5238							0.9970		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 490-39437-2 Analy Batch No.: 116166

SDG No.:

Instrument ID: HP31 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/22/2013 17:06 Calibration End Date: 10/22/2013 19:23 Calibration ID: 19839

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[a]anthracene	0.9542 1.0425	1.0889 1.0078	1.0574	1.0368	1.0830	Ave		1.0387				4.5		15.0			
3,3'-Dichlorobenzidine	0.3038 0.4166	0.3808 0.4093	0.3825	0.3852	0.4217	Ave		0.3857				10.0		15.0			
Chrysene	0.9584 0.9439	1.0902 0.9300	1.0407	1.0041	0.9978	Ave		0.9950				5.7		15.0			
Bis(2-ethylhexyl) phthalate	0.4479 0.6913	0.6023 0.6781	0.6188	0.6473	0.7252	Lin2	-0.495	0.6933							0.9990		0.9900
Di-n-octyl phthalate	0.8294 1.2149	1.0002 1.1742	1.0089	1.0619	1.2547	Lin2	-0.745	1.1728							0.9960		0.9900
Benzo[b]fluoranthene	0.9221 1.1361	1.1075 1.0689	1.0853	1.0763	1.1622	Ave		1.0798				7.1		15.0			
Benzo[k]fluoranthene	1.0287 1.1037	1.2017 1.0868	1.1393	1.1494	1.1521	Ave		1.1231				5.0		15.0			
Benzo[a]pyrene	0.8704 1.0570	1.0546 1.0222	1.0428	1.0393	1.0890	Ave		1.0250				6.9		15.0			
Indeno[1,2,3-cd]pyrene	1.1003 1.2933	1.3301 1.2603	1.2945	1.2801	1.3261	Ave		1.2692				6.2		15.0			
Dibenz(a,h)anthracene	0.9515 1.0757	1.1367 1.0359	1.0949	1.0760	1.1109	Ave		1.0688				5.7		15.0			
Benzo[g,h,i]perylene	0.9847 1.0683	1.1233 1.0208	1.0918	1.0751	1.1060	Ave		1.0671				4.6		15.0			
2-Fluorophenol (Surr)	0.9791 1.2853	1.0992 1.2610	1.1247	1.1511	1.2935	Ave		1.1706				9.9		15.0			
Phenol-d5 (Surr)	1.3475 1.6677	1.5602 1.6048	1.5271	1.6004	1.7262	Ave		1.5763				7.6		15.0			
Nitrobenzene-d5 (Surr)	0.2993 0.3445	0.3135 0.3321	0.3240	0.3258	0.3497	Ave		0.3270				5.3		15.0			
2-Fluorobiphenyl (Surr)	1.1720 1.1443	1.3263 1.0995	1.2942	1.2358	1.2265	Ave		1.2141				6.7		15.0			
2,4,6-Tribromophenol (Surr)	 0.1259	0.1142 0.1248	0.1124	0.1137	0.1260	Ave		0.1195				5.6		15.0			
Terphenyl-d14 (Surr)	0.6695 0.7770	0.7921 0.7642	0.7673	0.7720	0.8190	Ave		0.7659				6.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39437-2 Analy Batch No.: 116166

SDG No.:

Instrument ID: HP31 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/22/2013 17:06 Calibration End Date: 10/22/2013 19:23 Calibration ID: 19839

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 490-116166/3	1022003.D
Level 2	STD 490-116166/6	1022004.D
Level 3	STD 490-116166/7	1022005.D
Level 4	STD 490-116166/8	1022006.D
Level 5	ICIS 490-116166/9	1022007.D
Level 6	STD 490-116166/10	1022008.D
Level 7	STD 490-116166/11	1022009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dioxane	DCB	Ave	3760 160331	10408 194578	19890	36936	98190	2.00 80.0	5.00 100	10.0	20.0	50.0
N-Nitrosodimethylamine	DCB	Ave	4478 234786	13902 291499	23328	50895	133700	2.00 80.0	5.00 100	10.0	20.0	50.0
Pyridine	DCB	Ave	5449 273193	16180 341440	31628	59960	166975	2.00 80.0	5.00 100	10.0	20.0	50.0
Benzaldehyde	DCB	Ave	3526 193235	12115 230656	21042	47782	120179	2.00 80.0	5.00 100	10.0	20.0	50.0
Aniline	DCB	Ave	11529 658126	39643 780999	77747	161871	408084	2.00 80.0	5.00 100	10.0	20.0	50.0
Phenol	DCB	Ave	13003 565665	34618 642307	67586	141317	353601	2.00 80.0	5.00 100	10.0	20.0	50.0
Bis(2-chloroethyl)ether	DCB	Ave	10319 392658	26908 470144	50613	101097	243287	2.00 80.0	5.00 100	10.0	20.0	50.0
2-Chlorophenol	DCB	Ave	9662 465267	30835 558779	57958	118321	293303	2.00 80.0	5.00 100	10.0	20.0	50.0
n-Decane	DCB	Ave	9525 348333	25602 418587	46344	90848	226156	2.00 80.0	5.00 100	10.0	20.0	50.0
1,3-Dichlorobenzene	DCB	Ave	11399 486576	34851 583287	65657	129574	307773	2.00 80.0	5.00 100	10.0	20.0	50.0
1,4-Dichlorobenzene	DCB	Ave	12196 483728	34549 574456	65397	129833	306478	2.00 80.0	5.00 100	10.0	20.0	50.0
Benzyl alcohol	DCB	Ave	 318125	17924 375715	35803	78731	199369	 80.0	5.00 100	10.0	20.0	50.0
1,2-Dichlorobenzene	DCB	Ave	11782 468244	33530 560165	62956	127835	293358	2.00 80.0	5.00 100	10.0	20.0	50.0
Indene	DCB	Ave	18102 715409	53367 840594	98256	194526	463317	2.00 80.0	5.00 100	10.0	20.0	50.0
bis (2-chloroisopropyl) ether	DCB	Ave	3630 155635	11326 189683	19466	40563	97397	2.00 80.0	5.00 100	10.0	20.0	50.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39437-2 Analy Batch No.: 116166

SDG No.:

Instrument ID: HP31 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/22/2013 17:06 Calibration End Date: 10/22/2013 19:23 Calibration ID: 19839

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2-Methylphenol	DCB	Ave	8609 424066	28111 504168	52948	106143	264144	2.00 80.0	5.00 100	10.0	20.0	50.0
Acetophenone	DCB	Ave	12464 592868	38569 704264	76410	153514	375075	2.00 80.0	5.00 100	10.0	20.0	50.0
N-Nitrosodi-n-propylamine	DCB	Ave	6521 297767	19160 347612	36801	74451	187416	2.00 80.0	5.00 100	10.0	20.0	50.0
3 & 4 Methylphenol	DCB	Ave	9065 457138	27758 546225	56975	113792	287913	2.00 80.0	5.00 100	10.0	20.0	50.0
Hexachloroethane	DCB	Ave	3948 166634	11673 200016	21489	42263	103974	2.00 80.0	5.00 100	10.0	20.0	50.0
Nitrobenzene	NPT	Ave	9059 426768	27566 506211	51424	106526	267175	2.00 80.0	5.00 100	10.0	20.0	50.0
Isophorone	NPT	Ave	17007 802991	54182 946174	99840	205904	514957	2.00 80.0	5.00 100	10.0	20.0	50.0
2-Nitrophenol	NPT	Ave	4975 287952	16477 344749	32692	70425	175335	2.00 80.0	5.00 100	10.0	20.0	50.0
2,4-Dimethylphenol	NPT	Ave	9621 441680	29244 523916	56322	117667	282040	2.00 80.0	5.00 100	10.0	20.0	50.0
Bis(2-chloroethoxy)methane	NPT	Ave	11103 480936	32573 555570	58486	120846	300655	2.00 80.0	5.00 100	10.0	20.0	50.0
Benzoic acid	NPT	Lin2	 428334	16309 512256	36862	87706	247361	 80.0	5.00 100	10.0	20.0	50.0
2,4-Dichlorophenol	NPT	Ave	7811 413450	25964 493305	51008	108298	256688	2.00 80.0	5.00 100	10.0	20.0	50.0
1,2,4-Trichlorobenzene	NPT	Ave	9345 399974	27988 477683	53394	105765	251190	2.00 80.0	5.00 100	10.0	20.0	50.0
Naphthalene	NPT	Ave	32661 1234244	96236 1430659	177300	352953	822826	2.00 80.0	5.00 100	10.0	20.0	50.0
4-Chloroaniline	NPT	Ave	11475 634793	38896 755657	80823	169103	409934	2.00 80.0	5.00 100	10.0	20.0	50.0
Hexachlorobutadiene	NPT	Ave	4667 209398	15638 250854	28155	56295	132485	2.00 80.0	5.00 100	10.0	20.0	50.0
Caprolactam	NPT	Ave	 219132	12143 258566	22789	51169	131086	 80.0	5.00 100	10.0	20.0	50.0
4-Chloro-3-methylphenol	NPT	Ave	8394 439027	26891 519535	53308	112064	275393	2.00 80.0	5.00 100	10.0	20.0	50.0
2-Methylnaphthalene	NPT	Ave	21960 967651	70493 1126931	132893	265118	625148	2.00 80.0	5.00 100	10.0	20.0	50.0
1-Methylnaphthalene	NPT	Ave	21280 916722	66679 1065735	124529	249127	585509	2.00 80.0	5.00 100	10.0	20.0	50.0
Hexachlorocyclopentadiene	ANT	Lin2	 180248	 225013	9518	28818	96985	 80.0	 100	10.0	20.0	50.0

FORM VI

GC/MS SEMI VOA INITIAL CALIBRATION DATA

INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39437-2 Analy Batch No.: 116166

SDG No.:

Instrument ID: HP31 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/22/2013 17:06 Calibration End Date: 10/22/2013 19:23 Calibration ID: 19839

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2,4,5-Tetrachlorobenzene	NPT	Ave	9275 415473	29747 494248	56063	111922	259990	2.00 80.0	5.00 100	10.0	20.0	50.0
2,4,6-Trichlorophenol	ANT	Ave	5723 319567	19427 378631	38610	81109	199470	2.00 80.0	5.00 100	10.0	20.0	50.0
2,4,5-Trichlorophenol	ANT	Ave	5760 348495	21220 412631	40573	87462	209362	2.00 80.0	5.00 100	10.0	20.0	50.0
Biphenyl	NPT	Ave	26941 1154601	84324 1323499	161343	326076	747462	2.00 80.0	5.00 100	10.0	20.0	50.0
2-Chloronaphthalene	ANT	Ave	21046 895490	63421 1040539	120503	250178	572987	2.00 80.0	5.00 100	10.0	20.0	50.0
2-Nitroaniline	ANT	Lin2	4777 289049	14160 337121	29681	68666	176962	2.00 80.0	5.00 100	10.0	20.0	50.0
Dimethyl phthalate	ANT	Ave	24752 1128089	79381 1314763	153288	313109	725971	2.00 80.0	5.00 100	10.0	20.0	50.0
1,3-Dinitrobenzene	ANT	Ave	 248959	 296432	25221	57528	150044	 80.0	 100	10.0	20.0	50.0
2,6-Dinitrotoluene	ANT	Ave	5082 306862	17878 361234	34979	75303	188395	2.00 80.0	5.00 100	10.0	20.0	50.0
Acenaphthylene	ANT	Ave	33307 1492118	108697 1734328	207538	429238	978481	2.00 80.0	5.00 100	10.0	20.0	50.0
3-Nitroaniline	ANT	Lin2	5385 383816	19841 459101	41036	91114	228981	2.00 80.0	5.00 100	10.0	20.0	50.0
Acenaphthene	ANT	Ave	22825 964650	70982 1120229	133237	272234	624907	2.00 80.0	5.00 100	10.0	20.0	50.0
2,4-Dinitrophenol	ANT	Lin2	 448215	17222 535639	38135	89035	254385	 160	10.0 200	20.0	40.0	100
Dibenzofuran	ANT	Ave	31946 1374695	100941 1580208	191521	389184	896010	2.00 80.0	5.00 100	10.0	20.0	50.0
2,4-Dinitrotoluene	ANT	Ave	 413939	24568 485585	49068	103505	257012	 80.0	5.00 100	10.0	20.0	50.0
4-Nitrophenol	ANT	Lin2	5287 477610	27472 556006	49632	110978	290223	4.00 160	10.0 200	20.0	40.0	100
2,3,4,6-Tetrachlorophenol	ANT	Ave	5305 306333	18275 357074	35507	76172	184922	2.00 80.0	5.00 100	10.0	20.0	50.0
Diethyl phthalate	ANT	Ave	23419 1145738	79479 1330001	148925	302901	739196	2.00 80.0	5.00 100	10.0	20.0	50.0
Hexadecane	ANT	Ave	11048 506221	33835 592824	65318	131377	332045	2.00 80.0	5.00 100	10.0	20.0	50.0
Fluorene	ANT	Ave	26443 1152729	84224 1348177	162107	325565	747977	2.00 80.0	5.00 100	10.0	20.0	50.0
4-Chlorophenyl phenyl ether	ANT	Ave	12092 544770	38304 641253	71502	146649	340270	2.00 80.0	5.00 100	10.0	20.0	50.0

FORM VI

GC/MS SEMI VOA INITIAL CALIBRATION DATA

INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39437-2 Analy Batch No.: 116166

SDG No.:

Instrument ID: HP31 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/22/2013 17:06 Calibration End Date: 10/22/2013 19:23 Calibration ID: 19839

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
4-Nitroaniline	ANT	Lin2	5076 398634	20803 467729	40844	93717	239258	2.00 80.0	5.00 100	10.0	20.0	50.0
4,6-Dinitro-2-methylphenol	PHN	Lin2	6181 574592	27689 669085	60237	131004	340319	4.00 160	10.0 200	20.0	40.0	100
n-Nitrosodiphenylamine(as diphenylamine)	PHN	Ave	15738 763360	53068 894561	99480	206615	483321	2.00 80.0	5.00 100	10.0	20.0	50.0
1,2-Diphenylhydrazine (as Azobenzene)	ANT	Ave	20728 973103	63497 1132785	123884	253567	629230	2.00 80.0	5.00 100	10.0	20.0	50.0
4-Bromophenyl phenyl ether	PHN	Ave	6711 349534	22122 407567	42090	89833	214405	2.00 80.0	5.00 100	10.0	20.0	50.0
Hexachlorobenzene	PHN	Ave	8170 384555	26307 452343	49777	101029	239160	2.00 80.0	5.00 100	10.0	20.0	50.0
Atrazine	PHN	Ave	6205 362520	22281 427108	45326	94082	226311	2.00 80.0	5.00 100	10.0	20.0	50.0
Pentachlorophenol	PHN	Lin2	5959 487835	25453 582802	52443	115256	293150	4.00 160	10.0 200	20.0	40.0	100
n-Octadecane	PHN	Ave	11135 566827	34914 659921	67775	141163	361527	2.00 80.0	5.00 100	10.0	20.0	50.0
Phenanthrene	PHN	Ave	38743 1669246	128184 1897738	233575	474755	1068657	2.00 80.0	5.00 100	10.0	20.0	50.0
Anthracene	PHN	Ave	38073 1692998	129169 1963124	234897	490098	1116258	2.00 80.0	5.00 100	10.0	20.0	50.0
Carbazole	PHN	Ave	37232 1794580	130782 2083016	245007	495895	1152604	2.00 80.0	5.00 100	10.0	20.0	50.0
Di-n-butyl phthalate	PHN	Ave	37374 1980465	130607 2258075	254488	527797	1278312	2.00 80.0	5.00 100	10.0	20.0	50.0
Fluoranthene	PHN	Ave	39840 1967544	140602 2279656	266306	547601	1247829	2.00 80.0	5.00 100	10.0	20.0	50.0
Benzidine	CRY	Lin2	13774 703463	41435 788332	86377	182823	427112	2.00 80.0	5.00 100	10.0	20.0	50.0
Pyrene	CRY	Ave	42209 1974557	152511 2261631	284165	567088	1274378	2.00 80.0	5.00 100	10.0	20.0	50.0
Butyl benzyl phthalate	CRY	Lin2	15356 1040507	60736 1207536	119047	250548	624825	2.00 80.0	5.00 100	10.0	20.0	50.0
Benzo[a]anthracene	CRY	Ave	42979 2023991	150255 2296571	276538	549671	1235191	2.00 80.0	5.00 100	10.0	20.0	50.0
3,3'-Dichlorobenzidine	CRY	Ave	13685 808797	52543 932766	100039	204203	480926	2.00 80.0	5.00 100	10.0	20.0	50.0
Chrysene	CRY	Ave	43165 1832461	150425 2119359	272181	532303	1137985	2.00 80.0	5.00 100	10.0	20.0	50.0
Bis(2-ethylhexyl) phthalate	CRY	Lin2	20172 1342071	83102 1545357	161844	343165	827126	2.00 80.0	5.00 100	10.0	20.0	50.0

FORM VI

GC/MS SEMI VOA INITIAL CALIBRATION DATA

INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 490-39437-2 Analy Batch No.: 116166

SDG No.:

Instrument ID: HP31 GC Column: ZB-5MSi ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/22/2013 17:06 Calibration End Date: 10/22/2013 19:23 Calibration ID: 19839

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Di-n-octyl phthalate	PRY	Lin2	39274 2280796	145766 2616828	281389	583870	1434574	2.00 80.0	5.00 100	10.0	20.0	50.0
Benzo[b]fluoranthene	PRY	Ave	43663 2132825	161415 2382212	302696	591810	1328790	2.00 80.0	5.00 100	10.0	20.0	50.0
Benzo[k]fluoranthene	PRY	Ave	48711 2071975	175136 2422022	317754	632021	1317241	2.00 80.0	5.00 100	10.0	20.0	50.0
Benzo[a]pyrene	PRY	Ave	41213 1984298	153695 2278139	290840	571437	1245089	2.00 80.0	5.00 100	10.0	20.0	50.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	52102 2427807	193857 2808665	361031	703842	1516187	2.00 80.0	5.00 100	10.0	20.0	50.0
Dibenz(a,h)anthracene	PRY	Ave	45052 2019348	165664 2308647	305365	591630	1270130	2.00 80.0	5.00 100	10.0	20.0	50.0
Benzo[g,h,i]perylene	PRY	Ave	46626 2005440	163714 2274853	304495	591159	1264555	2.00 80.0	5.00 100	10.0	20.0	50.0
2-Fluorophenol (Surr)	DCB	Ave	7921 417610	23934 504058	47270	97731	252566	2.00 80.0	5.00 100	10.0	20.0	50.0
Phenol-d5 (Surr)	DCB	Ave	10902 541828	33972 641489	64186	135882	337071	2.00 80.0	5.00 100	10.0	20.0	50.0
Nitrobenzene-d5 (Surr)	NPT	Ave	9491 452290	26730 531546	54362	111971	277184	2.00 80.0	5.00 100	10.0	20.0	50.0
2-Fluorobiphenyl (Surr)	ANT	Ave	24449 1022342	77736 1188332	148475	294113	670726	2.00 80.0	5.00 100	10.0	20.0	50.0
2,4,6-Tribromophenol (Surr)	PHN	Ave	 209719	12318 246535	23773	49956	125005	 80.0	5.00 100	10.0	20.0	50.0
Terphenyl-d14 (Surr)	CRY	Ave	30154 1508391	109301 1741607	200685	409256	934122	2.00 80.0	5.00 100	10.0	20.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022003.D
Lims ID: STD 1 Client ID:
Inject. Date: 22-Oct-2013 17:06:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: STD 1
Misc. Info.: 490-0027160-003
Operator: HP-31 Instrument ID: HP31
Injection Vol: 1.0 ul ALS Bottle#: 6
Lims Batch ID: 116166 Lims Sample ID: 3
Sublist: chrom-8270HP31*sub30
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\hp31\20131022-27160.b\8270HP31.m
Last Update: 24-Oct-2013 12:55:23 Calib Date: 22-Oct-2013 19:23:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022009.D
Limit Group: MSS 8270C ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK049

First Level Reviewer: phelpsk Date: 23-Oct-2013 10:11:52

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	4.010	4.009	0.001	93	161807	40.0	
4 1,4-Dioxane	88	1.823	1.813	0.010	91	3760	1.95	M
5 N-Nitrosodimethylamine	74	2.171	2.114	0.057	67	4478	1.73	M
6 Pyridine	52	2.209	2.142	0.067	85	5449	1.74	M
$ 11 2-Fluorophenol	112	3.220	3.214	0.006	81	7921	1.67	M
21 Benzaldehyde	105	3.742	3.736	0.006	87	3526	1.59	
17 Aniline	93	3.807	3.807	0.0	95	11529	1.53	
$ 15 Phenol-d5	99	3.831	3.821	0.010	0	10902	1.71	
16 Phenol	94	3.836	3.830	0.006	90	13003	1.94	M
18 Bis(2-chloroethyl)ether	93	3.850	3.849	0.001	87	10319	2.09	
19 2-Chlorophenol	128	3.897	3.892	0.005	91	9662	1.72	
20 n-Decane	57	3.906	3.906	0.0	96	9525	2.11	
22 1,3-Dichlorobenzene	146	3.972	3.972	0.0	97	11399	1.86	
23 1,4-Dichlorobenzene	146	4.019	4.019	0.0	83	12196	1.98	
24 Benzyl alcohol	108	4.108	4.103	0.005	86	5670	1.52	
25 1,2-Dichlorobenzene	146	4.113	4.113	0.0	96	11782	1.97	
2 Indene	115	4.170	4.169	0.001	87	18102	1.96	
27 2,2'-oxybis[1-chloropropane]	121	4.179	4.183	-0.004	93	3630	1.87	
26 2-Methylphenol	108	4.193	4.188	0.005	93	8609	1.70	
32 N-Nitrosodi-n-propylamine	70	4.264	4.263	0.001	90	6521	1.82	
30 Acetophenone	105	4.264	4.263	0.001	98	12464	1.73	
28 3 & 4 Methylphenol	108	4.292	4.287	0.005	0	9065	1.68	
33 Hexachloroethane	117	4.320	4.319	0.001	93	3948	1.91	
* 37 Naphthalene-d8	136	4.800	4.799	0.001	98	634114	40.0	
$ 46 Nitrobenzene-d5	82	4.358	4.357	0.001	83	9491	1.83	
47 Nitrobenzene	77	4.367	4.366	0.001	81	9059	1.82	
48 Isophorone	82	4.513	4.512	0.001	96	17007	1.78	
49 2-Nitrophenol	139	4.565	4.564	0.001	87	4975	1.56	
50 2,4-Dimethylphenol	107	4.607	4.602	0.005	90	9621	1.81	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
52 Bis(2-chloroethoxy)methane	93	4.649	4.649	0.0	97	11103	1.94	
51 Benzoic acid	105	4.663	4.667	-0.004	79	4861	3.23	M
53 2,4-Dichlorophenol	162	4.734	4.729	0.005	85	7811	1.63	
55 1,2,4-Trichlorobenzene	180	4.762	4.761	0.001	93	9345	1.90	
56 Naphthalene	128	4.809	4.813	-0.004	69	32661	2.03	
57 4-Chloroaniline	127	4.851	4.851	0.0	86	11475	1.55	
59 Hexachlorobutadiene	225	4.889	4.888	0.001	93	4667	1.80	
42 Caprolactam	113	5.063	5.072	-0.009	71	3367	1.38	
62 4-Chloro-3-methylphenol	107	5.190	5.189	0.001	89	8394	1.66	
65 2-Methylnaphthalene	142	5.270	5.269	0.001	86	21960	1.83	
66 1-Methylnaphthalene	142	5.336	5.335	0.001	82	21280	1.87	
45 1,2,4,5-Tetrachlorobenzene	216	5.387	5.387	0.0	94	9275	1.82	
43 1,1'-Biphenyl	154	5.613	5.613	0.0	93	26941	1.86	
* 72 Acenaphthene-d10	164	6.079	6.078	0.001	86	417215	40.0	
76 Hexachlorocyclopentadiene	237	5.383	5.377	0.006	7	756	6.89	
77 2,4,6-Trichlorophenol	196	5.481	5.481	0.0	79	5723	1.63	
78 2,4,5-Trichlorophenol	196	5.533	5.528	0.005	89	5760	1.54	
$ 79 2-Fluorobiphenyl (Surr)	172	5.538	5.537	0.001	98	24449	1.93	
83 2-Chloronaphthalene	162	5.627	5.627	0.0	87	21046	1.96	
84 2-Nitroaniline	65	5.717	5.711	0.006	76	4777	2.10	
85 Dimethyl phthalate	163	5.858	5.857	0.001	99	24752	1.85	
81 1,3-Dinitrobenzene	168	5.891	5.890	0.001	81	3280	1.22	
86 2,6-Dinitrotoluene	165	5.909	5.909	0.0	76	5082	1.56	
87 Acenaphthylene	152	5.961	5.961	0.0	88	33307	1.84	
88 3-Nitroaniline	138	6.060	6.055	0.005	91	5385	2.05	
89 Acenaphthene	153	6.107	6.106	0.001	88	22825	1.95	
90 2,4-Dinitrophenol	184	6.159	6.149	0.010	62	3769	6.01	
92 Dibenzofuran	168	6.262	6.261	0.001	84	31946	1.91	
93 2,4-Dinitrotoluene	165	6.262	6.261	0.001	57	6342	1.37	
91 4-Nitrophenol	65	6.290	6.271	0.019	80	5287	3.93	
96 2,3,4,6-Tetrachlorophenol	232	6.389	6.384	0.005	61	5305	1.61	
97 Diethyl phthalate	149	6.488	6.487	0.001	96	23419	1.76	
196 Hexadecane	57	6.507	6.506	0.0	0	11048	1.88	
99 Fluorene	166	6.577	6.577	0.001	82	26443	1.89	
98 4-Chlorophenyl phenyl ether	204	6.586	6.586	0.0	87	12092	1.89	
100 4-Nitroaniline	138	6.615	6.614	0.001	84	5076	2.03	
101 Azobenzene	77	6.737	6.736	0.001	94	20728	1.85	
* 106 Phenanthrene-d10	188	7.527	7.526	0.001	97	747611	40.0	
116 4,6-Dinitro-2-methylphenol	198	6.643	6.642	0.001	82	6181	4.08	
117 N-Nitrosodiphenylamine	169	6.704	6.703	0.001	52	15738	1.81	
$ 119 2,4,6-Tribromophenol	330	6.817	6.816	0.001	76	3119	1.40	
120 4-Bromophenyl phenyl ether	248	7.071	7.070	0.001	60	6711	1.77	
121 Hexachlorobenzene	284	7.118	7.117	0.001	88	8170	1.88	
112 Atrazine	200	7.264	7.268	-0.004	84	6205	1.59	
124 Pentachlorophenol	266	7.348	7.343	0.005	88	5959	4.05	
115 n-Octadecane	57	7.466	7.465	0.001	91	11135	1.81	
126 Phenanthrene	178	7.550	7.555	-0.005	96	38743	1.95	
129 Anthracene	178	7.607	7.606	0.001	84	38073	1.88	
131 Carbazole	167	7.804	7.804	0.0	83	37232	1.79	
132 Di-n-butyl phthalate	149	8.237	8.236	0.001	99	37374	1.70	
135 Fluoranthene	202	8.890	8.890	0.0	97	39840	1.76	
* 140 Chrysene-d12	240	10.583	10.587	-0.004	80	900793	40.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
145 Benzidine	184	9.093	9.087	0.006	82	13774	2.07	
146 Pyrene	202	9.144	9.144	0.0	95	42209	1.79	
$ 147 Terphenyl-d14	244	9.370	9.374	-0.004	95	30154	1.75	
150 Butyl benzyl phthalate	149	9.995	9.995	0.0	93	15356	2.04	
152 Benzo[a]anthracene	228	10.574	10.573	0.001	96	42979	1.84	
151 3,3'-Dichlorobenzidine	252	10.583	10.583	0.0	43	13685	1.58	
153 Chrysene	228	10.611	10.616	-0.005	91	43165	1.93	
154 Bis(2-ethylhexyl) phthalate	149	10.715	10.714	0.001	94	20172	2.01	
* 156 Perylene-d12	264	12.177	12.177	0.0	82	947016	40.0	
158 Di-n-octyl phthalate	149	11.458	11.462	-0.004	99	39274	2.05	
159 Benzo[b]fluoranthene	252	11.782	11.782	0.0	86	43663	1.71	
161 Benzo[k]fluoranthene	252	11.811	11.810	0.0	97	48711	1.83	
162 Benzo[a]pyrene	252	12.116	12.116	0.0	74	41213	1.70	
164 Indeno[1,2,3-cd]pyrene	276	13.207	13.207	0.001	98	52102	1.73	
165 Dibenz(a,h)anthracene	278	13.231	13.230	0.001	70	45052	1.78	
166 Benzo[g,h,i]perylene	276	13.475	13.479	-0.004	90	46626	1.85	
S 167 Total Cresols	1				0		3.38	
S 172 Methyl Phenols,Total	1				0		3.38	

QC Flag Legend

Review Flags
M - Manually Integrated

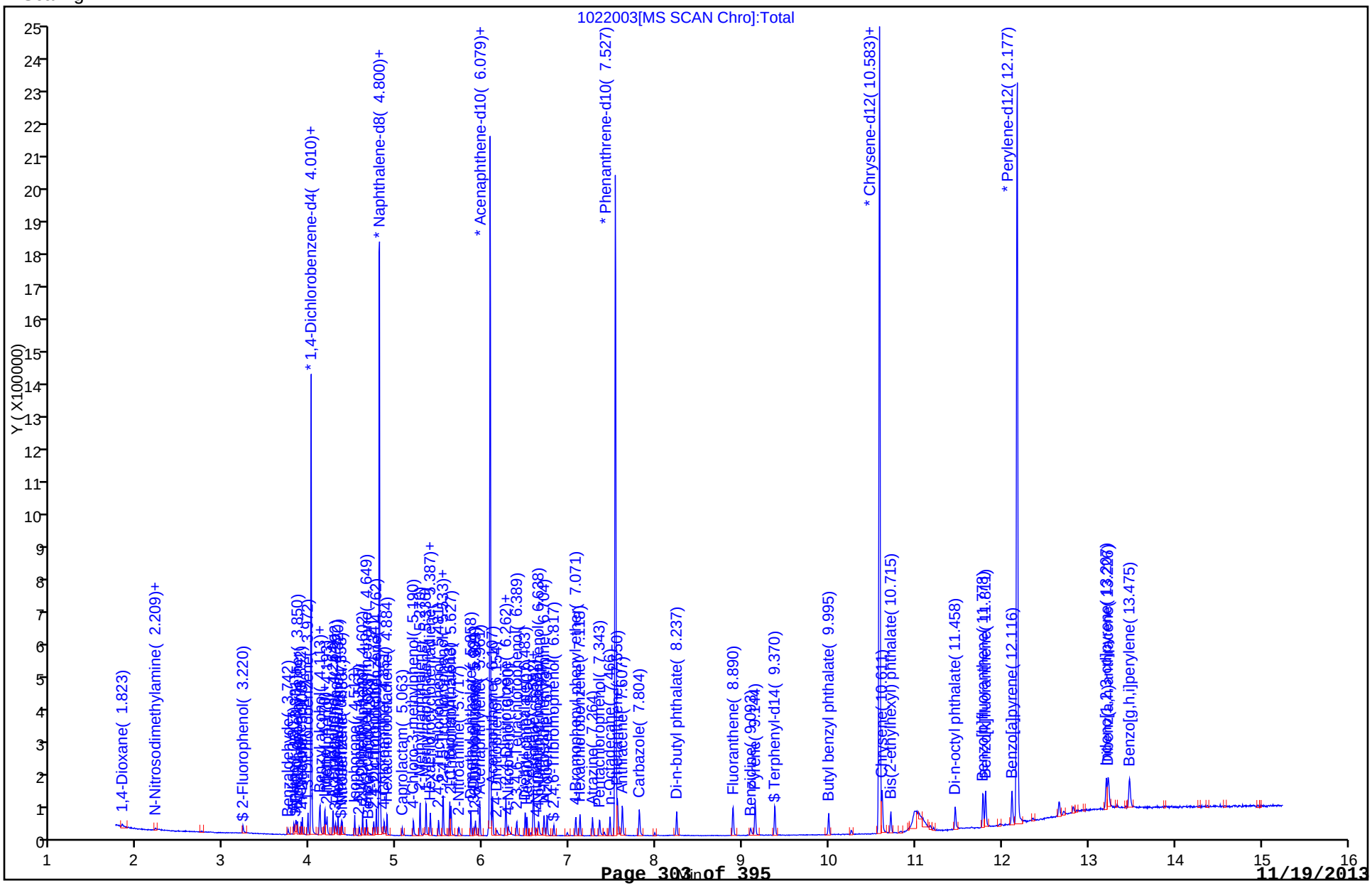
Report Date: 24-Oct-2013 12:55:23 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022003.D

Injection Date:	22-Oct-2013 17:06:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	3
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



11/19/2013

Manual Integration/User Assign Peak Report

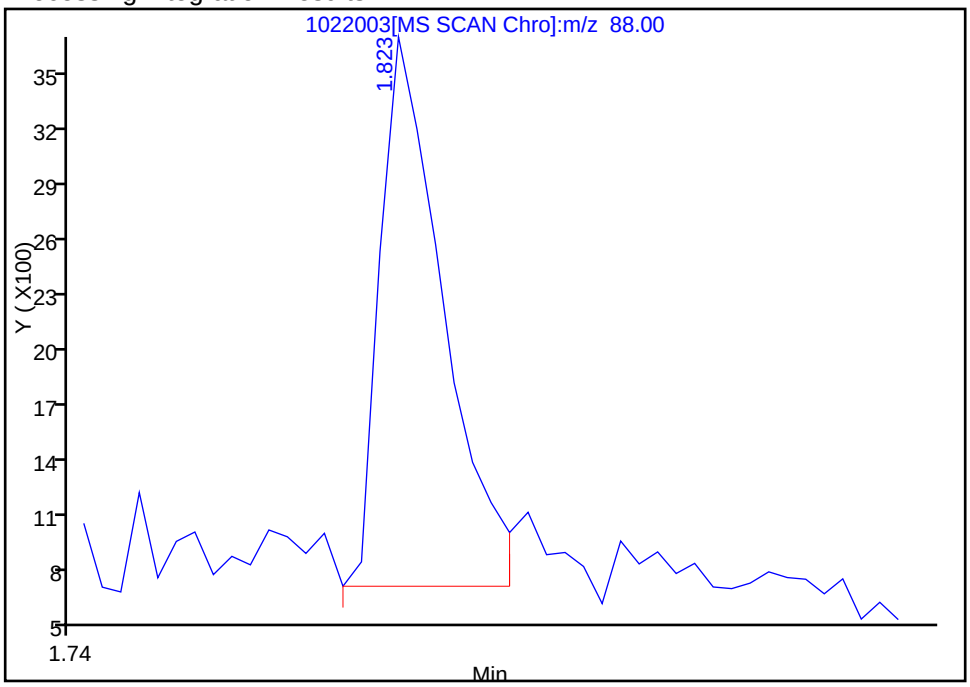
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022003.D		
Injection Date:	22-Oct-2013 17:06:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	3
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

4 1,4-Dioxane, Signal: 1, m/z: 88.0 Type: quant, RT: 1.81

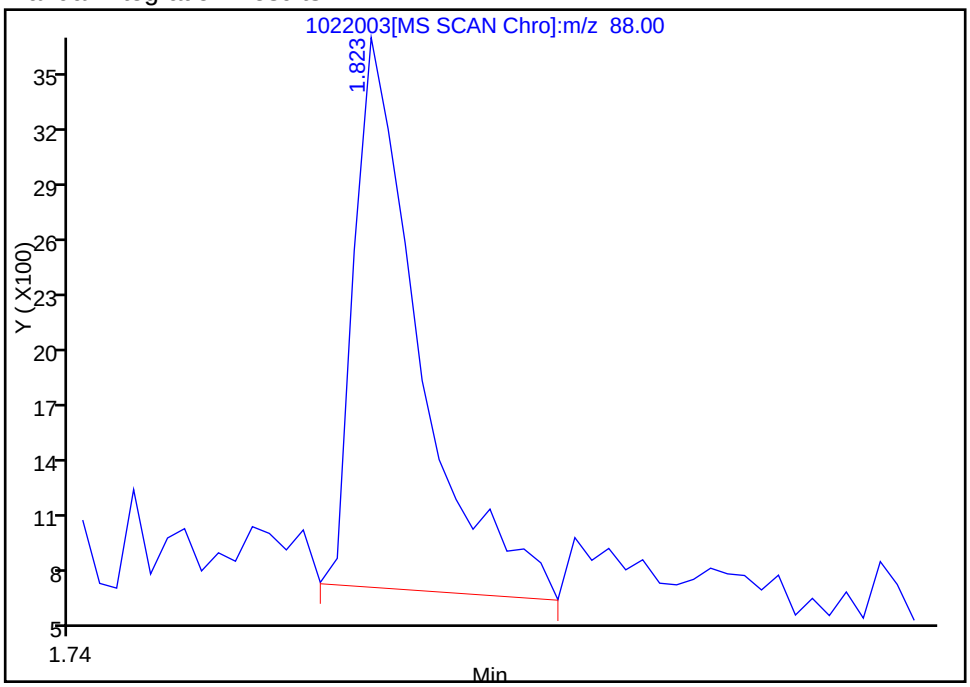
Processing Integration Results

RT: 1.82
Response: 3322
Amount: 1.752605



Manual Integration Results

RT: 1.82
Response: 3760
Amount: 1.951473



Reviewer: phelpsk, 23-Oct-2013 10:11:52
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

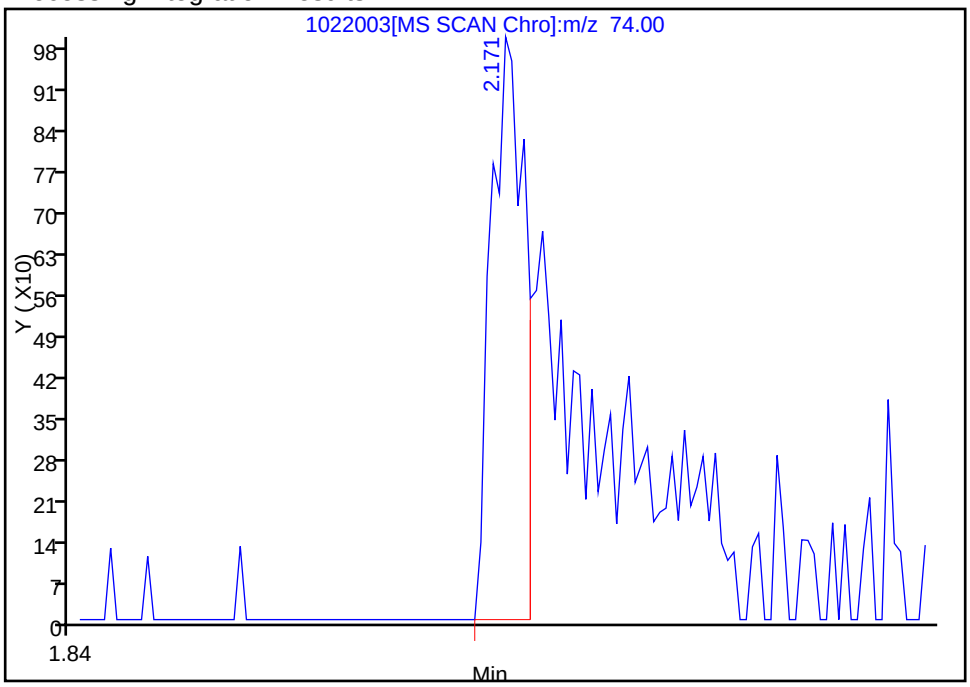
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022003.D		
Injection Date:	22-Oct-2013 17:06:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	3
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

5 N-Nitrosodimethylamine, Signal: 1, m/z: 74.0 Type: quant, RT: 2.11

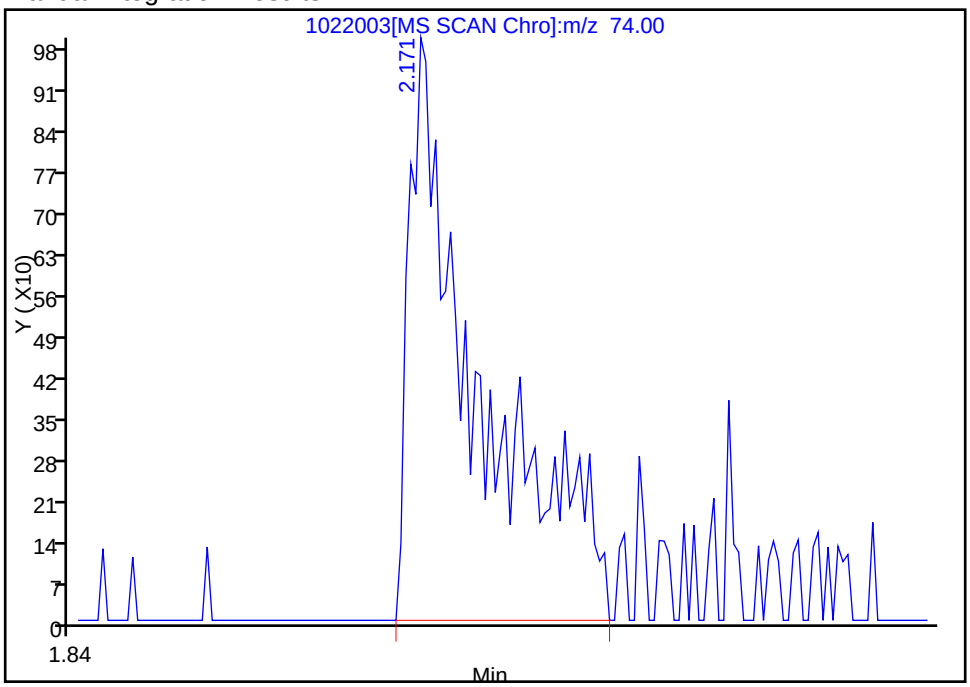
Processing Integration Results

RT: 2.17
Response: 1759
Amount: 0.733995



Manual Integration Results

RT: 2.17
Response: 4478
Amount: 1.728498



Reviewer: phelpsk, 23-Oct-2013 10:11:52
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

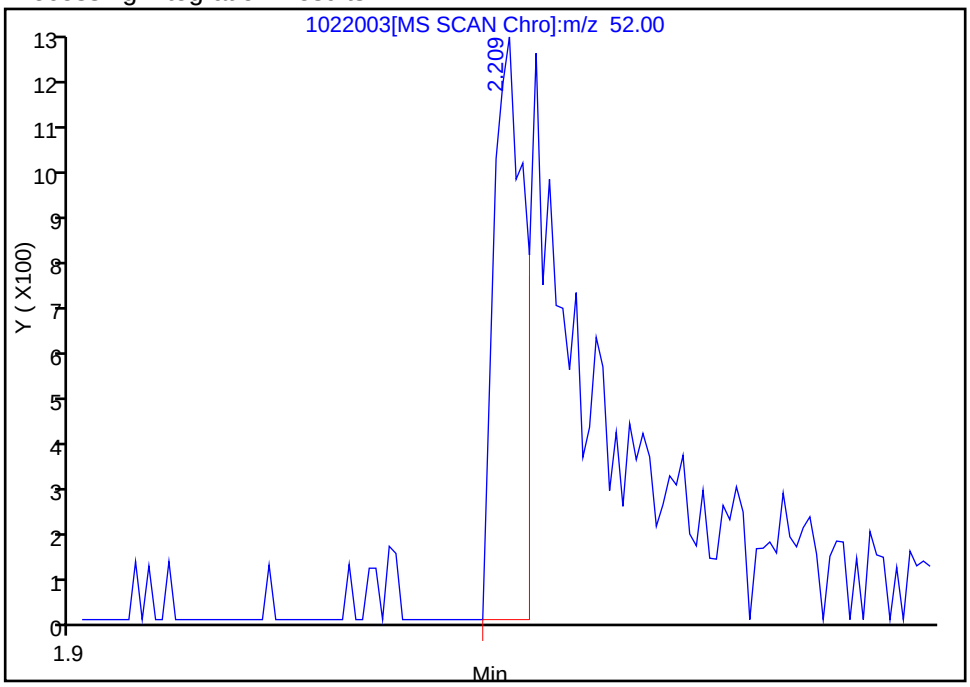
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022003.D		
Injection Date:	22-Oct-2013 17:06:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	3
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

6 Pyridine, Signal: 1, m/z: 52.0 Type: quant, RT: 2.14

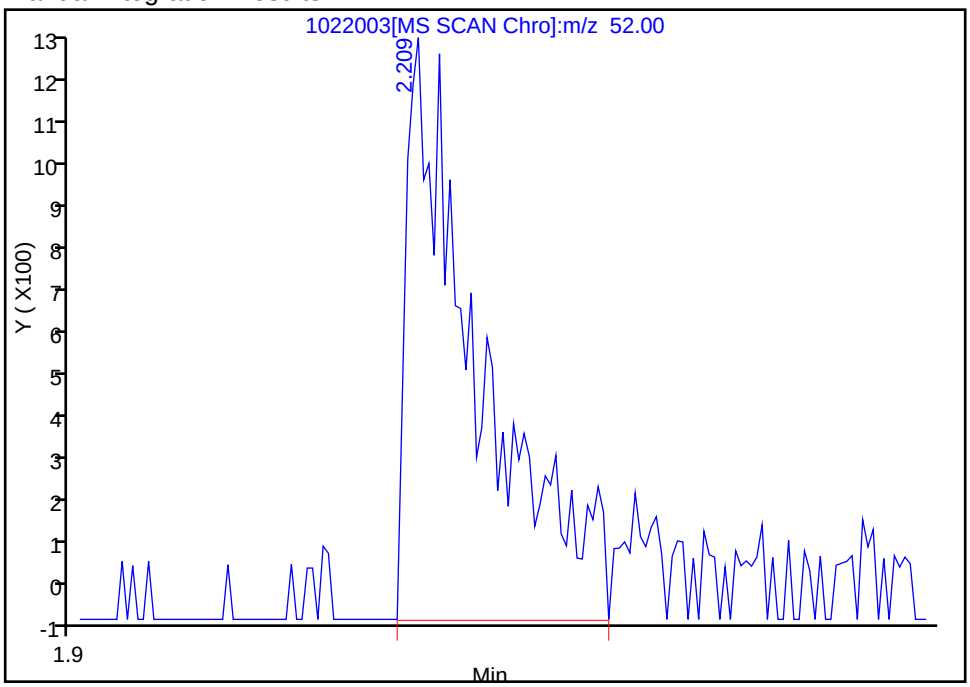
Processing Integration Results

RT: 2.21
Response: 1819
Amount: 0.632469



Manual Integration Results

RT: 2.21
Response: 5449
Amount: 1.737944



Reviewer: phelpsk, 23-Oct-2013 10:11:52
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

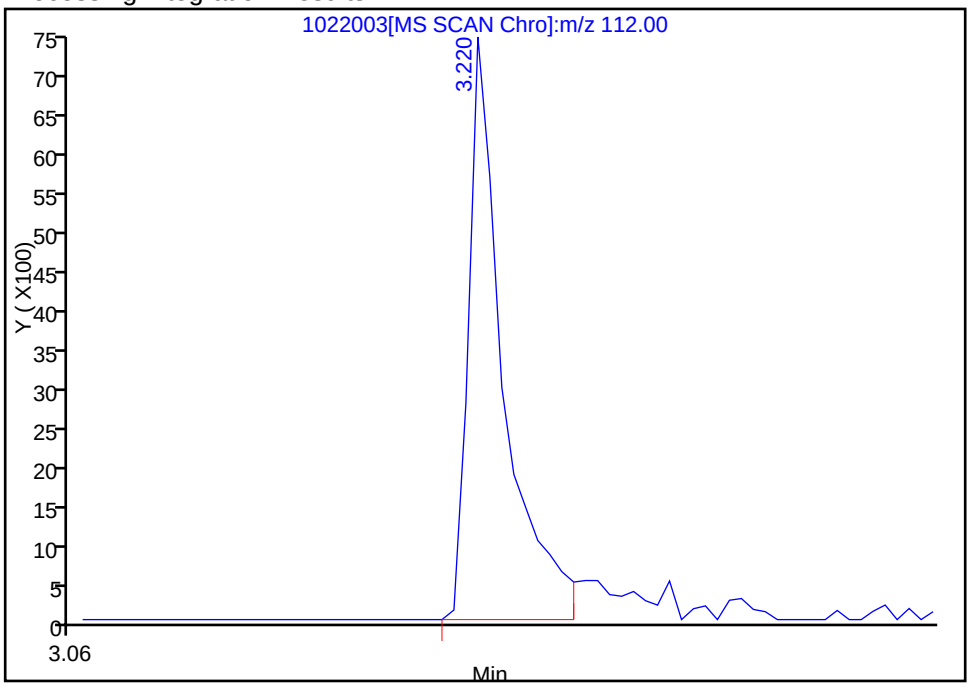
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022003.D		
Injection Date:	22-Oct-2013 17:06:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	3
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

$ 11 2-Fluorophenol, Signal: 1, m/z: 112.0 Type: quant, RT: 3.21

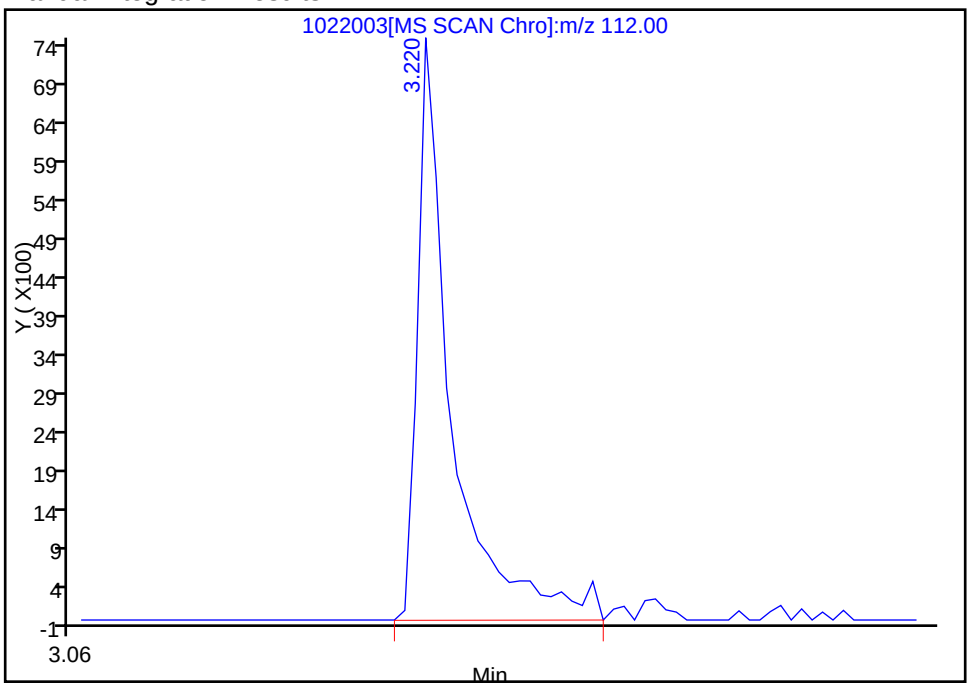
Processing Integration Results

RT: 3.22
Response: 7093
Amount: 1.516907



Manual Integration Results

RT: 3.22
Response: 7921
Amount: 1.672825



Reviewer: phelpsk, 23-Oct-2013 10:11:52
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

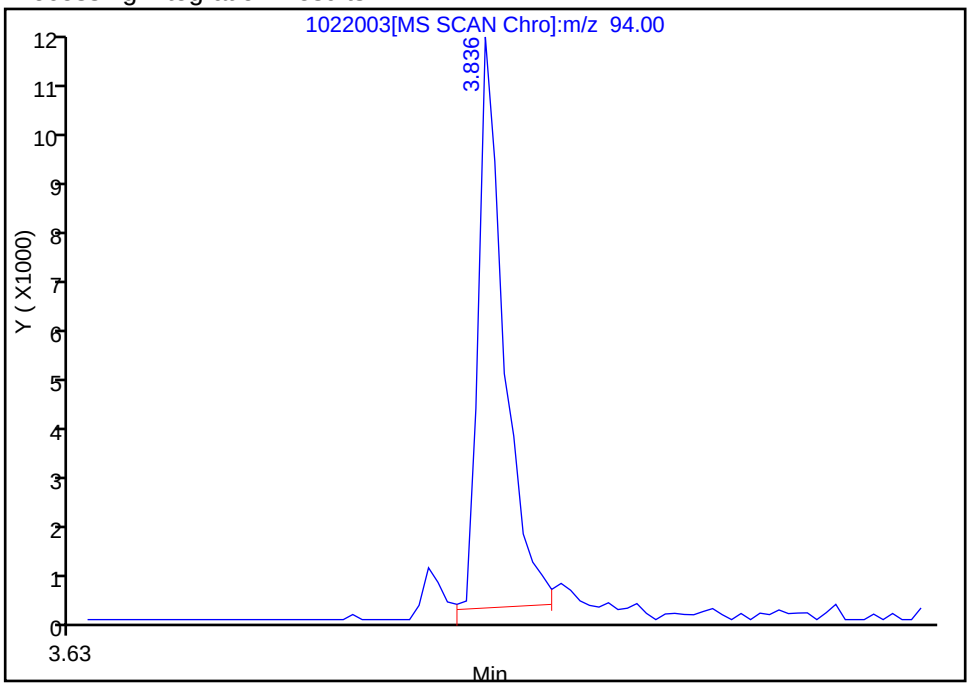
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022003.D		
Injection Date:	22-Oct-2013 17:06:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	3
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

16 Phenol, Signal: 1, m/z: 94.0 Type: quant, RT: 3.83

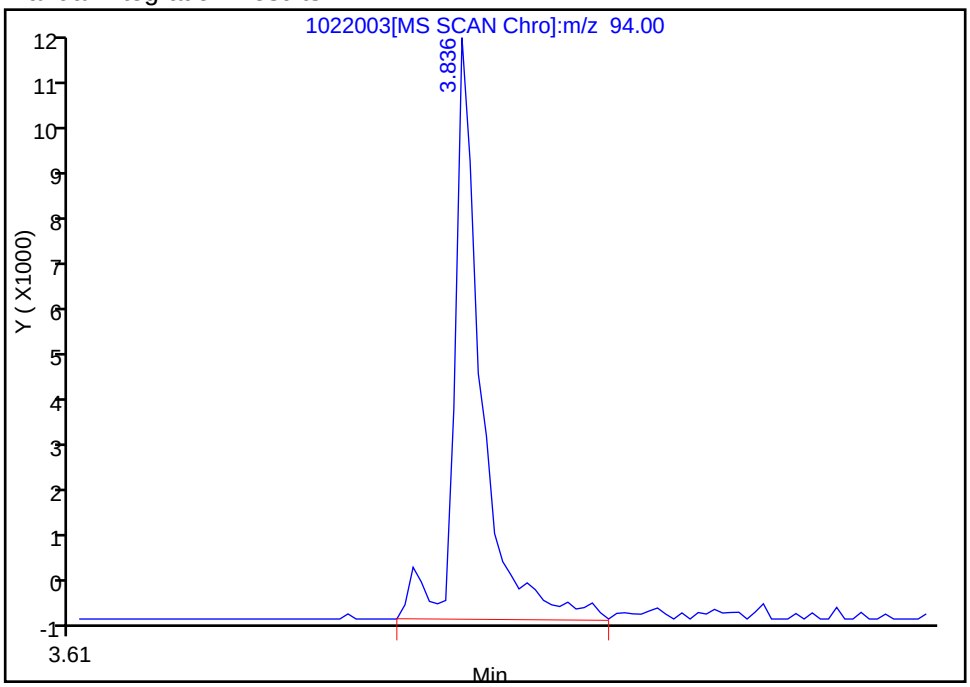
Processing Integration Results

RT: 3.84
Response: 10413
Amount: 1.593450



Manual Integration Results

RT: 3.84
Response: 13003
Amount: 1.935005



Reviewer: phelpsk, 23-Oct-2013 10:11:52
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022004.D		
Lims ID:	STD 2	Client ID:	
Inject. Date:	22-Oct-2013 17:28:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	STD 2		
Misc. Info.:	490-0027160-006		
Operator:	HP-31	Instrument ID:	HP31
Injection Vol:	1.0 ul	ALS Bottle#:	7
Lims Batch ID:	116166	Lims Sample ID:	6
Sublist:	chrom-8270HP31*sub30		
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\8270HP31.m		
Last Update:	24-Oct-2013 12:55:21	Calib Date:	22-Oct-2013 19:23:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022009.D		
Limit Group:	MSS 8270C ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK049		
First Level Reviewer: phelpsk		Date:	23-Oct-2013 10:09:25

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	4.007	4.009	-0.002	94	174188	40.0	
4 1,4-Dioxane	88	1.821	1.813	0.008	80	10408	5.02	
5 N-Nitrosodimethylamine	74	2.145	2.114	0.031	82	13902	4.98	M
6 Pyridine	52	2.169	2.142	0.027	96	16180	4.79	M
$ 11 2-Fluorophenol	112	3.217	3.214	0.003	87	23934	4.70	
21 Benzaldehyde	105	3.739	3.736	0.003	94	12115	5.07	
17 Aniline	93	3.805	3.807	-0.002	97	39643	4.88	
$ 15 Phenol-d5	99	3.824	3.821	0.003	0	33972	4.95	
16 Phenol	94	3.833	3.830	0.003	92	34618	4.79	
18 Bis(2-chloroethyl)ether	93	3.847	3.849	-0.002	94	26908	5.07	
19 2-Chlorophenol	128	3.894	3.892	0.002	92	30835	5.10	
20 n-Decane	57	3.909	3.906	0.003	97	25602	5.27	
22 1,3-Dichlorobenzene	146	3.970	3.972	-0.002	96	34851	5.27	
23 1,4-Dichlorobenzene	146	4.021	4.019	0.002	98	34549	5.20	
24 Benzyl alcohol	108	4.106	4.103	0.003	95	17924	4.46	
25 1,2-Dichlorobenzene	146	4.111	4.113	-0.002	96	33530	5.21	
2 Indene	115	4.167	4.169	-0.002	75	53367	5.36	
27 2,2'-oxybis[1-chloropropane]	121	4.181	4.183	-0.002	92	11326	5.42	
26 2-Methylphenol	108	4.191	4.188	0.003	88	28111	5.14	
32 N-Nitrosodi-n-propylamine	70	4.261	4.263	-0.002	68	19160	4.98	
30 Acetophenone	105	4.261	4.263	-0.002	95	38569	4.98	
28 3 & 4 Methylphenol	108	4.289	4.287	0.002	0	27758	4.78	
33 Hexachloroethane	117	4.318	4.319	-0.001	96	11673	5.24	
* 37 Naphthalene-d8	136	4.797	4.799	-0.002	99	682054	40.0	
$ 46 Nitrobenzene-d5	82	4.355	4.357	-0.002	84	26730	4.79	
47 Nitrobenzene	77	4.365	4.366	-0.001	82	27566	5.13	
48 Isophorone	82	4.510	4.512	-0.002	96	54182	5.27	
49 2-Nitrophenol	139	4.567	4.564	0.003	87	16477	4.81	
50 2,4-Dimethylphenol	107	4.605	4.602	0.002	91	29244	5.12	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
52 Bis(2-chloroethoxy)methane	93	4.647	4.649	-0.002	99	32573	5.30	
51 Benzoic acid	105	4.661	4.667	-0.006	71	16309	5.27	
53 2,4-Dichlorophenol	162	4.731	4.729	0.002	89	25964	5.03	
55 1,2,4-Trichlorobenzene	180	4.764	4.761	0.003	90	27988	5.30	
56 Naphthalene	128	4.811	4.813	-0.002	70	96236	5.55	
57 4-Chloroaniline	127	4.849	4.851	-0.002	85	38896	4.89	
59 Hexachlorobutadiene	225	4.887	4.888	-0.001	90	15638	5.60	
42 Caprolactam	113	5.065	5.072	-0.007	84	12143	4.64	
62 4-Chloro-3-methylphenol	107	5.188	5.189	-0.001	89	26891	4.95	
65 2-Methylnaphthalene	142	5.268	5.269	-0.001	88	70493	5.45	
66 1-Methylnaphthalene	142	5.338	5.335	0.003	80	66679	5.45	
45 1,2,4,5-Tetrachlorobenzene	216	5.385	5.387	-0.002	94	29747	5.42	
43 1,1'-Biphenyl	154	5.611	5.613	-0.002	94	84324	5.41	
* 72 Acenaphthene-d10	164	6.081	6.078	0.003	86	468899	40.0	
76 Hexachlorocyclopentadiene	237	5.376	5.377	-0.001	88	3690	8.04	
77 2,4,6-Trichlorophenol	196	5.484	5.481	0.003	83	19427	4.92	
78 2,4,5-Trichlorophenol	196	5.531	5.528	0.003	95	21220	5.04	
$ 79 2-Fluorobiphenyl (Surr)	172	5.536	5.537	-0.001	99	77736	5.46	
83 2-Chloronaphthalene	162	5.625	5.627	-0.002	84	63421	5.26	
84 2-Nitroaniline	65	5.714	5.711	0.003	90	14160	4.55	
85 Dimethyl phthalate	163	5.855	5.857	-0.002	100	79381	5.27	
81 1,3-Dinitrobenzene	168	5.888	5.890	-0.002	89	11427	3.78	
86 2,6-Dinitrotoluene	165	5.907	5.909	-0.002	70	17878	4.87	
87 Acenaphthylene	152	5.959	5.961	-0.002	88	108697	5.35	
88 3-Nitroaniline	138	6.057	6.055	0.002	93	19841	4.88	
89 Acenaphthene	153	6.104	6.106	-0.002	94	70982	5.39	
90 2,4-Dinitrophenol	184	6.152	6.149	0.003	79	17222	10.6	
92 Dibenzofuran	168	6.260	6.261	-0.001	85	100941	5.38	
93 2,4-Dinitrotoluene	165	6.260	6.261	-0.001	58	24568	4.72	
91 4-Nitrophenol	65	6.278	6.271	0.007	80	27472	10.9	M
96 2,3,4,6-Tetrachlorophenol	232	6.387	6.384	0.003	70	18275	4.94	
97 Diethyl phthalate	149	6.485	6.487	-0.002	98	79479	5.32	
196 Hexadecane	57	6.504	6.506	-0.002	0	33835	5.11	
99 Fluorene	166	6.575	6.577	-0.001	83	84224	5.36	
98 4-Chlorophenyl phenyl ether	204	6.584	6.586	-0.002	88	38304	5.32	
100 4-Nitroaniline	138	6.612	6.614	-0.002	86	20803	5.03	
101 Azobenzene	77	6.735	6.736	-0.001	97	63497	5.05	
* 106 Phenanthrene-d10	188	7.529	7.526	0.003	96	862571	40.0	
116 4,6-Dinitro-2-methylphenol	198	6.641	6.642	-0.001	87	27689	9.77	
117 N-Nitrosodiphenylamine	169	6.702	6.703	-0.001	58	53068	5.30	
$ 119 2,4,6-Tribromophenol	330	6.815	6.816	-0.002	85	12318	4.78	
120 4-Bromophenyl phenyl ether	248	7.068	7.070	-0.002	59	22122	5.05	
121 Hexachlorobenzene	284	7.120	7.117	0.003	93	26307	5.24	
112 Atrazine	200	7.266	7.268	-0.002	93	22281	4.94	
124 Pentachlorophenol	266	7.346	7.343	0.003	88	25453	10.0	
115 n-Octadecane	57	7.463	7.465	-0.002	96	34914	4.92	
126 Phenanthrene	178	7.553	7.555	-0.002	89	128184	5.58	
129 Anthracene	178	7.604	7.606	-0.002	97	129169	5.53	
131 Carbazole	167	7.802	7.804	-0.002	82	130782	5.45	
132 Di-n-butyl phthalate	149	8.235	8.236	-0.001	100	130607	5.15	
135 Fluoranthene	202	8.888	8.890	-0.002	97	140602	5.39	
* 140 Chrysene-d12	240	10.586	10.587	-0.001	79	1103865	40.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
145 Benzidine	184	9.090	9.087	0.003	96	41435	4.59	
146 Pyrene	202	9.142	9.144	-0.002	96	152511	5.28	
$ 147 Terphenyl-d14	244	9.372	9.374	-0.002	98	109301	5.17	
150 Butyl benzyl phthalate	149	9.993	9.995	-0.002	92	60736	4.94	
152 Benzo[a]anthracene	228	10.572	10.573	-0.001	98	150255	5.24	
151 3,3'-Dichlorobenzidine	252	10.581	10.583	-0.002	55	52543	4.94	
153 Chrysene	228	10.614	10.616	-0.002	91	150425	5.48	
154 Bis(2-ethylhexyl) phthalate	149	10.713	10.714	-0.001	94	83102	5.06	
* 156 Perylene-d12	264	12.175	12.177	-0.002	82	1165930	40.0	
158 Di-n-octyl phthalate	149	11.460	11.462	-0.002	99	145766	4.90	
159 Benzo[b]fluoranthene	252	11.780	11.782	-0.002	92	161415	5.13	
161 Benzo[k]fluoranthene	252	11.808	11.810	-0.002	95	175136	5.35	
162 Benzo[a]pyrene	252	12.114	12.116	-0.002	75	153695	5.14	
164 Indeno[1,2,3-cd]pyrene	276	13.205	13.207	-0.001	95	193857	5.24	
165 Dibenz(a,h)anthracene	278	13.228	13.230	-0.002	81	165664	5.32	
166 Benzo[g,h,i]perylene	276	13.473	13.479	-0.006	93	163714	5.26	
S 172 Methyl Phenols,Total	1				0		9.92	
S 167 Total Cresols	1				0		9.92	

QC Flag Legend

Review Flags
M - Manually Integrated

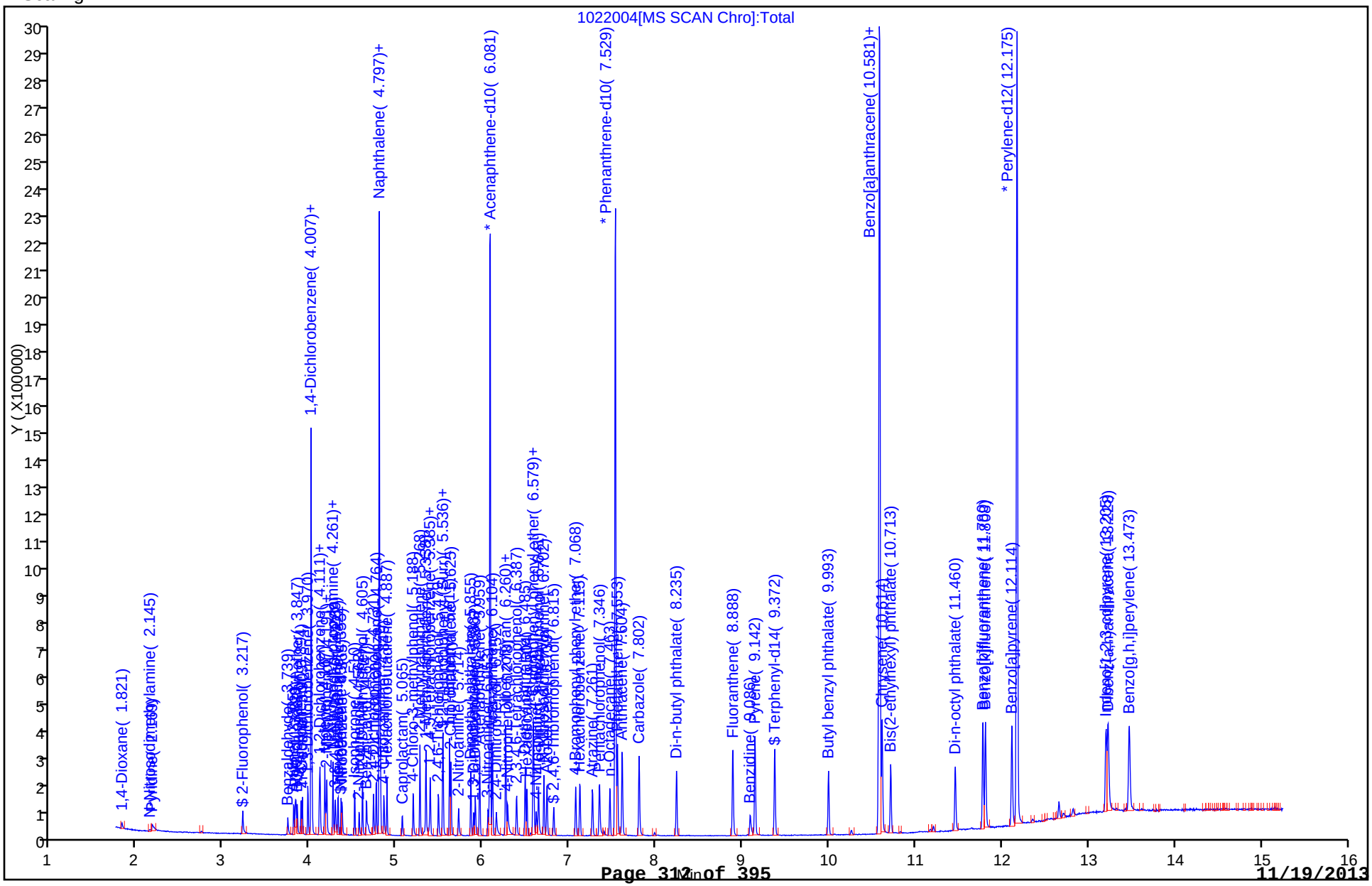
Report Date: 24-Oct-2013 12:55:21 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022004.D

Injection Date:	22-Oct-2013 17:28:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	6
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



11/19/2013

Manual Integration/User Assign Peak Report

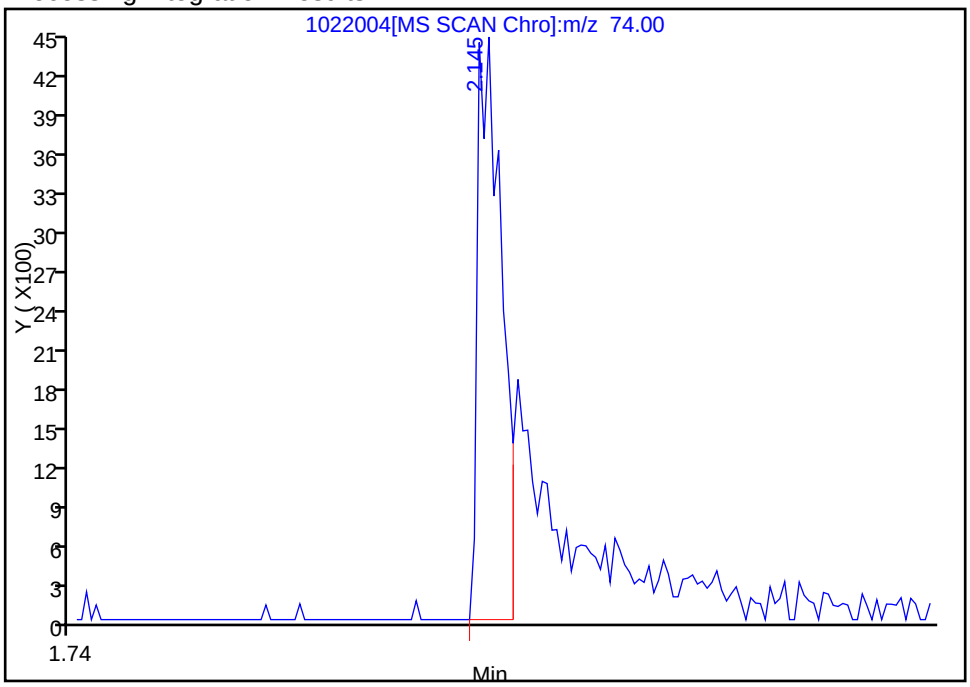
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022004.D		
Injection Date:	22-Oct-2013 17:28:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	6
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

5 N-Nitrosodimethylamine, Signal: 1, m/z: 74.0 Type: quant, RT: 2.11

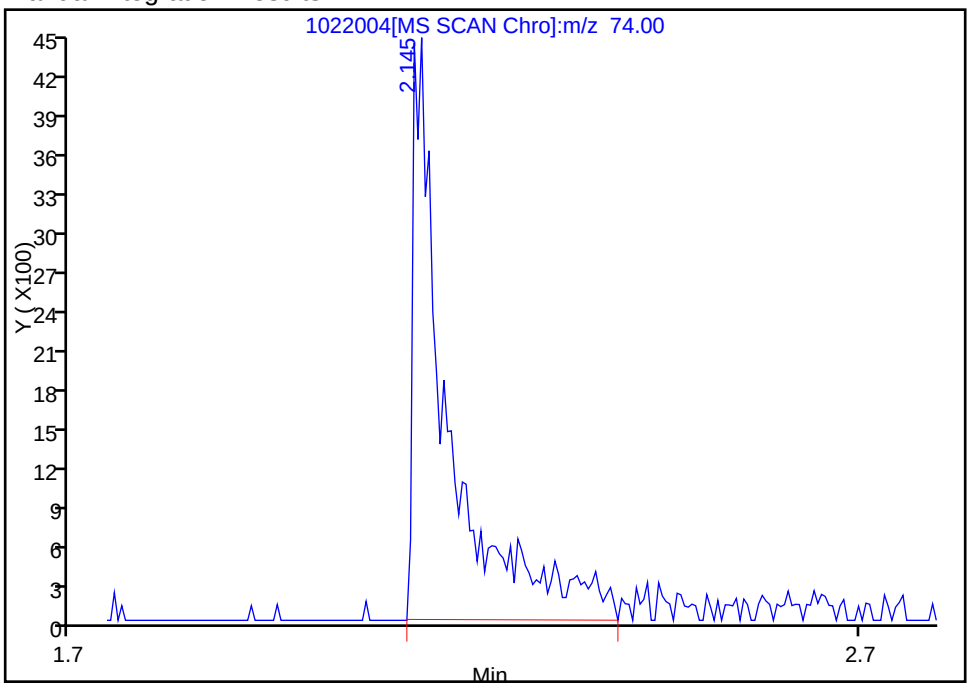
Processing Integration Results

RT: 2.15
Response: 7248
Amount: 3.032977



Manual Integration Results

RT: 2.15
Response: 13902
Amount: 4.984724



Reviewer: phelpsk, 23-Oct-2013 10:09:25
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

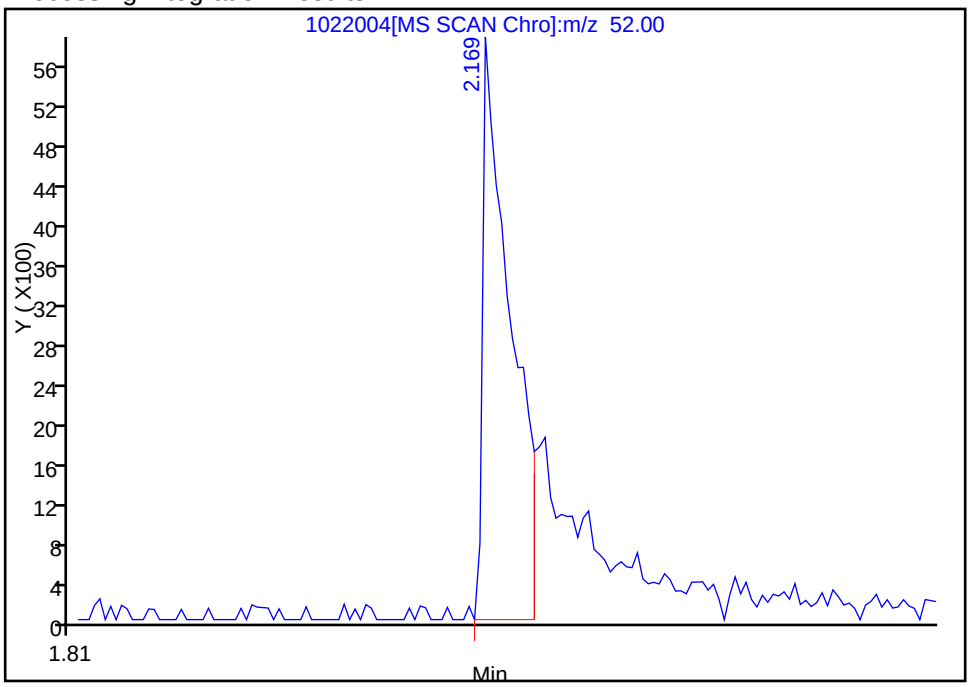
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022004.D		
Injection Date:	22-Oct-2013 17:28:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	6
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

6 Pyridine, Signal: 1, m/z: 52.0 Type: quant, RT: 2.14

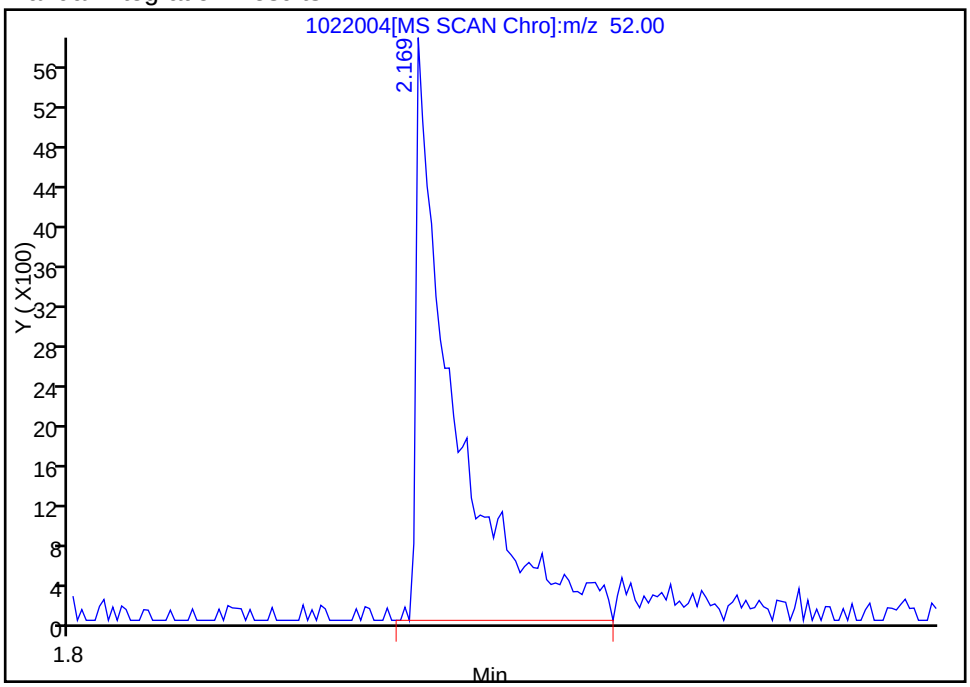
Processing Integration Results

RT: 2.17
Response: 9837
Amount: 3.374769



Manual Integration Results

RT: 2.17
Response: 16180
Amount: 4.793762



Reviewer: phelpsk, 23-Oct-2013 10:09:25
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

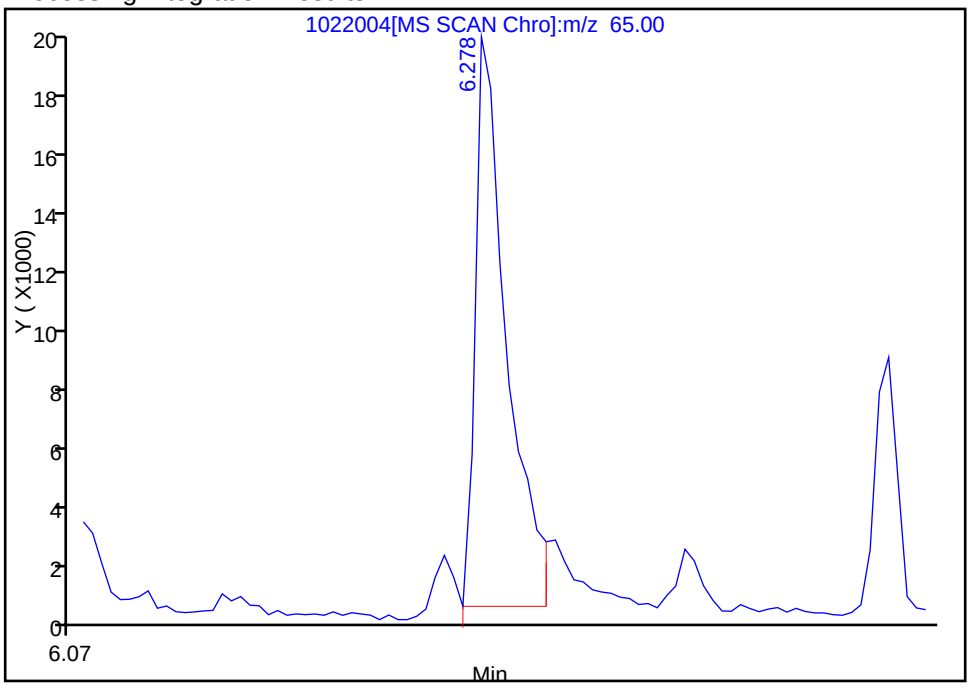
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022004.D		
Injection Date:	22-Oct-2013 17:28:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	6
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

91 4-Nitrophenol, Signal: 1, m/z: 65.0 Type: quant, RT: 6.27

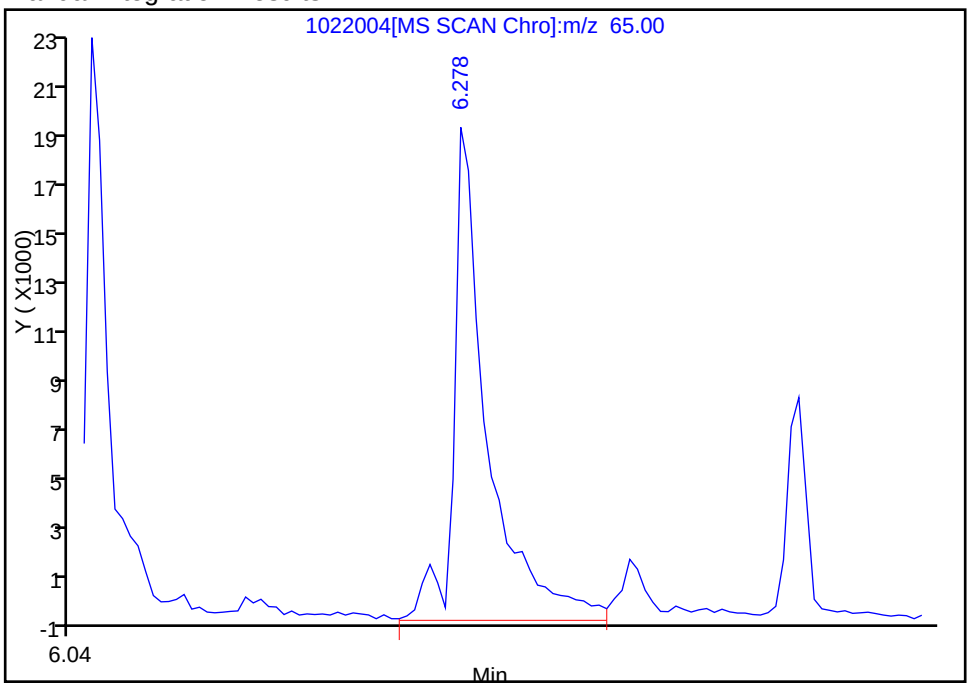
Processing Integration Results

RT: 6.28
Response: 20655
Amount: 7.997418



Manual Integration Results

RT: 6.28
Response: 27472
Amount: 10.939697



Reviewer: phelpsk, 23-Oct-2013 10:09:25
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022005.D
Lims ID: STD 3 Client ID:
Inject. Date: 22-Oct-2013 17:51:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: STD 3
Misc. Info.: 490-0027160-007
Operator: HP-31 Instrument ID: HP31
Injection Vol: 1.0 ul ALS Bottle#: 8
Lims Batch ID: 116166 Lims Sample ID: 7
Sublist: chrom-8270HP31*sub30
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\hp31\20131022-27160.b\8270HP31.m
Last Update: 24-Oct-2013 12:55:20 Calib Date: 22-Oct-2013 19:23:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022009.D
Limit Group: MSS 8270C ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK049

First Level Reviewer: phelpsk Date: 23-Oct-2013 10:07:04

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	4.010	4.009	0.001	93	168120	40.0	
4 1,4-Dioxane	88	1.819	1.813	0.006	91	19890	9.94	
5 N-Nitrosodimethylamine	74	2.129	2.114	0.015	80	23328	8.67	M
6 Pyridine	52	2.157	2.142	0.015	98	31628	9.71	M
$ 11 2-Fluorophenol	112	3.215	3.214	0.001	87	47270	9.61	
21 Benzaldehyde	105	3.737	3.736	0.001	87	21042	9.12	
17 Aniline	93	3.808	3.807	0.001	98	77747	9.91	
$ 15 Phenol-d5	99	3.827	3.821	0.006	0	64186	9.69	
16 Phenol	94	3.831	3.830	0.001	90	67586	9.68	
18 Bis(2-chloroethyl)ether	93	3.850	3.849	0.001	93	50613	9.87	
19 2-Chlorophenol	128	3.892	3.892	0.0	94	57958	9.94	
20 n-Decane	57	3.907	3.906	0.001	98	46344	9.89	
22 1,3-Dichlorobenzene	146	3.972	3.972	0.0	97	65657	10.3	
23 1,4-Dichlorobenzene	146	4.019	4.019	0.0	95	65397	10.2	
24 Benzyl alcohol	108	4.104	4.103	0.001	94	35803	9.22	
25 1,2-Dichlorobenzene	146	4.113	4.113	0.0	98	62956	10.1	
2 Indene	115	4.170	4.169	0.001	70	98256	10.2	
27 2,2'-oxybis[1-chloropropane]	121	4.184	4.183	0.001	93	19466	9.64	
26 2-Methylphenol	108	4.189	4.188	0.001	95	52948	10.0	
30 Acetophenone	105	4.259	4.263	-0.004	96	76410	10.2	
32 N-Nitrosodi-n-propylamine	70	4.259	4.263	-0.004	69	36801	9.91	
28 3 & 4 Methylphenol	108	4.287	4.287	0.0	0	56975	10.2	
33 Hexachloroethane	117	4.320	4.319	0.001	95	21489	10.0	
* 37 Naphthalene-d8	136	4.800	4.799	0.001	98	671179	40.0	
$ 46 Nitrobenzene-d5	82	4.353	4.357	-0.004	87	54362	9.91	
47 Nitrobenzene	77	4.367	4.366	0.001	78	51424	9.73	
48 Isophorone	82	4.513	4.512	0.001	96	99840	9.87	
49 2-Nitrophenol	139	4.565	4.564	0.001	87	32692	9.70	
50 2,4-Dimethylphenol	107	4.603	4.602	0.0	92	56322	10.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
52 Bis(2-chloroethoxy)methane	93	4.650	4.649	0.001	98	58486	9.66	
51 Benzoic acid	105	4.664	4.667	-0.003	76	36862	9.18	
53 2,4-Dichlorophenol	162	4.729	4.729	0.0	89	51008	10.1	
55 1,2,4-Trichlorobenzene	180	4.762	4.761	0.001	94	53394	10.3	
56 Naphthalene	128	4.809	4.813	-0.004	90	177300	10.4	
57 4-Chloroaniline	127	4.852	4.851	0.001	85	80823	10.3	
59 Hexachlorobutadiene	225	4.889	4.888	0.001	93	28155	10.3	
42 Caprolactam	113	5.068	5.072	-0.004	85	22789	8.85	
62 4-Chloro-3-methylphenol	107	5.190	5.189	0.001	91	53308	9.97	
65 2-Methylnaphthalene	142	5.270	5.269	0.001	83	132893	10.4	
66 1-Methylnaphthalene	142	5.336	5.335	0.001	81	124529	10.3	
45 1,2,4,5-Tetrachlorobenzene	216	5.388	5.387	0.001	93	56063	10.4	
43 1,1'-Biphenyl	154	5.613	5.613	0.0	93	161343	10.5	
* 72 Acenaphthene-d10	164	6.079	6.078	0.001	87	458910	40.0	
76 Hexachlorocyclopentadiene	237	5.378	5.377	0.001	87	9518	10.5	
77 2,4,6-Trichlorophenol	196	5.482	5.481	0.001	90	38610	10.0	
78 2,4,5-Trichlorophenol	196	5.529	5.528	0.001	95	40573	9.85	
$ 79 2-Fluorobiphenyl (Surr)	172	5.534	5.537	-0.003	99	148475	10.7	
83 2-Chloronaphthalene	162	5.628	5.627	0.001	89	120503	10.2	
84 2-Nitroaniline	65	5.712	5.711	0.001	91	29681	9.06	
85 Dimethyl phthalate	163	5.858	5.857	0.001	99	153288	10.4	
81 1,3-Dinitrobenzene	168	5.891	5.890	0.001	96	25221	8.53	
86 2,6-Dinitrotoluene	165	5.910	5.909	0.001	68	34979	9.74	
87 Acenaphthylene	152	5.961	5.961	0.0	90	207538	10.4	
88 3-Nitroaniline	138	6.055	6.055	0.0	94	41036	9.41	
89 Acenaphthene	153	6.107	6.106	0.001	93	133237	10.3	
90 2,4-Dinitrophenol	184	6.150	6.149	0.001	80	38135	18.3	
92 Dibenzofuran	168	6.262	6.261	0.001	86	191521	10.4	
93 2,4-Dinitrotoluene	165	6.262	6.261	0.001	59	49068	9.63	
91 4-Nitrophenol	65	6.276	6.271	0.005	84	49632	18.5	
96 2,3,4,6-Tetrachlorophenol	232	6.385	6.384	0.001	68	35507	9.82	
97 Diethyl phthalate	149	6.488	6.487	0.001	98	148925	10.2	
196 Hexadecane	57	6.507	6.506	0.001	0	65318	10.1	
99 Fluorene	166	6.577	6.577	0.001	84	162107	10.5	
98 4-Chlorophenyl phenyl ether	204	6.587	6.586	0.001	87	71502	10.2	
100 4-Nitroaniline	138	6.610	6.614	-0.004	84	40844	9.18	
101 Azobenzene	77	6.737	6.736	0.001	95	123884	10.1	
* 106 Phenanthrene-d10	188	7.527	7.526	0.001	97	845674	40.0	
116 4,6-Dinitro-2-methylphenol	198	6.639	6.642	-0.003	89	60237	19.1	
117 N-Nitrosodiphenylamine	169	6.704	6.703	0.001	57	99480	10.1	
$ 119 2,4,6-Tribromophenol	330	6.817	6.816	0.001	91	23773	9.41	
120 4-Bromophenyl phenyl ether	248	7.071	7.070	0.001	59	42090	9.81	
121 Hexachlorobenzene	284	7.118	7.117	0.001	90	49777	10.1	
112 Atrazine	200	7.264	7.268	-0.004	94	45326	10.3	
124 Pentachlorophenol	266	7.344	7.343	0.001	88	52443	19.0	
115 n-Octadecane	57	7.466	7.465	0.001	96	67775	9.75	
126 Phenanthrene	178	7.551	7.555	-0.004	94	233575	10.4	
129 Anthracene	178	7.607	7.606	0.001	96	234897	10.3	
131 Carbazole	167	7.805	7.804	0.001	81	245007	10.4	
132 Di-n-butyl phthalate	149	8.237	8.236	0.001	100	254488	10.2	
135 Fluoranthene	202	8.886	8.890	-0.004	97	266306	10.4	
* 140 Chrysene-d12	240	10.588	10.587	0.001	79	1046137	40.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
145 Benzidine	184	9.088	9.087	0.001	97	86377	9.70	
146 Pyrene	202	9.145	9.144	0.001	96	284165	10.4	
$ 147 Terphenyl-d14	244	9.370	9.374	-0.004	98	200685	10.0	
150 Butyl benzyl phthalate	149	9.996	9.995	0.001	93	119047	9.43	
152 Benzo[a]anthracene	228	10.574	10.573	0.001	99	276538	10.2	
151 3,3'-Dichlorobenzidine	252	10.584	10.583	0.001	62	100039	9.92	
153 Chrysene	228	10.617	10.616	0.001	93	272181	10.5	
154 Bis(2-ethylhexyl) phthalate	149	10.715	10.714	0.001	95	161844	9.64	
* 156 Perylene-d12	264	12.178	12.177	0.001	82	1115602	40.0	
158 Di-n-octyl phthalate	149	11.463	11.462	0.001	99	281389	9.24	
159 Benzo[b]fluoranthene	252	11.783	11.782	0.001	91	302696	10.1	
161 Benzo[k]fluoranthene	252	11.811	11.810	0.001	86	317754	10.1	
162 Benzo[a]pyrene	252	12.117	12.116	0.0	77	290840	10.2	
164 Indeno[1,2,3-cd]pyrene	276	13.203	13.207	-0.003	95	361031	10.2	
165 Dibenz(a,h)anthracene	278	13.231	13.230	0.001	82	305365	10.2	
166 Benzo[g,h,i]perylene	276	13.475	13.479	-0.004	90	304495	10.2	
S 172 Methyl Phenols,Total	1				0		20.2	
S 167 Total Cresols	1				0		20.2	

QC Flag Legend

Review Flags
M - Manually Integrated

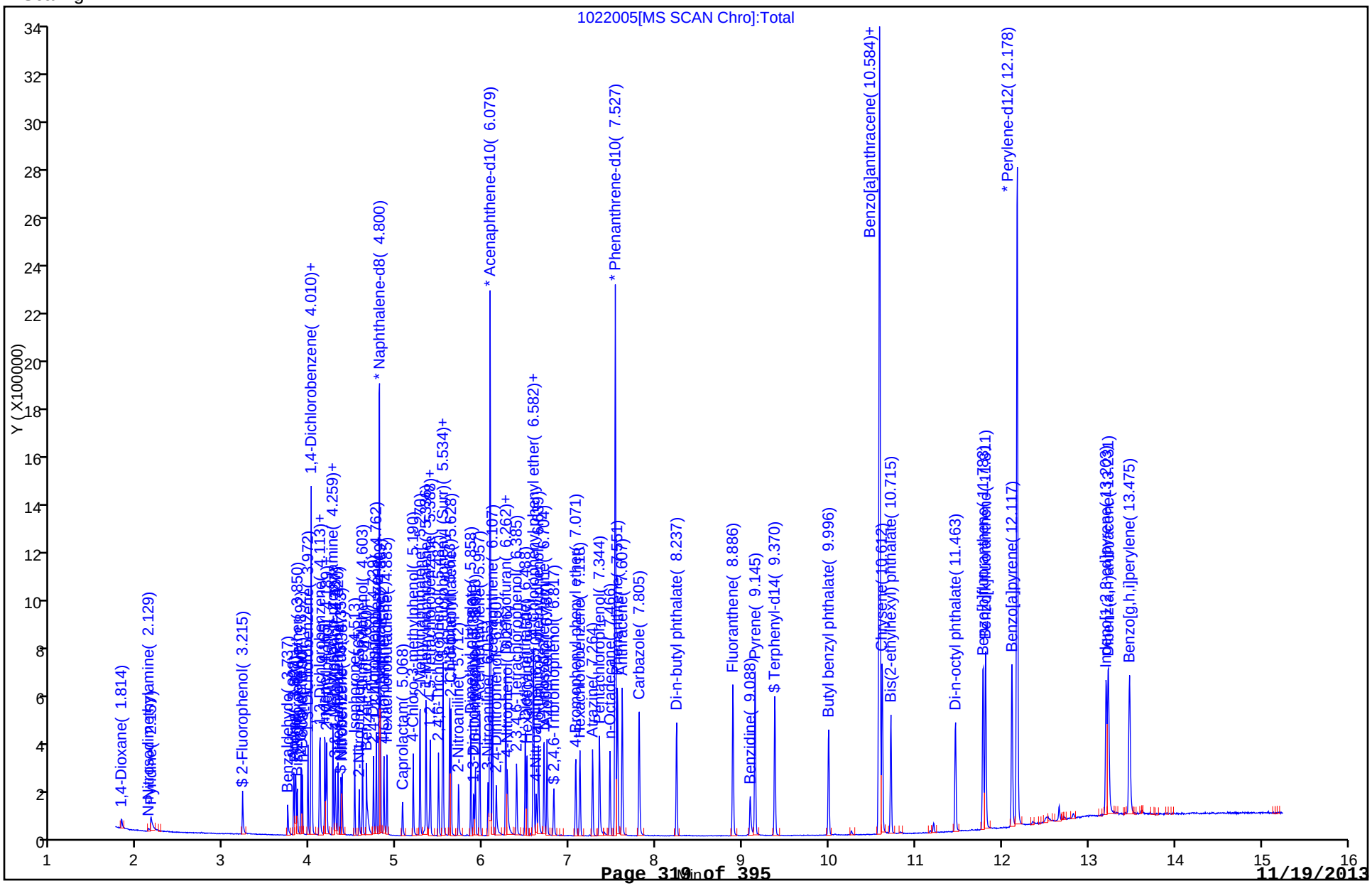
Report Date: 24-Oct-2013 12:55:20 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022005.D

Injection Date:	22-Oct-2013 17:51:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	7
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Manual Integration/User Assign Peak Report

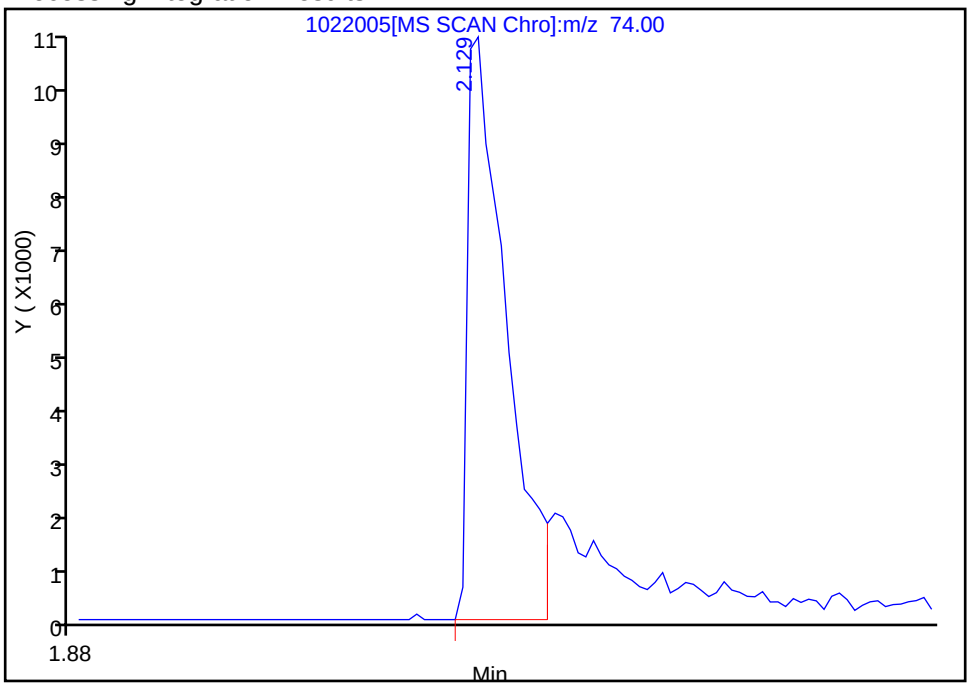
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022005.D		
Injection Date:	22-Oct-2013 17:51:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	7
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

5 N-Nitrosodimethylamine, Signal: 1, m/z: 74.0 Type: quant, RT: 2.11

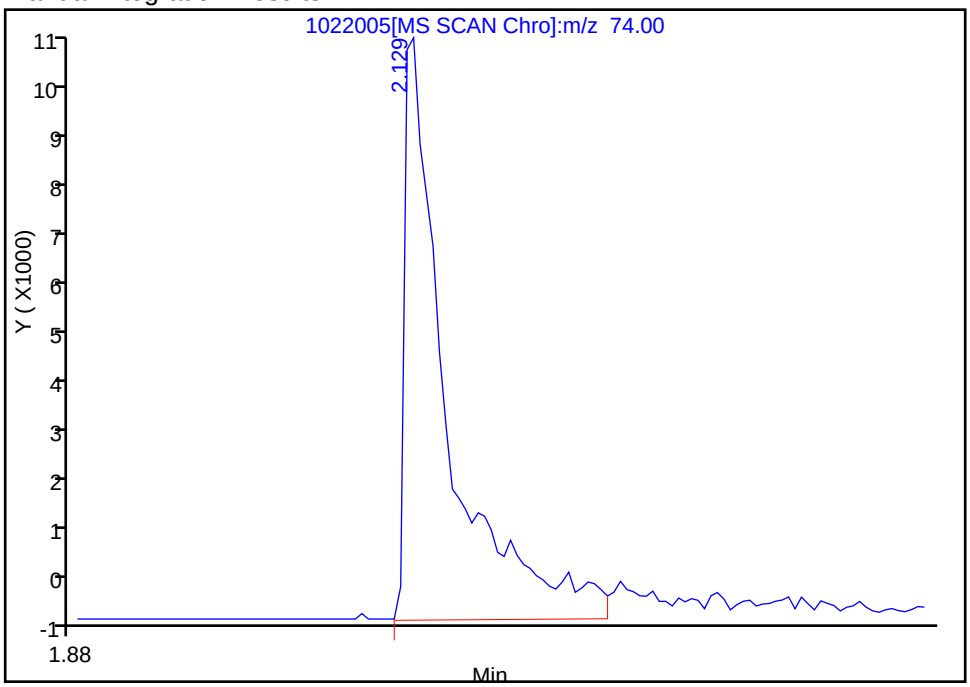
Processing Integration Results

RT: 2.13
Response: 17576
Amount: 7.901770



Manual Integration Results

RT: 2.13
Response: 23328
Amount: 8.666429



Reviewer: phelpsk, 23-Oct-2013 10:07:04
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

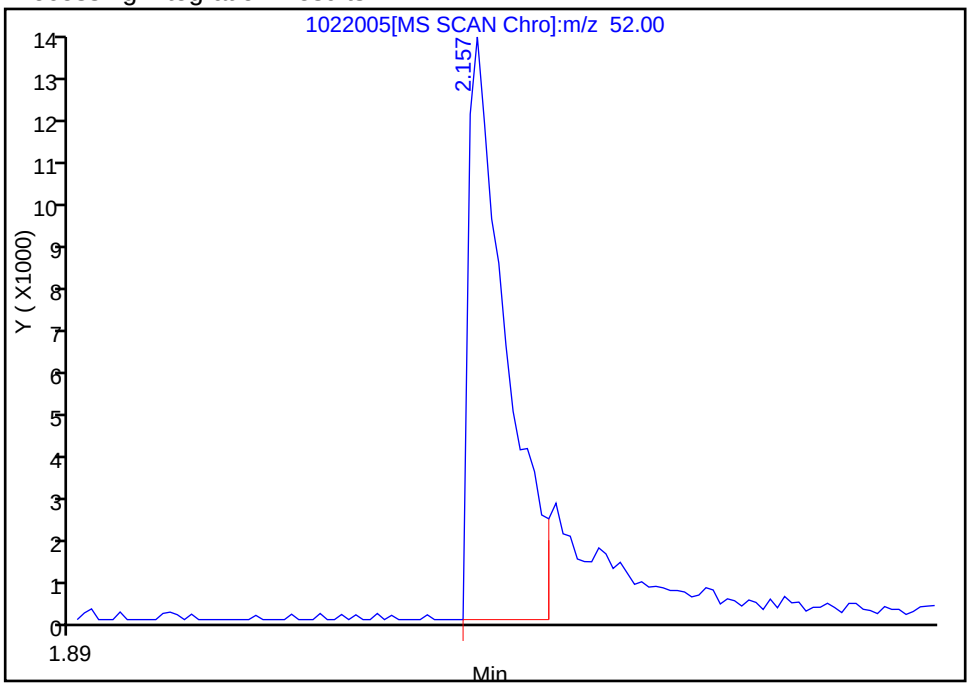
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022005.D		
Injection Date:	22-Oct-2013 17:51:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	7
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

6 Pyridine, Signal: 1, m/z: 52.0 Type: quant, RT: 2.14

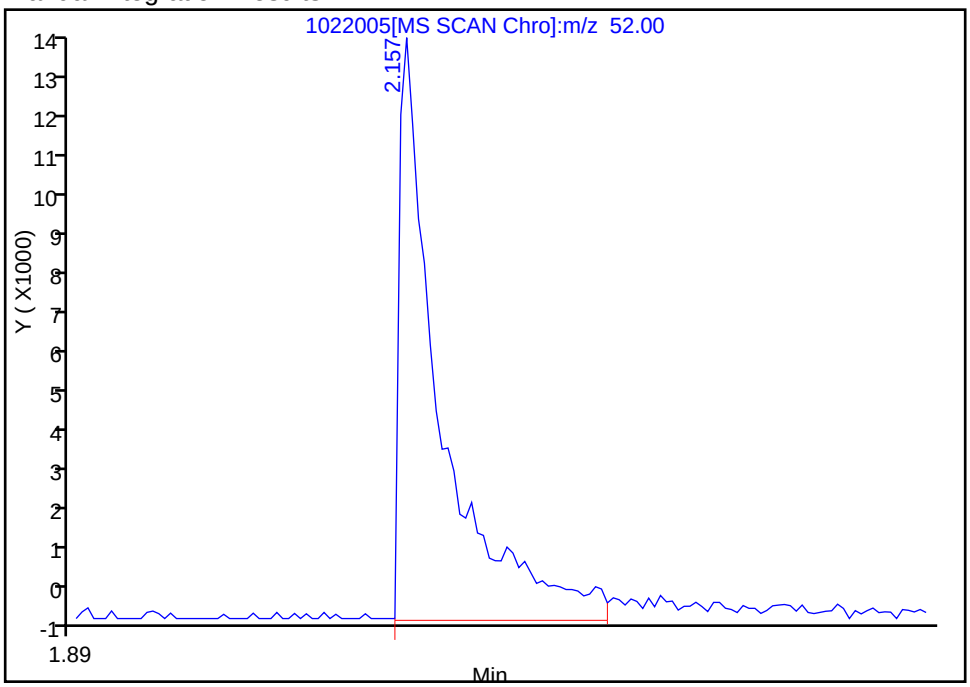
Processing Integration Results

RT: 2.16
Response: 23577
Amount: 8.737693



Manual Integration Results

RT: 2.16
Response: 31628
Amount: 9.708866



Reviewer: phelpsk, 23-Oct-2013 10:07:04
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022006.D		
Lims ID:	STD 4	Client ID:	
Inject. Date:	22-Oct-2013 18:14:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	STD 4		
Misc. Info.:	490-0027160-008		
Operator:	HP-31	Instrument ID:	HP31
Injection Vol:	1.0 ul	ALS Bottle#:	9
Lims Batch ID:	116166	Lims Sample ID:	8
Sublist:	chrom-8270HP31*sub30		
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\8270HP31.m		
Last Update:	24-Oct-2013 12:55:18	Calib Date:	22-Oct-2013 19:23:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022009.D		
Limit Group:	MSS 8270C ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK049		
First Level Reviewer: phelpsk		Date:	23-Oct-2013 10:05:45

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	4.009	4.009	0.0	93	169805	40.0	
4 1,4-Dioxane	88	1.813	1.813	0.0	93	36936	18.3	
5 N-Nitrosodimethylamine	74	2.114	2.114	0.0	82	50895	18.7	M
6 Pyridine	52	2.142	2.142	0.0	97	59960	18.2	
$ 11 2-Fluorophenol	112	3.214	3.214	0.0	88	97731	19.7	
21 Benzaldehyde	105	3.736	3.736	0.0	90	47782	20.5	
17 Aniline	93	3.807	3.807	0.0	99	161871	20.4	
$ 15 Phenol-d5	99	3.821	3.821	0.0	0	135882	20.3	
16 Phenol	94	3.830	3.830	0.0	91	141317	20.0	
18 Bis(2-chloroethyl)ether	93	3.849	3.849	0.0	93	101097	19.5	
19 2-Chlorophenol	128	3.892	3.892	0.0	94	118321	20.1	
20 n-Decane	57	3.906	3.906	0.0	97	90848	19.2	
22 1,3-Dichlorobenzene	146	3.972	3.972	0.0	98	129574	20.1	
23 1,4-Dichlorobenzene	146	4.019	4.019	0.0	94	129833	20.1	
24 Benzyl alcohol	108	4.103	4.103	0.0	95	78731	20.1	
25 1,2-Dichlorobenzene	146	4.113	4.113	0.0	98	127835	20.4	
2 Indene	115	4.169	4.169	0.0	75	194526	20.1	
27 2,2'-oxybis[1-chloropropane]	121	4.183	4.183	0.0	94	40563	19.9	
26 2-Methylphenol	108	4.188	4.188	0.0	93	106143	19.9	
30 Acetophenone	105	4.263	4.263	0.0	94	153514	20.3	
32 N-Nitrosodi-n-propylamine	70	4.263	4.263	0.0	70	74451	19.9	
28 3 & 4 Methylphenol	108	4.287	4.287	0.0	0	113792	20.1	
33 Hexachloroethane	117	4.319	4.319	0.0	97	42263	19.5	
* 37 Naphthalene-d8	136	4.799	4.799	0.0	98	687308	40.0	
$ 46 Nitrobenzene-d5	82	4.357	4.357	0.0	84	111971	19.9	
47 Nitrobenzene	77	4.366	4.366	0.0	80	106526	19.7	
48 Isophorone	82	4.512	4.512	0.0	96	205904	19.9	
49 2-Nitrophenol	139	4.564	4.564	0.0	87	70425	20.4	
50 2,4-Dimethylphenol	107	4.602	4.602	0.0	93	117667	20.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
52 Bis(2-chloroethoxy)methane	93	4.649	4.649	0.0	98	120846	19.5	
51 Benzoic acid	105	4.667	4.667	0.0	75	87706	18.3	
53 2,4-Dichlorophenol	162	4.729	4.729	0.0	89	108298	20.8	
55 1,2,4-Trichlorobenzene	180	4.761	4.761	0.0	95	105765	19.9	
56 Naphthalene	128	4.813	4.813	0.0	94	352953	20.2	
57 4-Chloroaniline	127	4.851	4.851	0.0	85	169103	21.1	
59 Hexachlorobutadiene	225	4.888	4.888	0.0	91	56295	20.0	
42 Caprolactam	113	5.072	5.072	0.0	82	51169	19.4	
62 4-Chloro-3-methylphenol	107	5.189	5.189	0.0	90	112064	20.5	
65 2-Methylnaphthalene	142	5.269	5.269	0.0	86	265118	20.3	
66 1-Methylnaphthalene	142	5.335	5.335	0.0	82	249127	20.2	
45 1,2,4,5-Tetrachlorobenzene	216	5.387	5.387	0.0	92	111922	20.2	
43 1,1'-Biphenyl	154	5.613	5.613	0.0	94	326076	20.8	
* 72 Acenaphthene-d10	164	6.078	6.078	0.0	87	476005	40.0	
76 Hexachlorocyclopentadiene	237	5.377	5.377	0.0	93	28818	18.0	
77 2,4,6-Trichlorophenol	196	5.481	5.481	0.0	88	81109	20.3	
78 2,4,5-Trichlorophenol	196	5.528	5.528	0.0	97	87462	20.5	
$ 79 2-Fluorobiphenyl (Surr)	172	5.537	5.537	0.0	99	294113	20.4	
83 2-Chloronaphthalene	162	5.627	5.627	0.0	94	250178	20.4	
84 2-Nitroaniline	65	5.711	5.711	0.0	91	68666	19.5	
85 Dimethyl phthalate	163	5.857	5.857	0.0	99	313109	20.5	
81 1,3-Dinitrobenzene	168	5.890	5.890	0.0	97	57528	18.8	
86 2,6-Dinitrotoluene	165	5.909	5.909	0.0	85	75303	20.2	
87 Acenaphthylene	152	5.961	5.961	0.0	93	429238	20.8	
88 3-Nitroaniline	138	6.055	6.055	0.0	90	91114	19.2	
89 Acenaphthene	153	6.106	6.106	0.0	93	272234	20.3	
90 2,4-Dinitrophenol	184	6.149	6.149	0.0	81	89035	35.6	
92 Dibenzofuran	168	6.261	6.261	0.0	85	389184	20.4	
93 2,4-Dinitrotoluene	165	6.261	6.261	0.0	81	103505	19.6	
91 4-Nitrophenol	65	6.271	6.271	0.0	83	110978	37.6	
96 2,3,4,6-Tetrachlorophenol	232	6.384	6.384	0.0	68	76172	20.3	
97 Diethyl phthalate	149	6.487	6.487	0.0	99	302901	20.0	
196 Hexadecane	57	6.506	6.506	0.0	0	131377	19.6	
99 Fluorene	166	6.577	6.577	0.0	83	325565	20.4	
98 4-Chlorophenyl phenyl ether	204	6.586	6.586	0.0	89	146649	20.1	
100 4-Nitroaniline	138	6.614	6.614	0.0	94	93717	19.2	
101 Azobenzene	77	6.736	6.736	0.0	96	253567	19.9	
* 106 Phenanthrene-d10	188	7.526	7.526	0.0	96	878417	40.0	
116 4,6-Dinitro-2-methylphenol	198	6.642	6.642	0.0	91	131004	37.7	
117 N-Nitrosodiphenylamine	169	6.703	6.703	0.0	58	206615	20.2	
$ 119 2,4,6-Tribromophenol	330	6.816	6.816	0.0	91	49956	19.0	
120 4-Bromophenyl phenyl ether	248	7.070	7.070	0.0	59	89833	20.2	
121 Hexachlorobenzene	284	7.117	7.117	0.0	94	101029	19.8	
112 Atrazine	200	7.268	7.268	0.0	94	94082	20.5	
124 Pentachlorophenol	266	7.343	7.343	0.0	87	115256	38.1	
115 n-Octadecane	57	7.465	7.465	0.0	96	141163	19.5	
126 Phenanthrene	178	7.555	7.555	0.0	96	474755	20.3	
129 Anthracene	178	7.606	7.606	0.0	96	490098	20.6	
131 Carbazole	167	7.804	7.804	0.0	82	495895	20.3	
132 Di-n-butyl phthalate	149	8.236	8.236	0.0	100	527797	20.4	
135 Fluoranthene	202	8.890	8.890	0.0	98	547601	20.6	
* 140 Chrysene-d12	240	10.587	10.587	0.0	80	1060281	40.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
145 Benzidine	184	9.087	9.087	0.0	99	182823	19.9	
146 Pyrene	202	9.144	9.144	0.0	95	567088	20.4	
$ 147 Terphenyl-d14	244	9.374	9.374	0.0	99	409256	20.2	
150 Butyl benzyl phthalate	149	9.995	9.995	0.0	94	250548	18.8	
152 Benzo[a]anthracene	228	10.573	10.573	0.0	99	549671	20.0	
151 3,3'-Dichlorobenzidine	252	10.583	10.583	0.0	61	204203	20.0	
153 Chrysene	228	10.616	10.616	0.0	91	532303	20.2	
154 Bis(2-ethylhexyl) phthalate	149	10.714	10.714	0.0	94	343165	19.4	
* 156 Perylene-d12	264	12.177	12.177	0.0	82	1099707	40.0	
158 Di-n-octyl phthalate	149	11.462	11.462	0.0	99	583870	18.7	
159 Benzo[b]fluoranthene	252	11.782	11.782	0.0	85	591810	19.9	
161 Benzo[k]fluoranthene	252	11.810	11.810	0.0	85	632021	20.5	
162 Benzo[a]pyrene	252	12.116	12.116	0.0	77	571437	20.3	
164 Indeno[1,2,3-cd]pyrene	276	13.207	13.207	0.0	91	703842	20.2	
165 Dibenz(a,h)anthracene	278	13.230	13.230	0.0	82	591630	20.1	
166 Benzo[g,h,i]perylene	276	13.479	13.479	0.0	93	591159	20.1	
S 167 Total Cresols	1				0		40.0	
S 172 Methyl Phenols,Total	1				0		40.0	

QC Flag Legend

Review Flags
M - Manually Integrated

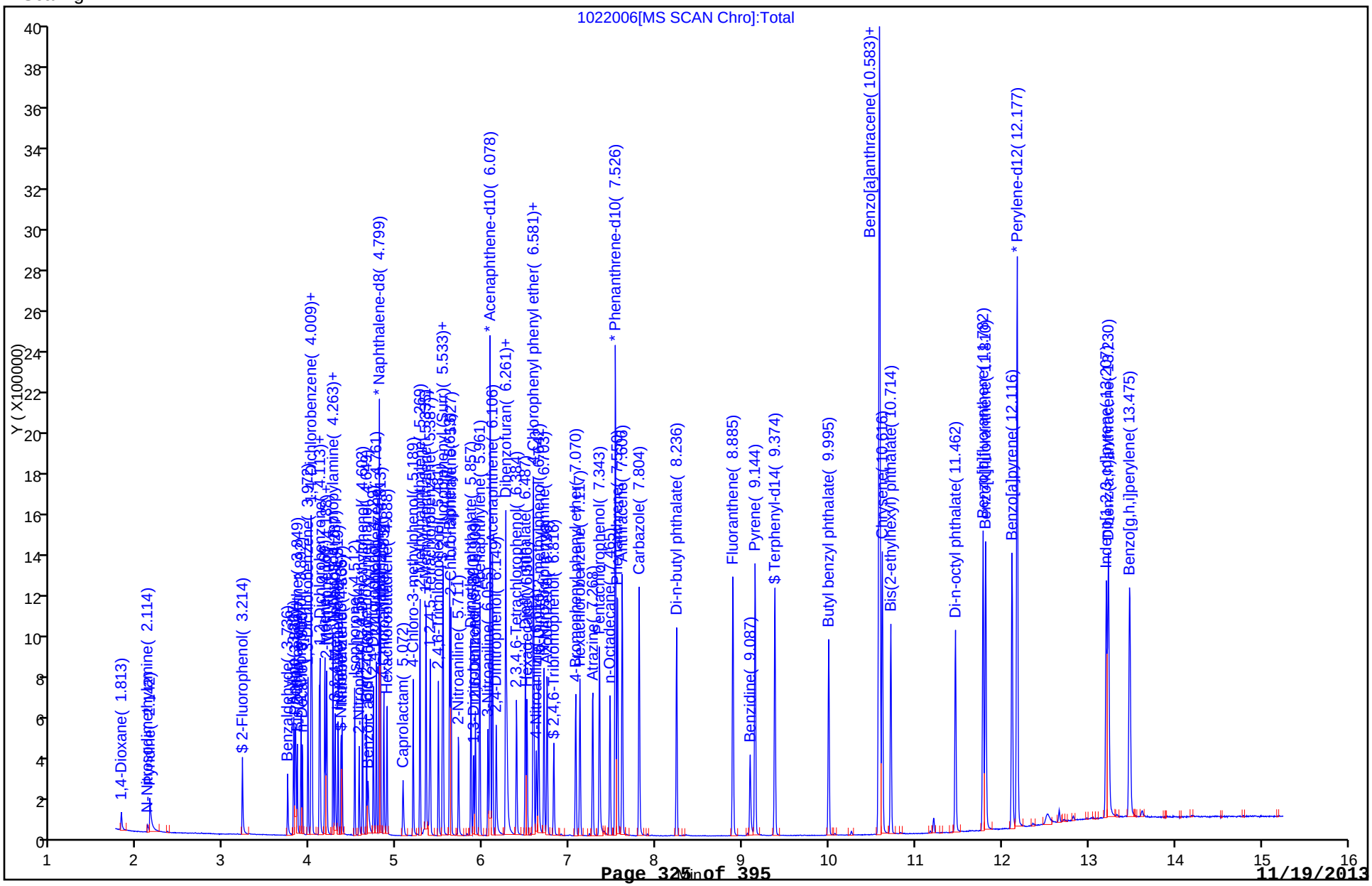
Report Date: 24-Oct-2013 12:55:18 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022006.D

Injection Date:	22-Oct-2013 18:14:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	8
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Manual Integration/User Assign Peak Report

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022006.D		
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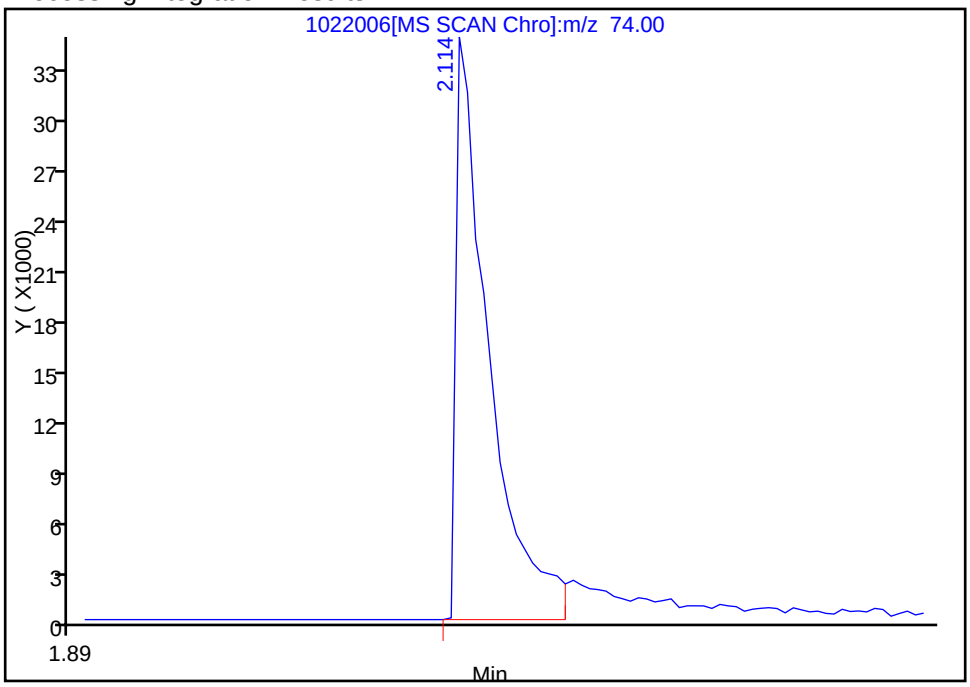
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	8
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

5 N-Nitrosodimethylamine, Signal: 1, m/z: 74.0 Type: quant, RT: 2.11

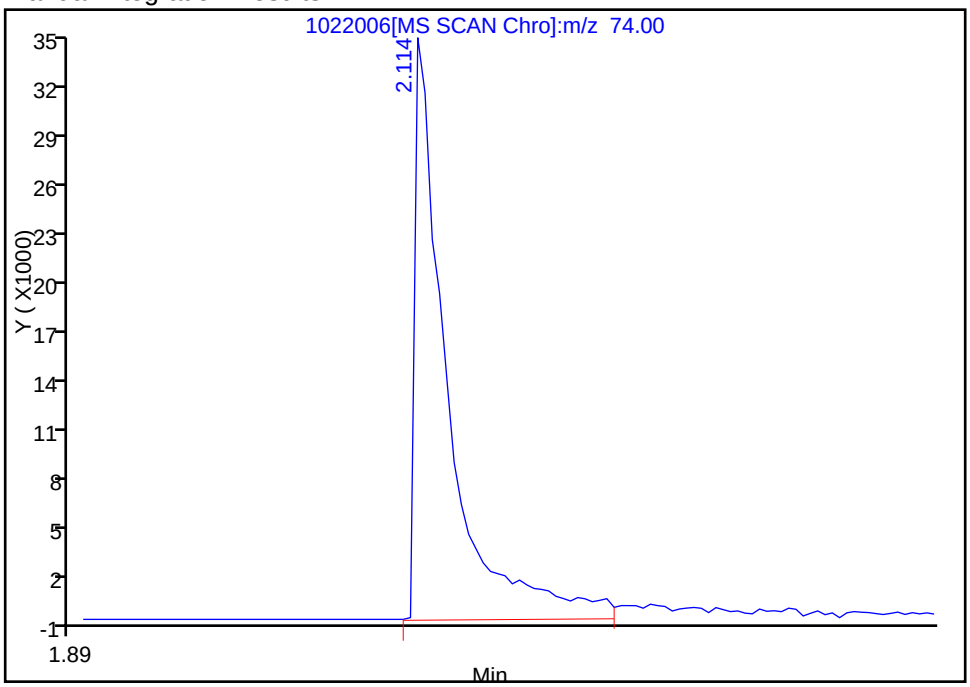
Processing Integration Results

RT: 2.11
Response: 45192
Amount: 20.487161



Manual Integration Results

RT: 2.11
Response: 50895
Amount: 18.720036



Reviewer: phelpsk, 23-Oct-2013 10:05:45
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022007.D		
Lims ID:	ICIS	Client ID:	
Inject. Date:	22-Oct-2013 18:37:30	Dil. Factor:	1.0000
Sample Type:	ICIS	Calib Level:	5
Sample ID:	ICIS		
Misc. Info.:	490-0027160-009		
Operator:	HP-31	Instrument ID:	HP31
Injection Vol:	1.0 ul	ALS Bottle#:	10
Lims Batch ID:	116166	Lims Sample ID:	9
Sublist:	chrom-8270HP31*sub30		
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\8270HP31.m		
Last Update:	24-Oct-2013 12:55:17	Calib Date:	22-Oct-2013 19:23:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022009.D		
Limit Group:	MSS 8270C ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK049		
First Level Reviewer: phelpsk		Date:	23-Oct-2013 10:55:54

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	4.010	4.010	0.0	93	156210	40.0	
4 1,4-Dioxane	88	1.814	1.814	0.0	92	98190	52.8	
5 N-Nitrosodimethylamine	74	2.110	2.110	0.0	94	133700	53.5	
6 Pyridine	52	2.134	2.134	0.0	96	166975	55.2	
$ 11 2-Fluorophenol	112	3.211	3.211	0.0	89	252566	55.3	
21 Benzaldehyde	105	3.737	3.737	0.0	88	120179	56.1	
17 Aniline	93	3.808	3.808	0.0	98	408084	56.0	
$ 15 Phenol-d5	99	3.822	3.822	0.0	0	337071	54.8	
16 Phenol	94	3.827	3.827	0.0	93	353601	54.5	
18 Bis(2-chloroethyl)ether	93	3.850	3.850	0.0	99	243287	51.1	
19 2-Chlorophenol	128	3.892	3.892	0.0	94	293303	54.1	
20 n-Decane	57	3.906	3.906	0.0	97	226156	51.9	
22 1,3-Dichlorobenzene	146	3.972	3.972	0.0	97	307773	51.9	
23 1,4-Dichlorobenzene	146	4.019	4.019	0.0	95	306478	51.5	
24 Benzyl alcohol	108	4.104	4.104	0.0	94	199369	55.3	
25 1,2-Dichlorobenzene	146	4.113	4.113	0.0	98	293358	50.8	
2 Indene	115	4.170	4.170	0.0	75	463317	51.9	
27 2,2'-oxybis[1-chloropropane]	121	4.184	4.184	0.0	95	97397	51.9	
26 2-Methylphenol	108	4.189	4.189	0.0	93	264144	53.9	
30 Acetophenone	105	4.264	4.264	0.0	95	375075	54.0	
32 N-Nitrosodi-n-propylamine	70	4.264	4.264	0.0	92	187416	54.3	
28 3 & 4 Methylphenol	108	4.287	4.287	0.0	0	287913	55.3	
33 Hexachloroethane	117	4.320	4.320	0.0	98	103974	52.1	
* 37 Naphthalene-d8	136	4.800	4.800	0.0	98	634089	40.0	
$ 46 Nitrobenzene-d5	82	4.358	4.358	0.0	84	277184	53.5	
47 Nitrobenzene	77	4.367	4.367	0.0	82	267175	53.5	
48 Isophorone	82	4.513	4.513	0.0	96	514957	53.9	
49 2-Nitrophenol	139	4.565	4.565	0.0	87	175335	55.1	
50 2,4-Dimethylphenol	107	4.602	4.602	0.0	92	282040	53.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
52 Bis(2-chloroethoxy)methane	93	4.649	4.649	0.0	99	300655	52.6	
51 Benzoic acid	105	4.687	4.687	0.0	84	247361	51.4	
53 2,4-Dichlorophenol	162	4.729	4.729	0.0	91	256688	53.5	
55 1,2,4-Trichlorobenzene	180	4.762	4.762	0.0	95	251190	51.1	
56 Naphthalene	128	4.814	4.814	0.0	96	822826	51.1	
57 4-Chloroaniline	127	4.852	4.852	0.0	85	409934	55.4	
59 Hexachlorobutadiene	225	4.889	4.889	0.0	91	132485	51.1	
42 Caprolactam	113	5.087	5.087	0.0	82	131086	53.9	
62 4-Chloro-3-methylphenol	107	5.190	5.190	0.0	90	275393	54.5	
65 2-Methylnaphthalene	142	5.270	5.270	0.0	86	625148	52.0	
66 1-Methylnaphthalene	142	5.336	5.336	0.0	81	585509	51.5	
45 1,2,4,5-Tetrachlorobenzene	216	5.388	5.388	0.0	94	259990	50.9	
43 1,1'-Biphenyl	154	5.613	5.613	0.0	94	747462	51.6	
* 72 Acenaphthene-d10	164	6.079	6.079	0.0	81	437485	40.0	
76 Hexachlorocyclopentadiene	237	5.378	5.378	0.0	93	96985	48.4	
77 2,4,6-Trichlorophenol	196	5.482	5.482	0.0	89	199470	54.2	
78 2,4,5-Trichlorophenol	196	5.529	5.529	0.0	96	209362	53.3	
$ 79 2-Fluorobiphenyl (Surr)	172	5.538	5.538	0.0	99	670726	50.5	
83 2-Chloronaphthalene	162	5.627	5.627	0.0	95	572987	50.9	
84 2-Nitroaniline	65	5.717	5.717	0.0	92	176962	53.5	
85 Dimethyl phthalate	163	5.863	5.863	0.0	99	725971	51.6	
81 1,3-Dinitrobenzene	168	5.891	5.891	0.0	89	150044	53.2	
86 2,6-Dinitrotoluene	165	5.914	5.914	0.0	80	188395	55.0	
87 Acenaphthylene	152	5.961	5.961	0.0	94	978481	51.6	
88 3-Nitroaniline	138	6.055	6.055	0.0	93	228981	51.2	
89 Acenaphthene	153	6.107	6.107	0.0	93	624907	50.8	
90 2,4-Dinitrophenol	184	6.154	6.154	0.0	80	254385	101.1	
92 Dibenzofuran	168	6.262	6.262	0.0	84	896010	51.2	
93 2,4-Dinitrotoluene	165	6.262	6.262	0.0	62	257012	52.9	
91 4-Nitrophenol	65	6.272	6.272	0.0	84	290223	103.3	
96 2,3,4,6-Tetrachlorophenol	232	6.385	6.385	0.0	71	184922	53.6	
97 Diethyl phthalate	149	6.493	6.493	0.0	98	739196	53.1	
196 Hexadecane	57	6.507	6.507	0.0	0	332045	53.8	
99 Fluorene	166	6.582	6.582	0.0	83	747977	51.0	
98 4-Chlorophenyl phenyl ether	204	6.587	6.587	0.0	90	340270	50.7	
100 4-Nitroaniline	138	6.620	6.620	0.0	93	239258	51.8	
101 Azobenzene	77	6.742	6.742	0.0	96	629230	53.6	
* 106 Phenanthrene-d10	188	7.532	7.532	0.0	97	793410	40.0	
116 4,6-Dinitro-2-methylphenol	198	6.648	6.648	0.0	83	340319	104.4	
117 N-Nitrosodiphenylamine	169	6.704	6.704	0.0	58	483321	52.4	
$ 119 2,4,6-Tribromophenol	330	6.817	6.817	0.0	92	125005	52.7	
120 4-Bromophenyl phenyl ether	248	7.071	7.071	0.0	59	214405	53.3	
121 Hexachlorobenzene	284	7.123	7.123	0.0	94	239160	51.8	
112 Atrazine	200	7.273	7.273	0.0	92	226311	54.6	
124 Pentachlorophenol	266	7.348	7.348	0.0	87	293150	103.8	
115 n-Octadecane	57	7.466	7.466	0.0	97	361527	55.4	
126 Phenanthrene	178	7.555	7.555	0.0	97	1068657	50.6	
129 Anthracene	178	7.612	7.612	0.0	97	1116258	52.0	
131 Carbazole	167	7.805	7.805	0.0	82	1152604	52.2	
132 Di-n-butyl phthalate	149	8.237	8.237	0.0	100	1278312	54.8	
135 Fluoranthene	202	8.891	8.891	0.0	98	1247829	52.0	
* 140 Chrysene-d12	240	10.588	10.588	0.0	79	912421	40.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
145 Benzidine	184	9.088	9.088	0.0	99	427112	53.4	
146 Pyrene	202	9.145	9.145	0.0	94	1274378	53.4	
$ 147 Terphenyl-d14	244	9.375	9.375	0.0	97	934122	53.5	
150 Butyl benzyl phthalate	149	9.996	9.996	0.0	94	624825	53.0	
152 Benzo[a]anthracene	228	10.579	10.579	0.0	90	1235191	52.1	
151 3,3'-Dichlorobenzidine	252	10.584	10.584	0.0	68	480926	54.7	
153 Chrysene	228	10.621	10.621	0.0	93	1137985	50.1	
154 Bis(2-ethylhexyl) phthalate	149	10.715	10.715	0.0	95	827126	53.0	
* 156 Perylene-d12	264	12.178	12.178	0.0	82	914700	40.0	
158 Di-n-octyl phthalate	149	11.463	11.463	0.0	99	1434574	54.1	
159 Benzo[b]fluoranthene	252	11.787	11.787	0.0	86	1328790	53.8	
161 Benzo[k]fluoranthene	252	11.815	11.815	0.0	85	1317241	51.3	
162 Benzo[a]pyrene	252	12.121	12.121	0.0	75	1245089	53.1	
164 Indeno[1,2,3-cd]pyrene	276	13.212	13.212	0.0	94	1516187	52.2	
165 Dibenz(a,h)anthracene	278	13.236	13.236	0.0	74	1270130	52.0	
166 Benzo[g,h,i]perylene	276	13.485	13.485	0.0	92	1264555	51.8	
S 167 Total Cresols	1				0		109.2	
S 172 Methyl Phenols,Total	1				0		109.2	

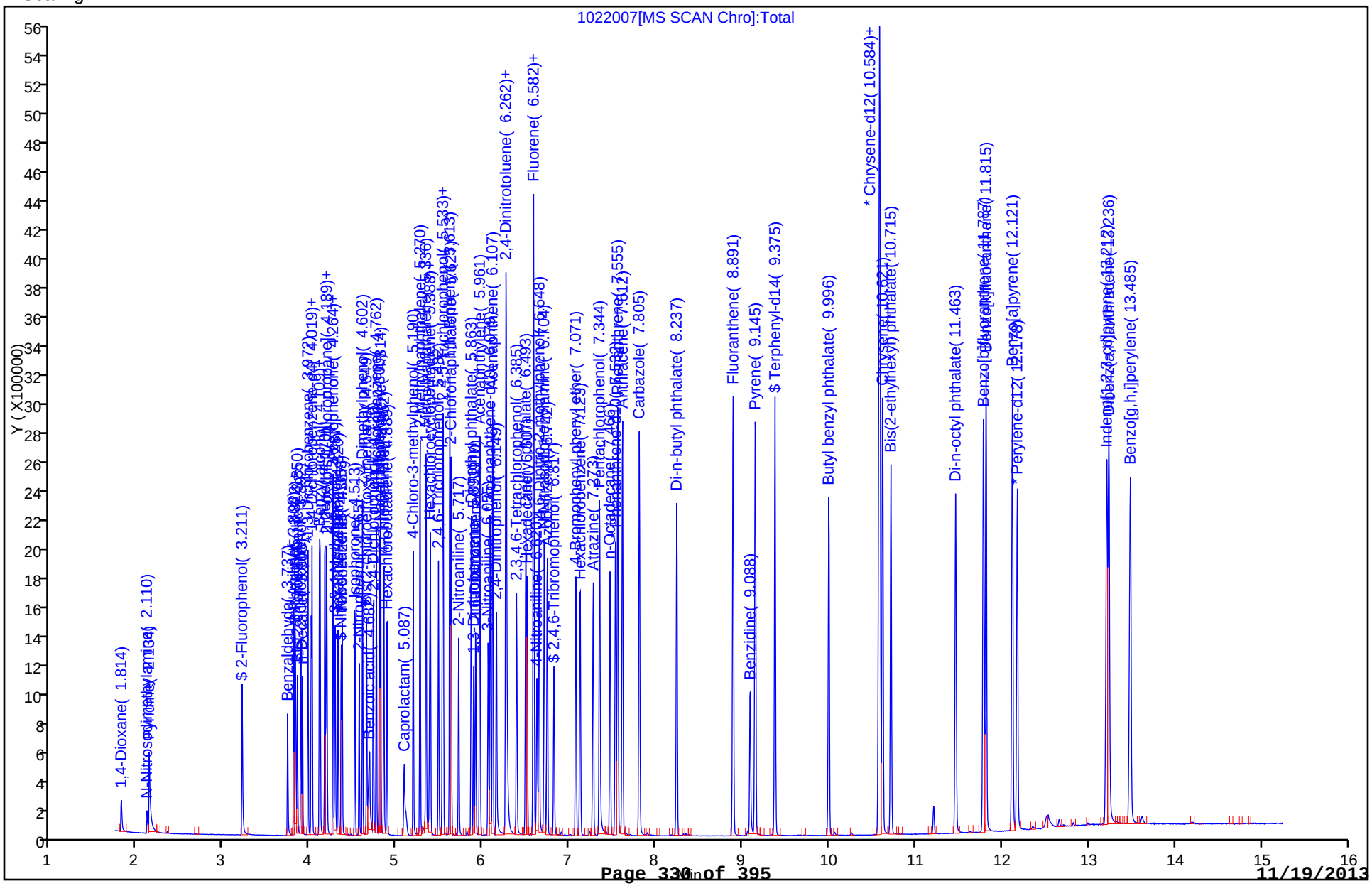
Report Date: 24-Oct-2013 12:55:17 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022007.D

Injection Date:	22-Oct-2013 18:37:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	9
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022008.D
Lims ID: STD 6 Client ID:
Inject. Date: 22-Oct-2013 19:00:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: STD 6
Misc. Info.: 490-0027160-010
Operator: HP-31 Instrument ID: HP31
Injection Vol: 1.0 ul ALS Bottle#: 11
Lims Batch ID: 116166 Lims Sample ID: 10
Sublist: chrom-8270HP31*sub30
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\hp31\20131022-27160.b\8270HP31.m
Last Update: 24-Oct-2013 12:55:15 Calib Date: 22-Oct-2013 19:23:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022009.D
Limit Group: MSS 8270C ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK049

First Level Reviewer: phelpsk Date: 23-Oct-2013 10:01:41

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	4.010	4.010	0.0	94	162450	40.0	
4 1,4-Dioxane	88	1.809	1.814	-0.005	94	160331	82.9	
5 N-Nitrosodimethylamine	74	2.110	2.110	0.0	91	234786	90.3	
6 Pyridine	52	2.133	2.134	-0.001	96	273193	86.8	
$ 11 2-Fluorophenol	112	3.210	3.211	-0.001	89	417610	87.8	
21 Benzaldehyde	105	3.737	3.737	0.0	87	193235	86.7	
17 Aniline	93	3.807	3.808	-0.001	98	658126	86.8	
$ 15 Phenol-d5	99	3.821	3.822	-0.001	0	541828	84.6	
16 Phenol	94	3.826	3.827	-0.001	93	565665	83.8	
18 Bis(2-chloroethyl)ether	93	3.850	3.850	0.0	99	392658	79.3	
19 2-Chlorophenol	128	3.892	3.892	0.0	93	465267	82.5	
20 n-Decane	57	3.911	3.906	0.005	97	348333	76.9	
22 1,3-Dichlorobenzene	146	3.972	3.972	0.0	97	486576	78.9	
23 1,4-Dichlorobenzene	146	4.019	4.019	0.0	93	483728	78.1	
24 Benzyl alcohol	108	4.108	4.104	0.004	95	318125	84.8	
25 1,2-Dichlorobenzene	146	4.113	4.113	0.0	97	468244	78.0	
2 Indene	115	4.169	4.170	-0.001	72	715409	77.1	
27 2,2'-oxybis[1-chloropropane]	121	4.184	4.184	0.0	95	155635	79.8	
26 2-Methylphenol	108	4.188	4.189	-0.001	93	424066	83.2	
30 Acetophenone	105	4.263	4.264	-0.001	95	592868	82.1	
32 N-Nitrosodi-n-propylamine	70	4.268	4.264	0.004	89	297767	83.0	
28 3 & 4 Methylphenol	108	4.287	4.287	0.0	0	457138	84.4	
33 Hexachloroethane	117	4.320	4.320	0.0	98	166634	80.3	
* 37 Naphthalene-d8	136	4.800	4.800	0.0	99	656428	40.0	
$ 46 Nitrobenzene-d5	82	4.358	4.358	0.0	85	452290	84.3	
47 Nitrobenzene	77	4.372	4.367	0.005	79	426768	82.6	
48 Isophorone	82	4.517	4.513	0.004	95	802991	81.2	
49 2-Nitrophenol	139	4.564	4.565	-0.001	89	287952	87.4	
50 2,4-Dimethylphenol	107	4.602	4.602	0.0	92	441680	80.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
52 Bis(2-chloroethoxy)methane	93	4.654	4.649	0.005	98	480936	81.2	
51 Benzoic acid	105	4.696	4.687	0.009	79	428334	84.4	
53 2,4-Dichlorophenol	162	4.729	4.729	0.0	89	413450	83.3	
55 1,2,4-Trichlorobenzene	180	4.762	4.762	0.0	91	399974	78.7	
56 Naphthalene	128	4.814	4.814	0.0	97	1234244	74.0	
57 4-Chloroaniline	127	4.851	4.852	-0.001	84	634793	82.9	
59 Hexachlorobutadiene	225	4.889	4.889	0.0	91	209398	78.0	
42 Caprolactam	113	5.096	5.087	0.009	84	219132	87.0	M
62 4-Chloro-3-methylphenol	107	5.190	5.190	0.0	89	439027	84.0	
65 2-Methylnaphthalene	142	5.270	5.270	0.0	86	967651	77.7	
66 1-Methylnaphthalene	142	5.340	5.336	0.004	80	916722	77.8	
45 1,2,4,5-Tetrachlorobenzene	216	5.387	5.388	-0.001	95	415473	78.6	
43 1,1'-Biphenyl	154	5.613	5.613	0.0	95	1154601	77.0	
* 72 Acenaphthene-d10	164	6.083	6.079	0.004	81	446714	40.0	
76 Hexachlorocyclopentadiene	237	5.378	5.378	0.0	95	180248	82.8	
77 2,4,6-Trichlorophenol	196	5.481	5.482	-0.001	86	319567	85.0	
78 2,4,5-Trichlorophenol	196	5.528	5.529	-0.001	97	348495	86.9	
$ 79 2-Fluorobiphenyl (Surr)	172	5.538	5.538	0.0	99	1022342	75.4	
83 2-Chloronaphthalene	162	5.627	5.627	0.0	96	895490	77.9	
84 2-Nitroaniline	65	5.716	5.717	-0.001	90	289049	85.1	
85 Dimethyl phthalate	163	5.867	5.863	0.004	99	1128089	78.6	
81 1,3-Dinitrobenzene	168	5.895	5.891	0.004	97	248959	86.5	
86 2,6-Dinitrotoluene	165	5.914	5.914	0.0	86	306862	87.7	
87 Acenaphthylene	152	5.961	5.961	0.0	91	1492118	77.1	
88 3-Nitroaniline	138	6.060	6.055	0.005	92	383816	83.5	
89 Acenaphthene	153	6.111	6.107	0.004	94	964650	76.8	
90 2,4-Dinitrophenol	184	6.154	6.154	0.0	83	448215	171.2	
92 Dibenzofuran	168	6.262	6.262	0.0	84	1374695	77.0	
93 2,4-Dinitrotoluene	165	6.267	6.262	0.005	78	413939	83.5	
91 4-Nitrophenol	65	6.271	6.272	-0.001	89	477610	165.3	
96 2,3,4,6-Tetrachlorophenol	232	6.389	6.385	0.005	66	306333	87.0	
97 Diethyl phthalate	149	6.497	6.493	0.004	99	1145738	80.6	
196 Hexadecane	57	6.506	6.507	-0.001	0	506221	80.3	
99 Fluorene	166	6.582	6.582	0.0	83	1152729	76.9	
98 4-Chlorophenyl phenyl ether	204	6.586	6.587	-0.001	87	544770	79.4	
100 4-Nitroaniline	138	6.629	6.620	0.009	93	398634	83.9	
101 Azobenzene	77	6.742	6.742	0.0	96	973103	81.2	
* 106 Phenanthrene-d10	188	7.531	7.532	-0.001	96	832715	40.0	
116 4,6-Dinitro-2-methylphenol	198	6.652	6.648	0.004	84	574592	166.7	
117 N-Nitrosodiphenylamine	169	6.709	6.704	0.005	58	763360	78.9	
$ 119 2,4,6-Tribromophenol	330	6.821	6.817	0.004	88	209719	84.3	
120 4-Bromophenyl phenyl ether	248	7.075	7.071	0.004	58	349534	82.7	
121 Hexachlorobenzene	284	7.122	7.123	-0.001	94	384555	79.4	
112 Atrazine	200	7.278	7.273	0.005	93	362520	83.3	
124 Pentachlorophenol	266	7.348	7.348	0.0	86	487835	163.6	
115 n-Octadecane	57	7.470	7.466	0.004	98	566827	82.8	
126 Phenanthrene	178	7.560	7.555	0.005	97	1669246	75.3	
129 Anthracene	178	7.611	7.612	-0.001	98	1692998	75.1	
131 Carbazole	167	7.809	7.805	0.004	82	1794580	77.5	
132 Di-n-butyl phthalate	149	8.241	8.237	0.004	100	1980465	80.8	
135 Fluoranthene	202	8.895	8.891	0.004	98	1967544	78.1	
* 140 Chrysene-d12	240	10.593	10.588	0.005	80	970707	40.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
145 Benzidine	184	9.088	9.088	0.0	99	703463	82.5	
146 Pyrene	202	9.149	9.145	0.004	93	1974557	77.8	
$ 147 Terphenyl-d14	244	9.379	9.375	0.004	98	1508391	81.2	
150 Butyl benzyl phthalate	149	10.000	9.996	0.004	94	1040507	82.6	
152 Benzo[a]anthracene	228	10.578	10.579	-0.001	89	2023991	80.3	
151 3,3'-Dichlorobenzidine	252	10.588	10.584	0.004	76	808797	86.4	
153 Chrysene	228	10.625	10.621	0.004	93	1832461	75.9	
154 Bis(2-ethylhexyl) phthalate	149	10.715	10.715	0.0	95	1342071	80.5	
* 156 Perylene-d12	264	12.177	12.178	-0.001	81	938642	40.0	
158 Di-n-octyl phthalate	149	11.462	11.463	-0.001	100	2280796	83.5	
159 Benzo[b]fluoranthene	252	11.792	11.787	0.005	86	2132825	84.2	
161 Benzo[k]fluoranthene	252	11.820	11.815	0.005	84	2071975	78.6	
162 Benzo[a]pyrene	252	12.125	12.121	0.004	76	1984298	82.5	
164 Indeno[1,2,3-cd]pyrene	276	13.216	13.212	0.004	90	2427807	81.5	M
165 Dibenz(a,h)anthracene	278	13.245	13.236	0.009	82	2019348	80.5	
166 Benzo[g,h,i]perylene	276	13.494	13.485	0.009	88	2005440	80.1	
S 167 Total Cresols	1				0		167.6	
S 172 Methyl Phenols,Total	1				0		167.6	

QC Flag Legend

Review Flags
M - Manually Integrated

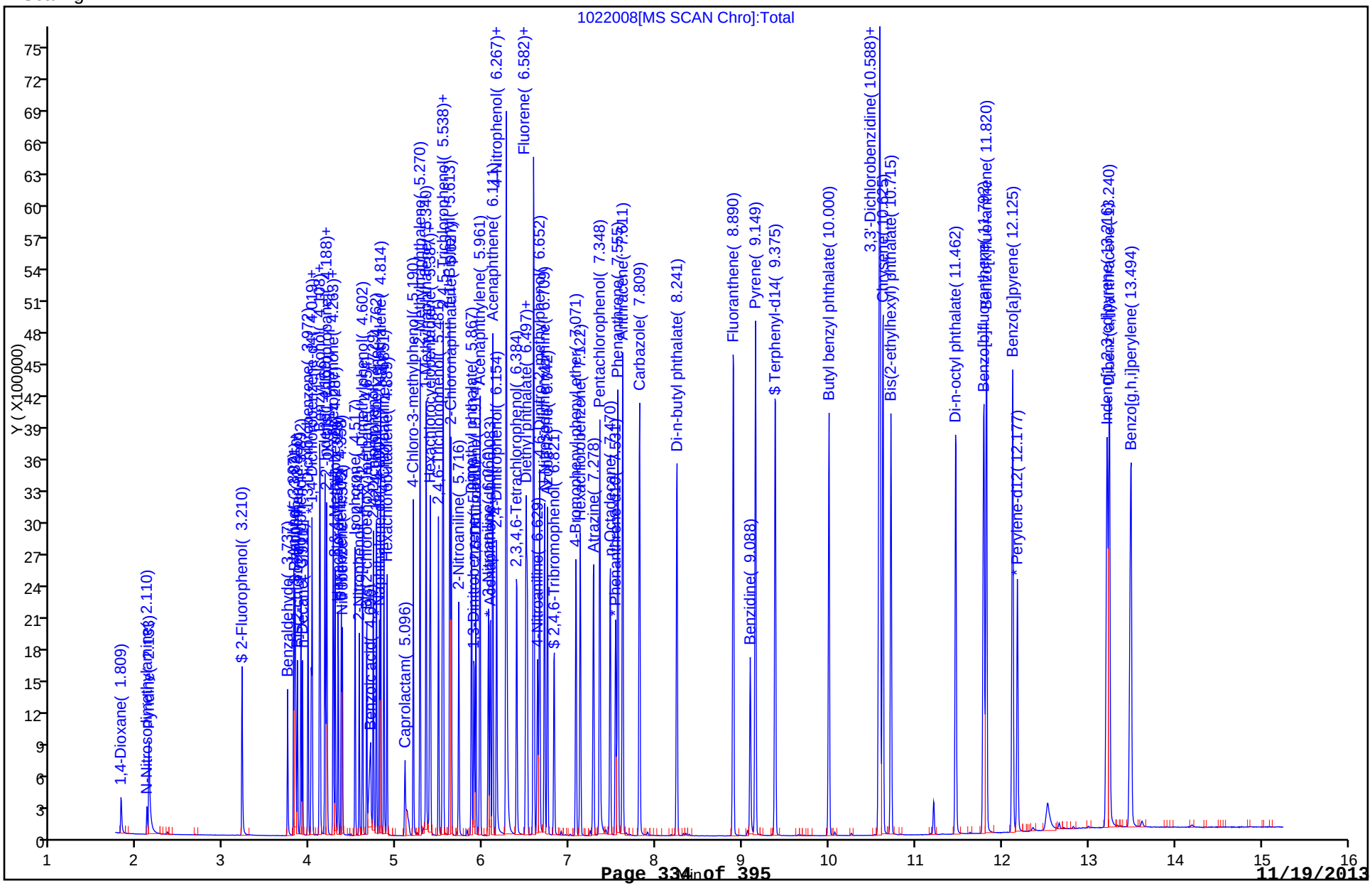
Report Date: 24-Oct-2013 12:55:15 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022008.D

Injection Date:	22-Oct-2013 19:00:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	10
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Manual Integration/User Assign Peak Report

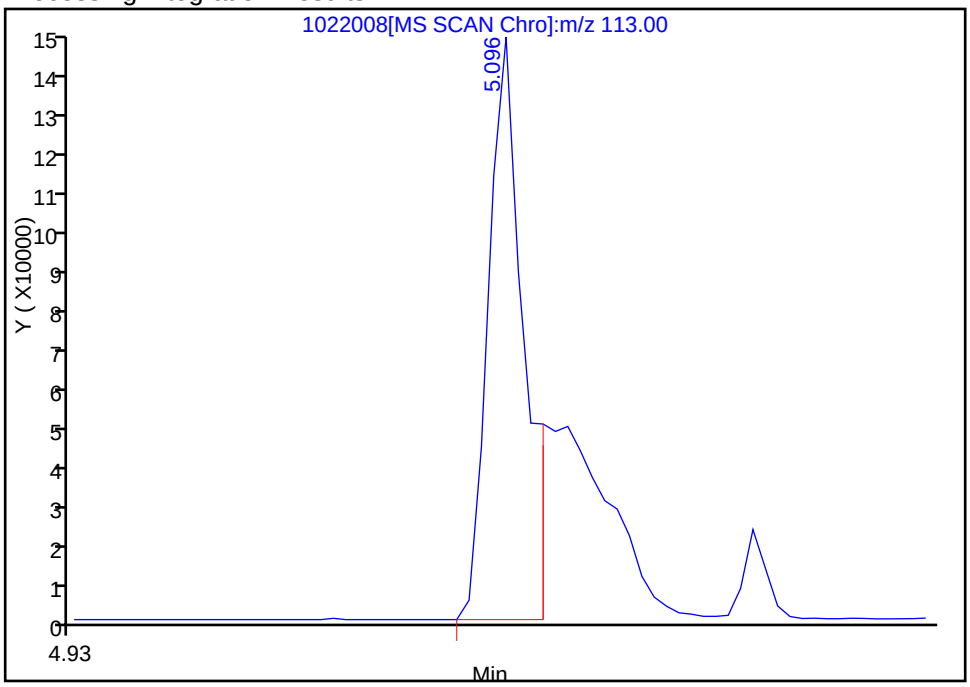
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022008.D		
Injection Date:	22-Oct-2013 19:00:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	10
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

42 Caprolactam, Signal: 1, m/z: 113.0 Type: quant, RT: 5.09

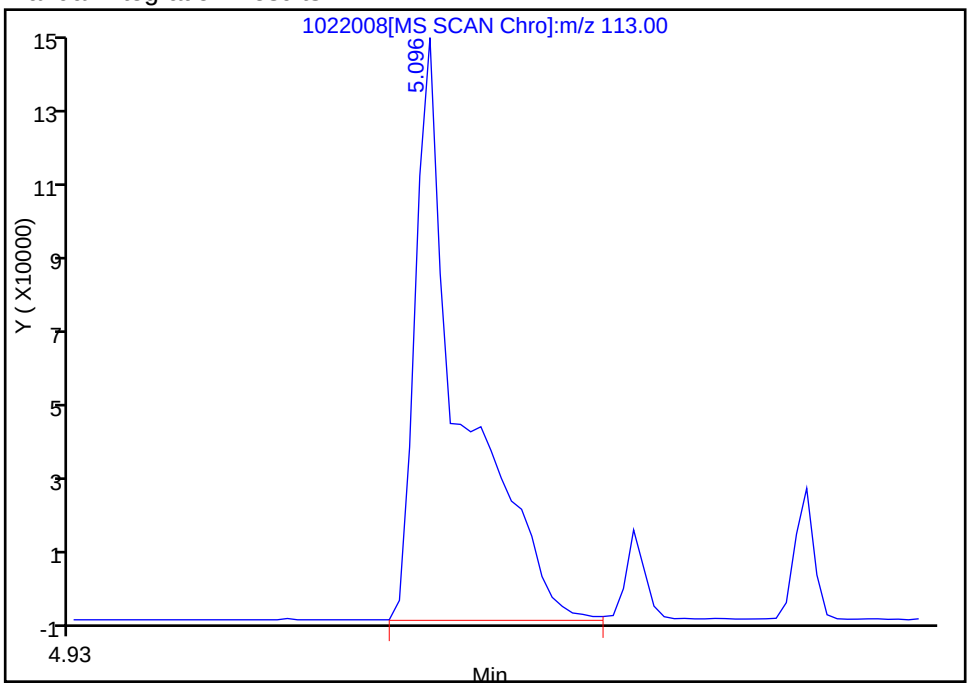
Processing Integration Results

RT: 5.10
Response: 139618
Amount: 66.100399



Manual Integration Results

RT: 5.10
Response: 219132
Amount: 86.992321



Reviewer: phelpsk, 23-Oct-2013 10:01:41
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

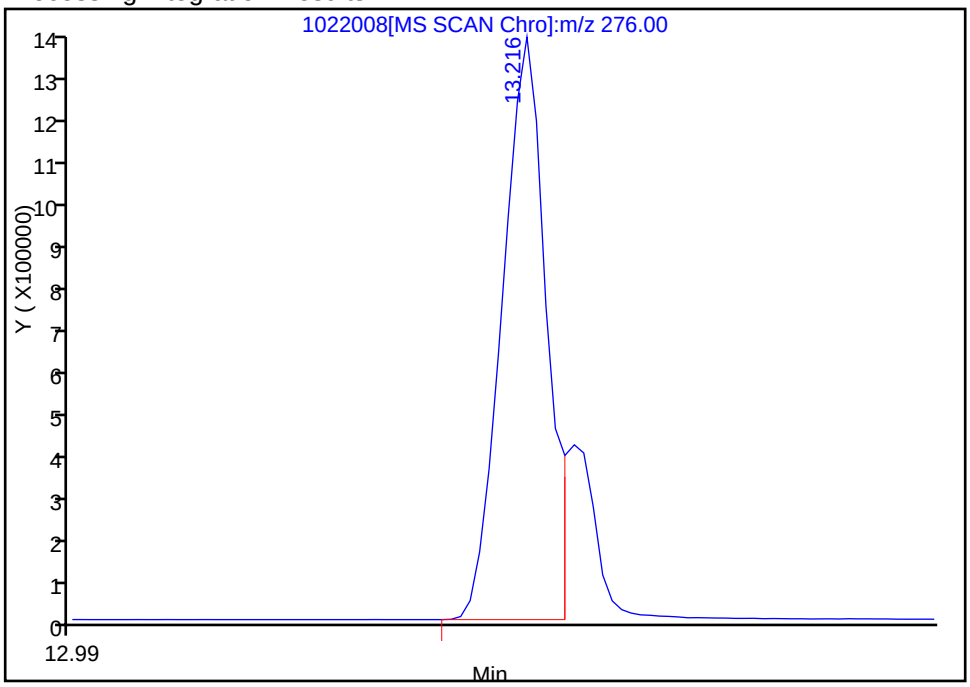
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022008.D		
Injection Date:	22-Oct-2013 19:00:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	10
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

164 Indeno[1,2,3-cd]pyrene, Signal: 1, m/z: 276.0 Type: quant, RT: 13.21

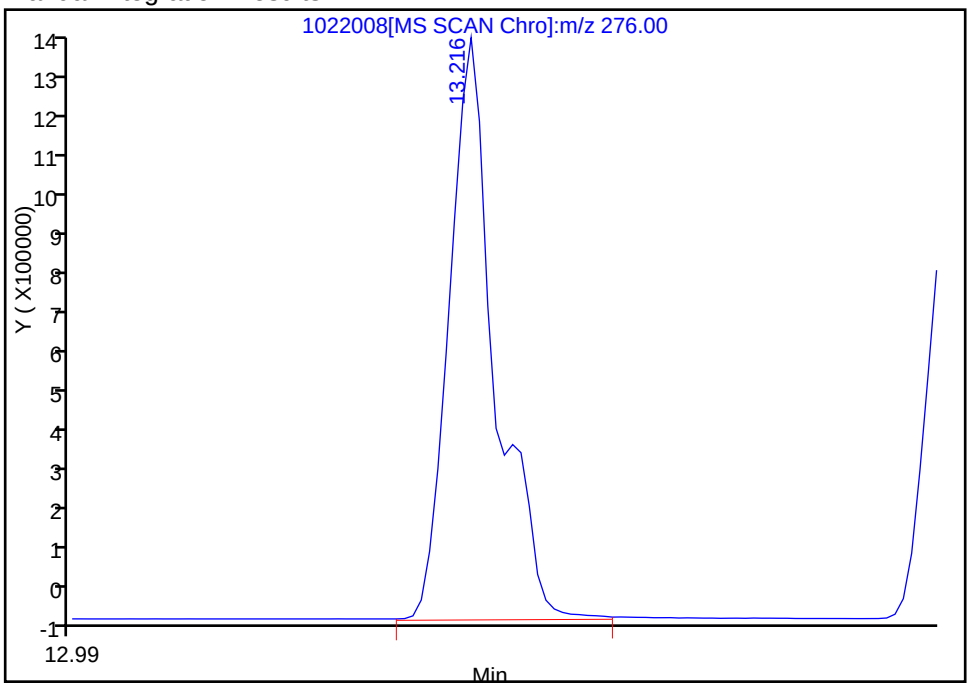
Processing Integration Results

RT: 13.22
Response: 2054524
Amount: 70.560147



Manual Integration Results

RT: 13.22
Response: 2427807
Amount: 81.514019



Reviewer: phelpsk, 23-Oct-2013 10:02:59
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022009.D
Lims ID: STD 7 Client ID:
Inject. Date: 22-Oct-2013 19:23:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 7
Sample ID: STD 7
Misc. Info.: 490-0027160-011
Operator: HP-31 Instrument ID: HP31
Injection Vol: 1.0 ul ALS Bottle#: 12
Lims Batch ID: 116166 Lims Sample ID: 11
Sublist: chrom-8270HP31*sub30
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\hp31\20131022-27160.b\8270HP31.m
Last Update: 24-Oct-2013 12:55:14 Calib Date: 22-Oct-2013 19:23:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022009.D
Limit Group: MSS 8270C ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: Column Dia:
Process Host: XAWRK049

First Level Reviewer: phelpsk Date: 23-Oct-2013 10:02:45

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	4.008	4.010	-0.002	95	159890	40.0	
4 1,4-Dioxane	88	1.812	1.814	-0.002	93	194578	102.2	
5 N-Nitrosodimethylamine	74	2.109	2.110	-0.001	92	291499	113.9	
6 Pyridine	52	2.132	2.134	-0.002	96	341440	110.2	
$ 11 2-Fluorophenol	112	3.209	3.211	-0.002	89	504058	107.7	
21 Benzaldehyde	105	3.736	3.737	-0.001	88	230656	105.1	
17 Aniline	93	3.806	3.808	-0.002	97	780999	104.6	
$ 15 Phenol-d5	99	3.820	3.822	-0.002	0	641489	101.8	
16 Phenol	94	3.830	3.827	0.003	94	642307	96.7	
18 Bis(2-chloroethyl)ether	93	3.853	3.850	0.003	98	470144	96.4	
19 2-Chlorophenol	128	3.891	3.892	-0.001	95	558779	100.7	
20 n-Decane	57	3.910	3.906	0.004	96	418587	93.9	
22 1,3-Dichlorobenzene	146	3.971	3.972	-0.001	98	583287	96.1	
23 1,4-Dichlorobenzene	146	4.022	4.019	0.003	95	574456	94.2	
24 Benzyl alcohol	108	4.107	4.104	0.003	92	375715	101.8	
25 1,2-Dichlorobenzene	146	4.112	4.113	-0.001	97	560165	94.8	
2 Indene	115	4.168	4.170	-0.002	76	840594	92.0	
27 2,2'-oxybis[1-chloropropane]	121	4.182	4.184	-0.002	93	189683	98.8	
26 2-Methylphenol	108	4.192	4.189	0.003	91	504168	100.5	
30 Acetophenone	105	4.262	4.264	-0.002	95	704264	99.1	
32 N-Nitrosodi-n-propylamine	70	4.267	4.264	0.003	90	347612	98.4	
28 3 & 4 Methylphenol	108	4.286	4.287	-0.001	0	546225	102.4	
33 Hexachloroethane	117	4.323	4.320	0.003	93	200016	97.9	
* 37 Naphthalene-d8	136	4.798	4.800	-0.002	99	640253	40.0	
$ 46 Nitrobenzene-d5	82	4.356	4.358	-0.002	86	531546	101.6	
47 Nitrobenzene	77	4.370	4.367	0.003	77	506211	100.4	
48 Isophorone	82	4.521	4.513	0.008	95	946174	98.1	
49 2-Nitrophenol	139	4.563	4.565	-0.002	91	344749	107.2	
50 2,4-Dimethylphenol	107	4.606	4.602	0.004	90	523916	97.7	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
52 Bis(2-chloroethoxy)methane	93	4.653	4.649	0.004	98	555570	96.2	
51 Benzoic acid	105	4.700	4.687	0.013	80	512256	103.0	
53 2,4-Dichlorophenol	162	4.728	4.729	-0.001	90	493305	101.9	
55 1,2,4-Trichlorobenzene	180	4.765	4.762	0.003	91	477683	96.3	
56 Naphthalene	128	4.812	4.814	-0.002	98	1430659	87.9	
57 4-Chloroaniline	127	4.850	4.852	-0.002	84	755657	101.2	
59 Hexachlorobutadiene	225	4.888	4.889	-0.001	91	250854	95.8	
42 Caprolactam	113	5.099	5.087	0.012	81	258566	105.2	M
62 4-Chloro-3-methylphenol	107	5.193	5.190	0.003	87	519535	101.9	
65 2-Methylnaphthalene	142	5.269	5.270	-0.001	86	1126931	92.8	
66 1-Methylnaphthalene	142	5.339	5.336	0.003	81	1065735	92.8	
45 1,2,4,5-Tetrachlorobenzene	216	5.391	5.388	0.003	94	494248	95.9	
43 1,1'-Biphenyl	154	5.617	5.613	0.003	96	1323499	90.5	
* 72 Acenaphthene-d10	164	6.082	6.079	0.003	73	432300	40.0	
76 Hexachlorocyclopentadiene	237	5.381	5.378	0.003	85	225013	104.9	
77 2,4,6-Trichlorophenol	196	5.485	5.482	0.003	85	378631	104.1	
78 2,4,5-Trichlorophenol	196	5.527	5.529	-0.002	96	412631	106.3	
$ 79 2-Fluorobiphenyl (Surr)	172	5.537	5.538	-0.001	98	1188332	90.6	
83 2-Chloronaphthalene	162	5.631	5.627	0.004	91	1040539	93.5	
84 2-Nitroaniline	65	5.715	5.717	-0.002	90	337121	102.5	
85 Dimethyl phthalate	163	5.866	5.863	0.003	99	1314763	94.6	
81 1,3-Dinitrobenzene	168	5.894	5.891	0.003	88	296432	106.4	
86 2,6-Dinitrotoluene	165	5.917	5.914	0.003	67	361234	106.7	
87 Acenaphthylene	152	5.964	5.961	0.003	94	1734328	92.6	
88 3-Nitroaniline	138	6.063	6.055	0.008	89	459101	103.1	
89 Acenaphthene	153	6.110	6.107	0.003	93	1120229	92.2	
90 2,4-Dinitrophenol	184	6.157	6.154	0.003	81	535639	210.4	
92 Dibenzofuran	168	6.265	6.262	0.003	83	1580208	91.4	
93 2,4-Dinitrotoluene	165	6.265	6.262	0.003	70	485585	101.2	
91 4-Nitrophenol	65	6.270	6.272	-0.002	87	556006	198.5	
96 2,3,4,6-Tetrachlorophenol	232	6.388	6.385	0.004	68	357074	104.8	
97 Diethyl phthalate	149	6.496	6.493	0.003	98	1330001	96.6	
196 Hexadecane	57	6.510	6.507	0.003	0	592824	97.2	
99 Fluorene	166	6.580	6.582	-0.002	83	1348177	93.0	
98 4-Chlorophenyl phenyl ether	204	6.590	6.587	0.003	87	641253	96.6	
100 4-Nitroaniline	138	6.632	6.620	0.012	94	467729	101.6	
101 Azobenzene	77	6.745	6.742	0.003	95	1132785	97.7	
* 106 Phenanthrene-d10	188	7.530	7.532	-0.002	96	790486	40.0	
116 4,6-Dinitro-2-methylphenol	198	6.656	6.648	0.008	85	669085	204.0	
117 N-Nitrosodiphenylamine	169	6.712	6.704	0.008	58	894561	97.4	
$ 119 2,4,6-Tribromophenol	330	6.820	6.817	0.003	92	246535	104.4	
120 4-Bromophenyl phenyl ether	248	7.074	7.071	0.003	60	407567	101.6	
121 Hexachlorobenzene	284	7.126	7.123	0.003	93	452343	98.4	
112 Atrazine	200	7.276	7.273	0.003	92	427108	103.4	
124 Pentachlorophenol	266	7.352	7.348	0.004	85	582802	205.4	
115 n-Octadecane	57	7.469	7.466	0.003	98	659921	101.5	
126 Phenanthrene	178	7.558	7.555	0.003	97	1897738	90.2	
129 Anthracene	178	7.615	7.612	0.003	98	1963124	91.7	
131 Carbazole	167	7.808	7.805	0.003	83	2083016	94.7	
132 Di-n-butyl phthalate	149	8.240	8.237	0.003	100	2258075	97.1	
135 Fluoranthene	202	8.894	8.891	0.003	98	2279656	95.3	
* 140 Chrysene-d12	240	10.591	10.588	0.003	79	911547	40.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
145 Benzidine	184	9.087	9.088	-0.001	99	788332	98.3	
146 Pyrene	202	9.153	9.145	0.007	92	2261631	94.8	
$ 147 Terphenyl-d14	244	9.378	9.375	0.003	97	1741607	99.8	
150 Butyl benzyl phthalate	149	9.999	9.996	0.003	94	1207536	101.9	
152 Benzo[a]anthracene	228	10.582	10.579	0.003	89	2296571	97.0	
151 3,3'-Dichlorobenzidine	252	10.591	10.584	0.007	76	932766	106.1	
153 Chrysene	228	10.624	10.621	0.003	93	2119359	93.5	
154 Bis(2-ethylhexyl) phthalate	149	10.718	10.715	0.003	95	1545357	98.5	
* 156 Perylene-d12	264	12.181	12.178	0.003	82	891424	40.0	
158 Di-n-octyl phthalate	149	11.466	11.463	0.003	99	2616828	100.8	
159 Benzo[b]fluoranthene	252	11.790	11.787	0.003	86	2382212	99.0	
161 Benzo[k]fluoranthene	252	11.823	11.815	0.008	83	2422022	96.8	
162 Benzo[a]pyrene	252	12.129	12.121	0.008	76	2278139	99.7	
164 Indeno[1,2,3-cd]pyrene	276	13.220	13.212	0.008	93	2808665	99.3	M
165 Dibenz(a,h)anthracene	278	13.243	13.236	0.007	67	2308647	96.9	
166 Benzo[g,h,i]perylene	276	13.497	13.485	0.012	92	2274853	95.7	
S 172 Methyl Phenols,Total	1				0		202.9	
S 167 Total Cresols	1				0		202.9	

QC Flag Legend

Review Flags
M - Manually Integrated

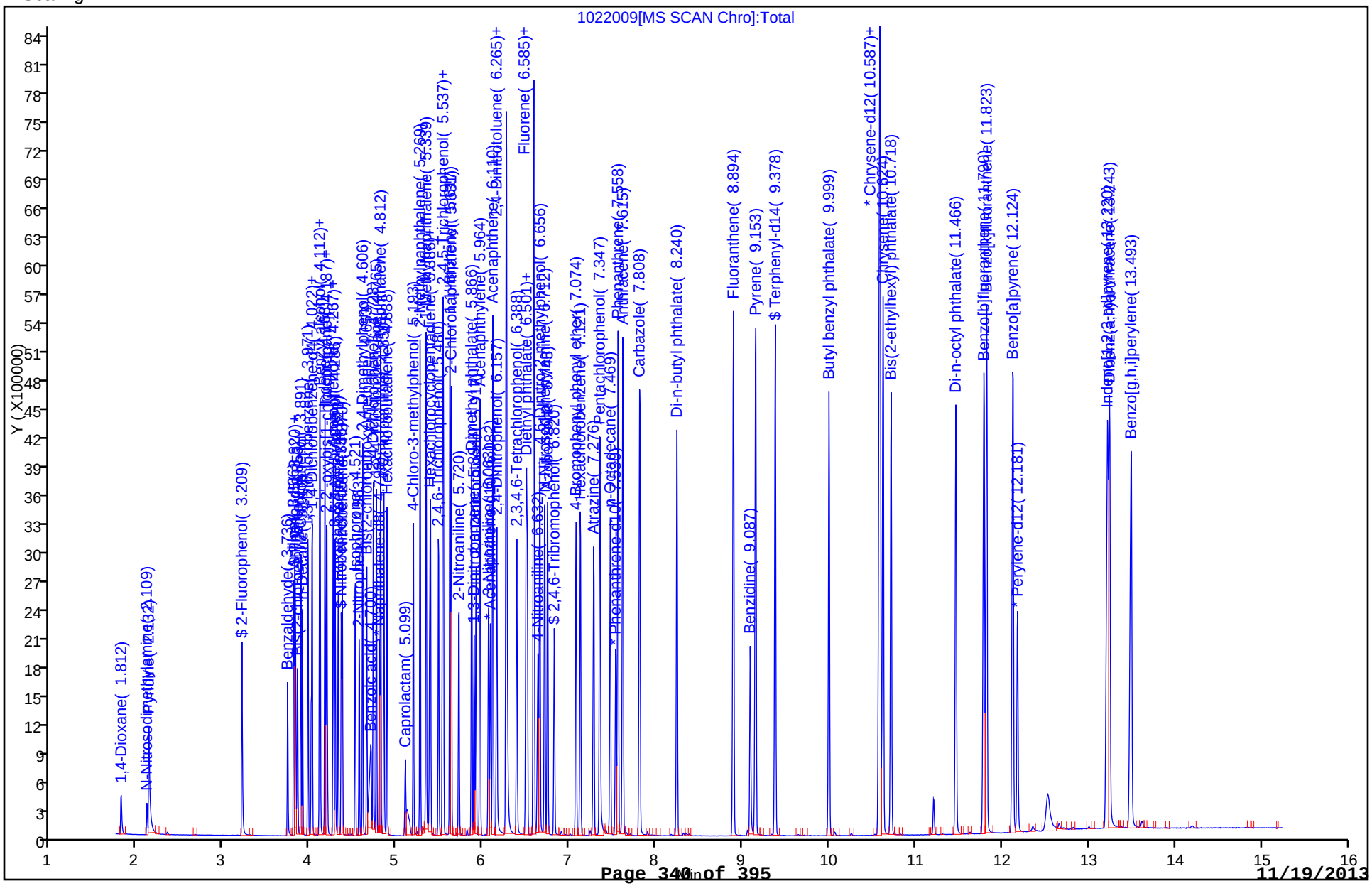
Report Date: 24-Oct-2013 12:55:14 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022009.D

Injection Date:	22-Oct-2013 19:23:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	11
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Manual Integration/User Assign Peak Report

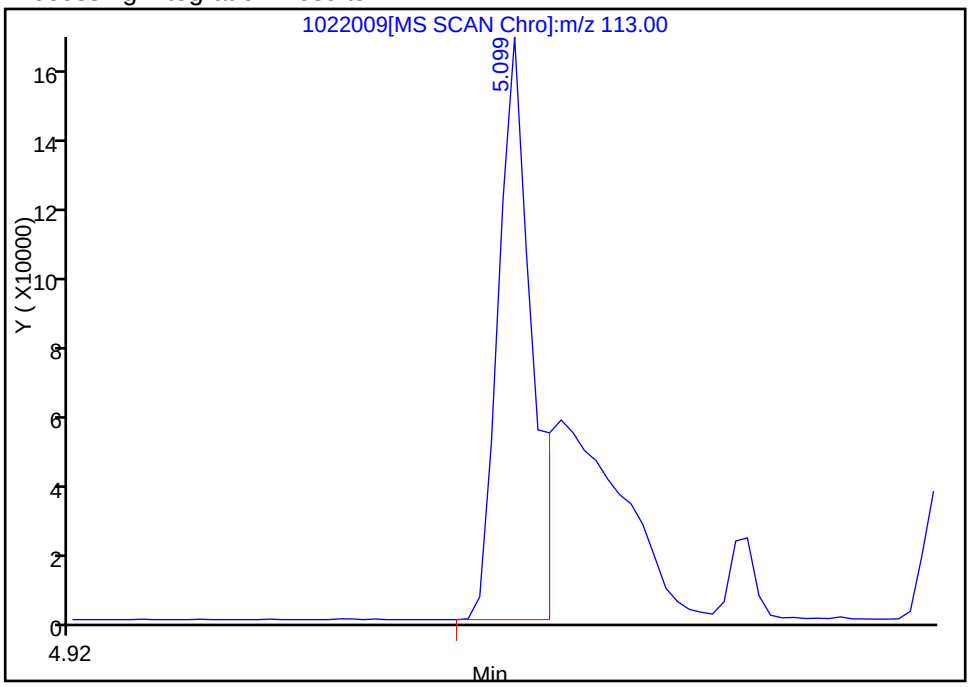
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022009.D		
Injection Date:	22-Oct-2013 19:23:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	11
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

42 Caprolactam, Signal: 1, m/z: 113.0 Type: quant, RT: 5.09

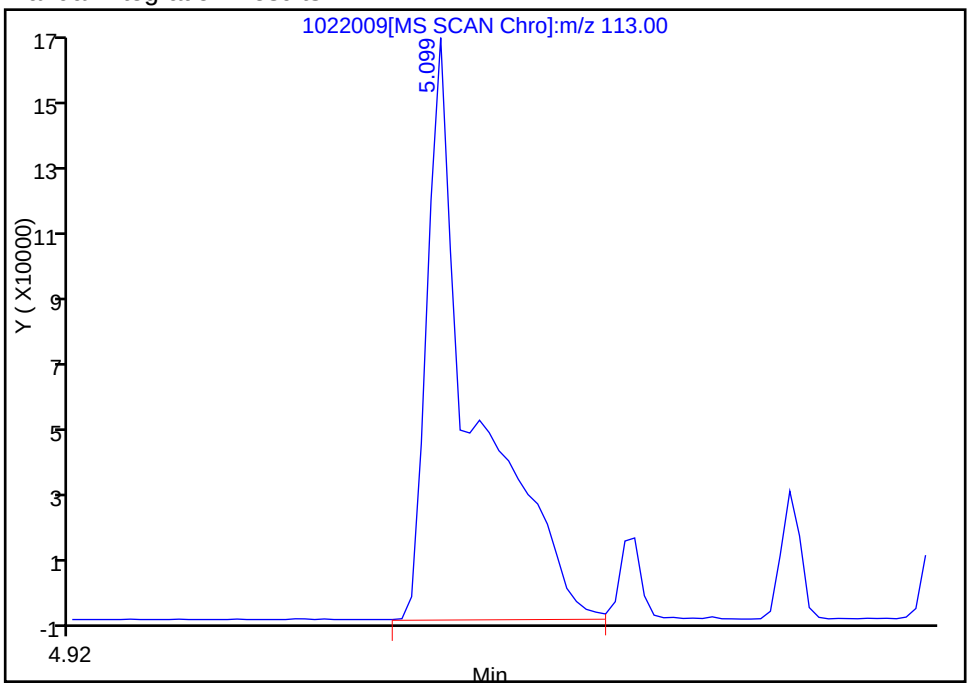
Processing Integration Results

RT: 5.10
Response: 153498
Amount: 69.814506



Manual Integration Results

RT: 5.10
Response: 258566
Amount: 105.2403



Reviewer: phelpsk, 23-Oct-2013 10:02:45
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

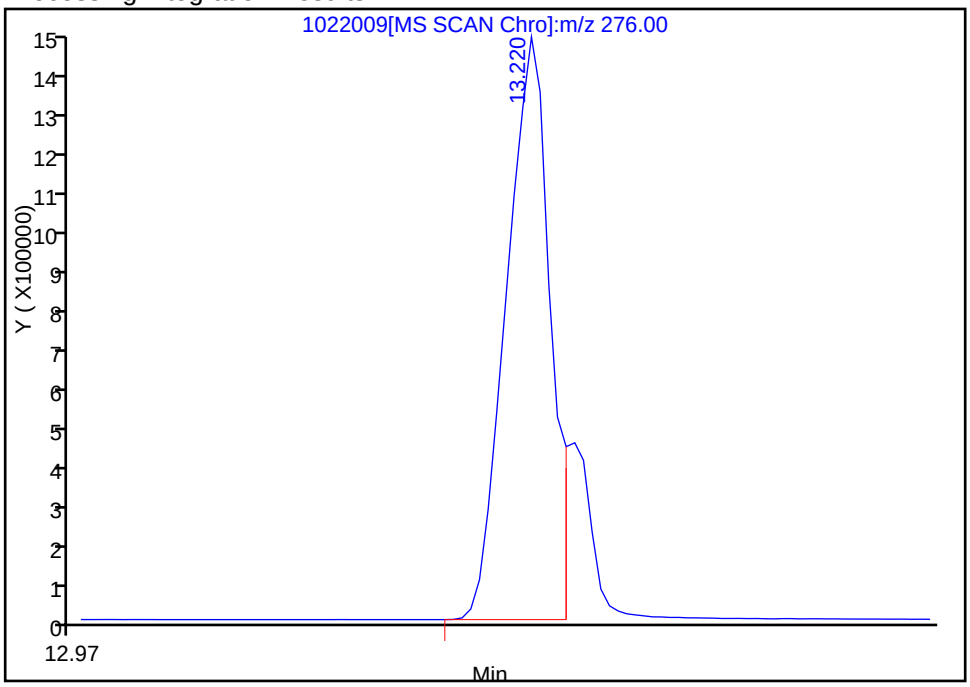
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022009.D		
Injection Date:	22-Oct-2013 19:23:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	11
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

164 Indeno[1,2,3-cd]pyrene, Signal: 1, m/z: 276.0 Type: quant, RT: 13.21

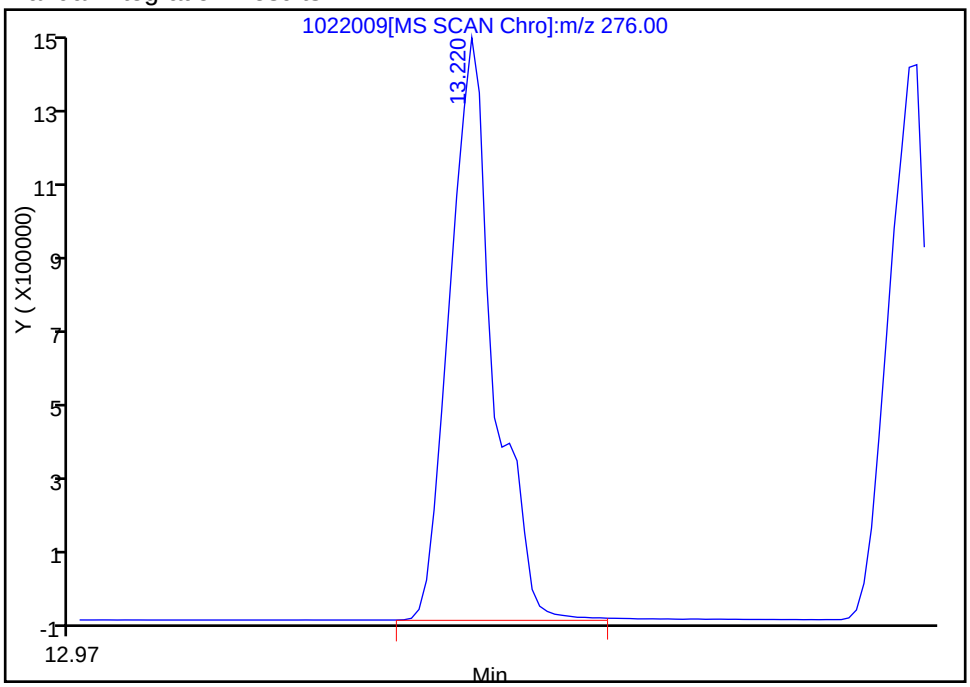
Processing Integration Results

RT: 13.22
Response: 2445564
Amount: 90.129498



Manual Integration Results

RT: 13.22
Response: 2808665
Amount: 99.296456



Reviewer: phelpsk, 23-Oct-2013 10:02:45
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Lab Sample ID (1): CCVIS 490-121052/3 Instrument ID (1): HP31

GC Column (1): ZB-5MSi ID: 0.25(mm) Date Analyzed (1): 11/11/2013 15:40

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	11.46	24.06

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Lab Sample ID: ICV 490-116166/12 Calibration Date: 10/22/2013 19:45

Instrument ID: HP31 Calib Start Date: 10/22/2013 17:06

GC Column: ZB-5MSi ID: 0.25(mm) Calib End Date: 10/22/2013 19:23

Lab File ID: 1022010.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4763	0.4647		48.8	50.0	-2.4	
N-Nitrosodimethylamine	Ave	0.6404	0.6230		48.6	50.0	-2.7	
Pyridine	Ave	0.7751	0.8143		52.5	50.0	5.1	
Benzaldehyde	Ave	0.5490	0.0738		6.72	50.0	-86.6	
Aniline	Ave	1.867	1.802		48.3	50.0	-3.5	
Phenol	Ave	1.661	1.792		53.9	50.0	7.9	
Bis(2-chloroethyl)ether	Ave	1.220	1.148		47.1	50.0	-5.8	
2-Chlorophenol	Ave	1.388	1.488		53.6	50.0	7.2	
n-Decane	Ave	1.115	1.013		45.4	50.0	-9.1	
1,3-Dichlorobenzene	Ave	1.519	1.448		47.7	50.0	-4.7	
1,4-Dichlorobenzene	Ave	1.525	1.465		48.0	50.0	-4.0	
Benzyl alcohol	Ave	0.9237	0.9808		53.1	50.0	6.2	
1,2-Dichlorobenzene	Ave	1.478	1.396		47.3	50.0	-5.5	
Indene	Ave	2.285	2.186		47.8	50.0	-4.3	
bis (2-chloroisopropyl) ether	Ave	0.4803	0.4132		43.0	50.0	-14.0	
2-Methylphenol	Ave	1.255	1.370		54.6	50.0	9.1	
Acetophenone	Ave	1.778	1.750		49.2	50.0	-1.6	
N-Nitrosodi-n-propylamine	Ave	0.8835	0.8837	0.0500	50.0	50.0	0.0	
3 & 4 Methylphenol	Ave	1.334	1.415		53.0	50.0	6.0	
Hexachloroethane	Ave	0.5113	0.4982		48.7	50.0	-2.6	
Nitrobenzene	Ave	0.3148	0.3121		49.6	50.0	-0.9	
Isophorone	Ave	0.6026	0.6175		51.2	50.0	2.5	
2-Nitrophenol	Ave	0.2008	0.2080		51.8	50.0	3.6	
2,4-Dimethylphenol	Ave	0.3349	0.3314		49.5	50.0	-1.0	
Bis(2-chloroethoxy)methane	Ave	0.3607	0.3375		46.8	50.0	-6.5	
Benzoic acid	Lin2		0.3205		103	100	3.1	20.0
2,4-Dichlorophenol	Ave	0.3024	0.3200		52.9	50.0	5.8	
1,2,4-Trichlorobenzene	Ave	0.3099	0.2991		48.3	50.0	-3.5	
Naphthalene	Ave	1.016	0.9409		46.3	50.0	-7.4	
4-Chloroaniline	Ave	0.4664	0.4414		47.3	50.0	-5.4	
Hexachlorobutadiene	Ave	0.1637	0.1558		47.6	50.0	-4.8	
Caprolactam	Ave	0.1535	0.1480		48.2	50.0	-3.6	
4-Chloro-3-methylphenol	Ave	0.3186	0.3282		51.5	50.0	3.0	
2-Methylnaphthalene	Ave	0.7590	0.7123		46.9	50.0	-6.2	
1-Methylnaphthalene	Ave	0.7176	0.6766		47.1	50.0	-5.7	
Hexachlorocyclopentadiene	Lin2		0.1950	0.0500	52.6	50.0	5.3	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.3221	0.3090		48.0	50.0	-4.1	
2,4,6-Trichlorophenol	Ave	0.3366	0.3524		52.4	50.0	4.7	
2,4,5-Trichlorophenol	Ave	0.3591	0.3783		52.7	50.0	5.3	
Biphenyl	Ave	0.9141	0.8821		48.3	50.0	-3.5	

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Lab Sample ID: ICV 490-116166/12 Calibration Date: 10/22/2013 19:45

Instrument ID: HP31 Calib Start Date: 10/22/2013 17:06

GC Column: ZB-5MSi ID: 0.25(mm) Calib End Date: 10/22/2013 19:23

Lab File ID: 1022010.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloronaphthalene	Ave	1.029	0.9710		47.2	50.0	-5.7	
2-Nitroaniline	Lin2		0.2917		48.2	50.0	-3.5	20.0
Dimethyl phthalate	Ave	1.286	1.218		47.4	50.0	-5.3	
1,3-Dinitrobenzene	Ave	0.2578	0.2382		46.2	50.0	-7.6	
2,6-Dinitrotoluene	Ave	0.3132	0.3128		49.9	50.0	-0.1	
Acenaphthylene	Ave	1.733	1.644		47.5	50.0	-5.1	
3-Nitroaniline	Lin2		0.3607		44.2	50.0	-11.6	20.0
Acenaphthene	Ave	1.124	1.078		48.0	50.0	-4.1	
2,4-Dinitrophenol	Lin2		0.2213	0.0500	96.4	100	-3.6	20.0
2,4-Dinitrotoluene	Ave	0.4441	0.4245		47.8	50.0	-4.4	
Dibenzofuran	Ave	1.600	1.504		47.0	50.0	-6.0	
4-Nitrophenol	Lin2		0.2401	0.0500	93.7	100	-6.3	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3153	0.3202		50.8	50.0	1.6	
Diethyl phthalate	Ave	1.273	1.207		47.4	50.0	-5.2	
Hexadecane	Ave	0.5644	0.5380		47.7	50.0	-4.7	
Fluorene	Ave	1.342	1.287		48.0	50.0	-4.1	
4-Chlorophenyl phenyl ether	Ave	0.6140	0.5799		47.2	50.0	-5.6	
4-Nitroaniline	Lin2		0.3891		46.2	50.0	-7.7	20.0
4,6-Dinitro-2-methylphenol	Lin2		0.1648		100	100	0.3	20.0
n-Nitrosodiphenylamine(as diphenylamine)	Ave	0.4646	0.5261		56.6	50.0	13.2	
1,2-Diphenylhydrazine (as Azobenzene)	Ave	1.073	1.023		47.7	50.0	-4.7	
4-Bromophenyl phenyl ether	Ave	0.2029	0.2015		49.6	50.0	-0.7	
Hexachlorobenzene	Ave	0.2327	0.2220		47.7	50.0	-4.6	
Atrazine	Ave	0.2090	0.2060		49.3	50.0	-1.5	
Pentachlorophenol	Lin2		0.1453		102	100	2.1	20.0
n-Octadecane	Ave	0.3289	0.3277		49.8	50.0	-0.4	
Phenanthrene	Ave	1.064	0.997		46.8	50.0	-6.3	
Anthracene	Ave	1.083	1.033		47.7	50.0	-4.6	
Carbazole	Ave	1.113	1.053		47.3	50.0	-5.4	
Di-n-butyl phthalate	Ave	1.177	1.147		48.7	50.0	-2.5	
Fluoranthene	Ave	1.210	1.149		47.5	50.0	-5.0	
Benzidine	Lin2		0.0822			50.0	-76.0*	20.0
Pyrene	Ave	1.047	1.022		48.8	50.0	-2.4	
Butyl benzyl phthalate	Lin2		0.5034		48.8	50.0	-2.4	20.0
Benzo[a]anthracene	Ave	1.039	0.996		47.9	50.0	-4.1	
3,3'-Dichlorobenzidine	Ave	0.3857	0.3220		41.7	50.0	-16.5	
Chrysene	Ave	0.9950	0.9765		49.1	50.0	-1.9	
Bis(2-ethylhexyl) phthalate	Lin2		0.6484		47.5	50.0	-5.0	20.0
Di-n-octyl phthalate	Lin2		1.124		48.6	50.0	-2.9	20.0
Benzo[b]fluoranthene	Ave	1.080	1.012		46.9	50.0	-6.3	

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Lab Sample ID: ICV 490-116166/12 Calibration Date: 10/22/2013 19:45

Instrument ID: HP31 Calib Start Date: 10/22/2013 17:06

GC Column: ZB-5MSi ID: 0.25(mm) Calib End Date: 10/22/2013 19:23

Lab File ID: 1022010.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[k]fluoranthene	Ave	1.123	1.078		48.0	50.0	-4.0	
Benzo[a]pyrene	Ave	1.025	0.9798		47.8	50.0	-4.4	
Indeno[1,2,3-cd]pyrene	Ave	1.269	1.195		47.1	50.0	-5.8	
Dibenz(a,h)anthracene	Ave	1.069	1.039		48.6	50.0	-2.8	
Benzo[g,h,i]perylene	Ave	1.067	1.024		48.0	50.0	-4.1	

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022010.D
Lims ID: ICV Client ID:
Inject. Date: 22-Oct-2013 19:45:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: ICV
Misc. Info.: 490-0027160-012
Operator: HP-31 Instrument ID: HP31
Injection Vol: 1.0 ul ALS Bottle#: 13
Lims Batch ID: 116166 Lims Sample ID: 12
Sublist:
Detector: MS SCAN

Method: \\Nvlchrom\ChromData\hp31\20131022-27160.b\8270HP31.m
Last Update: 24-Oct-2013 12:55:10 Calib Date: 22-Oct-2013 19:23:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022009.D
Limit Group: MSS 8270C ICAL
Integrator: RTE ID Type: RT Order ID
Column Type: Column Dia:
Process Host: XAWRK049

First Level Reviewer: phelpsk Date: 23-Oct-2013 11:07:29

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	4.010	4.010	0.0	93	162920	40.0	
4 1,4-Dioxane	88	1.814	1.814	0.0	93	94632	48.8	
5 N-Nitrosodimethylamine	74	2.115	2.110	0.005	82	126873	48.6	
6 Pyridine	52	2.139	2.134	0.005	94	165831	52.5	
21 Benzaldehyde	105	3.737	3.737	0.0	90	15023	6.72	
17 Aniline	93	3.808	3.808	0.0	99	367035	48.3	
16 Phenol	94	3.832	3.827	0.005	98	364944	53.9	
18 Bis(2-chloroethyl)ether	93	3.850	3.850	0.0	98	233880	47.1	
19 2-Chlorophenol	128	3.893	3.892	0.001	94	303011	53.6	
20 n-Decane	57	3.907	3.906	0.001	97	206323	45.4	
22 1,3-Dichlorobenzene	146	3.973	3.972	0.001	98	294824	47.7	
23 1,4-Dichlorobenzene	146	4.020	4.019	0.001	95	298263	48.0	
24 Benzyl alcohol	108	4.104	4.104	0.0	95	199737	53.1	
25 1,2-Dichlorobenzene	146	4.114	4.113	0.001	98	284379	47.2	
2 Indene	115	4.165	4.170	-0.005	73	445243	47.8	
27 2,2'-oxybis[1-chloropropane]	121	4.184	4.184	0.0	94	84148	43.0	M
26 2-Methylphenol	108	4.189	4.189	0.0	92	278914	54.6	
30 Acetophenone	105	4.264	4.264	0.0	95	356440	49.2	
32 N-Nitrosodi-n-propylamine	70	4.264	4.264	0.0	92	179967	50.0	
28 3 & 4 Methylphenol	108	4.288	4.287	0.001	0	288095	53.0	
33 Hexachloroethane	117	4.321	4.320	0.001	96	101449	48.7	
* 37 Naphthalene-d8	136	4.800	4.800	0.0	98	658661	40.0	
47 Nitrobenzene	77	4.368	4.367	0.001	81	256952	49.6	
48 Isophorone	82	4.513	4.513	0.0	96	508372	51.2	
49 2-Nitrophenol	139	4.565	4.565	0.0	86	171261	51.8	
50 2,4-Dimethylphenol	107	4.603	4.602	0.001	92	272879	49.5	
52 Bis(2-chloroethoxy)methane	93	4.650	4.649	0.001	98	277828	46.8	
51 Benzoic acid	105	4.706	4.687	0.019	83	527825	103.1	E
53 2,4-Dichlorophenol	162	4.730	4.729	0.001	89	263434	52.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
55 1,2,4-Trichlorobenzene	180	4.763	4.762	0.001	95	246260	48.3	
56 Naphthalene	128	4.810	4.814	-0.004	97	774661	46.3	
57 4-Chloroaniline	127	4.852	4.852	0.0	85	363389	47.3	
59 Hexachlorobutadiene	225	4.890	4.889	0.001	91	128246	47.6	
42 Caprolactam	113	5.092	5.087	0.005	86	121837	48.2	
62 4-Chloro-3-methylphenol	107	5.190	5.190	0.0	86	270247	51.5	
65 2-Methylnaphthalene	142	5.266	5.270	-0.004	81	586411	46.9	
66 1-Methylnaphthalene	142	5.336	5.336	0.0	78	557022	47.1	
45 1,2,4,5-Tetrachlorobenzene	216	5.388	5.388	0.0	96	254419	48.0	
43 1,1'-Biphenyl	154	5.614	5.613	0.001	94	726251	48.3	
* 72 Acenaphthene-d10	164	6.079	6.079	0.0	79	457210	40.0	
76 Hexachlorocyclopentadiene	237	5.379	5.378	0.001	94	111465	52.6	
77 2,4,6-Trichlorophenol	196	5.482	5.482	0.0	85	201426	52.4	
78 2,4,5-Trichlorophenol	196	5.529	5.529	0.0	96	216176	52.7	
83 2-Chloronaphthalene	162	5.628	5.627	0.001	95	554921	47.2	
84 2-Nitroaniline	65	5.712	5.717	-0.005	91	166686	48.2	
85 Dimethyl phthalate	163	5.863	5.863	0.0	99	695918	47.4	
81 1,3-Dinitrobenzene	168	5.891	5.891	0.0	88	136112	46.2	
86 2,6-Dinitrotoluene	165	5.915	5.914	0.001	79	178747	49.9	
87 Acenaphthylene	152	5.962	5.961	0.001	91	939824	47.5	
88 3-Nitroaniline	138	6.056	6.055	0.001	93	206160	44.2	
89 Acenaphthene	153	6.107	6.107	0.0	92	616226	48.0	
90 2,4-Dinitrophenol	184	6.150	6.154	-0.004	81	252946	96.4	
92 Dibenzofuran	168	6.263	6.262	0.001	85	859417	47.0	
93 2,4-Dinitrotoluene	165	6.263	6.262	0.001	68	242621	47.8	
91 4-Nitrophenol	65	6.272	6.272	0.0	84	274397	93.7	
96 2,3,4,6-Tetrachlorophenol	232	6.385	6.385	0.001	67	183009	50.8	
97 Diethyl phthalate	149	6.493	6.493	0.0	99	689624	47.4	
196 Hexadecane	57	6.507	6.507	0.0	0	307486	47.7	
99 Fluorene	166	6.578	6.582	-0.004	84	735269	47.9	
98 4-Chlorophenyl phenyl ether	204	6.587	6.587	0.0	89	331416	47.2	
100 4-Nitroaniline	138	6.620	6.620	0.0	93	222380	46.2	
101 Azobenzene	77	6.737	6.742	-0.005	96	584616	47.7	
* 106 Phenanthrene-d10	188	7.527	7.532	-0.005	95	818414	40.0	
116 4,6-Dinitro-2-methylphenol	198	6.643	6.648	-0.005	85	337130	100.3	
117 N-Nitrosodiphenylamine	169	6.705	6.704	0.001	57	538220	56.6	
120 4-Bromophenyl phenyl ether	248	7.071	7.071	0.0	58	206109	49.6	
121 Hexachlorobenzene	284	7.123	7.123	0.0	94	227147	47.7	
112 Atrazine	200	7.269	7.273	-0.004	89	210737	49.3	
124 Pentachlorophenol	266	7.344	7.348	-0.004	87	297260	102.1	
115 n-Octadecane	57	7.466	7.466	0.0	97	335206	49.8	
126 Phenanthrene	178	7.556	7.555	0.001	97	1020095	46.8	
129 Anthracene	178	7.612	7.612	0.0	97	1056520	47.7	
131 Carbazole	167	7.805	7.805	0.0	82	1077344	47.3	
132 Di-n-butyl phthalate	149	8.237	8.237	0.0	100	1173337	48.7	
135 Fluoranthene	202	8.891	8.891	0.0	98	1175440	47.5	
* 140 Chrysene-d12	240	10.588	10.588	0.0	80	937022	40.0	
145 Benzidine	184	9.089	9.088	0.0	97	96255	12.0	
146 Pyrene	202	9.145	9.145	0.0	95	1196467	48.8	
150 Butyl benzyl phthalate	149	9.996	9.996	0.0	93	589635	48.8	
152 Benzo[a]anthracene	228	10.574	10.579	-0.005	90	1166363	47.9	
151 3,3'-Dichlorobenzidine	252	10.584	10.584	0.0	71	377138	41.7	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
153 Chrysene	228	10.617	10.621	-0.004	93	1143709	49.1	
154 Bis(2-ethylhexyl) phthalate	149	10.715	10.715	0.0	94	759454	47.5	
* 156 Perylene-d12	264	12.178	12.178	0.0	82	955277	40.0	
158 Di-n-octyl phthalate	149	11.463	11.463	0.0	99	1342653	48.6	
159 Benzo[b]fluoranthene	252	11.783	11.787	-0.004	86	1208666	46.9	
161 Benzo[k]fluoranthene	252	11.816	11.815	0.001	85	1287565	48.0	
162 Benzo[a]pyrene	252	12.121	12.121	0.0	77	1170013	47.8	
164 Indeno[1,2,3-cd]pyrene	276	13.208	13.212	-0.004	94	1427290	47.1	M
165 Dibenz(a,h)anthracene	278	13.236	13.236	0.0	69	1240623	48.6	
166 Benzo[g,h,i]perylene	276	13.480	13.485	-0.005	89	1222333	48.0	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

Review Flags
M - Manually Integrated

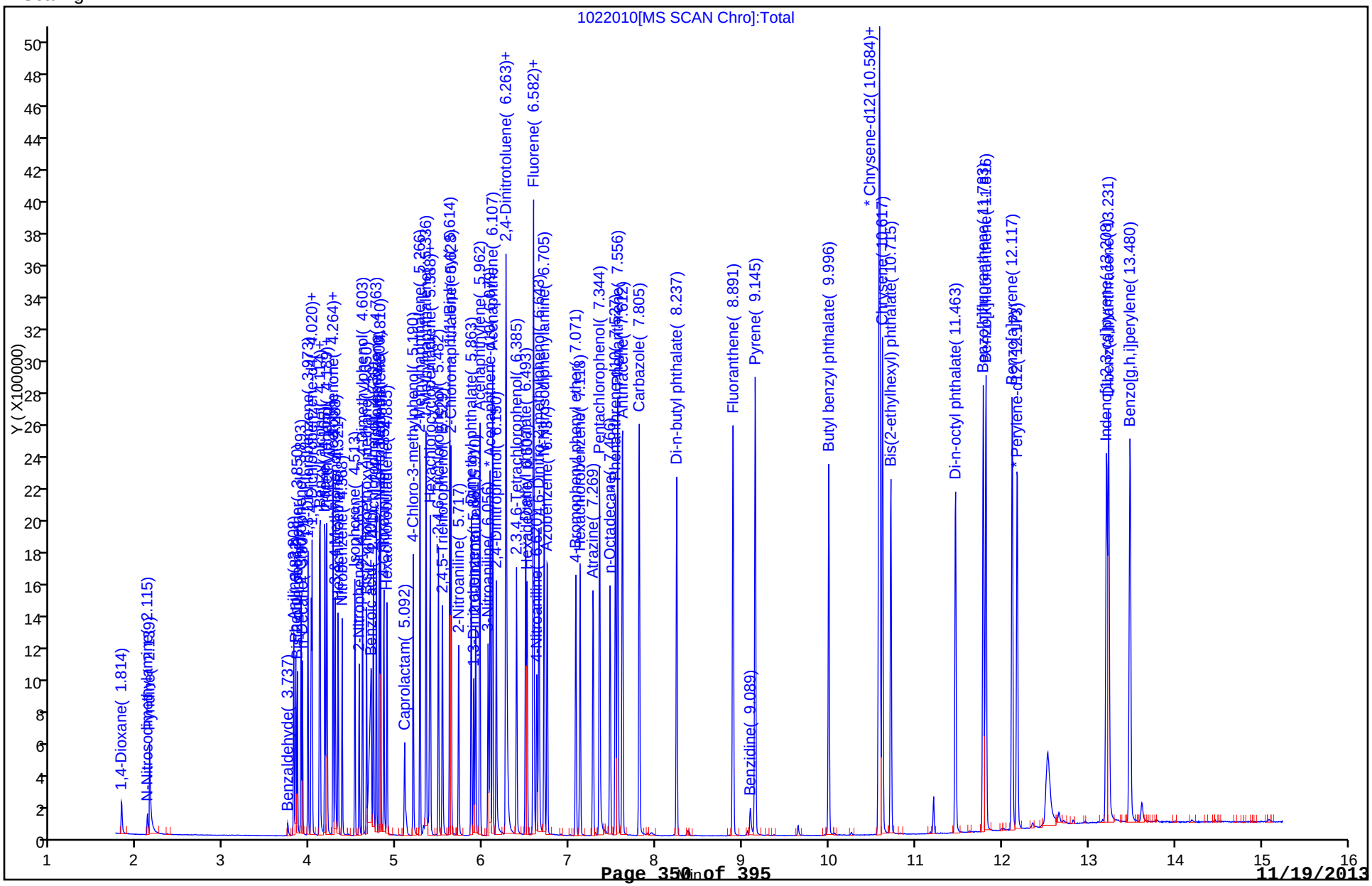
Report Date: 24-Oct-2013 12:55:12 Chrom Revision: 2.0 01-Apr-2013 21:16:10

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022010.D

Injection Date:	22-Oct-2013 19:45:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	12
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



Manual Integration/User Assign Peak Report

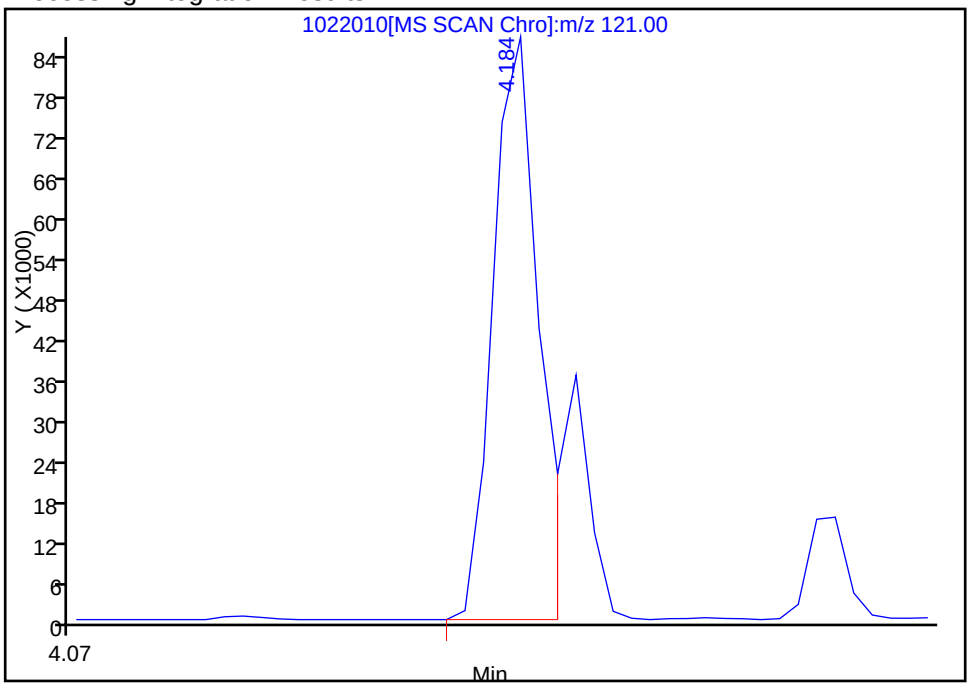
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022010.D		
Injection Date:	22-Oct-2013 19:45:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	12
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

27 2,2'-oxybis[1-chloropropane], Signal: 1, m/z: 121.0 Type: quant, RT: 4.18

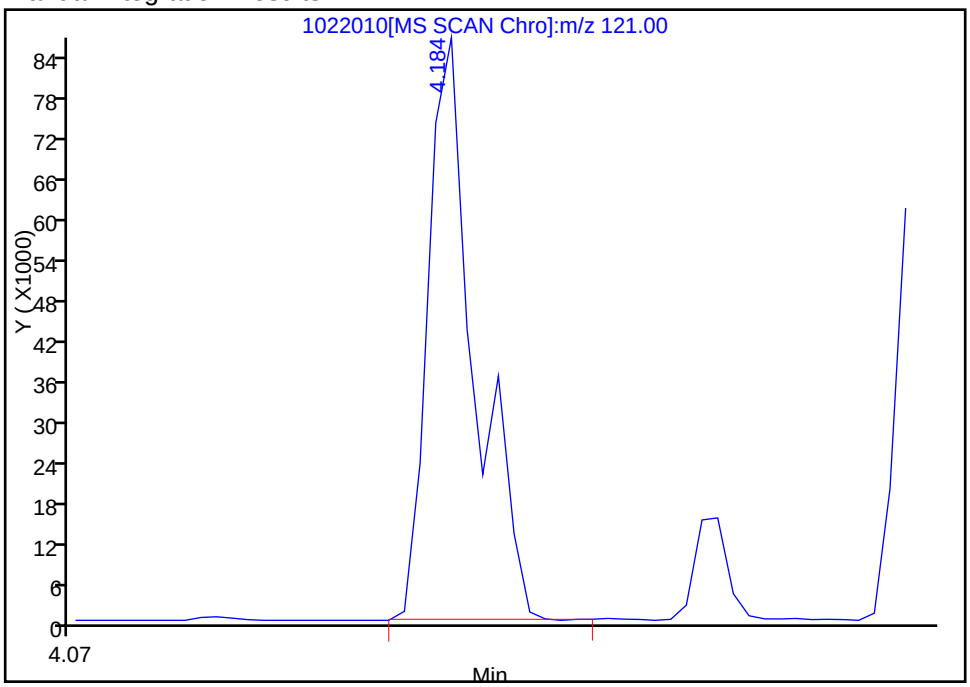
Processing Integration Results

RT: 4.18
Response: 70409
Amount: 35.991390



Manual Integration Results

RT: 4.18
Response: 84148
Amount: 43.014437



Reviewer: phelpsk, 23-Oct-2013 11:07:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

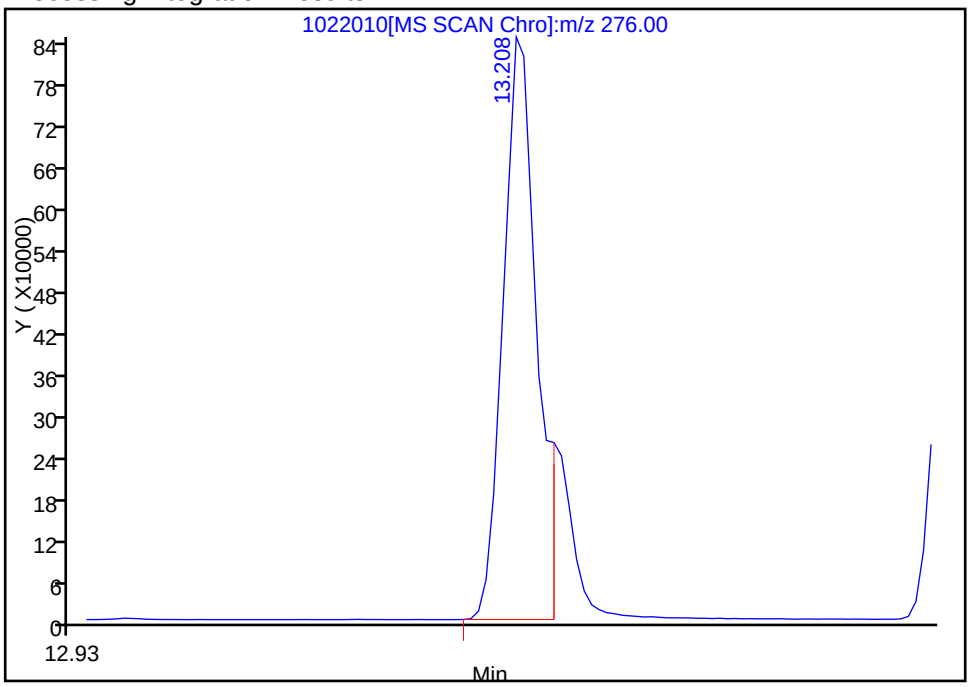
TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022010.D		
Injection Date:	22-Oct-2013 19:45:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	12
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

164 Indeno[1,2,3-cd]pyrene, Signal: 1, m/z: 276.0 Type: quant, RT: 13.21

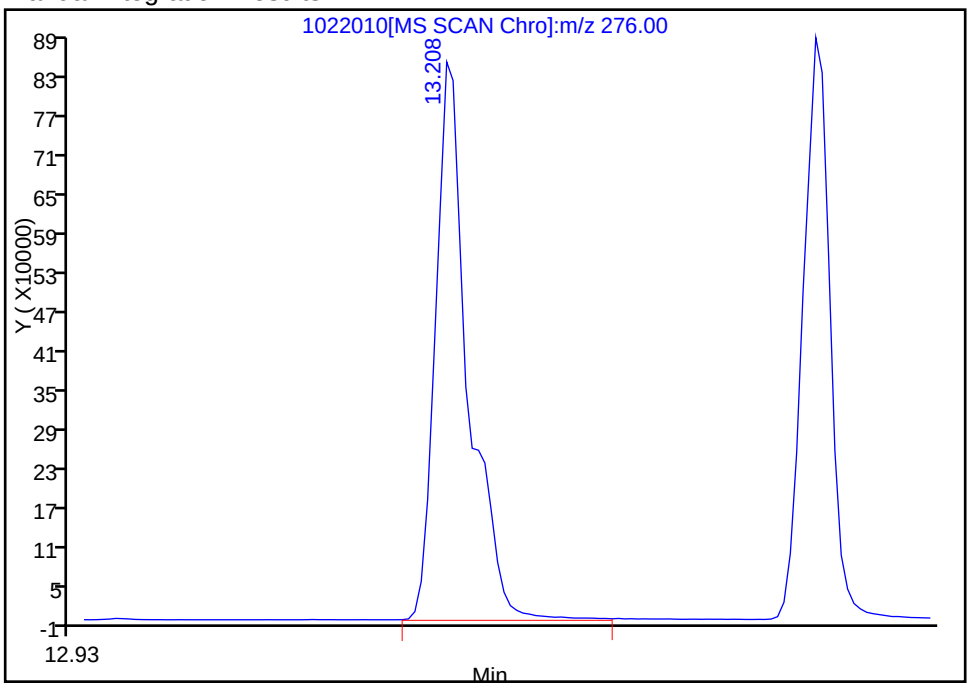
Processing Integration Results

RT: 13.21
Response: 1241226
Amount: 40.948658



Manual Integration Results

RT: 13.21
Response: 1427290
Amount: 47.087001



Reviewer: phelpsk, 23-Oct-2013 11:07:29
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Lab Sample ID: CCVIS 490-121052/3 Calibration Date: 11/11/2013 15:40

Instrument ID: HP31 Calib Start Date: 10/22/2013 17:06

GC Column: ZB-5MSi ID: 0.25(mm) Calib End Date: 10/22/2013 19:23

Lab File ID: 1111003.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4763	0.4656		48.9	50.0	-2.2	20.0
N-Nitrosodimethylamine	Ave	0.6404	0.6290		49.1	50.0	-1.8	20.0
Pyridine	Ave	0.7751	0.7263		46.9	50.0	-6.3	20.0
Benzaldehyde	Ave	0.5490	0.5108		46.5	50.0	-7.0	20.0
Aniline	Ave	1.867	1.727		46.2	50.0	-7.5	20.0
Phenol	Ave	1.661	1.521		45.8	50.0	-8.4	20.0
Bis(2-chloroethyl)ether	Ave	1.220	1.124		46.1	50.0	-7.9	20.0
2-Chlorophenol	Ave	1.388	1.381		49.8	50.0	-0.5	20.0
n-Decane	Ave	1.115	1.062		47.7	50.0	-4.7	20.0
1,3-Dichlorobenzene	Ave	1.519	1.492		49.1	50.0	-1.8	20.0
1,4-Dichlorobenzene	Ave	1.525	1.476		48.4	50.0	-3.2	20.0
1,2-Dichlorobenzene	Ave	1.478	1.454		49.2	50.0	-1.6	20.0
Benzyl alcohol	Ave	0.9237	0.8013		43.4	50.0	-13.3	20.0
Indene	Ave	2.285	2.118		46.4	50.0	-7.3	20.0
bis (2-chloroisopropyl) ether	Ave	0.4803	0.4663		48.6	50.0	-2.9	20.0
2-Methylphenol	Ave	1.255	1.175		46.8	50.0	-6.4	20.0
Acetophenone	Ave	1.778	1.678		47.2	50.0	-5.6	20.0
N-Nitrosodi-n-propylamine	Ave	0.8835	0.8401	0.0500	47.5	50.0	-4.9	20.0
3 & 4 Methylphenol	Ave	1.334	1.269		47.6	50.0	-4.9	20.0
Hexachloroethane	Ave	0.5113	0.5090		49.8	50.0	-0.5	20.0
Nitrobenzene	Ave	0.3148	0.3267		51.9	50.0	3.8	20.0
Isophorone	Ave	0.6026	0.5930		49.2	50.0	-1.6	20.0
2-Nitrophenol	Ave	0.2008	0.2253		56.1	50.0	12.2	20.0
2,4-Dimethylphenol	Ave	0.3349	0.3279		49.0	50.0	-2.1	20.0
Bis(2-chloroethoxy)methane	Ave	0.3607	0.3619		50.2	50.0	0.3	20.0
Benzoic acid	Lin2		0.2879		47.6	50.0	-4.9	20.0
2,4-Dichlorophenol	Ave	0.3024	0.3247		53.7	50.0	7.4	20.0
1,2,4-Trichlorobenzene	Ave	0.3099	0.3221		52.0	50.0	4.0	20.0
Naphthalene	Ave	1.016	0.9835		48.4	50.0	-3.2	20.0
4-Chloroaniline	Ave	0.4664	0.4672		50.1	50.0	0.2	20.0
Hexachlorobutadiene	Ave	0.1637	0.1812		55.3	50.0	10.7	20.0
Caprolactam	Ave	0.1535	0.1380		45.0	50.0	-10.1	20.0
4-Chloro-3-methylphenol	Ave	0.3186	0.3267		51.3	50.0	2.5	20.0
2-Methylnaphthalene	Ave	0.7590	0.7564		49.8	50.0	-0.3	20.0
1-Methylnaphthalene	Ave	0.7176	0.7064		49.2	50.0	-1.6	20.0
Hexachlorocyclopentadiene	Lin2		0.2122	0.0500	56.7	50.0	13.4	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.3221	0.3287		51.0	50.0	2.1	20.0
2,4,6-Trichlorophenol	Ave	0.3366	0.3643		54.1	50.0	8.2	20.0
2,4,5-Trichlorophenol	Ave	0.3591	0.3874		53.9	50.0	7.9	20.0
Biphenyl	Ave	0.9141	0.8902		48.7	50.0	-2.6	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Lab Sample ID: CCVIS 490-121052/3 Calibration Date: 11/11/2013 15:40

Instrument ID: HP31 Calib Start Date: 10/22/2013 17:06

GC Column: ZB-5MSi ID: 0.25(mm) Calib End Date: 10/22/2013 19:23

Lab File ID: 1111003.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloronaphthalene	Ave	1.029	1.039		50.5	50.0	0.9	20.0
2-Nitroaniline	Lin2		0.2939		48.6	50.0	-2.8	20.0
Dimethyl phthalate	Ave	1.286	1.283		49.9	50.0	-0.2	20.0
1,3-Dinitrobenzene	Ave	0.2578	0.2622		50.9	50.0	1.7	20.0
2,6-Dinitrotoluene	Ave	0.3132	0.3276		52.3	50.0	4.6	20.0
Acenaphthylene	Ave	1.733	1.728		49.9	50.0	-0.3	20.0
3-Nitroaniline	Lin2		0.3814		46.7	50.0	-6.6	20.0
Acenaphthene	Ave	1.124	1.121		49.9	50.0	-0.3	20.0
2,4-Dinitrophenol	Lin2		0.2317	0.0500	101	100	0.7	20.0
Dibenzofuran	Ave	1.600	1.593		49.8	50.0	-0.4	20.0
2,4-Dinitrotoluene	Ave	0.4441	0.4423		49.8	50.0	-0.4	20.0
4-Nitrophenol	Lin2		0.2291	0.0500	89.5	100	-10.5	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3153	0.3240		51.4	50.0	2.7	20.0
Diethyl phthalate	Ave	1.273	1.283		50.4	50.0	0.7	20.0
Hexadecane	Ave	0.5644	0.5780		51.2	50.0	2.4	20.0
Fluorene	Ave	1.342	1.321		49.2	50.0	-1.5	20.0
4-Chlorophenyl phenyl ether	Ave	0.6140	0.6189		50.4	50.0	0.8	20.0
4-Nitroaniline	Lin2		0.3817		45.3	50.0	-9.4	20.0
4,6-Dinitro-2-methylphenol	Lin2		0.1665		101	100	1.4	20.0
n-Nitrosodiphenylamine(as diphenylamine)	Ave	0.4646	0.4910		52.8	50.0	5.7	20.0
1,2-Diphenylhydrazine (as Azobenzene)	Ave	1.073	1.045		48.7	50.0	-2.6	20.0
4-Bromophenyl phenyl ether	Ave	0.2029	0.2286		56.3	50.0	12.6	20.0
Hexachlorobenzene	Ave	0.2327	0.2463		52.9	50.0	5.8	20.0
Atrazine	Ave	0.2090	0.1672		40.0	50.0	-20.0	20.0
Pentachlorophenol	Lin2		0.1407		98.9	100	-1.1	20.0
n-Octadecane	Ave	0.3289	0.3575		54.4	50.0	8.7	20.0
Phenanthrene	Ave	1.064	1.064		50.0	50.0	-0.0	20.0
Anthracene	Ave	1.083	1.093		50.5	50.0	1.0	20.0
Carbazole	Ave	1.113	1.084		48.7	50.0	-2.6	20.0
Di-n-butyl phthalate	Ave	1.177	1.243		52.8	50.0	5.6	20.0
Fluoranthene	Ave	1.210	1.196		49.4	50.0	-1.2	20.0
Benzidine	Lin2		0.2462		35.2	50.0	-29.6*	20.0
Pyrene	Ave	1.047	1.071		51.2	50.0	2.4	20.0
Butyl benzyl phthalate	Lin2		0.5284		51.2	50.0	2.3	20.0
Benzo[a]anthracene	Ave	1.039	1.032		49.7	50.0	-0.6	20.0
3,3'-Dichlorobenzidine	Ave	0.3857	0.4034		52.3	50.0	4.6	20.0
Chrysene	Ave	0.9950	0.9764		49.1	50.0	-1.9	20.0
Bis(2-ethylhexyl) phthalate	Lin2		0.7124		52.1	50.0	4.2	20.0
Di-n-octyl phthalate	Lin2		1.198		51.7	50.0	3.4	20.0
Benzo[b]fluoranthene	Ave	1.080	1.086		50.3	50.0	0.6	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Lab Sample ID: CCVIS 490-121052/3 Calibration Date: 11/11/2013 15:40

Instrument ID: HP31 Calib Start Date: 10/22/2013 17:06

GC Column: ZB-5MSi ID: 0.25(mm) Calib End Date: 10/22/2013 19:23

Lab File ID: 1111003.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[k]fluoranthene	Ave	1.123	1.106		49.3	50.0	-1.5	20.0
Benzo[a]pyrene	Ave	1.025	1.036		50.5	50.0	1.1	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.269	1.290		50.8	50.0	1.6	20.0
Dibenz(a,h)anthracene	Ave	1.069	1.106		51.7	50.0	3.5	20.0
Benzo[g,h,i]perylene	Ave	1.067	1.102		51.6	50.0	3.2	20.0
2-Fluorophenol (Surr)	Ave	1.171	1.223		52.2	50.0	4.5	20.0
Phenol-d5 (Surr)	Ave	1.576	1.495		47.4	50.0	-5.2	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3270	0.3425		52.4	50.0	4.7	20.0
2-Fluorobiphenyl (Surr)	Ave	1.214	1.258		51.8	50.0	3.6	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1195	0.1341		56.1	50.0	12.2	20.0
Terphenyl-d14 (Surr)	Ave	0.7659	0.8118		53.0	50.0	6.0	20.0

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\hp31\20131111-28238.b\1111003.D
Lims ID: CCVIS Lab Sample ID:
Client ID:
Sample Type: CCVIS
Inject. Date: 11-Nov-2013 15:40:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 490-0028238-003
Operator ID: HP-31 Instrument ID: HP31
Sublist: chrom-8270HP31*sub30

Method: \\Nvlchrom\ChromData\hp31\20131111-28238.b\8270HP31.m
Limit Group: MSS 8270C ICAL
Last Update: 12-Nov-2013 14:52:34 Calib Date: 04-Nov-2013 11:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\hp31\20131103-27806.b\1104019.D

Column 1 : Detector MS SCAN
Process Host: XAWRK011

First Level Reviewer: spryc Date: 12-Nov-2013 14:52:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.805	3.805	0.0	95	216494	40.0	
4 1,4-Dioxane	88	1.520	1.520	0.0	93	126009	48.9	
5 N-Nitrosodimethylamine	74	1.830	1.830	0.0	94	170212	49.1	
6 Pyridine	52	1.854	1.854	0.0	96	196555	46.9	
$ 11 2-Fluorophenol	112	3.006	3.006	0.0	89	330967	52.2	
21 Benzaldehyde	105	3.533	3.533	0.0	90	138239	46.5	
17 Aniline	93	3.608	3.608	0.0	98	467385	46.2	
$ 15 Phenol-d5	99	3.636	3.636	0.0	0	404470	47.4	
16 Phenol	94	3.645	3.645	0.0	98	411694	45.8	
18 Bis(2-chloroethyl)ether	93	3.655	3.655	0.0	98	304103	46.1	
19 2-Chlorophenol	128	3.692	3.692	0.0	94	373756	49.8	
20 n-Decane	57	3.711	3.711	0.0	96	287499	47.7	
22 1,3-Dichlorobenzene	146	3.768	3.768	0.0	98	403782	49.1	
23 1,4-Dichlorobenzene	146	3.819	3.819	0.0	94	399358	48.4	
25 1,2-Dichlorobenzene	146	3.909	3.909	0.0	97	393505	49.2	
24 Benzyl alcohol	108	3.913	3.913	0.0	85	216842	43.4	
2 Indene	115	3.965	3.965	0.0	75	573175	46.3	
27 2,2'-oxybis[1-chloropropane]	121	3.989	3.989	0.0	93	126201	48.5	
26 2-Methylphenol	108	4.007	4.007	0.0	92	317889	46.8	
30 Acetophenone	105	4.064	4.064	0.0	96	454104	47.2	
32 N-Nitrosodi-n-propylamine	70	4.073	4.073	0.0	92	227333	47.5	
28 3 & 4 Methylphenol	108	4.101	4.101	0.0	0	343493	47.6	
33 Hexachloroethane	117	4.116	4.116	0.0	95	137733	49.8	
* 37 Naphthalene-d8	136	4.595	4.595	0.0	99	805032	40.0	
$ 46 Nitrobenzene-d5	82	4.158	4.158	0.0	85	344658	52.4	
47 Nitrobenzene	77	4.172	4.172	0.0	79	328793	51.9	
48 Isophorone	82	4.318	4.318	0.0	96	596710	49.2	
49 2-Nitrophenol	139	4.370	4.370	0.0	87	226663	56.1	
50 2,4-Dimethylphenol	107	4.417	4.417	0.0	90	329995	49.0	
52 Bis(2-chloroethoxy)methane	93	4.459	4.459	0.0	97	364213	50.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
51 Benzoic acid	105	4.511	4.511	0.0	83	289720	47.6	
53 2,4-Dichlorophenol	162	4.534	4.534	0.0	89	326765	53.7	
55 1,2,4-Trichlorobenzene	180	4.562	4.562	0.0	88	324160	52.0	
56 Naphthalene	128	4.609	4.609	0.0	95	989696	48.4	
57 4-Chloroaniline	127	4.656	4.656	0.0	84	470106	50.1	
59 Hexachlorobutadiene	225	4.685	4.685	0.0	93	182288	55.3	
42 Caprolactam	113	4.882	4.882	0.0	85	138897	45.0	
62 4-Chloro-3-methylphenol	107	4.990	4.990	0.0	90	328780	51.3	
65 2-Methylnaphthalene	142	5.047	5.047	0.0	86	761115	49.8	
66 1-Methylnaphthalene	142	5.112	5.112	0.0	81	710835	49.2	
45 1,2,4,5-Tetrachlorobenzene	216	5.164	5.164	0.0	92	330792	51.0	
43 1,1'-Biphenyl	154	5.380	5.380	0.0	95	895808	48.7	
* 72 Acenaphthene-d10	164	5.827	5.827	0.0	90	526176	40.0	
76 Hexachlorocyclopentadiene	237	5.155	5.155	0.0	91	139574	56.7	
77 2,4,6-Trichlorophenol	196	5.258	5.258	0.0	90	239616	54.1	
78 2,4,5-Trichlorophenol	196	5.301	5.301	0.0	97	254830	53.9	
$ 79 2-Fluorobiphenyl (Surr)	172	5.310	5.310	0.0	99	827653	51.8	
83 2-Chloronaphthalene	162	5.390	5.390	0.0	96	683328	50.5	
84 2-Nitroaniline	65	5.484	5.484	0.0	92	193300	48.6	
85 Dimethyl phthalate	163	5.630	5.630	0.0	99	844024	49.9	
81 1,3-Dinitrobenzene	168	5.658	5.658	0.0	96	172445	50.9	
86 2,6-Dinitrotoluene	165	5.677	5.677	0.0	86	215475	52.3	
87 Acenaphthylene	152	5.710	5.710	0.0	93	1136642	49.9	
88 3-Nitroaniline	138	5.818	5.818	0.0	91	250859	46.7	
89 Acenaphthene	153	5.851	5.851	0.0	93	737410	49.9	
90 2,4-Dinitrophenol	184	5.907	5.907	0.0	82	304741	100.7	
92 Dibenzofuran	168	6.001	6.001	0.0	86	1047851	49.8	
93 2,4-Dinitrotoluene	165	6.015	6.015	0.0	84	290928	49.8	
91 4-Nitrophenol	65	6.025	6.025	0.0	82	301369	89.5	
96 2,3,4,6-Tetrachlorophenol	232	6.128	6.128	0.0	68	213066	51.4	
97 Diethyl phthalate	149	6.241	6.241	0.0	98	843819	50.4	
196 Hexadecane	57	6.250	6.250	0.0	0	380140	51.2	
99 Fluorene	166	6.307	6.307	0.0	84	868986	49.2	
98 4-Chlorophenyl phenyl ether	204	6.321	6.321	0.0	89	407082	50.4	
100 4-Nitroaniline	138	6.368	6.368	0.0	94	251038	45.3	
101 Azobenzene	77	6.471	6.471	0.0	95	687074	48.7	
* 106 Phenanthrene-d10	188	7.238	7.238	0.0	96	914728	40.0	
116 4,6-Dinitro-2-methylphenol	198	6.387	6.387	0.0	84	380798	101.4	
117 N-Nitrosodiphenylamine	169	6.443	6.443	0.0	56	561367	52.8	
$ 119 2,4,6-Tribromophenol	330	6.547	6.547	0.0	90	153344	56.1	
120 4-Bromophenyl phenyl ether	248	6.791	6.791	0.0	57	261345	56.3	
121 Hexachlorobenzene	284	6.833	6.833	0.0	93	281565	52.9	
112 Atrazine	200	7.003	7.003	0.0	94	191124	40.0	
124 Pentachlorophenol	266	7.064	7.064	0.0	88	321661	98.9	
115 n-Octadecane	57	7.195	7.195	0.0	98	408791	54.3	
126 Phenanthrene	178	7.261	7.261	0.0	97	1216959	50.0	
129 Anthracene	178	7.313	7.313	0.0	97	1250030	50.5	
131 Carbazole	167	7.515	7.515	0.0	82	1239587	48.7	
132 Di-n-butyl phthalate	149	7.957	7.957	0.0	100	1420937	52.8	
135 Fluoranthene	202	8.578	8.578	0.0	98	1367295	49.4	
* 140 Chrysene-d12	240	10.266	10.266	0.0	79	1036025	40.0	
145 Benzidine	184	8.790	8.790	0.0	98	318813	35.2	

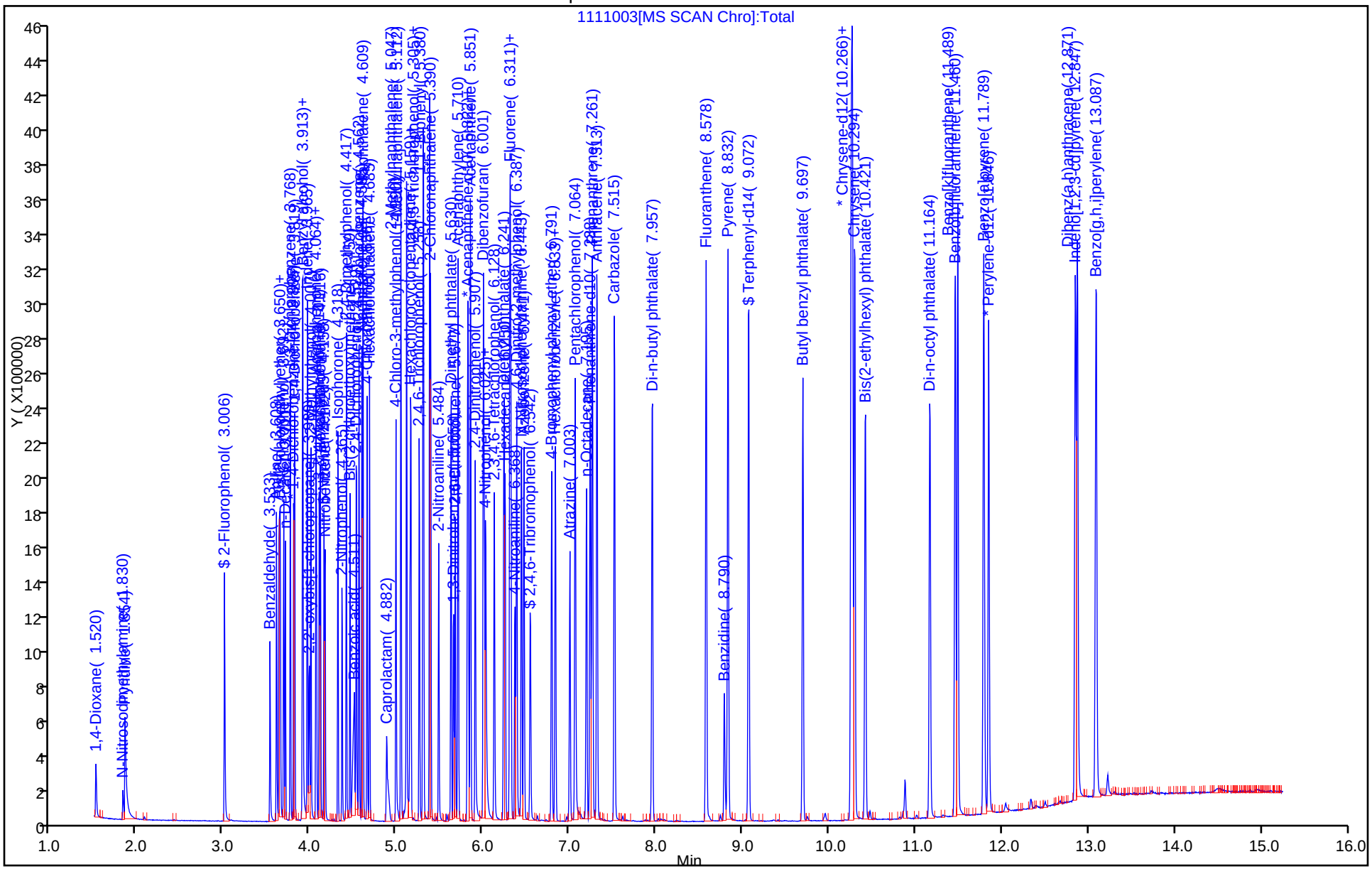
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
146 Pyrene	202	8.832	8.832	0.0	94	1387596	51.2	
$ 147 Terphenyl-d14	244	9.072	9.072	0.0	98	1051304	53.0	
150 Butyl benzyl phthalate	149	9.697	9.697	0.0	93	684250	51.2	
152 Benzo[a]anthracene	228	10.257	10.257	0.0	99	1337038	49.7	
151 3,3'-Dichlorobenzidine	252	10.275	10.275	0.0	70	522376	52.3	
153 Chrysene	228	10.299	10.299	0.0	92	1264408	49.1	
154 Bis(2-ethylhexyl) phthalate	149	10.421	10.421	0.0	94	922511	52.1	
* 156 Perylene-d12	264	11.846	11.846	0.0	82	1061086	40.0	
158 Di-n-octyl phthalate	149	11.164	11.164	0.0	99	1589116	51.7	
159 Benzo[b]fluoranthene	252	11.460	11.460	0.0	92	1440899	50.3	
161 Benzo[k]fluoranthene	252	11.489	11.489	0.0	94	1467305	49.3	
162 Benzo[a]pyrene	252	11.789	11.789	0.0	77	1373923	50.5	
164 Indeno[1,2,3-cd]pyrene	276	12.847	12.847	0.0	94	1710561	50.8	
165 Dibenz(a,h)anthracene	278	12.871	12.871	0.0	87	1467032	51.7	
166 Benzo[g,h,i]perylene	276	13.092	13.092	0.0	97	1461120	51.6	
S 167 Total Cresols	1				0		94.4	
S 172 Methyl Phenols,Total	1				0		94.4	

Report Date: 12-Nov-2013 14:52:35 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131111-28238.b\1111003.D

Injection Date:	11-Nov-2013 15:40:30	Instrument ID:	HP31	Operator ID:	HP-31
Lims ID:	CCVIS	Lab Sample ID:		Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8270HP31	Limit Group:	MSS 8270C ICAL		



TestAmerica Nashville
Target Compound Quantitation Report

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022002.D		
Lims ID:	DFTPP	Client ID:	
Inject. Date:	22-Oct-2013 16:47:30	Dil. Factor:	1.0000
Sample Type:	DFTPP		
Sample ID:	DFTPP		
Misc. Info.:	490-0027160-002		
Operator:	HP-31	Instrument ID:	HP31
Injection Vol:	1.0 ul	ALS Bottle#:	2
Lims Batch ID:	116166	Lims Sample ID:	2
Detector:	MS SCAN		
Method:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\8270HP31.m		
Last Update:	24-Oct-2013 12:55:25	Calib Date:	22-Oct-2013 19:23:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022009.D		
Limit Group:	MSS 8270C ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:		Column Dia:	
Process Host:	XAWRK049		

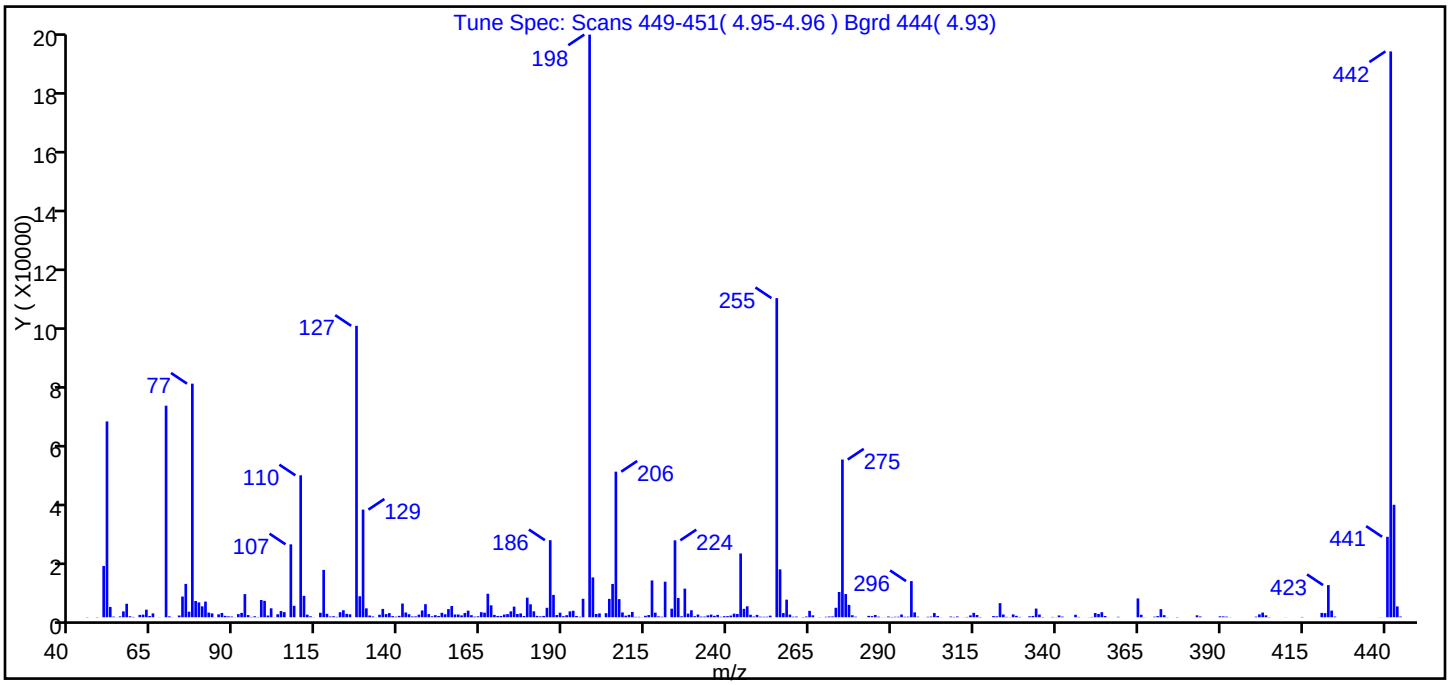
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/ml	Flags
175 Pentachlorophenol_T	266	4.524	4.524	0.0	88	239929	0	
177 DFTPP								
178 Benzidine_T	184	6.316	6.316	0.0	99	1562881	0	
180 4,4'-DDD	235	7.416	7.416	0.0	1	182	0	
181 4,4'-DDT	235	7.708	7.708	0.0	98	592405	0	

MS Tune Report

TestAmerica Nashville

Data File:	\\Nvlchrom\ChromData\hp31\20131022-27160.b\1022002.D		
Injection Date:	22-Oct-2013 16:47:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	2
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	
Tune Method:	DFTPP Method 8270		

177 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	33.61
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Present	36.31
70	Less than 2.00% of mass 69	0.15 (0.43)
127	40.00 - 60.00% of mass 198	50.02
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.84
275	10.00 - 30.00% of mass 198	27.07
365	Greater than 1.00% of mass 198	3.23
441	Present, but less than mass 443%	13.81 (71.53)
442	Greater than 40.00% of mass 198	97.11
443	17.00 - 23.00% of mass 442	19.30 (19.88)

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022002.D\8270HP31.rslt\spectra.d
Injection Date: 22-Oct-2013 16:47:30
Spectrum: Tune Spec: Scans 449-451(4.95-4.96) Bgrd 444(4.93)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 307

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	75	133.00	36	212.00	142	297.00	1630
48.00	82	134.00	845	213.00	149	298.00	201
50.00	17184	135.00	2791	214.00	56	301.00	159
51.00	65560	136.00	1053	215.00	494	302.00	233
52.00	3455	137.00	1389	216.00	730	303.00	1427
53.00	214	138.00	388	217.00	12320	304.00	429
54.00	42	139.00	198	218.00	1537	305.00	35
55.00	280	140.00	470	219.00	310	308.00	228
56.00	1970	141.00	4594	220.00	180	309.00	114
57.00	4512	142.00	1591	221.00	11906	310.00	267
58.00	331	143.00	1010	223.00	2867	312.00	39
59.00	121	144.00	268	224.00	25752	313.00	115
61.00	792	145.00	292	225.00	6453	314.00	622
62.00	874	146.00	874	226.00	326	315.00	1477
63.00	2549	147.00	2279	227.00	9577	316.00	749
64.00	398	148.00	4382	228.00	1223	317.00	93
65.00	1298	149.00	1049	229.00	2343	321.00	390
67.00	43	150.00	326	230.00	356	322.00	312
69.00	70832	151.00	704	231.00	911	323.00	4724
70.00	302	152.00	438	232.00	217	324.00	918
71.00	37	153.00	1498	233.00	226	325.00	131
73.00	587	154.00	991	234.00	629	326.00	53
74.00	6936	155.00	2733	235.00	893	327.00	961
75.00	11169	156.00	3758	236.00	475	328.00	476
76.00	1862	157.00	928	237.00	795	329.00	126
77.00	78208	158.00	925	238.00	156	332.00	318
78.00	5454	159.00	627	239.00	359	333.00	440
79.00	4971	160.00	1434	240.00	379	334.00	2910
80.00	3656	161.00	2214	241.00	559	335.00	912
81.00	5248	162.00	694	242.00	1208	336.00	100
82.00	1556	163.00	222	243.00	1091	339.00	113
83.00	1292	164.00	319	244.00	21360	340.00	45
84.00	39	165.00	1699	245.00	2819	341.00	609

Report Date: 24-Oct-2013 12:55:25 Chrom Revision: 2.0 01-Apr-2013 21:16:10
Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022002.D\8270HP31.rslt\spectra.d
Injection Date: 22-Oct-2013 16:47:30
Spectrum: Tune Spec: Scans 449-451(4.95-4.96) Bgrd 444(4.93)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 307

m/z	Y	m/z	Y	m/z	Y	m/z	Y
85.00	982	166.00	1528	246.00	3674	342.00	217
86.00	1435	167.00	7869	247.00	844	346.00	832
87.00	464	168.00	4000	248.00	245	347.00	120
88.00	306	169.00	779	249.00	796	350.00	41
89.00	239	170.00	438	250.00	195	351.00	113
90.00	39	171.00	431	251.00	164	352.00	1417
91.00	1045	172.00	910	252.00	179	353.00	1087
92.00	1461	173.00	1057	253.00	539	354.00	1698
93.00	7750	174.00	1973	255.00	106848	355.00	418
94.00	732	175.00	3563	256.00	16032	359.00	153
95.00	123	176.00	1090	257.00	1396	365.00	6304
96.00	333	177.00	1288	258.00	5892	366.00	834
97.00	102	178.00	411	259.00	895	367.00	41
98.00	5784	179.00	6557	260.00	179	370.00	188
99.00	5495	180.00	4348	261.00	233	371.00	388
100.00	573	181.00	1997	263.00	94	372.00	2721
101.00	3001	182.00	462	264.00	247	373.00	691
102.00	34	183.00	298	265.00	2144	374.00	53
103.00	1003	184.00	453	266.00	638	377.00	89
104.00	2067	185.00	3170	268.00	62	383.00	656
105.00	1712	186.00	25800	270.00	160	384.00	252
107.00	24416	187.00	7476	271.00	251	390.00	324
108.00	3837	188.00	743	272.00	270	391.00	285
110.00	47520	189.00	1530	273.00	3170	392.00	213
111.00	7174	190.00	362	274.00	8453	393.00	43
112.00	872	191.00	681	275.00	52808	401.00	203
113.00	317	192.00	1977	276.00	7769	402.00	969
114.00	42	193.00	2173	277.00	4146	403.00	1568
116.00	1501	194.00	431	278.00	677	404.00	646
117.00	15853	195.00	175	279.00	199	405.00	72
118.00	1160	196.00	6188	283.00	462	410.00	37
119.00	258	198.00	195072	284.00	377	415.00	107
120.00	348	199.00	13337	285.00	771	421.00	1456
121.00	148	200.00	1084	286.00	214	422.00	1391

Report Date: 24-Oct-2013 12:55:25 Chrom Revision: 2.0 01-Apr-2013 21:16:10
Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022002.D\8270HP31.rslt\spectra.d
Injection Date: 22-Oct-2013 16:47:30
Spectrum: Tune Spec: Scans 449-451(4.95-4.96) Bgrd 444(4.93)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 307

m/z	Y	m/z	Y	m/z	Y	m/z	Y
122.00	1698	201.00	1286	287.00	35	423.00	10770
123.00	2353	203.00	1359	288.00	34	424.00	2233
124.00	1145	204.00	6143	289.00	254	425.00	236
125.00	996	205.00	11149	290.00	106	439.00	37
127.00	97568	206.00	48744	291.00	160	441.00	26936
128.00	7032	207.00	6078	292.00	171	442.00	189440
129.00	36032	208.00	1614	293.00	917	443.00	37656
130.00	2986	209.00	520	294.00	160	444.00	3635
131.00	585	210.00	812	295.00	197	445.00	236
132.00	279	211.00	1787	296.00	12105		

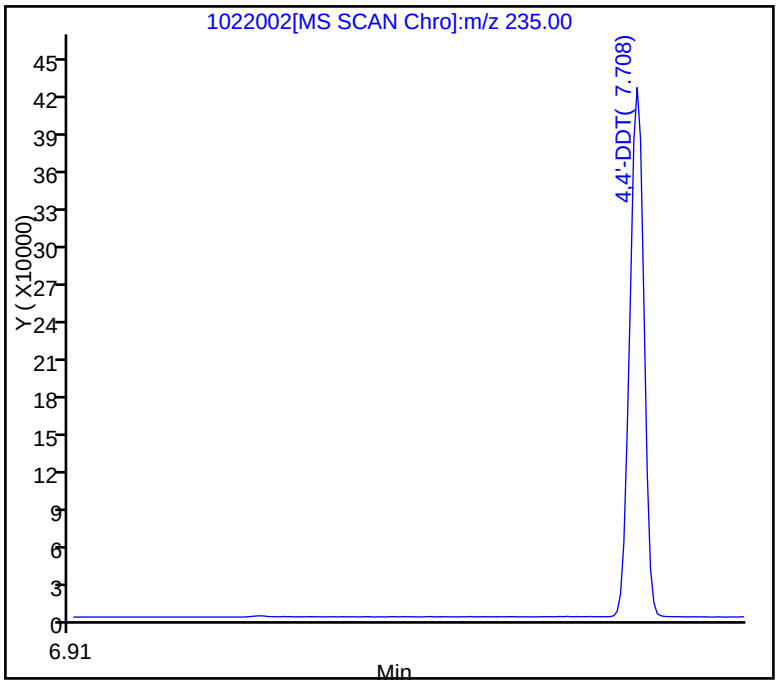
Breakdown Report

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022002.D

Injection Date:	22-Oct-2013 16:47:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	2
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

181 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

181 4,4'-DDT, Area = 592405
180 4,4'-DDD, Area = 182
179 4,4'-DDE, Area = 0

%Breakdown: 0.03%, Max Limit: 30.00%
Passed

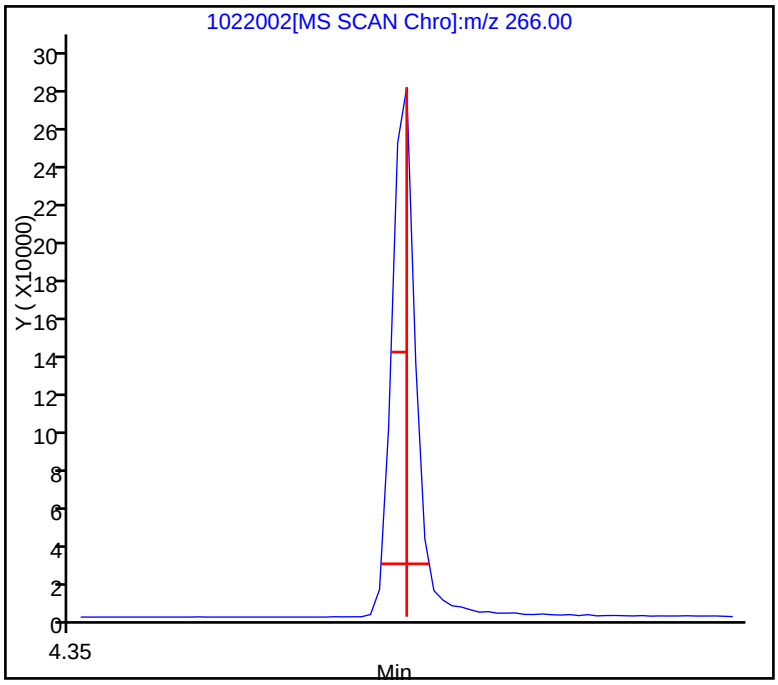
Peak Tailing Report

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022002.D

Injection Date:	22-Oct-2013 16:47:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	2
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

175 Pentachlorophenol_T, Detector: MS SCAN



Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.012 (min.)
Front Width = 0.013 (min.)

Tailing Factor = 0.9, Max. Tailing < 5.00
Passed

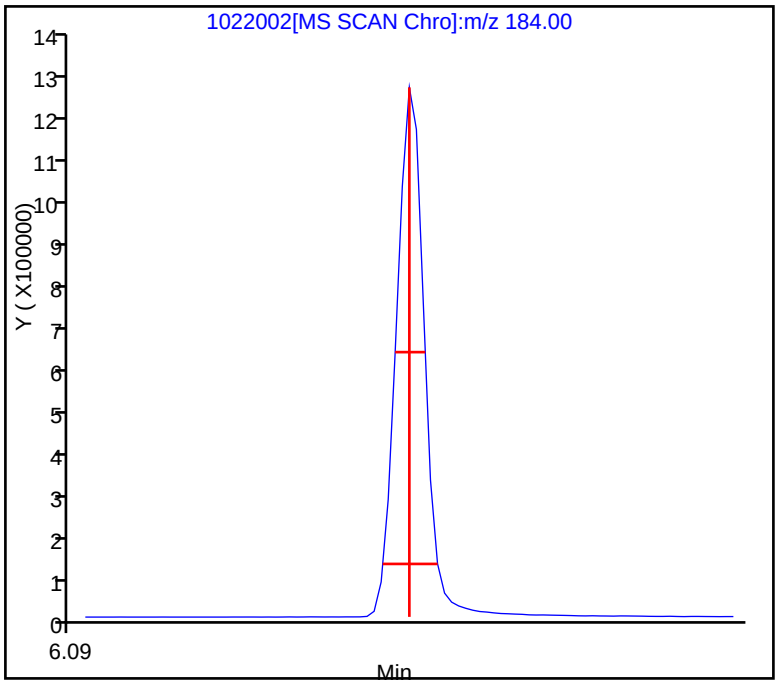
Peak Tailing Report

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131022-27160.b\1022002.D

Injection Date:	22-Oct-2013 16:47:30	Limit Group:	MSS 8270C ICAL
Client ID:		Instrument ID:	HP31
Lims Batch ID:	116166	Lims Sample ID:	2
Operator ID:	HP-31	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

178 Benzidine_T, Detector: MS SCAN



Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.019 (min.)
Front Width = 0.018 (min.)

Tailing Factor = 1.1, Max. Tailing < 3.00
Passed

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\hp31\20131111-28238.b\1111002.D
Lims ID: DFTPP Lab Sample ID:
Client ID:
Sample Type: DFTPP
Inject. Date: 11-Nov-2013 15:21:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 490-0028238-002
Operator ID: HP-31 Instrument ID: HP31

Method: \\Nvlchrom\ChromData\hp31\20131111-28238.b\8270HP31.m
Limit Group: MSS 8270C ICAL
Last Update: 12-Nov-2013 14:51:02 Calib Date: 04-Nov-2013 11:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\hp31\20131103-27806.b\1104019.D

Column 1 : Detector MS SCAN
Process Host: XAWRK011

First Level Reviewer: spryc Date: 12-Nov-2013 14:51:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
175 Pentachlorophenol_T	266	4.247	4.247	0.0	87	477016	0	7
177 DFTPP								
178 Benzidine_T	184	5.935	5.935	0.0	98	2684044	0	7
180 4,4'-DDD	235	6.753	6.753	0.0	59	3824	0	7
181 4,4'-DDT	235	7.261	7.261	0.0	98	1156263	0	7

QC Flag Legend

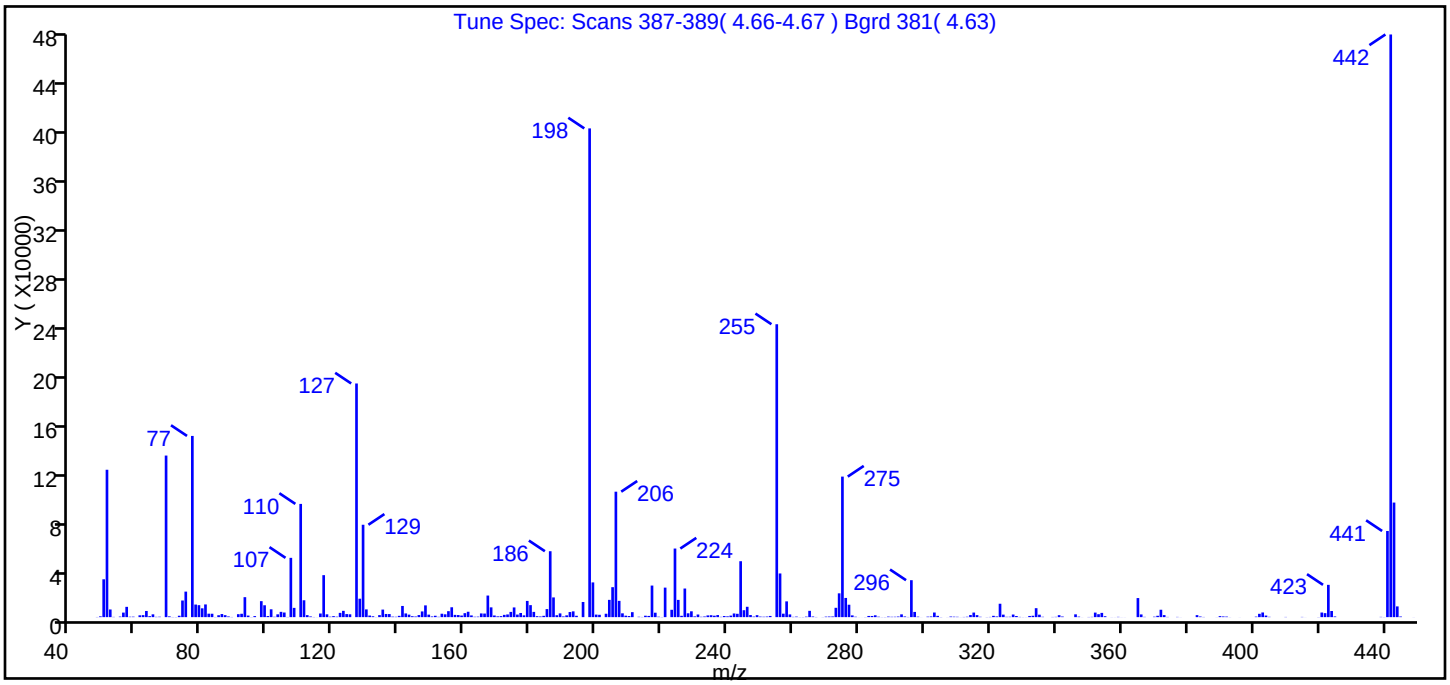
Processing Flags
7 - Failed Limit of Detection

MS Tune Report

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131111-28238.b\1111002.D
Injection Date: 11-Nov-2013 15:21:30 Instrument ID: HP31
Lims ID: DFTPP Lab Sample ID:
Client ID:
Operator ID: HP-31 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270HP31 Limit Group: MSS 8270C ICAL
Tune Method: DFTPP Method 8270

177 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	30.20
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Present	33.10
70	Less than 2.00% of mass 69	0.20 (0.50)
127	40.00 - 60.00% of mass 198	47.80
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.10
275	10.00 - 30.00% of mass 198	28.80
365	Greater than 1.00% of mass 198	3.90
441	Present, but less than mass 443%	17.60 (75.20)
442	Greater than 40.00% of mass 198	119.20
443	17.00 - 23.00% of mass 442	23.40 (19.70)

Data File: \\Nvlchrom\ChromData\hp31\20131111-28238.b\1111002.D\8270HP31.rslt\spectra.d
Injection Date: 11-Nov-2013 15:21:30
Spectrum: Tune Spec: Scans 387-389(4.66-4.67) Bgrd 381(4.63)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 332

m/z	Y	m/z	Y	m/z	Y	m/z	Y
48.00	132	138.00	421	226.00	1092	312.00	161
49.00	642	139.00	299	227.00	23184	313.00	317
50.00	30672	140.00	1066	228.00	3120	314.00	1712
51.00	119408	141.00	9064	229.00	4739	315.00	3708
52.00	6212	142.00	3006	230.00	608	316.00	1631
53.00	190	143.00	2034	231.00	2128	317.00	292
55.00	441	144.00	742	232.00	289	319.00	99
56.00	3682	145.00	500	233.00	525	320.00	172
57.00	8340	146.00	1676	234.00	1394	321.00	1064
58.00	339	147.00	4634	235.00	1561	322.00	549
59.00	386	148.00	9529	236.00	1172	323.00	10862
60.00	13	149.00	2027	237.00	1692	324.00	2031
61.00	1480	150.00	558	238.00	239	325.00	268
62.00	1620	151.00	1125	239.00	893	326.00	309
63.00	4999	152.00	269	240.00	636	327.00	2115
64.00	781	153.00	2769	241.00	1246	328.00	900
65.00	2277	154.00	2303	242.00	2974	329.00	190
66.00	233	155.00	4840	243.00	2719	330.00	75
67.00	338	156.00	8000	244.00	45312	331.00	58
69.00	130912	157.00	1836	245.00	5623	332.00	955
70.00	621	158.00	1687	246.00	8387	333.00	1126
71.00	125	159.00	1293	247.00	1714	334.00	7261
72.00	115	160.00	3226	248.00	443	335.00	1989
73.00	1135	161.00	4368	249.00	1611	336.00	287
74.00	13482	162.00	1387	250.00	448	339.00	159
75.00	20688	163.00	310	251.00	326	340.00	232
77.00	146816	164.00	410	252.00	468	341.00	1590
78.00	10203	165.00	3011	253.00	967	342.00	496
79.00	9702	166.00	2903	255.00	237312	346.00	2275
80.00	7152	167.00	17496	256.00	35392	347.00	425
81.00	10298	168.00	7928	257.00	2813	348.00	44
82.00	2800	169.00	1337	258.00	12781	350.00	145
83.00	2759	170.00	633	259.00	2205	351.00	222

Report Date: 12-Nov-2013 14:51:03 Chrom Revision: 2.1 15-Oct-2013 07:52:24
Data File: \\Nvlchrom\ChromData\hp31\20131111-28238.b\1111002.D\8270HP31.rslt\spectra.d
Injection Date: 11-Nov-2013 15:21:30
Spectrum: Tune Spec: Scans 387-389(4.66-4.67) Bgrd 381(4.63)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 332

m/z	Y	m/z	Y	m/z	Y	m/z	Y
84.00	138	171.00	822	260.00	214	352.00	3680
85.00	1538	172.00	1853	261.00	433	353.00	2366
86.00	2518	173.00	2177	262.00	90	354.00	3448
87.00	1599	174.00	4250	263.00	116	355.00	728
88.00	572	175.00	7868	264.00	411	357.00	54
89.00	142	176.00	2073	265.00	5105	358.00	43
91.00	2384	177.00	3366	266.00	524	359.00	222
92.00	2736	178.00	1451	267.00	140	360.00	47
93.00	16180	179.00	13133	268.00	11	361.00	40
94.00	1272	180.00	9722	269.00	79	365.00	15462
95.00	100	181.00	4257	270.00	409	366.00	2192
96.00	838	182.00	783	271.00	491	367.00	224
98.00	12956	183.00	530	272.00	531	370.00	365
99.00	9613	184.00	1072	273.00	7569	371.00	1101
100.00	884	185.00	6520	274.00	19288	372.00	5997
101.00	6359	186.00	53408	275.00	113864	373.00	1645
102.00	300	187.00	15980	276.00	15555	374.00	180
103.00	2269	188.00	1563	277.00	10059	377.00	189
104.00	4288	189.00	3041	278.00	1416	378.00	41
105.00	3746	190.00	557	279.00	338	383.00	1624
106.00	137	191.00	1466	280.00	41	384.00	520
107.00	48048	192.00	4137	281.00	19	385.00	155
108.00	7504	193.00	4698	282.00	105	389.00	53
110.00	91744	194.00	1120	283.00	970	390.00	823
111.00	13673	196.00	12272	284.00	952	391.00	557
112.00	1627	198.00	395968	285.00	1496	392.00	456
113.00	568	199.00	28136	286.00	378	393.00	60
114.00	134	200.00	2067	287.00	82	396.00	38
115.00	43	201.00	1906	288.00	110	401.00	414
116.00	2950	203.00	2759	289.00	442	402.00	2702
117.00	34016	204.00	14001	290.00	284	403.00	3787
118.00	2285	205.00	24280	291.00	323	404.00	1286
119.00	354	206.00	101640	292.00	497	405.00	264
120.00	809	207.00	13189	293.00	2258	410.00	165

Report Date: 12-Nov-2013 14:51:03 Chrom Revision: 2.1 15-Oct-2013 07:52:24
Data File: \\Nvlchrom\ChromData\hp31\20131111-28238.b\1111002.D\8270HP31.rslt\spectra.d
Injection Date: 11-Nov-2013 15:21:30
Spectrum: Tune Spec: Scans 387-389(4.66-4.67) Bgrd 381(4.63)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 332

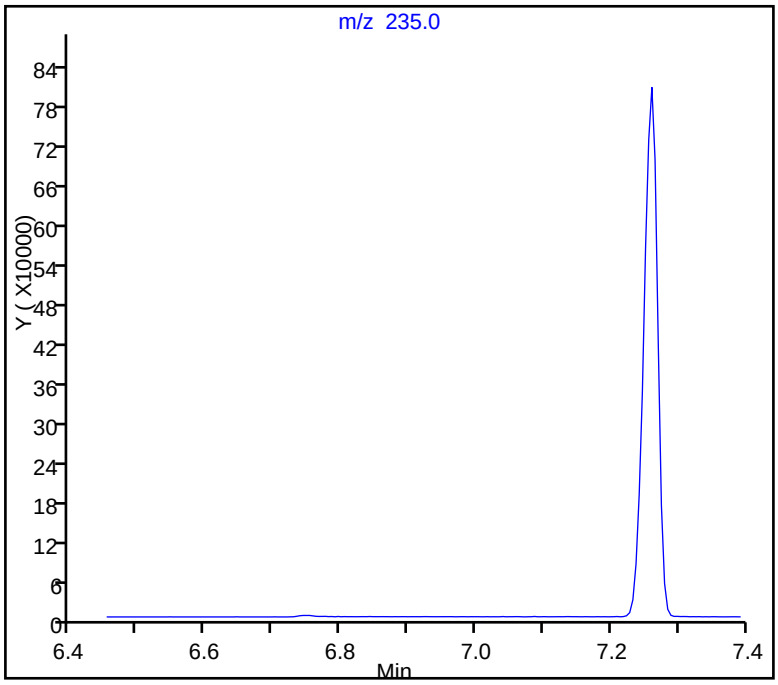
m/z	Y	m/z	Y	m/z	Y	m/z	Y
121.00	381	208.00	3091	294.00	542	415.00	183
122.00	3457	209.00	1179	295.00	149	416.00	33
123.00	5102	210.00	900	296.00	29936	420.00	107
124.00	2484	211.00	4034	297.00	4228	421.00	3740
125.00	2311	213.00	315	298.00	408	422.00	3233
127.00	189312	214.00	148	299.00	36	423.00	26168
128.00	14942	215.00	1162	301.00	386	424.00	4968
129.00	74856	216.00	985	302.00	544	425.00	543
130.00	6284	217.00	25584	303.00	3747	439.00	208
131.00	1301	218.00	3592	304.00	1053	440.00	77
132.00	705	219.00	369	305.00	114	441.00	69800
133.00	76	220.00	119	307.00	49	442.00	472064
134.00	1637	221.00	23920	308.00	493	443.00	92832
135.00	6119	223.00	5968	309.00	369	444.00	8704
136.00	2570	224.00	55576	310.00	288	445.00	512
137.00	2498	225.00	13976	311.00	50	449.00	45

Breakdown Report

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131111-28238.b\1111002.D
Injection Date: 11-Nov-2013 15:21:30 Instrument ID: HP31
Lims ID: DFTPP Lab Sample ID:
Client ID:
Operator ID: HP-31 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270HP31 Limit Group: MSS 8270C ICAL

181 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

181 4,4'-DDT, Area = 1156263
180 4,4'-DDD, Area = 3824
179 4,4'-DDE, Area = 0

%Breakdown: 0.33%, Max Limit: 30.00%
Passed

Peak Tailing Report

TestAmerica Nashville

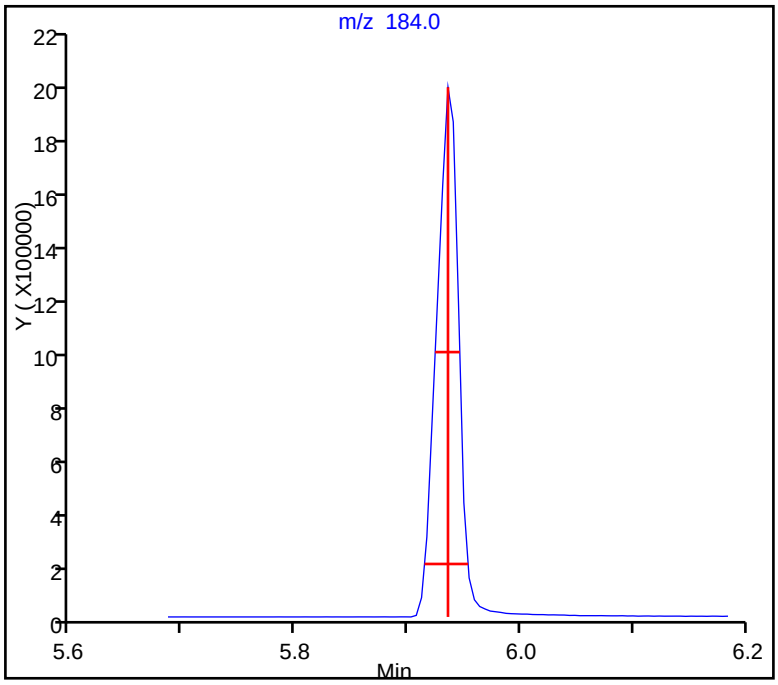
Data File: \\Nvlchrom\ChromData\hp31\20131111-28238.b\1111002.D
Injection Date: 11-Nov-2013 15:21:30 Instrument ID: HP31
Lims ID: DFTPP Lab Sample ID:
Client ID:
Operator ID: HP-31 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270HP31 Limit Group: MSS 8270C ICAL

178 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.018 (min.)
Front Width = 0.021 (min.)

Tailing Factor = 0.9, Max. Tailing < 3.00
Passed



Peak Tailing Report

TestAmerica Nashville

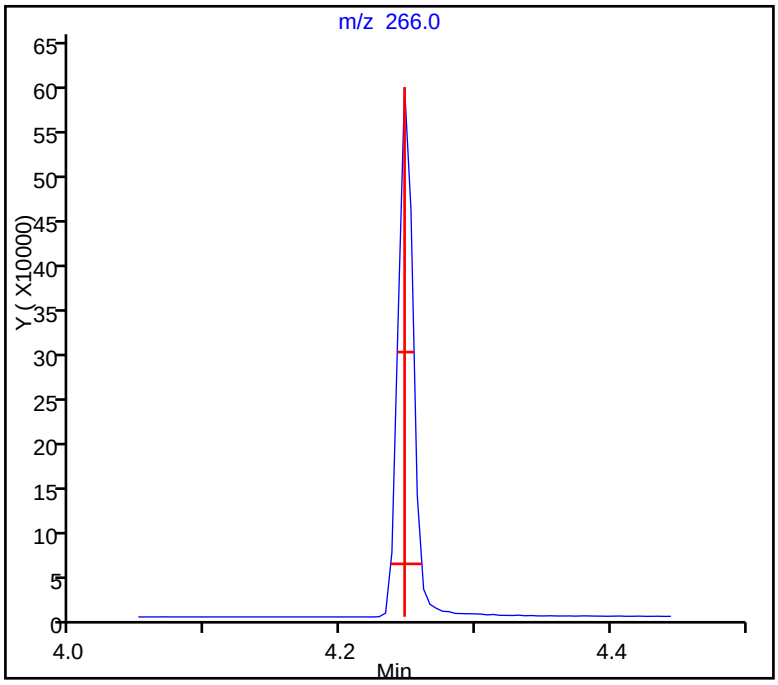
Data File: \\Nvlchrom\ChromData\hp31\20131111-28238.b\1111002.D
Injection Date: 11-Nov-2013 15:21:30 Instrument ID: HP31
Lims ID: DFTPP Lab Sample ID:
Client ID:
Operator ID: HP-31 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270HP31 Limit Group: MSS 8270C ICAL

175 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.2, Max. Tailing < 5.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39437-2

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-120924/1-A

Matrix: Water | Lab File ID: 1111006.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/11/2013 08:54

Sample wt/vol: 1000(mL) | Date Analyzed: 11/11/2013 16:49

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121052 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		2.00	0.366
208-96-8	Acenaphthylene	ND		2.00	0.330
98-86-2	Acetophenone	ND		10.0	1.90
120-12-7	Anthracene	ND		2.00	0.883
1912-24-9	Atrazine	ND		10.0	3.70
100-52-7	Benzaldehyde	ND		10.0	2.15
56-55-3	Benzo[a]anthracene	ND		2.00	0.324
50-32-8	Benzo[a]pyrene	ND		2.00	0.330
205-99-2	Benzo[b]fluoranthene	ND		2.00	0.422
191-24-2	Benzo[g,h,i]perylene	ND		2.00	0.287
207-08-9	Benzo[k]fluoranthene	ND		2.00	0.364
92-52-4	Biphenyl	ND		10.0	3.33
111-91-1	Bis(2-chloroethoxy)methane	ND		10.0	1.36
111-44-4	Bis(2-chloroethyl)ether	ND		10.0	1.39
108-60-1	bis (2-chloroisopropyl) ether	ND		10.0	1.96
117-81-7	Bis(2-ethylhexyl) phthalate	6.754	J	10.0	2.06
101-55-3	4-Bromophenyl phenyl ether	ND		10.0	1.37
85-68-7	Butyl benzyl phthalate	ND		10.0	1.74
105-60-2	Caprolactam	ND		10.0	3.33
86-74-8	Carbazole	ND		10.0	0.299
106-47-8	4-Chloroaniline	ND		10.0	1.17
59-50-7	4-Chloro-3-methylphenol	ND		10.0	3.33
91-58-7	2-Chloronaphthalene	ND		10.0	1.64
95-57-8	2-Chlorophenol	ND		10.0	1.59
7005-72-3	4-Chlorophenyl phenyl ether	ND		10.0	1.75
218-01-9	Chrysene	ND		2.00	1.09
53-70-3	Dibenz(a,h)anthracene	ND		2.00	0.644
132-64-9	Dibenzofuran	ND		10.0	0.339
91-94-1	3,3'-Dichlorobenzidine	ND		10.0	1.52
120-83-2	2,4-Dichlorophenol	ND		10.0	1.02
84-66-2	Diethyl phthalate	ND		10.0	1.62
105-67-9	2,4-Dimethylphenol	ND		10.0	0.996
131-11-3	Dimethyl phthalate	ND		10.0	1.81
84-74-2	Di-n-butyl phthalate	ND		10.0	1.50

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39437-2

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-120924/1-A

Matrix: Water | Lab File ID: 1111006.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/11/2013 08:54

Sample wt/vol: 1000(mL) | Date Analyzed: 11/11/2013 16:49

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121052 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
534-52-1	4,6-Dinitro-2-methylphenol	ND		25.0	2.07
51-28-5	2,4-Dinitrophenol	ND		25.0	2.46
121-14-2	2,4-Dinitrotoluene	ND		10.0	3.33
606-20-2	2,6-Dinitrotoluene	ND		10.0	1.94
117-84-0	Di-n-octyl phthalate	ND		10.0	2.31
206-44-0	Fluoranthene	ND		2.00	0.347
86-73-7	Fluorene	ND		2.00	0.316
118-74-1	Hexachlorobenzene	ND		10.0	1.69
87-68-3	Hexachlorobutadiene	ND		10.0	3.33
77-47-4	Hexachlorocyclopentadiene	ND		10.0	3.33
67-72-1	Hexachloroethane	ND		10.0	3.33
193-39-5	Indeno[1,2,3-cd]pyrene	ND		2.00	0.381
78-59-1	Isophorone	ND		10.0	1.24
91-57-6	2-Methylnaphthalene	ND		2.00	0.311
95-48-7	2-Methylphenol	ND		10.0	3.33
15831-10-4	3 & 4 Methylphenol	ND		10.0	3.33
91-20-3	Naphthalene	ND		2.00	0.398
88-74-4	2-Nitroaniline	ND		25.0	1.04
99-09-2	3-Nitroaniline	ND		25.0	1.85
100-01-6	4-Nitroaniline	ND		25.0	2.39
98-95-3	Nitrobenzene	ND		10.0	1.24
88-75-5	2-Nitrophenol	ND		10.0	1.57
100-02-7	4-Nitrophenol	ND		25.0	3.33
621-64-7	N-Nitrosodi-n-propylamine	ND		10.0	1.42
86-30-6	n-Nitrosodiphenylamine(as diphenylamine)	ND		10.0	1.44
87-86-5	Pentachlorophenol	ND		25.0	1.65
85-01-8	Phenanthrene	ND		2.00	0.343
108-95-2	Phenol	ND		10.0	3.45
129-00-0	Pyrene	ND		2.00	0.331
95-95-4	2,4,5-Trichlorophenol	ND		25.0	2.03
88-06-2	2,4,6-Trichlorophenol	ND		10.0	1.76

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39437-2

SDG No.:

Client Sample ID: | Lab Sample ID: MB 490-120924/1-A

Matrix: Water | Lab File ID: 1111006.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/11/2013 08:54

Sample wt/vol: 1000(mL) | Date Analyzed: 11/11/2013 16:49

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121052 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	76		29-120
367-12-4	2-Fluorophenol (Surr)	44		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	79		27-120
4165-62-2	Phenol-d5 (Surr)	27		10-120
1718-51-0	Terphenyl-d14 (Surr)	88		13-120
118-79-6	2,4,6-Tribromophenol (Surr)	82		10-120

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\hp31\20131111-28238.b\1111006.D
Lims ID: MB 490-120924/1-A Lab Sample ID: MB 490-120924/1-A
Client ID:
Sample Type: MB
Inject. Date: 11-Nov-2013 16:49:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 490-120924/1-A
Misc. Info.: 490-0028238-006
Operator ID: HP-31 Instrument ID: HP31

Method: \\Nvlchrom\ChromData\hp31\20131111-28238.b\8270HP31.m
Limit Group: MSS 8270C ICAL
Last Update: 12-Nov-2013 14:55:19 Calib Date: 04-Nov-2013 11:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\hp31\20131103-27806.b\1104019.D

Column 1 : Detector MS SCAN
Process Host: XAWRK011

First Level Reviewer: spryc Date: 12-Nov-2013 14:55:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.807	3.807	0.0	94	254889	40.0	
$ 11 2-Fluorophenol	112	3.008	3.006	0.002	90	165341	22.2	
$ 15 Phenol-d5	99	3.638	3.636	0.002	0	134881	13.4	
12 2-Butoxyethanol	57	8.721	8.656	0.065	1	196	0	
* 37 Naphthalene-d8	136	4.593	4.597	-0.004	99	960970	40.0	
$ 46 Nitrobenzene-d5	82	4.155	4.158	-0.003	85	308993	39.3	
* 72 Acenaphthene-d10	164	5.820	5.824	-0.004	90	592515	40.0	
$ 79 2-Fluorobiphenyl (Surr)	172	5.307	5.310	-0.003	99	681809	37.9	
A 75 C10-C28	1	6.000	2.000 -	10.000	0	15761279	0	
* 106 Phenanthrene-d10	188	7.230	7.230	0.0	95	1002927	40.0	
$ 119 2,4,6-Tribromophenol	330	6.539	6.547	-0.008	92	122752	41.0	
* 140 Chrysene-d12	240	10.259	10.258	0.001	80	1105656	40.0	
$ 147 Terphenyl-d14	244	9.064	9.072	-0.008	82	927632	43.8	
154 Bis(2-ethylhexyl) phthalate	149	10.414	10.421	-0.007	95	115736	6.75	
* 156 Perylene-d12	264	11.839	11.843	-0.004	82	1095070	40.0	
A 176 C10-C21	1	6.000	4.000 -	8.000	0	10651902	0	7
A 182 C21-C35	1	10.000	8.000 -	12.000	0	8996523	0	7

QC Flag Legend

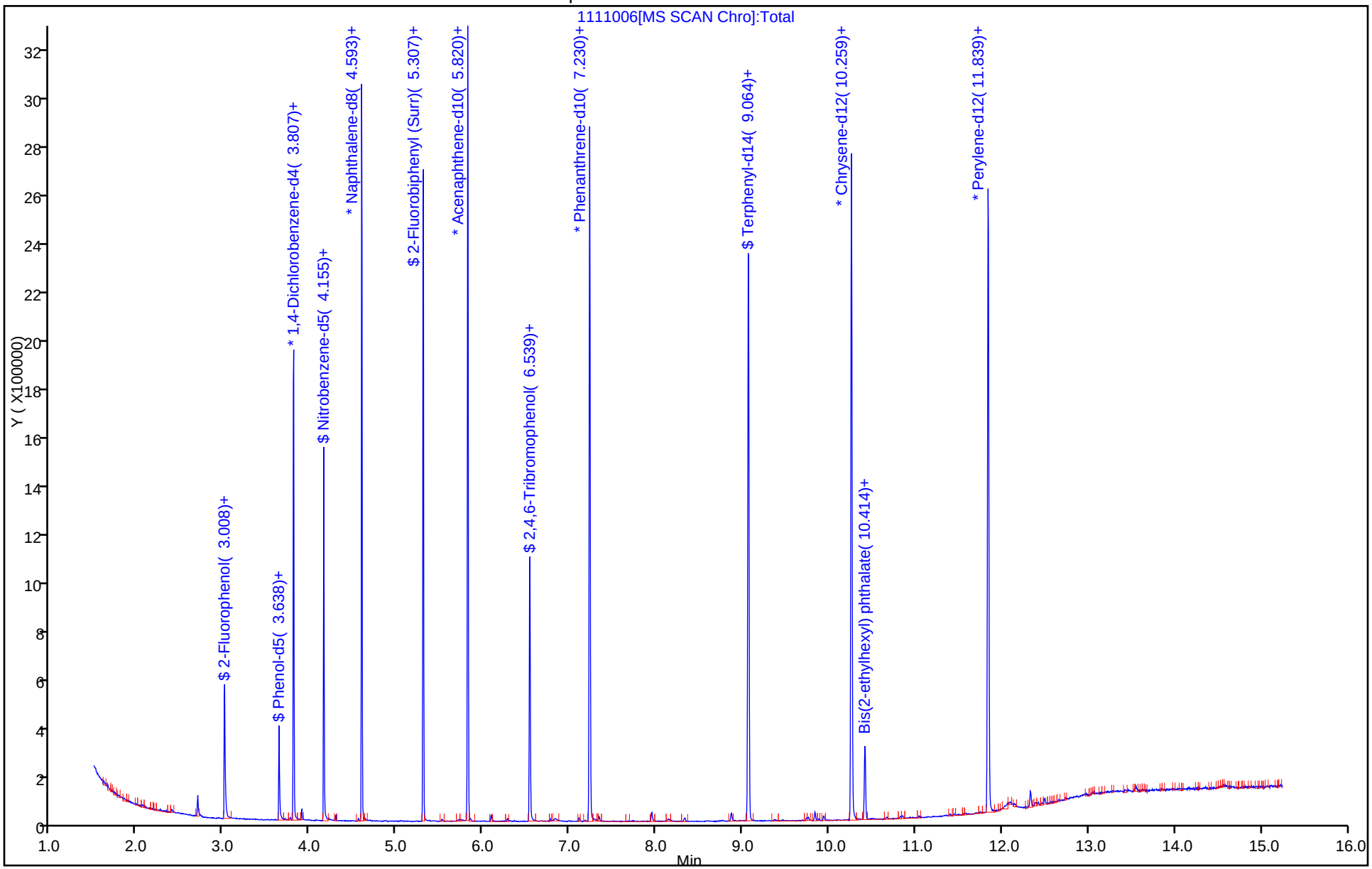
Processing Flags
7 - Failed Limit of Detection

Report Date: 12-Nov-2013 14:55:20 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131111-28238.b\1111006.D

Injection Date:	11-Nov-2013 16:49:30	Instrument ID:	HP31	Operator ID:	HP-31
Lims ID:	MB 490-120924/1-A	Lab Sample ID:	MB 490-120924/1-A	Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8270HP31	Limit Group:	MSS 8270C ICAL		



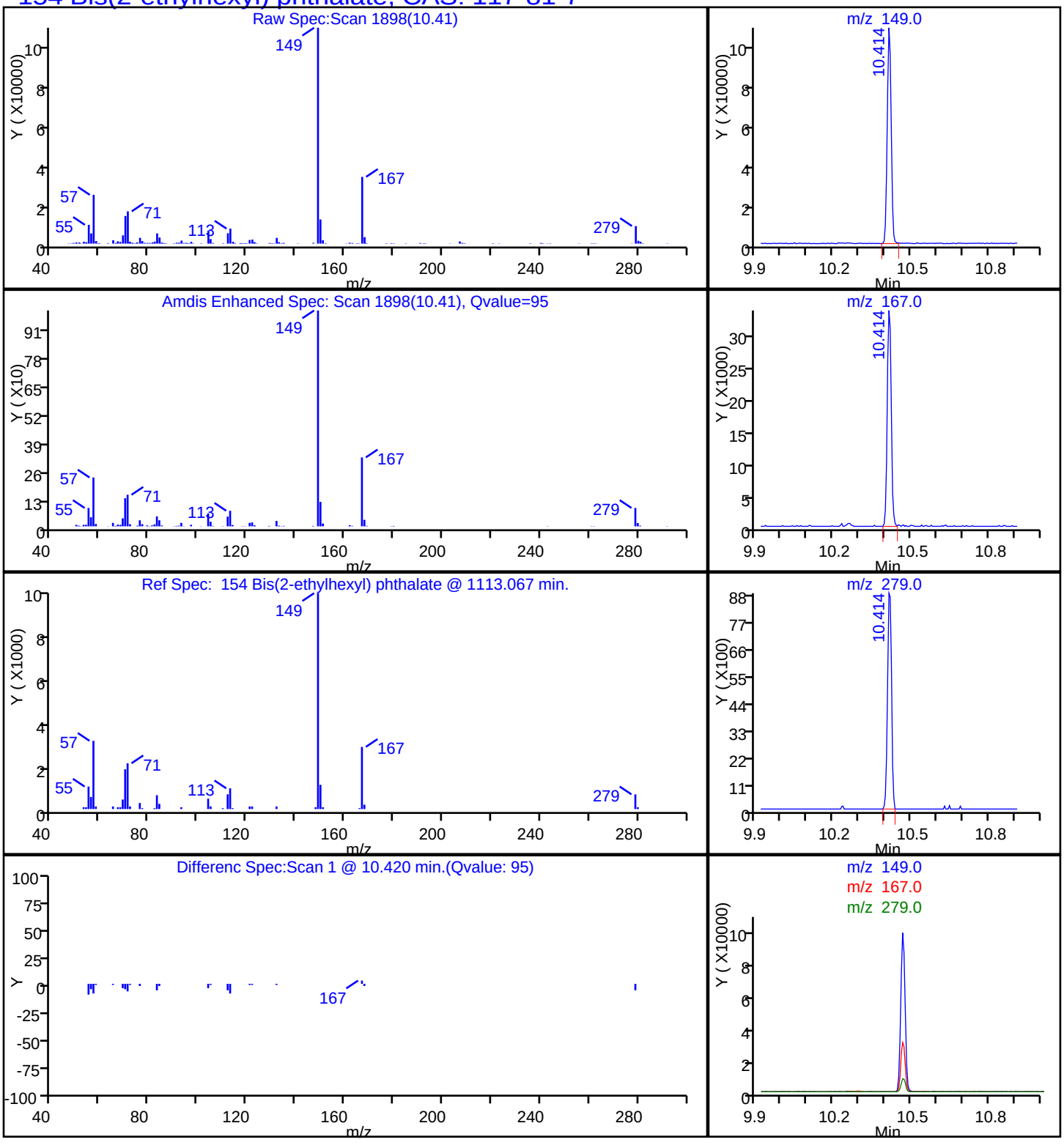
Report Date: 12-Nov-2013 14:55:20 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131111-28238.b\1111006.D

Injection Date:	11-Nov-2013 16:49:30	Instrument ID:	HP31		
Lims ID:	MB 490-120924/1-A	Lab Sample ID:	MB 490-120924/1-A		
Client ID:					
Operator ID:	HP-31	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270HP31	Limit Group:	MSS 8270C ICAL		
Column:		Detector	MS SCAN		

154 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39437-2

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-120924/2-A

Matrix: Water | Lab File ID: 1111007.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/11/2013 08:54

Sample wt/vol: 1000(mL) | Date Analyzed: 11/11/2013 17:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121052 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	38.49		2.00	0.366
208-96-8	Acenaphthylene	38.28		2.00	0.330
98-86-2	Acetophenone	37.31		10.0	1.90
120-12-7	Anthracene	39.80		2.00	0.883
1912-24-9	Atrazine	41.18		10.0	3.70
100-52-7	Benzaldehyde	55.83		10.0	2.15
56-55-3	Benzo[a]anthracene	39.01		2.00	0.324
50-32-8	Benzo[a]pyrene	38.40		2.00	0.330
205-99-2	Benzo[b]fluoranthene	38.31		2.00	0.422
191-24-2	Benzo[g,h,i]perylene	39.54		2.00	0.287
207-08-9	Benzo[k]fluoranthene	38.18		2.00	0.364
92-52-4	Biphenyl	37.14		10.0	3.33
111-91-1	Bis(2-chloroethoxy)methane	37.90		10.0	1.36
111-44-4	Bis(2-chloroethyl)ether	34.53		10.0	1.39
108-60-1	bis (2-chloroisopropyl) ether	26.72		10.0	1.96
117-81-7	Bis(2-ethylhexyl) phthalate	42.53		10.0	2.06
101-55-3	4-Bromophenyl phenyl ether	42.86		10.0	1.37
85-68-7	Butyl benzyl phthalate	41.02		10.0	1.74
105-60-2	Caprolactam	9.909	J	10.0	3.33
86-74-8	Carbazole	38.82		10.0	0.299
106-47-8	4-Chloroaniline	39.44		10.0	1.17
59-50-7	4-Chloro-3-methylphenol	39.82		10.0	3.33
91-58-7	2-Chloronaphthalene	37.57		10.0	1.64
95-57-8	2-Chlorophenol	36.50		10.0	1.59
7005-72-3	4-Chlorophenyl phenyl ether	38.72		10.0	1.75
218-01-9	Chrysene	39.24		2.00	1.09
53-70-3	Dibenz(a,h)anthracene	39.70		2.00	0.644
132-64-9	Dibenzofuran	38.11		10.0	0.339
91-94-1	3,3'-Dichlorobenzidine	38.98		10.0	1.52
120-83-2	2,4-Dichlorophenol	40.94		10.0	1.02
84-66-2	Diethyl phthalate	40.43		10.0	1.62
105-67-9	2,4-Dimethylphenol	36.73		10.0	0.996
131-11-3	Dimethyl phthalate	39.86		10.0	1.81
84-74-2	Di-n-butyl phthalate	42.43		10.0	1.50

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39437-2

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-120924/2-A

Matrix: Water | Lab File ID: 1111007.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/11/2013 08:54

Sample wt/vol: 1000(mL) | Date Analyzed: 11/11/2013 17:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121052 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
534-52-1	4,6-Dinitro-2-methylphenol	80.33		25.0	2.07
51-28-5	2,4-Dinitrophenol	74.15		25.0	2.46
121-14-2	2,4-Dinitrotoluene	38.86		10.0	3.33
606-20-2	2,6-Dinitrotoluene	40.06		10.0	1.94
117-84-0	Di-n-octyl phthalate	41.88		10.0	2.31
206-44-0	Fluoranthene	38.40		2.00	0.347
86-73-7	Fluorene	38.92		2.00	0.316
118-74-1	Hexachlorobenzene	40.48		10.0	1.69
87-68-3	Hexachlorobutadiene	31.73		10.0	3.33
77-47-4	Hexachlorocyclopentadiene	35.14		10.0	3.33
67-72-1	Hexachloroethane	27.69		10.0	3.33
193-39-5	Indeno[1,2,3-cd]pyrene	33.02		2.00	0.381
78-59-1	Isophorone	40.56		10.0	1.24
91-57-6	2-Methylnaphthalene	35.49		2.00	0.311
95-48-7	2-Methylphenol	32.34		10.0	3.33
15831-10-4	3 & 4 Methylphenol	29.57		10.0	3.33
91-20-3	Naphthalene	33.79		2.00	0.398
88-74-4	2-Nitroaniline	40.85		25.0	1.04
99-09-2	3-Nitroaniline	36.46		25.0	1.85
100-01-6	4-Nitroaniline	35.67		25.0	2.39
98-95-3	Nitrobenzene	40.22		10.0	1.24
88-75-5	2-Nitrophenol	41.63		10.0	1.57
100-02-7	4-Nitrophenol	29.74		25.0	3.33
621-64-7	N-Nitrosodi-n-propylamine	38.02		10.0	1.42
86-30-6	n-Nitrosodiphenylamine(as diphenylamine)	51.13		10.0	1.44
87-86-5	Pentachlorophenol	78.10		25.0	1.65
85-01-8	Phenanthrene	38.89		2.00	0.343
108-95-2	Phenol	14.67		10.0	3.45
129-00-0	Pyrene	40.52		2.00	0.331
95-95-4	2,4,5-Trichlorophenol	41.83		25.0	2.03
88-06-2	2,4,6-Trichlorophenol	42.44		10.0	1.76

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville | Job No.: 490-39437-2

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 490-120924/2-A

Matrix: Water | Lab File ID: 1111007.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/11/2013 08:54

Sample wt/vol: 1000(mL) | Date Analyzed: 11/11/2013 17:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 121052 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	75		29-120
367-12-4	2-Fluorophenol (Surr)	45		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	78		27-120
4165-62-2	Phenol-d5 (Surr)	27		10-120
1718-51-0	Terphenyl-d14 (Surr)	83		13-120
118-79-6	2,4,6-Tribromophenol (Surr)	83		10-120

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\Nvlchrom\ChromData\hp31\20131111-28238.b\1111007.D
Lims ID: LCS 490-120924/2-A Lab Sample ID: LCS 490-120924/2-A
Client ID:
Sample Type: LCS
Inject. Date: 11-Nov-2013 17:12:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 490-120924/2-A
Misc. Info.: 490-0028238-007
Operator ID: HP-31 Instrument ID: HP31

Method: \\Nvlchrom\ChromData\hp31\20131111-28238.b\8270HP31.m
Limit Group: MSS 8270C ICAL
Last Update: 12-Nov-2013 14:57:25 Calib Date: 04-Nov-2013 11:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Nvlchrom\ChromData\hp31\20131103-27806.b\1104019.D

Column 1 : Detector MS SCAN
Process Host: XAWRK011

First Level Reviewer: spryc Date: 12-Nov-2013 14:57:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.804	3.807	-0.003	95	225864	40.0	
4 1,4-Dioxane	88	1.519	1.520	-0.001	81	63572	23.6	
5 N-Nitrosodimethylamine	74	1.834	1.830	0.004	95	70184	19.4	
6 Pyridine	52	1.862	1.854	0.008	95	69607	15.9	
$ 11 2-Fluorophenol	112	3.005	3.006	-0.001	90	147663	22.3	
21 Benzaldehyde	105	3.532	3.533	-0.001	89	173057	55.8	
17 Aniline	93	3.607	3.608	-0.001	98	315642	29.9	
$ 15 Phenol-d5	99	3.635	3.636	-0.001	0	120718	13.6	
16 Phenol	94	3.644	3.645	-0.001	98	137647	14.7	
18 Bis(2-chloroethyl)ether	93	3.649	3.655	-0.006	98	237800	34.5	
19 2-Chlorophenol	128	3.692	3.692	0.0	95	286068	36.5	
22 1,3-Dichlorobenzene	146	3.767	3.768	-0.001	98	233610	27.2	
23 1,4-Dichlorobenzene	146	3.818	3.819	-0.001	96	238502	27.7	
25 1,2-Dichlorobenzene	146	3.908	3.909	-0.001	97	239490	28.7	
24 Benzyl alcohol	108	3.913	3.913	-0.001	93	161869	31.0	
2 Indene	115	3.964	3.965	-0.001	75	388562	30.1	
27 2,2'-oxybis[1-chloropropane]	121	3.988	3.989	-0.001	94	72458	26.7	
26 2-Methylphenol	108	4.002	4.007	-0.005	97	229188	32.3	
30 Acetophenone	105	4.063	4.064	-0.001	95	374609	37.3	
32 N-Nitrosodi-n-propylamine	70	4.068	4.073	-0.005	91	189669	38.0	
28 3 & 4 Methylphenol	108	4.101	4.101	0.0	0	222767	29.6	
33 Hexachloroethane	117	4.115	4.116	-0.001	97	79933	27.7	
* 37 Naphthalene-d8	136	4.594	4.597	-0.003	99	860283	40.0	
$ 46 Nitrobenzene-d5	82	4.157	4.158	-0.001	85	274175	39.0	
47 Nitrobenzene	77	4.166	4.172	-0.006	84	272343	40.2	
48 Isophorone	82	4.317	4.318	-0.001	96	525754	40.6	
49 2-Nitrophenol	139	4.364	4.370	-0.006	92	179819	41.6	
50 2,4-Dimethylphenol	107	4.416	4.417	-0.001	91	264522	36.7	
52 Bis(2-chloroethoxy)methane	93	4.458	4.459	-0.001	98	294062	37.9	
51 Benzoic acid	105	4.496	4.511	-0.015	83	166465	26.6	
53 2,4-Dichlorophenol	162	4.528	4.534	-0.006	93	266268	40.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
55 1,2,4-Trichlorobenzene	180	4.561	4.562	-0.001	95	217754	32.7	
56 Naphthalene	128	4.608	4.609	-0.001	95	738652	33.8	
57 4-Chloroaniline	127	4.655	4.656	-0.001	85	395562	39.4	
59 Hexachlorobutadiene	225	4.684	4.685	-0.001	93	111680	31.7	
42 Caprolactam	113	4.876	4.882	-0.006	85	32711	9.91	
62 4-Chloro-3-methylphenol	107	4.985	4.990	-0.005	91	272886	39.8	
65 2-Methylnaphthalene	142	5.046	5.047	-0.001	86	579287	35.5	
66 1-Methylnaphthalene	142	5.112	5.112	0.0	81	542267	35.1	
45 1,2,4,5-Tetrachlorobenzene	216	5.163	5.164	-0.001	95	259359	37.4	
43 1,1'-Biphenyl	154	5.380	5.380	0.0	95	730185	37.1	
* 72 Acenaphthene-d10	164	5.822	5.824	-0.002	88	568468	40.0	
76 Hexachlorocyclopentadiene	237	5.154	5.155	-0.001	89	86001	35.1	
77 2,4,6-Trichlorophenol	196	5.257	5.258	-0.001	89	202975	42.4	
78 2,4,5-Trichlorophenol	196	5.295	5.301	-0.006	96	213480	41.8	
$ 79 2-Fluorobiphenyl (Surr)	172	5.304	5.310	-0.006	99	645929	37.4	
83 2-Chloronaphthalene	162	5.389	5.390	-0.001	97	549525	37.6	
84 2-Nitroaniline	65	5.483	5.484	-0.001	91	175091	40.8	
85 Dimethyl phthalate	163	5.624	5.630	-0.006	99	728303	39.9	
81 1,3-Dinitrobenzene	168	5.652	5.658	-0.006	90	137627	37.6	
86 2,6-Dinitrotoluene	165	5.676	5.677	-0.001	69	178304	40.1	
87 Acenaphthylene	152	5.709	5.710	-0.001	94	942518	38.3	
88 3-Nitroaniline	138	5.812	5.818	-0.006	96	210526	36.5	
89 Acenaphthene	153	5.850	5.851	-0.001	93	615000	38.5	
90 2,4-Dinitrophenol	184	5.906	5.907	-0.001	82	238273	74.1	
92 Dibenzofuran	168	6.000	6.001	-0.001	86	866433	38.1	
93 2,4-Dinitrotoluene	165	6.010	6.015	-0.005	85	245231	38.9	
91 4-Nitrophenol	65	6.024	6.025	-0.001	83	103280	29.7	
96 2,3,4,6-Tetrachlorophenol	232	6.127	6.128	-0.001	69	181755	40.6	
97 Diethyl phthalate	149	6.235	6.241	-0.006	98	731768	40.4	
196 Hexadecane	57	6.249	6.250	-0.001	0	327715	40.9	
99 Fluorene	166	6.306	6.307	-0.001	84	742035	38.9	
98 4-Chlorophenyl phenyl ether	204	6.320	6.321	-0.001	91	337838	38.7	
100 4-Nitroaniline	138	6.362	6.368	-0.006	92	212447	35.7	
101 Azobenzene	77	6.470	6.471	-0.001	96	608945	39.9	
* 106 Phenanthrene-d10	188	7.232	7.230	0.002	96	975673	40.0	
116 4,6-Dinitro-2-methylphenol	198	6.386	6.387	-0.001	83	320016	80.3	
117 N-Nitrosodiphenylamine	169	6.438	6.443	-0.005	58	579485	51.1	
$ 119 2,4,6-Tribromophenol	330	6.541	6.547	-0.006	91	120937	41.5	
120 4-Bromophenyl phenyl ether	248	6.790	6.791	-0.001	58	212157	42.9	
121 Hexachlorobenzene	284	6.833	6.833	0.0	93	229744	40.5	
112 Atrazine	200	7.002	7.003	-0.001	92	209965	41.2	
124 Pentachlorophenol	266	7.063	7.064	-0.001	88	269498	78.1	
126 Phenanthrene	178	7.260	7.261	-0.001	97	1009747	38.9	
129 Anthracene	178	7.312	7.313	-0.001	97	1050959	39.8	
131 Carbazole	167	7.514	7.515	-0.001	82	1053744	38.8	
132 Di-n-butyl phthalate	149	7.952	7.957	-0.005	100	1217780	42.4	
135 Fluoranthene	202	8.577	8.578	-0.001	98	1133343	38.4	
* 140 Chrysene-d12	240	10.265	10.258	0.007	80	1097693	40.0	
145 Benzidine	184	8.789	8.790	-0.001	96	89976	9.63	
146 Pyrene	202	8.826	8.832	-0.006	95	1163627	40.5	
$ 147 Terphenyl-d14	244	9.066	9.072	-0.006	83	870767	41.4	
150 Butyl benzyl phthalate	149	9.696	9.697	-0.001	94	579141	41.0	

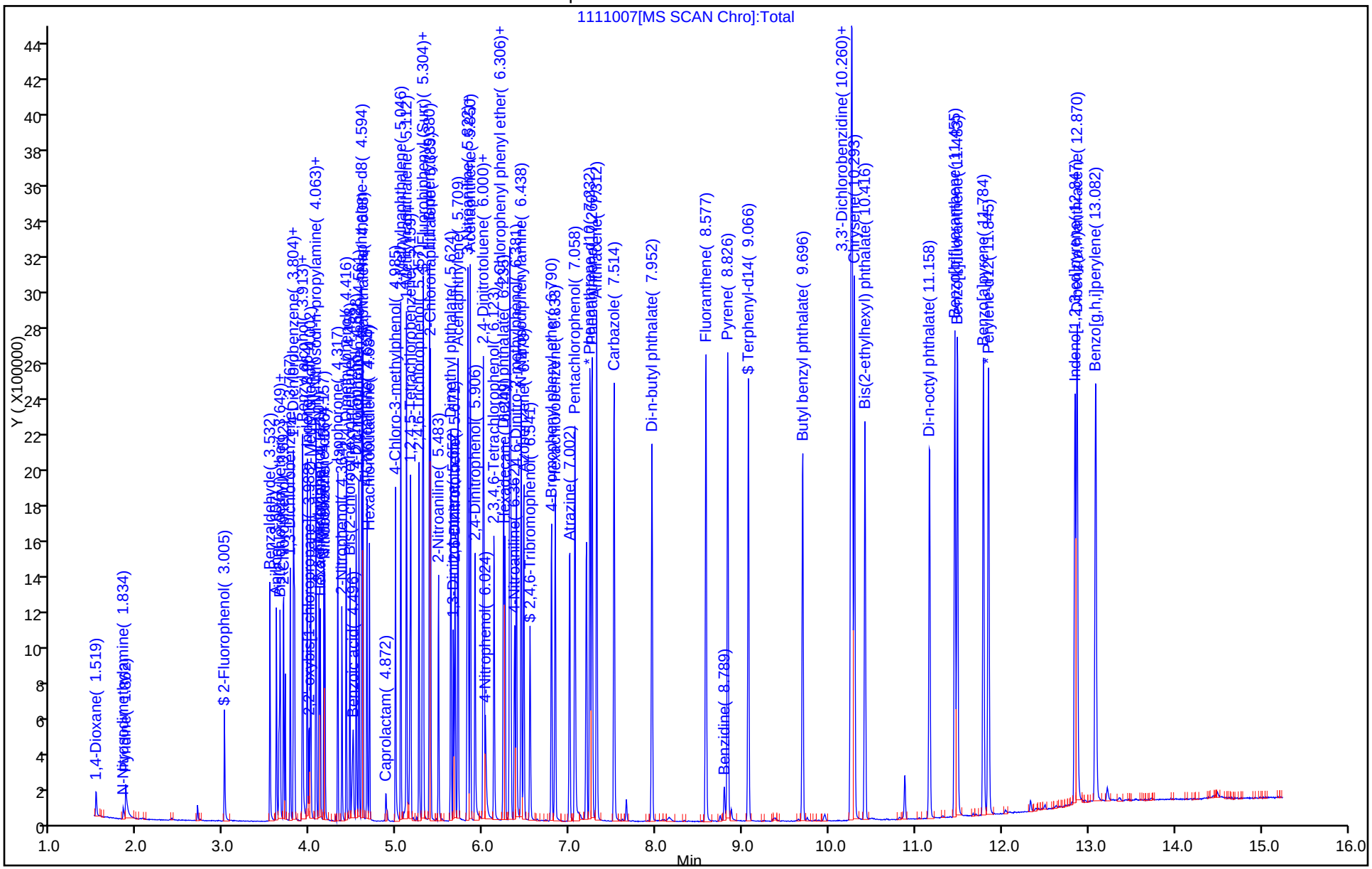
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/ml	Flags
152 Benzo[a]anthracene	228	10.251	10.257	-0.006	99	1112066	39.0	
151 3,3'-Dichlorobenzidine	252	10.270	10.275	-0.005	66	412639	39.0	
153 Chrysene	228	10.293	10.299	-0.006	89	1071367	39.2	
154 Bis(2-ethylhexyl) phthalate	149	10.416	10.421	-0.005	94	795591	42.5	
* 156 Perylene-d12	264	11.845	11.843	0.002	83	1121572	40.0	
158 Di-n-octyl phthalate	149	11.163	11.164	-0.001	99	1356326	41.9	
159 Benzo[b]fluoranthene	252	11.455	11.460	-0.005	92	1159746	38.3	
161 Benzo[k]fluoranthene	252	11.483	11.489	-0.006	95	1202299	38.2	
162 Benzo[a]pyrene	252	11.784	11.789	-0.005	74	1103789	38.4	
164 Indeno[1,2,3-cd]pyrene	276	12.847	12.847	0.0	95	1175064	33.0	
165 Dibenz(a,h)anthracene	278	12.870	12.871	-0.001	80	1189857	39.7	
166 Benzo[g,h,i]perylene	276	13.086	13.092	-0.006	93	1183244	39.5	

Report Date: 12-Nov-2013 14:57:26 Chrom Revision: 2.1 15-Oct-2013 07:52:24

TestAmerica Nashville

Data File: \\Nvlchrom\ChromData\hp31\20131111-28238.b\1111007.D

Injection Date:	11-Nov-2013 17:12:30	Instrument ID:	HP31	Operator ID:	HP-31
Lims ID:	LCS 490-120924/2-A	Lab Sample ID:	LCS 490-120924/2-A	Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8270HP31	Limit Group:	MSS 8270C ICAL		



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Instrument ID: HP31 Start Date: 10/22/2013 16:47

Analysis Batch Number: 116166 End Date: 10/22/2013 20:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 490-116166/2		10/22/2013 16:47	1	1022002.D	ZB-5MSi 0.25(mm)
STD 490-116166/3 IC		10/22/2013 17:06	1	1022003.D	ZB-5MSi 0.25(mm)
STD 490-116166/6 IC		10/22/2013 17:28	1	1022004.D	ZB-5MSi 0.25(mm)
STD 490-116166/7 IC		10/22/2013 17:51	1	1022005.D	ZB-5MSi 0.25(mm)
STD 490-116166/8 IC		10/22/2013 18:14	1	1022006.D	ZB-5MSi 0.25(mm)
ICIS 490-116166/9		10/22/2013 18:37	1	1022007.D	ZB-5MSi 0.25(mm)
STD 490-116166/10 IC		10/22/2013 19:00	1	1022008.D	ZB-5MSi 0.25(mm)
STD 490-116166/11 IC		10/22/2013 19:23	1	1022009.D	ZB-5MSi 0.25(mm)
ICV 490-116166/12		10/22/2013 19:45	1	1022010.D	ZB-5MSi 0.25(mm)
ICB 490-116166/13		10/22/2013 20:08	1		ZB-5MSi 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Instrument ID: HP31 Start Date: 11/11/2013 15:21

Analysis Batch Number: 121052 End Date: 11/12/2013 00:32

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 490-121052/2		11/11/2013 15:21	1	1111002.D	ZB-5MSi 0.25(mm)
CCVIS 490-121052/3		11/11/2013 15:40	1	1111003.D	ZB-5MSi 0.25(mm)
CCV 490-121052/4		11/11/2013 16:03	1	1111004.D	ZB-5MSi 0.25(mm)
CCV 490-121052/5		11/11/2013 16:26	1	1111005.D	ZB-5MSi 0.25(mm)
MB 490-120924/1-A		11/11/2013 16:49	1	1111006.D	ZB-5MSi 0.25(mm)
LCS 490-120924/2-A		11/11/2013 17:12	1	1111007.D	ZB-5MSi 0.25(mm)
ZZZZZ		11/11/2013 17:36	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/11/2013 17:59	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/11/2013 18:22	1		ZB-5MSi 0.25(mm)
490-39437-1	MW-06-GW-001	11/11/2013 18:45	1	1111009.D	ZB-5MSi 0.25(mm)
490-39437-3	MW-07-GW-001	11/11/2013 19:09	1	1111010.D	ZB-5MSi 0.25(mm)
ZZZZZ		11/11/2013 21:04	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/11/2013 21:27	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/11/2013 21:50	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/11/2013 22:13	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/11/2013 22:36	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/11/2013 22:59	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/11/2013 23:22	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/11/2013 23:45	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/12/2013 00:08	1		ZB-5MSi 0.25(mm)
ZZZZZ		11/12/2013 00:32	1		ZB-5MSi 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Nashville Job No.: 490-39437-2

SDG No.:

Batch Number: 120924 Batch Start Date: 11/11/13 08:54 Batch Analyst: Hoag, Ryan

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	InitialAmount	FinalAmount	FirstAdjustpH	SecondAdjustpH	BNA ICV_MIX1 00009
MB 490-120924/1		3510C, 8270C		7	1000 mL	1 mL	2	14	
LCS 490-120924/2		3510C, 8270C		7	1000 mL	1 mL	2	14	0.5 mL
490-39437-V-1	MW-06-GW-001	3510C, 8270C	T	7	1070 mL	1 mL	2	14	
490-39437-V-3	MW-07-GW-001	3510C, 8270C	T	7	1070 mL	1 mL	2	14	

Lab Sample ID	Client Sample ID	Method Chain	Basis	OP_1:1 Sulfur 00003	OP_BNA_Surr 00011	OP_MeCl2 00019	OP_NaOH 00006	OP_NaSO4 00015	
MB 490-120924/1		3510C, 8270C		3 mL	1 mL	360 mL	15 mL	25 g	
LCS 490-120924/2		3510C, 8270C		3 mL	1 mL	360 mL	15 mL	25 g	
490-39437-V-1	MW-06-GW-001	3510C, 8270C	T	3 mL	1 mL	360 mL	15 mL	25 g	
490-39437-V-3	MW-07-GW-001	3510C, 8270C	T	3 mL	1 mL	360 mL	15 mL	25 g	

Batch Notes	
Person's name who did the concentration	JS
Person's name who did the prep	JS
Person's name who witnessed reagent drop	RCH

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

490-39437 Chain of Custody

COOLER RECEIPT FORM

Cooler Received/Opened On : 11/5/2013 @ 0820

Tracking # 1710 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun : 97460373

1. Temperature of rep. sample or temp blank when opened: 0.6 *Degrees Celsius*
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA
4. Were custody seals on outside of cooler? YES...NO...NA
   If yes, how many and where: 2 Front
5. Were the seals intact, signed, and dated correctly? YES...NO...NA
6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES NO NA
   Were these signed and dated correctly? YES...NO...NA
8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)? YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA
12. Did all container labels and tags agree with custody papers? YES...NO...NA
13a. Were VOA vials received? YES...NO...NA
   b. Was there any observable headspace present in any VOA vial? YES...NO...NA
14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA
   b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA
16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA
18. Did you sign the custody papers in the appropriate place? YES...NO...NA
19. Were correct containers used for the analysis requested? YES...NO...NA
20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: John Knightly	Lab PM: Connor, Roxanne	Carrier Tracking No(s): 5712 0302 1710	COC No: 490-16687-6964.1
Client Contact: Mariruth Gruis	Phone: 913-522-0370	E-Mail: roxanne.connor@testamericainc.com		Page: Page 1 of 7
Company: Haley & Aldrich, Inc.				Job #:
Address: 11020 King Street Suite 450	Due Date Requested:			
City: Overland Park	TAT Requested (days): Normal			
State, Zip: KS, 66210				
Phone: 913-636-3497(Tel)	PO #: Purchase Order Requested			
Email: mgruis@haleyaldrich.com	WO #:			
Project Name: Leeds Facility	Project #: 49003847			
Site:	SSOW#:			

Analysis Requested

Loc: 490
39437

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B TCL	8270C TCL Semivolatiles List	Cr+6, SO4, Cl, NO3, NO2, CO2	6020A TCL metals + 7470A Hg	RSK_175 - Methane, Ethane, Ethylene	9060A TOC and DOC	9034 - Sulfide	9012B - Cyanide, Total	8016C_DAI_GLY - Ethylene Glyco	8082A - Standard PCBs (1016-1260)	1010A Flashpoint and 9040C pH	6020A Diss Mn (lab filtered)	6020A Fe & Mn	Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
MW-06-GW-001	11/4/13	1325	G	Water			X	X	X	X	X	X	X	X	X	X		X	X		01
MW-06-GW-001	11/4/13	1557	G	Water					X												Cr+6 2
MW-07-GW-001	11/4/13	1528	G	Water			X	X	X	X	X	X	X	X	X	X		X	X		Cr+6 3
				Water																	
Trip Blank	—	—	—	Water			X														4
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: John Knightly	Date/Time: 11/4/13, 1900	Company H+A	Received by: HAN 0.6	Date/Time: 11/05/13 0820	Company TA Nashville
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 490-39437-2

Login Number: 39437

List Source: TestAmerica Nashville

List Number: 1

Creator: Gambill, Shane

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-39437-1
Client Project/Site: Former Leeds Assembly Plant

For:
Haley & Aldrich, Inc.
11020 King Street
Suite 450
Overland Park, Kansas 66210

Attn: Mariruth Gruis

Roxanne L Connor

Authorized for release by:
11/19/2013 11:36:40 AM

Roxanne Connor, Senior Project Manager
(615)301-5761
roxanne.connor@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39437-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-39437-1	MW-06-GW-001	Water	11/04/13 13:25	11/05/13 08:20
490-39437-2	MW-06-GW-001	Water	11/04/13 15:57	11/05/13 08:20
490-39437-3	MW-07-GW-001	Water	11/04/13 15:28	11/05/13 08:20

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39437-1

Job ID: 490-39437-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-39437-1

Comments
No additional comments.

Receipt
The samples were received on 11/5/2013 8:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.6° C.

HPLC
No analytical or quality issues were noted.

GC Semi VOA
Method(s) 8015C: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) sample(s): (490-39641-1 MS), (490-39641-1 MSD). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

Method(s) 8082A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 119806.

No other analytical or quality issues were noted.

Metals
Method(s) 6020A: The method blank for batch 490-121808 contained Chromium and Vanadium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 200.8, 6020, 6020A: The following sample(s) was diluted to bring the concentration of Manganese within the calibration range: MW-06-GW-001 (490-39437-1), MW-07-GW-001 (490-39437-3). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

General Chemistry
Method(s) 335.4, 9012B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 122761 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 9034: The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 122031 was outside control limits.

No other analytical or quality issues were noted.

Organic Prep
Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 119806.

No other analytical or quality issues were noted.

Qualifiers

GC VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS/MSD Recovery and/or RPD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39437-1

Client Sample ID: MW-06-GW-001
Date Collected: 11/04/13 13:25
Date Received: 11/05/13 08:20

Lab Sample ID: 490-39437-1
Matrix: Water

Method: 8015C - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND		10.0	0.500	mg/L			11/14/13 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-butyl alcohol (Surr)	*74*		*70 - 130*		*11/14/13 16:21*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		0.00500	0.00250	mg/L			11/13/13 11:56	1
Ethylene	ND		0.00500	0.00250	mg/L			11/13/13 11:56	1
Methane	**0.412**		0.00500	0.00250	mg/L			11/13/13 11:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetylene (Surr)	*84*		*62 - 124*		*11/13/13 11:56*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.403	0.347	ug/L		11/06/13 11:39	11/07/13 17:39	1
PCB-1221	ND		0.403	0.274	ug/L		11/06/13 11:39	11/07/13 17:39	1
PCB-1232	ND		0.403	0.323	ug/L		11/06/13 11:39	11/07/13 17:39	1
PCB-1242	ND		0.403	0.177	ug/L		11/06/13 11:39	11/07/13 17:39	1
PCB-1248	ND		0.403	0.121	ug/L		11/06/13 11:39	11/07/13 17:39	1
PCB-1254	ND		0.403	0.137	ug/L		11/06/13 11:39	11/07/13 17:39	1
PCB-1260	ND		0.403	0.145	ug/L		11/06/13 11:39	11/07/13 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*10 - 150*	*11/06/13 11:39*	*11/07/13 17:39*	*1*
Tetrachloro-m-xylene	*73*	*p*	*10 - 150*	*11/06/13 11:39*	*11/07/13 17:39*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**42.4**		1.00	0.700	mg/L			11/06/13 05:45	1
Nitrite as N	ND		0.100	0.0500	mg/L			11/06/13 05:45	1
Nitrate as N	ND		0.100	0.0600	mg/L			11/06/13 05:45	1
Sulfate	**31.2**		1.00	0.600	mg/L			11/12/13 12:21	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200	0.000500	mg/L		11/14/13 07:44	11/14/13 17:47	1
Arsenic	**0.0169**		0.00200	0.000500	mg/L		11/14/13 07:44	11/14/13 17:47	1
Barium	**0.167**		0.00200	0.000500	mg/L		11/14/13 07:44	11/14/13 17:47	1
Beryllium	ND		0.00200	0.000500	mg/L		11/14/13 07:44	11/19/13 04:31	1
Cadmium	ND		0.00100	0.000400	mg/L		11/14/13 07:44	11/14/13 17:47	1
Chromium	**0.000727**	**J B**	0.00200	0.000500	mg/L		11/14/13 07:44	11/19/13 04:31	1
Cobalt	**0.00408**		0.00200	0.000500	mg/L		11/14/13 07:44	11/14/13 17:47	1
Copper	**0.000934**	**J**	0.00200	0.000500	mg/L		11/14/13 07:44	11/14/13 17:47	1
Iron	**2.21**		0.0250	0.0100	mg/L		11/14/13 07:44	11/14/13 17:47	1
Lead	**0.000265**	**J**	0.00200	0.000200	mg/L		11/14/13 07:44	11/14/13 17:47	1
Manganese	**9.69**		0.0200	0.0100	mg/L		11/14/13 07:44	11/19/13 04:55	10
Nickel	**0.00461**		0.00200	0.000500	mg/L		11/14/13 07:44	11/14/13 17:47	1
Selenium	ND		0.00200	0.000600	mg/L		11/14/13 07:44	11/14/13 17:47	1
Silver	ND		0.00200	0.000500	mg/L		11/14/13 07:44	11/14/13 17:47	1

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39437-1

Client Sample ID: MW-06-GW-001
Date Collected: 11/04/13 13:25
Date Received: 11/05/13 08:20

Lab Sample ID: 490-39437-1
Matrix: Water

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.00200	0.000200	mg/L		11/14/13 07:44	11/14/13 17:47	1
Vanadium	**0.00201**	**B**	0.00200	0.000100	mg/L		11/14/13 07:44	11/19/13 04:31	1
Zinc	ND		0.0250	0.0100	mg/L		11/14/13 07:44	11/14/13 17:47	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**10.6**		0.0400	0.0200	mg/L		11/14/13 09:42	11/19/13 05:05	20

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	0.000150	mg/L		11/15/13 13:47	11/18/13 12:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.00588**	**J**	0.0100	0.00300	mg/L		11/15/13 14:07	11/18/13 01:29	1
Sulfide	ND		5.00	0.700	mg/L		11/09/13 12:05	11/09/13 16:07	1
Total Organic Carbon	**1.69**		1.00	0.500	mg/L			11/13/13 09:48	1
Carbon Dioxide, Free	**46.8**	**HF**	20.0	10.0	mg/L			11/05/13 16:32	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	**2.25**		1.00	0.500	mg/L			11/15/13 16:31	1

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39437-1

Client Sample ID: MW-06-GW-001
Date Collected: 11/04/13 15:57
Date Received: 11/05/13 08:20

Lab Sample ID: 490-39437-2
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	0.0130		0.0100	0.00500	mg/L			11/05/13 11:50	1

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39437-1

Client Sample ID: MW-07-GW-001
Date Collected: 11/04/13 15:28
Date Received: 11/05/13 08:20

Lab Sample ID: 490-39437-3
Matrix: Water

Method: 8015C - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND		10.0	0.500	mg/L			11/14/13 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-butyl alcohol (Surr)	*95*		*70 - 130*		*11/14/13 16:40*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		0.00500	0.00250	mg/L			11/13/13 11:58	1
Ethylene	ND		0.00500	0.00250	mg/L			11/13/13 11:58	1
Methane	**0.806**		0.0100	0.00500	mg/L			11/13/13 12:00	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetylene (Surr)	*88*		*62 - 124*		*11/13/13 11:58*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.403	0.347	ug/L		11/06/13 11:56	11/07/13 17:51	1
PCB-1221	ND		0.403	0.274	ug/L		11/06/13 11:56	11/07/13 17:51	1
PCB-1232	ND		0.403	0.323	ug/L		11/06/13 11:56	11/07/13 17:51	1
PCB-1242	ND		0.403	0.177	ug/L		11/06/13 11:56	11/07/13 17:51	1
PCB-1248	ND		0.403	0.121	ug/L		11/06/13 11:56	11/07/13 17:51	1
PCB-1254	ND		0.403	0.137	ug/L		11/06/13 11:56	11/07/13 17:51	1
PCB-1260	ND		0.403	0.145	ug/L		11/06/13 11:56	11/07/13 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*63*		*10 - 150*	*11/06/13 11:56*	*11/07/13 17:51*	*1*
Tetrachloro-m-xylene	*71*	*p*	*10 - 150*	*11/06/13 11:56*	*11/07/13 17:51*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**124**		5.00	3.50	mg/L			11/12/13 13:21	5
Nitrite as N	ND		0.100	0.0500	mg/L			11/06/13 07:05	1
Nitrate as N	ND		0.100	0.0600	mg/L			11/06/13 07:05	1
Sulfate	**15.2**		1.00	0.600	mg/L			11/12/13 13:01	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200	0.000500	mg/L		11/14/13 07:44	11/14/13 17:52	1
Arsenic	**0.00917**		0.00200	0.000500	mg/L		11/14/13 07:44	11/14/13 17:52	1
Barium	**0.236**		0.00200	0.000500	mg/L		11/14/13 07:44	11/14/13 17:52	1
Beryllium	ND		0.00200	0.000500	mg/L		11/14/13 07:44	11/19/13 04:36	1
Cadmium	ND		0.00100	0.000400	mg/L		11/14/13 07:44	11/14/13 17:52	1
Chromium	**0.00131**	**J B**	0.00200	0.000500	mg/L		11/14/13 07:44	11/19/13 04:36	1
Cobalt	**0.00480**		0.00200	0.000500	mg/L		11/14/13 07:44	11/14/13 17:52	1
Copper	ND		0.00200	0.000500	mg/L		11/14/13 07:44	11/14/13 17:52	1
Iron	**3.52**		0.0250	0.0100	mg/L		11/14/13 07:44	11/14/13 17:52	1
Lead	ND		0.00200	0.000200	mg/L		11/14/13 07:44	11/14/13 17:52	1
Manganese	**12.6**		0.0400	0.0200	mg/L		11/14/13 07:44	11/19/13 05:00	20
Nickel	**0.0104**		0.00200	0.000500	mg/L		11/14/13 07:44	11/14/13 17:52	1
Selenium	ND		0.00200	0.000600	mg/L		11/14/13 07:44	11/14/13 17:52	1
Silver	ND		0.00200	0.000500	mg/L		11/14/13 07:44	11/14/13 17:52	1

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39437-1

Client Sample ID: MW-07-GW-001
Date Collected: 11/04/13 15:28
Date Received: 11/05/13 08:20

Lab Sample ID: 490-39437-3
Matrix: Water

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.00200	0.000200	mg/L		11/14/13 07:44	11/14/13 17:52	1
Vanadium	**0.00103**	**J B**	0.00200	0.000100	mg/L		11/14/13 07:44	11/19/13 04:36	1
Zinc	ND		0.0250	0.0100	mg/L		11/14/13 07:44	11/14/13 17:52	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**13.0**		0.0400	0.0200	mg/L		11/14/13 09:42	11/19/13 05:10	20

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	0.000150	mg/L		11/15/13 13:47	11/18/13 12:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hex	ND		0.0100	0.00500	mg/L			11/05/13 11:50	1
Cyanide, Total	ND		0.0100	0.00300	mg/L		11/15/13 14:07	11/18/13 01:31	1
Sulfide	ND		5.00	0.700	mg/L		11/09/13 12:05	11/09/13 16:07	1
Total Organic Carbon	**3.60**		1.00	0.500	mg/L			11/13/13 09:48	1
Carbon Dioxide, Free	**81.8**	**HF**	20.0	10.0	mg/L			11/05/13 16:41	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	**4.36**		1.00	0.500	mg/L			11/15/13 16:31	1

Method: 8015C - Glycols- Direct Injection (GC/FID)

Lab Sample ID: MB 490-121932/3
Matrix: Water
Analysis Batch: 121932

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene glycol	ND		10.0	0.500	mg/L			11/14/13 13:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-butyl alcohol (Surr)	*82*		*70 - 130*		*11/14/13 13:25*	*1*

Lab Sample ID: LCS 490-121932/4
Matrix: Water
Analysis Batch: 121932

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylene glycol			50.0	53.79		mg/L		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-butyl alcohol (Surr)	*94*		*70 - 130*

Lab Sample ID: 490-39641-E-1 MS
Matrix: Water
Analysis Batch: 121932

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylene glycol	ND		50.0	49.90		mg/L		100	41 - 139		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-butyl alcohol (Surr)	*441*	*X*	*70 - 130*

Lab Sample ID: 490-39641-E-1 MSD
Matrix: Water
Analysis Batch: 121932

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene glycol	ND		50.0	50.96		mg/L		102	41 - 139	2	36

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-butyl alcohol (Surr)	*140*	*X*	*70 - 130*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 490-121529/6
Matrix: Water
Analysis Batch: 121529

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		0.00500	0.00250	mg/L			11/13/13 11:00	1
Ethylene	ND		0.00500	0.00250	mg/L			11/13/13 11:00	1
Methane	ND		0.00500	0.00250	mg/L			11/13/13 11:00	1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: MB 490-121529/6
Matrix: Water
Analysis Batch: 121529

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetylene (Surr)	96		62 - 124		11/13/13 11:00	1

Lab Sample ID: LCS 490-121529/7
Matrix: Water
Analysis Batch: 121529

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	0.513	0.4936		mg/L		96	80 - 120
Ethylene	0.479	0.4333		mg/L		90	80 - 120
Methane	0.273	0.2913		mg/L		107	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Acetylene (Surr)	94		62 - 124

Lab Sample ID: LCSD 490-121529/8
Matrix: Water
Analysis Batch: 121529

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	0.513	0.5005		mg/L		98	80 - 120	1	30
Ethylene	0.479	0.4449		mg/L		93	80 - 120	3	29
Methane	0.273	0.2987		mg/L		109	80 - 120	2	33

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Acetylene (Surr)	93		62 - 124

Lab Sample ID: 490-39407-E-6 MS
Matrix: Water
Analysis Batch: 121529

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	ND		0.513	0.4919		mg/L		96	71 - 120
Ethylene	ND		0.479	0.4038		mg/L		84	71 - 120
Methane	ND		0.273	0.2738		mg/L		100	46 - 142

Surrogate	MS %Recovery	MS Qualifier	Limits
Acetylene (Surr)	89		62 - 124

Lab Sample ID: 490-39407-E-6 MSD
Matrix: Water
Analysis Batch: 121529

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	ND		0.513	0.4803		mg/L		94	71 - 120	2	30
Ethylene	ND		0.479	0.4074		mg/L		85	71 - 120	1	30
Methane	ND		0.273	0.2728		mg/L		100	46 - 142	0	30

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: 490-39407-E-6 MSD
Matrix: Water
Analysis Batch: 121529

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Acetylene (Surr)	86		62 - 124

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 490-119806/1-A
Matrix: Water
Analysis Batch: 120144

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 119806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.500	0.430	ug/L		11/06/13 11:39	11/07/13 14:42	1
PCB-1221	ND		0.500	0.340	ug/L		11/06/13 11:39	11/07/13 14:42	1
PCB-1232	ND		0.500	0.400	ug/L		11/06/13 11:39	11/07/13 14:42	1
PCB-1242	ND		0.500	0.220	ug/L		11/06/13 11:39	11/07/13 14:42	1
PCB-1248	ND		0.500	0.150	ug/L		11/06/13 11:39	11/07/13 14:42	1
PCB-1254	ND		0.500	0.170	ug/L		11/06/13 11:39	11/07/13 14:42	1
PCB-1260	ND		0.500	0.180	ug/L		11/06/13 11:39	11/07/13 14:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	90		10 - 150	11/06/13 11:39	11/07/13 14:42	1
Tetrachloro-m-xylene	65		10 - 150	11/06/13 11:39	11/07/13 14:42	1

Lab Sample ID: LCS 490-119806/2-A
Matrix: Water
Analysis Batch: 120144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 119806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	8.00	7.434		ug/L		93	23 - 139
PCB-1260	8.00	7.553		ug/L		94	36 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	87		10 - 150
Tetrachloro-m-xylene	74		10 - 150

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 490-119597/3
Matrix: Water
Analysis Batch: 119597

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.00	0.700	mg/L			11/06/13 04:45	1
Sulfate	ND		1.00	0.600	mg/L			11/06/13 04:45	1

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 490-119597/4
Matrix: Water
Analysis Batch: 119597

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	51.22		mg/L		102	80 - 120
Sulfate	50.0	57.45		mg/L		115	80 - 120

Lab Sample ID: LCSD 490-119597/5
Matrix: Water
Analysis Batch: 119597

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	50.0	51.26		mg/L		103	80 - 120	0	20
Sulfate	50.0	57.19		mg/L		114	80 - 120	0	20

Lab Sample ID: 490-39437-1 MS
Matrix: Water
Analysis Batch: 119597

Client Sample ID: MW-06-GW-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	42.4		50.0	86.88		mg/L		89	80 - 120

Lab Sample ID: 490-39437-1 MSD
Matrix: Water
Analysis Batch: 119597

Client Sample ID: MW-06-GW-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	42.4		50.0	88.57		mg/L		92	80 - 120	2	20

Lab Sample ID: MB 490-119598/3
Matrix: Water
Analysis Batch: 119598

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.100	0.0500	mg/L			11/06/13 04:45	1
Nitrate as N	ND		0.100	0.0600	mg/L			11/06/13 04:45	1

Lab Sample ID: LCS 490-119598/4
Matrix: Water
Analysis Batch: 119598

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	5.00	5.071		mg/L		101	80 - 120
Nitrate as N	5.00	5.403		mg/L		108	80 - 120

Lab Sample ID: LCSD 490-119598/5
Matrix: Water
Analysis Batch: 119598

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	5.00	5.073		mg/L		101	80 - 120	0	20
Nitrate as N	5.00	5.380		mg/L		108	80 - 120	0	20

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: 490-39437-1 MS
Matrix: Water
Analysis Batch: 119598

Client Sample ID: MW-06-GW-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	ND		5.00	4.785		mg/L		96	80 - 120
Nitrate as N	ND		5.00	4.987		mg/L		100	80 - 120

Lab Sample ID: 490-39437-1 MSD
Matrix: Water
Analysis Batch: 119598

Client Sample ID: MW-06-GW-001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	ND		5.00	4.977		mg/L		100	80 - 120	4	20
Nitrate as N	ND		5.00	5.197		mg/L		104	80 - 120	4	20

Lab Sample ID: MB 490-121231/5
Matrix: Water
Analysis Batch: 121231

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.00	0.700	mg/L			11/12/13 09:43	1
Sulfate	ND		1.00	0.600	mg/L			11/12/13 09:43	1

Lab Sample ID: LCS 490-121231/6
Matrix: Water
Analysis Batch: 121231

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.56		mg/L		99	80 - 120
Sulfate	50.0	50.54		mg/L		101	80 - 120

Lab Sample ID: LCSD 490-121231/7
Matrix: Water
Analysis Batch: 121231

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	50.0	49.63		mg/L		99	80 - 120	0	20
Sulfate	50.0	50.62		mg/L		101	80 - 120	0	20

Lab Sample ID: 490-39566-P-1 MS
Matrix: Water
Analysis Batch: 121231

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3590		50.0	3355	E 4	mg/L		-474	80 - 120
Sulfate	1140		50.0	1077	E 4	mg/L		-128	80 - 120

Lab Sample ID: 490-39566-P-1 MSD
Matrix: Water
Analysis Batch: 121231

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3590		50.0	3384	E 4	mg/L		-416	80 - 120	1	20

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: 490-39566-P-1 MSD
Matrix: Water
Analysis Batch: 121231

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	1140		50.0	1085	E 4	mg/L		-113	80 - 120	1	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 490-121808/1-A
Matrix: Water
Analysis Batch: 122697

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 121808

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200	0.000500	mg/L		11/14/13 07:44	11/14/13 17:14	1
Arsenic	ND		0.00200	0.000500	mg/L		11/14/13 07:44	11/14/13 17:14	1
Barium	ND		0.00200	0.000500	mg/L		11/14/13 07:44	11/14/13 17:14	1
Beryllium	ND		0.00200	0.000500	mg/L		11/14/13 07:44	11/14/13 17:14	1
Cadmium	ND		0.00100	0.000400	mg/L		11/14/13 07:44	11/14/13 17:14	1
Chromium	0.001173	J	0.00200	0.000500	mg/L		11/14/13 07:44	11/14/13 17:14	1
Cobalt	ND		0.00200	0.000500	mg/L		11/14/13 07:44	11/14/13 17:14	1
Copper	ND		0.00200	0.000500	mg/L		11/14/13 07:44	11/14/13 17:14	1
Iron	ND		0.0250	0.0100	mg/L		11/14/13 07:44	11/14/13 17:14	1
Lead	ND		0.00200	0.000200	mg/L		11/14/13 07:44	11/14/13 17:14	1
Manganese	ND		0.00200	0.00100	mg/L		11/14/13 07:44	11/14/13 17:14	1
Nickel	ND		0.00200	0.000500	mg/L		11/14/13 07:44	11/14/13 17:14	1
Selenium	ND		0.00200	0.000600	mg/L		11/14/13 07:44	11/14/13 17:14	1
Silver	ND		0.00200	0.000500	mg/L		11/14/13 07:44	11/14/13 17:14	1
Thallium	ND		0.00200	0.000200	mg/L		11/14/13 07:44	11/14/13 17:14	1
Vanadium	0.001153	J	0.00200	0.000100	mg/L		11/14/13 07:44	11/14/13 17:14	1
Zinc	ND		0.0250	0.0100	mg/L		11/14/13 07:44	11/14/13 17:14	1

Lab Sample ID: LCS 490-121808/2-A
Matrix: Water
Analysis Batch: 122697

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 121808

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.100	0.1165		mg/L		117	80 - 120
Arsenic	0.100	0.1063		mg/L		106	80 - 120
Barium	0.100	0.09794		mg/L		98	80 - 120
Beryllium	0.100	0.1028		mg/L		103	80 - 120
Cadmium	0.100	0.1052		mg/L		105	80 - 120
Chromium	0.100	0.1129		mg/L		113	80 - 120
Cobalt	0.100	0.1016		mg/L		102	80 - 120
Copper	0.100	0.1012		mg/L		101	80 - 120
Iron	1.00	1.019		mg/L		102	80 - 120
Lead	0.100	0.1079		mg/L		108	80 - 120
Manganese	0.100	0.09774		mg/L		98	80 - 120
Nickel	0.100	0.1000		mg/L		100	80 - 120
Selenium	0.100	0.1050		mg/L		105	80 - 120
Silver	0.100	0.1087		mg/L		109	80 - 120
Thallium	0.100	0.1023		mg/L		102	80 - 120
Vanadium	0.100	0.1145		mg/L		115	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 490-121808/2-A
Matrix: Water
Analysis Batch: 122697

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 121808

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Zinc			0.100	0.1006		mg/L		101	80 - 120		

Lab Sample ID: 490-39259-H-4-C MS
Matrix: Water
Analysis Batch: 122697

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 121808

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Antimony	ND		0.100	0.1123		mg/L		112	75 - 125		
Arsenic	0.0203		0.100	0.1241		mg/L		104	75 - 125		
Barium	0.0185		0.100	0.1157		mg/L		97	75 - 125		
Beryllium	ND		0.100	0.09713		mg/L		97	75 - 125		
Cadmium	ND		0.100	0.1075		mg/L		108	75 - 125		
Chromium	0.00352	B	0.100	0.1108		mg/L		107	75 - 125		
Cobalt	0.00109	J	0.100	0.09719		mg/L		96	75 - 125		
Copper	0.00279		0.100	0.09706		mg/L		94	75 - 125		
Iron	2.79		1.00	3.532		mg/L		75	75 - 125		
Lead	0.00244		0.100	0.1112		mg/L		109	75 - 125		
Manganese	0.999		0.100	1.065	E 4	mg/L		66	75 - 125		
Nickel	0.00429		0.100	0.09696		mg/L		93	75 - 125		
Selenium	ND		0.100	0.09909		mg/L		99	75 - 125		
Silver	ND		0.100	0.1070		mg/L		107	75 - 125		
Thallium	0.000442	J	0.100	0.1041		mg/L		104	75 - 125		
Vanadium	0.00400	B	0.100	0.1150		mg/L		111	75 - 125		
Zinc	0.0173	J	0.100	0.1116		mg/L		94	75 - 125		

Lab Sample ID: 490-39259-H-4-D MSD
Matrix: Water
Analysis Batch: 122697

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 121808

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		0.100	0.1106		mg/L		111	75 - 125	2	20
Arsenic	0.0203		0.100	0.1216		mg/L		101	75 - 125	2	20
Barium	0.0185		0.100	0.1142		mg/L		96	75 - 125	1	20
Beryllium	ND		0.100	0.09851		mg/L		99	75 - 125	1	20
Cadmium	ND		0.100	0.1043		mg/L		104	75 - 125	3	20
Chromium	0.00352	B	0.100	0.1115		mg/L		108	75 - 125	1	20
Cobalt	0.00109	J	0.100	0.09472		mg/L		94	75 - 125	3	20
Copper	0.00279		0.100	0.09519		mg/L		92	75 - 125	2	20
Iron	2.79		1.00	3.543		mg/L		76	75 - 125	0	20
Lead	0.00244		0.100	0.1095		mg/L		107	75 - 125	2	20
Manganese	0.999		0.100	1.061	E 4	mg/L		62	75 - 125	0	20
Nickel	0.00429		0.100	0.09608		mg/L		92	75 - 125	1	20
Selenium	ND		0.100	0.09838		mg/L		98	75 - 125	1	20
Silver	ND		0.100	0.1048		mg/L		105	75 - 125	2	20
Thallium	0.000442	J	0.100	0.1030		mg/L		103	75 - 125	1	20
Vanadium	0.00400	B	0.100	0.1143		mg/L		110	75 - 125	1	20
Zinc	0.0173	J	0.100	0.1070		mg/L		90	75 - 125	4	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 490-121850/1-B — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 122697 — **Prep Batch: 121853**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		0.00200	0.00100	mg/L		11/14/13 09:42	11/14/13 19:18	1

Lab Sample ID: LCS 490-121850/2-B — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 122697 — **Prep Batch: 121853**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	0.100	0.1004		mg/L		100	80 - 120

Lab Sample ID: LCSD 490-121850/3-B — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 122697 — **Prep Batch: 121853**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	0.100	0.09848		mg/L		98	80 - 120	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 490-122335/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 122803 — **Prep Batch: 122335**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	0.000150	mg/L		11/15/13 13:47	11/18/13 12:29	1

Lab Sample ID: LCS 490-122335/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 122803 — **Prep Batch: 122335**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00100	0.001181		mg/L		118	80 - 120

Lab Sample ID: 490-39437-1 MS — **Client Sample ID: MW-06-GW-001**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 122803 — **Prep Batch: 122335**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00100	0.0009344		mg/L		93	75 - 125

Lab Sample ID: 490-39437-1 MSD — **Client Sample ID: MW-06-GW-001**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 122803 — **Prep Batch: 122335**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00100	0.0009611		mg/L		96	75 - 125	3	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 490-122385/1-A
Matrix: Water
Analysis Batch: 122761

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 122385

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.0100	0.00300	mg/L		11/15/13 14:07	11/18/13 01:25	1

Lab Sample ID: LCS 490-122385/3-A
Matrix: Water
Analysis Batch: 122761

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 122385

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.09100		mg/L		91	90 - 110

Lab Sample ID: 490-39437-1 MS
Matrix: Water
Analysis Batch: 122761

Client Sample ID: MW-06-GW-001
Prep Type: Total/NA
Prep Batch: 122385

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.00588	J	0.100	0.04100	F	mg/L		35	70 - 130

Lab Sample ID: 490-39437-1 MSD
Matrix: Water
Analysis Batch: 122761

Client Sample ID: MW-06-GW-001
Prep Type: Total/NA
Prep Batch: 122385

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.00588	J	0.100	0.02600	F	mg/L		20	70 - 130	45	46

Lab Sample ID: 490-40026-A-1-B DU
Matrix: Water
Analysis Batch: 122761

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 122385

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cyanide, Total	ND		ND		mg/L		NC	20

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 490-120787/1-A
Matrix: Water
Analysis Batch: 122031

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 120787

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		5.00	0.700	mg/L		11/09/13 12:05	11/09/13 16:07	1

Lab Sample ID: LCS 490-120787/2-A
Matrix: Water
Analysis Batch: 122031

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 120787

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	20.0	17.30		mg/L		86	80 - 120

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: 490-39437-1 MS — **Client Sample ID: MW-06-GW-001**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 122031 — **Prep Batch: 120787**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	ND		20.0	17.86		mg/L		89	70 - 130

Lab Sample ID: 490-39437-1 MSD — **Client Sample ID: MW-06-GW-001**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 122031 — **Prep Batch: 120787**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	ND		20.0	14.16	F	mg/L		71	70 - 130	23	10

Lab Sample ID: 490-39464-K-7-B DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 122031 — **Prep Batch: 120787**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	1.25	J	ND		mg/L		NC	20

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 490-121913/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 121913

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.00	0.500	mg/L			11/13/13 09:48	1

Lab Sample ID: LCS 490-121913/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 121913

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	10.01		mg/L		100	90 - 110

Lab Sample ID: LCSD 490-121913/6 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 121913

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	10.0	9.651		mg/L		97	90 - 110	4	20

Lab Sample ID: 490-39437-1 MS — **Client Sample ID: MW-06-GW-001**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 121913

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	1.69		20.0	21.49		mg/L		99	75 - 122

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 490-39536-P-3 MS
Matrix: Water
Analysis Batch: 121913

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	1.82		20.0	21.35		mg/L		98	75 - 122

Method: 9060A - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 490-122384/1-A
Matrix: Water
Analysis Batch: 122516

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	ND		1.00	0.500	mg/L			11/15/13 16:31	1

Lab Sample ID: LCS 490-122384/2-A
Matrix: Water
Analysis Batch: 122516

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	10.0	10.22		mg/L		102	90 - 110

Lab Sample ID: 490-39437-1 MS
Matrix: Water
Analysis Batch: 122516

Client Sample ID: MW-06-GW-001
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	2.25		20.0	21.40		mg/L		96	75 - 122

Lab Sample ID: 490-39837-R-2-B MS
Matrix: Water
Analysis Batch: 122516

Client Sample ID: Matrix Spike
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	2.22		20.0	23.06		mg/L		104	75 - 122

Method: SM 4500 CO2 C - Free Carbon Dioxide

Lab Sample ID: MB 490-119687/1
Matrix: Water
Analysis Batch: 119687

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide, Free	ND		20.0	10.0	mg/L			11/05/13 16:13	1

Lab Sample ID: LCS 490-119687/2
Matrix: Water
Analysis Batch: 119687

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon Dioxide, Free	88.0	85.74		mg/L		97	90 - 110

Method: SM 4500 CO2 C - Free Carbon Dioxide (Continued)

Lab Sample ID: LCSD 490-119687/19
Matrix: Water
Analysis Batch: 119687

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon Dioxide, Free			88.0	79.73		mg/L		91	90 - 110	7	20

Lab Sample ID: 490-39464-M-7 DU
Matrix: Water
Analysis Batch: 119687

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Carbon Dioxide, Free	180			175.1		mg/L				3	20

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39437-1

GC VOA

Analysis Batch: 121529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39407-E-6 MS	Matrix Spike	Total/NA	Water	RSK-175	
490-39407-E-6 MSD	Matrix Spike Duplicate	Total/NA	Water	RSK-175	
490-39437-1	MW-06-GW-001	Total/NA	Water	RSK-175	
490-39437-3	MW-07-GW-001	Total/NA	Water	RSK-175	
490-39437-3	MW-07-GW-001	Total/NA	Water	RSK-175	
LCS 490-121529/7	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 490-121529/8	Lab Control Sample Dup	Total/NA	Water	RSK-175	
MB 490-121529/6	Method Blank	Total/NA	Water	RSK-175	

Analysis Batch: 121932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39437-1	MW-06-GW-001	Total/NA	Water	8015C	
490-39437-3	MW-07-GW-001	Total/NA	Water	8015C	
490-39641-E-1 MS	Matrix Spike	Total/NA	Water	8015C	
490-39641-E-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015C	
LCS 490-121932/4	Lab Control Sample	Total/NA	Water	8015C	
MB 490-121932/3	Method Blank	Total/NA	Water	8015C	

GC Semi VOA

Prep Batch: 119806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39437-1	MW-06-GW-001	Total/NA	Water	3510C	
490-39437-3	MW-07-GW-001	Total/NA	Water	3510C	
LCS 490-119806/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 490-119806/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 120144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39437-1	MW-06-GW-001	Total/NA	Water	8082A	119806
490-39437-3	MW-07-GW-001	Total/NA	Water	8082A	119806
LCS 490-119806/2-A	Lab Control Sample	Total/NA	Water	8082A	119806
MB 490-119806/1-A	Method Blank	Total/NA	Water	8082A	119806

HPLC/IC

Analysis Batch: 119597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39437-1	MW-06-GW-001	Total/NA	Water	9056A	
490-39437-1 MS	MW-06-GW-001	Total/NA	Water	9056A	
490-39437-1 MSD	MW-06-GW-001	Total/NA	Water	9056A	
LCS 490-119597/4	Lab Control Sample	Total/NA	Water	9056A	
LCSD 490-119597/5	Lab Control Sample Dup	Total/NA	Water	9056A	
MB 490-119597/3	Method Blank	Total/NA	Water	9056A	

Analysis Batch: 119598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39437-1	MW-06-GW-001	Total/NA	Water	9056A	
490-39437-1 MS	MW-06-GW-001	Total/NA	Water	9056A	
490-39437-1 MSD	MW-06-GW-001	Total/NA	Water	9056A	

HPLC/IC (Continued)

Analysis Batch: 119598 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39437-3	MW-07-GW-001	Total/NA	Water	9056A	
LCS 490-119598/4	Lab Control Sample	Total/NA	Water	9056A	
LCSD 490-119598/5	Lab Control Sample Dup	Total/NA	Water	9056A	
MB 490-119598/3	Method Blank	Total/NA	Water	9056A	

Analysis Batch: 121231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39437-1	MW-06-GW-001	Total/NA	Water	9056A	
490-39437-3	MW-07-GW-001	Total/NA	Water	9056A	
490-39437-3	MW-07-GW-001	Total/NA	Water	9056A	
490-39566-P-1 MS	Matrix Spike	Total/NA	Water	9056A	
490-39566-P-1 MSD	Matrix Spike Duplicate	Total/NA	Water	9056A	
LCS 490-121231/6	Lab Control Sample	Total/NA	Water	9056A	
LCSD 490-121231/7	Lab Control Sample Dup	Total/NA	Water	9056A	
MB 490-121231/5	Method Blank	Total/NA	Water	9056A	

Metals

Prep Batch: 121808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39259-H-4-C MS	Matrix Spike	Total/NA	Water	3010A	
490-39259-H-4-D MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	
490-39437-1	MW-06-GW-001	Total/NA	Water	3010A	
490-39437-3	MW-07-GW-001	Total/NA	Water	3010A	
LCS 490-121808/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 490-121808/1-A	Method Blank	Total/NA	Water	3010A	

Filtration Batch: 121850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39437-1	MW-06-GW-001	Dissolved	Water	Filtration	
490-39437-3	MW-07-GW-001	Dissolved	Water	Filtration	
LCS 490-121850/2-B	Lab Control Sample	Dissolved	Water	Filtration	
LCSD 490-121850/3-B	Lab Control Sample Dup	Dissolved	Water	Filtration	
MB 490-121850/1-B	Method Blank	Dissolved	Water	Filtration	

Prep Batch: 121853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39437-1	MW-06-GW-001	Dissolved	Water	3005A	121850
490-39437-3	MW-07-GW-001	Dissolved	Water	3005A	121850
LCS 490-121850/2-B	Lab Control Sample	Dissolved	Water	3005A	121850
LCSD 490-121850/3-B	Lab Control Sample Dup	Dissolved	Water	3005A	121850
MB 490-121850/1-B	Method Blank	Dissolved	Water	3005A	121850

Prep Batch: 122335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39437-1	MW-06-GW-001	Total/NA	Water	7470A	
490-39437-1 MS	MW-06-GW-001	Total/NA	Water	7470A	
490-39437-1 MSD	MW-06-GW-001	Total/NA	Water	7470A	
490-39437-3	MW-07-GW-001	Total/NA	Water	7470A	
LCS 490-122335/2-A	Lab Control Sample	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 122335 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 490-122335/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 122697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39259-H-4-C MS	Matrix Spike	Total/NA	Water	6020A	121808
490-39259-H-4-D MSD	Matrix Spike Duplicate	Total/NA	Water	6020A	121808
490-39437-1	MW-06-GW-001	Total/NA	Water	6020A	121808
490-39437-3	MW-07-GW-001	Total/NA	Water	6020A	121808
LCS 490-121808/2-A	Lab Control Sample	Total/NA	Water	6020A	121808
LCS 490-121850/2-B	Lab Control Sample	Dissolved	Water	6020A	121853
LCSD 490-121850/3-B	Lab Control Sample Dup	Dissolved	Water	6020A	121853
MB 490-121808/1-A	Method Blank	Total/NA	Water	6020A	121808
MB 490-121850/1-B	Method Blank	Dissolved	Water	6020A	121853

Analysis Batch: 122803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39437-1	MW-06-GW-001	Total/NA	Water	7470A	122335
490-39437-1 MS	MW-06-GW-001	Total/NA	Water	7470A	122335
490-39437-1 MSD	MW-06-GW-001	Total/NA	Water	7470A	122335
490-39437-3	MW-07-GW-001	Total/NA	Water	7470A	122335
LCS 490-122335/2-A	Lab Control Sample	Total/NA	Water	7470A	122335
MB 490-122335/1-A	Method Blank	Total/NA	Water	7470A	122335

Analysis Batch: 122927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39437-1	MW-06-GW-001	Dissolved	Water	6020A	121853
490-39437-1	MW-06-GW-001	Total/NA	Water	6020A	121808
490-39437-1	MW-06-GW-001	Total/NA	Water	6020A	121808
490-39437-3	MW-07-GW-001	Dissolved	Water	6020A	121853
490-39437-3	MW-07-GW-001	Total/NA	Water	6020A	121808
490-39437-3	MW-07-GW-001	Total/NA	Water	6020A	121808

General Chemistry

Analysis Batch: 119687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39437-1	MW-06-GW-001	Total/NA	Water	SM 4500 CO2 C	
490-39437-3	MW-07-GW-001	Total/NA	Water	SM 4500 CO2 C	
490-39464-M-7 DU	Duplicate	Total/NA	Water	SM 4500 CO2 C	
LCS 490-119687/2	Lab Control Sample	Total/NA	Water	SM 4500 CO2 C	
LCSD 490-119687/19	Lab Control Sample Dup	Total/NA	Water	SM 4500 CO2 C	
MB 490-119687/1	Method Blank	Total/NA	Water	SM 4500 CO2 C	

Analysis Batch: 119969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39437-2	MW-06-GW-001	Total/NA	Water	7196A	
490-39437-3	MW-07-GW-001	Total/NA	Water	7196A	

General Chemistry (Continued)

Analysis Batch: 120082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39437-2	MW-06-GW-001	Total/NA	Water	7196A	
490-39437-3	MW-07-GW-001	Total/NA	Water	7196A	
490-39536-A-4 DU	Duplicate	Total/NA	Water	7196A	
490-39536-A-4 MS	Matrix Spike	Total/NA	Water	7196A	
490-39536-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	7196A	
LCS 490-120082/3	Lab Control Sample	Total/NA	Water	7196A	
MB 490-120082/2	Method Blank	Total/NA	Water	7196A	

Prep Batch: 120787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39437-1	MW-06-GW-001	Total/NA	Water	9030B	
490-39437-1 MS	MW-06-GW-001	Total/NA	Water	9030B	
490-39437-1 MSD	MW-06-GW-001	Total/NA	Water	9030B	
490-39437-3	MW-07-GW-001	Total/NA	Water	9030B	
490-39464-K-7-B DU	Duplicate	Total/NA	Water	9030B	
LCS 490-120787/2-A	Lab Control Sample	Total/NA	Water	9030B	
MB 490-120787/1-A	Method Blank	Total/NA	Water	9030B	

Analysis Batch: 121913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39437-1	MW-06-GW-001	Total/NA	Water	9060A	
490-39437-1 MS	MW-06-GW-001	Total/NA	Water	9060A	
490-39437-3	MW-07-GW-001	Total/NA	Water	9060A	
490-39536-P-3 MS	Matrix Spike	Total/NA	Water	9060A	
LCS 490-121913/5	Lab Control Sample	Total/NA	Water	9060A	
LCSD 490-121913/6	Lab Control Sample Dup	Total/NA	Water	9060A	
MB 490-121913/1	Method Blank	Total/NA	Water	9060A	

Analysis Batch: 122031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39437-1	MW-06-GW-001	Total/NA	Water	9034	120787
490-39437-1 MS	MW-06-GW-001	Total/NA	Water	9034	120787
490-39437-1 MSD	MW-06-GW-001	Total/NA	Water	9034	120787
490-39437-3	MW-07-GW-001	Total/NA	Water	9034	120787
490-39464-K-7-B DU	Duplicate	Total/NA	Water	9034	120787
LCS 490-120787/2-A	Lab Control Sample	Total/NA	Water	9034	120787
MB 490-120787/1-A	Method Blank	Total/NA	Water	9034	120787

Filtration Batch: 122384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39437-1	MW-06-GW-001	Dissolved	Water	Filtration	
490-39437-1 MS	MW-06-GW-001	Dissolved	Water	Filtration	
490-39437-3	MW-07-GW-001	Dissolved	Water	Filtration	
490-39837-R-2-B MS	Matrix Spike	Dissolved	Water	Filtration	
LCS 490-122384/2-A	Lab Control Sample	Dissolved	Water	Filtration	
MB 490-122384/1-A	Method Blank	Dissolved	Water	Filtration	

Prep Batch: 122385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39437-1	MW-06-GW-001	Total/NA	Water	9012B	
490-39437-1 MS	MW-06-GW-001	Total/NA	Water	9012B	

General Chemistry (Continued)

Prep Batch: 122385 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39437-1 MSD	MW-06-GW-001	Total/NA	Water	9012B	
490-39437-3	MW-07-GW-001	Total/NA	Water	9012B	
490-40026-A-1-B DU	Duplicate	Total/NA	Water	9012B	
LCS 490-122385/3-A	Lab Control Sample	Total/NA	Water	9012B	
MB 490-122385/1-A	Method Blank	Total/NA	Water	9012B	

Analysis Batch: 122516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39437-1	MW-06-GW-001	Dissolved	Water	9060A	122384
490-39437-1 MS	MW-06-GW-001	Dissolved	Water	9060A	122384
490-39437-3	MW-07-GW-001	Dissolved	Water	9060A	122384
490-39837-R-2-B MS	Matrix Spike	Dissolved	Water	9060A	122384
LCS 490-122384/2-A	Lab Control Sample	Dissolved	Water	9060A	122384
MB 490-122384/1-A	Method Blank	Dissolved	Water	9060A	122384

Analysis Batch: 122761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39437-1	MW-06-GW-001	Total/NA	Water	9012B	122385
490-39437-1 MS	MW-06-GW-001	Total/NA	Water	9012B	122385
490-39437-1 MSD	MW-06-GW-001	Total/NA	Water	9012B	122385
490-39437-3	MW-07-GW-001	Total/NA	Water	9012B	122385
490-40026-A-1-B DU	Duplicate	Total/NA	Water	9012B	122385
LCS 490-122385/3-A	Lab Control Sample	Total/NA	Water	9012B	122385
MB 490-122385/1-A	Method Blank	Total/NA	Water	9012B	122385

Client Sample ID: MW-06-GW-001

Lab Sample ID: 490-39437-1

Date Collected: 11/04/13 13:25

Matrix: Water

Date Received: 11/05/13 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	121529	11/13/13 11:56	MGH	TAL NSH
Total/NA	Analysis	8015C		1	121932	11/14/13 16:21	JPS	TAL NSH
Total/NA	Prep	3510C			119806	11/06/13 11:39	FXM	TAL NSH
Total/NA	Analysis	8082A		1	120144	11/07/13 17:39	WAM	TAL NSH
Total/NA	Analysis	9056A		1	119597	11/06/13 05:45	ASL	TAL NSH
Total/NA	Analysis	9056A		1	119598	11/06/13 05:45	ASL	TAL NSH
Total/NA	Analysis	9056A		1	121231	11/12/13 12:21	ASL	TAL NSH
Total/NA	Analysis	6020A		1	122697	11/14/13 17:47	BWW	TAL NSH
Total/NA	Prep	7470A			122335	11/15/13 13:47	LTB	TAL NSH
Total/NA	Analysis	7470A		1	122803	11/18/13 12:32	LTB	TAL NSH
Total/NA	Analysis	6020A		1	122927	11/19/13 04:31	BWW	TAL NSH
Total/NA	Prep	3010A			121808	11/14/13 07:44	NLI	TAL NSH
Total/NA	Analysis	6020A		10	122927	11/19/13 04:55	BWW	TAL NSH
Dissolved	Filtration	Filtration			121850	11/14/13 09:39	NLI	TAL NSH
Dissolved	Prep	3005A			121853	11/14/13 09:42	NLI	TAL NSH
Dissolved	Analysis	6020A		20	122927	11/19/13 05:05	BWW	TAL NSH
Total/NA	Analysis	SM 4500 CO2 C		1	119687	11/05/13 16:32	BLM	TAL NSH
Total/NA	Analysis	9060A		1	121913	11/13/13 09:48	JKF	TAL NSH
Total/NA	Prep	9030B			120787	11/09/13 12:05	SDJ	TAL NSH
Total/NA	Analysis	9034		1	122031	11/09/13 16:07	SDJ	TAL NSH
Dissolved	Filtration	Filtration			122384	11/15/13 10:00	CLJ	TAL NSH
Dissolved	Analysis	9060A		1	122516	11/15/13 16:31	JKF	TAL NSH
Total/NA	Prep	9012B			122385	11/15/13 14:07	SDJ	TAL NSH
Total/NA	Analysis	9012B		1	122761	11/18/13 01:29	TEM	TAL NSH

Client Sample ID: MW-06-GW-001

Lab Sample ID: 490-39437-2

Date Collected: 11/04/13 15:57

Matrix: Water

Date Received: 11/05/13 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1	119969	11/05/13 11:50	BLM	TAL NSH
Total/NA	Analysis	7196A		1	120082	11/06/13 13:34	BLM	TAL NSH

Client Sample ID: MW-07-GW-001

Lab Sample ID: 490-39437-3

Date Collected: 11/04/13 15:28

Matrix: Water

Date Received: 11/05/13 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	121529	11/13/13 11:58	MGH	TAL NSH
Total/NA	Analysis	RSK-175		2	121529	11/13/13 12:00	MGH	TAL NSH
Total/NA	Analysis	8015C		1	121932	11/14/13 16:40	JPS	TAL NSH
Total/NA	Prep	3510C			119806	11/06/13 11:56	FXM	TAL NSH

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39437-1

Client Sample ID: MW-07-GW-001
Date Collected: 11/04/13 15:28
Date Received: 11/05/13 08:20

Lab Sample ID: 490-39437-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082A		1	120144	11/07/13 17:51	WAM	TAL NSH
Total/NA	Analysis	9056A		1	119598	11/06/13 07:05	ASL	TAL NSH
Total/NA	Analysis	9056A		1	121231	11/12/13 13:01	ASL	TAL NSH
Total/NA	Analysis	9056A		5	121231	11/12/13 13:21	ASL	TAL NSH
Total/NA	Analysis	6020A		1	122697	11/14/13 17:52	BWW	TAL NSH
Total/NA	Prep	7470A			122335	11/15/13 13:47	LTB	TAL NSH
Total/NA	Analysis	7470A		1	122803	11/18/13 12:37	LTB	TAL NSH
Total/NA	Prep	3010A			121808	11/14/13 07:44	NLI	TAL NSH
Total/NA	Analysis	6020A		1	122927	11/19/13 04:36	BWW	TAL NSH
Total/NA	Analysis	6020A		20	122927	11/19/13 05:00	BWW	TAL NSH
Dissolved	Filtration	Filtration			121850	11/14/13 09:39	NLI	TAL NSH
Dissolved	Prep	3005A			121853	11/14/13 09:42	NLI	TAL NSH
Dissolved	Analysis	6020A		20	122927	11/19/13 05:10	BWW	TAL NSH
Total/NA	Analysis	SM 4500 CO2 C		1	119687	11/05/13 16:41	BLM	TAL NSH
Total/NA	Analysis	7196A		1	119969	11/05/13 11:50	BLM	TAL NSH
Total/NA	Analysis	7196A		1	120082	11/06/13 13:38	BLM	TAL NSH
Total/NA	Analysis	9060A		1	121913	11/13/13 09:48	JKF	TAL NSH
Total/NA	Prep	9030B			120787	11/09/13 12:05	SDJ	TAL NSH
Total/NA	Analysis	9034		1	122031	11/09/13 16:07	SDJ	TAL NSH
Dissolved	Filtration	Filtration			122384	11/15/13 10:00	CLJ	TAL NSH
Dissolved	Analysis	9060A		1	122516	11/15/13 16:31	JKF	TAL NSH
Total/NA	Prep	9012B			122385	11/15/13 14:07	SDJ	TAL NSH
Total/NA	Analysis	9012B		1	122761	11/18/13 01:31	TEM	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39437-1

Method	Method Description	Protocol	Laboratory
8015C	Glycols- Direct Injection (GC/FID)	SW846	TAL NSH
RSK-175	Dissolved Gases (GC)	RSK	TAL NSH
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL NSH
9056A	Anions, Ion Chromatography	SW846	TAL NSH
6020A	Metals (ICP/MS)	SW846	TAL NSH
7470A	Mercury (CVAA)	SW846	TAL NSH
7196A	Chromium, Hexavalent	SW846	TAL NSH
9012B	Cyanide, Total andor Amenable	SW846	TAL NSH
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL NSH
9060A	Organic Carbon, Total (TOC)	SW846	TAL NSH
9060A	Organic Carbon, Dissolved (DOC)	SW846	TAL NSH
SM 4500 CO2 C	Free Carbon Dioxide	SM	TAL NSH

Protocol References:

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab
SM = "Standard Methods For The Examination Of Water And Wastewater",
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Former Leeds Assembly Plant

TestAmerica Job ID: 490-39437-1

Laboratory: TestAmerica Nashville

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alaska (UST)	State Program	10	UST-087	07-24-14
Arizona	State Program	9	AZ0473	05-05-14
Arizona	State Program	9	AZ0473	05-05-14 *
Arkansas DEQ	State Program	6	88-0737	04-25-14
California	NELAP	9	1168CA	10-31-14
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-14
Illinois	NELAP	5	200010	12-09-13 *
Iowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-14
Kentucky (UST)	State Program	4	19	06-30-14
Louisiana	NELAP	6	30613	06-30-14
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	1	M-TN032	06-30-14
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-14
Montana (UST)	State Program	8	NA	01-01-20
Nevada	State Program	9	TN00032	07-31-14
New Hampshire	NELAP	1	2963	10-10-14
New Jersey	NELAP	2	TN965	06-30-14
New York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-13
North Dakota	State Program	8	R-146	06-30-14
Ohio VAP	State Program	5	CL0033	10-16-15
Oklahoma	State Program	6	9412	08-31-14
Oregon	NELAP	10	TN200001	04-29-14
Pennsylvania	NELAP	3	68-00585	06-30-14
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	02-28-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-14
USDA	Federal		S-48469	10-30-16
Utah	NELAP	8	TN00032	07-31-14
Virginia	NELAP	3	460152	06-14-14
Washington	State Program	10	C789	07-19-14
West Virginia DEP	State Program	3	219	02-28-14
Wisconsin	State Program	5	998020430	08-31-14
Wyoming (UST)	A2LA	8	453.07	12-31-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

490-39437 Chain of Custody

COOLER RECEIPT FORM

Cooler Received/Opened On : 11/5/2013 @ 0820

Tracking # 1710 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun : 97460373

1. Temperature of rep. sample or temp blank when opened: 0.6 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 2 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES NO NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# _____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 11/28/12

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: John Knightly	Lab PM: Connor, Roxanne	Carrier Tracking No(s): 5712 0302 1710	COC No: 490-16687-6964.1
Client Contact: Mariruth Gruis	Phone: 913-522-0370	E-Mail: roxanne.connor@testamericainc.com		Page: Page 1 of 7
Company: Haley & Aldrich, Inc.				Job #:
Address: 11020 King Street Suite 450	Due Date Requested:			
City: Overland Park	TAT Requested (days): Normal			
State, Zip: KS, 66210				
Phone: 913-636-3497(Tel)	PO #: Purchase Order Requested			
Email: mgruis@haleyaldrich.com	WO #:			
Project Name: Leeds Facility	Project #: 49003847			
Site:	SSOW#:			

Analysis Requested

Loc: 490
39437

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B TCL	8270C TCL Semivolatiles List	Cr+6, SO4, Cl, NO3, NO2, CO2	6020A TCL metals + 7470A Hg	RSK_175 - Methane, Ethane, Ethylene	9060A TOC and DOC	9034 - Sulfide	9012B - Cyanide, Total	8015C_DAI_GLY - Ethylene Glyco	8082A - Standard PCBs (1016-1260)	1010A Flashpoint and 9040C pH	6020A Diss Mn (lab filtered)	6020A Fe & Mn	Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
MW-06-GW-001	11/4/13	1325	G	Water			X	X	X	X	X	X	X	X	X	X		X	X		01
MW-06-GW-001	11/4/13	1557	G	Water					X												Cr+6 2
MW-07-GW-001	11/4/13	1528	G	Water			X	X	X	X	X	X	X	X	X	X		X	X		Cr+6 3
				Water																	
Trip Blank	-	-	-	Water			X														4
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: John Knightly	Date/Time: 11/4/13, 1900	Company H+A	Received by: KAN 0.6
Relinquished by:	Date/Time:	Company	Received by:
Relinquished by:	Date/Time:	Company	Received by:

Date/Time: 11/5/13 0820	Company TA Nashville		
Date/Time:	Company		
Date/Time:	Company		

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

11/19/2013

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 490-39437-1

Login Number: 39437

List Source: TestAmerica Nashville

List Number: 1

Creator: Gambill, Shane

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

APPENDIX F

Eurofins Air Toxics LTD Laboratory Analytical Reports

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11/20/2013
Ms. Mariruth Gruis
Haley & Aldrich
11020 King Street, Suite 450

Overland Park KS 66210

Project Name: Leeds North Parcel
Project #: 37294-018
Workorder #: 1311079A

Dear Ms. Mariruth Gruis

The following report includes the data for the above referenced project for sample(s) received on 11/5/2013 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 1311079A

Work Order Summary

CLIENT:	Ms. Mariruth Gruis Haley & Aldrich 11020 King Street, Suite 450 Overland Park, KS 66210	**BILL TO:**	Accounts Payable Haley & Aldrich 70 Blanchard Road Suite 430 Burlington, MA 02129-1400
PHONE:	913-599-5802	**P.O. #**	37294-018
FAX:		**PROJECT #**	37294-018 Leeds North Parcel
DATE RECEIVED:	11/05/2013	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	11/20/2013		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SV-1-5-001	TO-15	4.1 "Hg	5.2 psi
02A	SV-1-10-001	TO-15	4.3 "Hg	5.3 psi
03A	SV-2-5-001	TO-15	3.9 "Hg	5.4 psi
04A	SV-2-10-001	TO-15	4.9 "Hg	5.2 psi
05A	SV-3-5-001	TO-15	4.5 "Hg	5.3 psi
06A	SV-3-10-001	TO-15	3.3 "Hg	4.9 psi
07A	SV-3-10-002	TO-15	4.7 "Hg	4.9 psi
08A	SV-4-5-001	TO-15	4.5 "Hg	5.1 psi
09A	SV-4-10-001	TO-15	3.9 "Hg	5.2 psi
10A	SV-5-5-001	TO-15	4.9 "Hg	5.5 psi
11A	SV-5-10-001	TO-15	3.7 "Hg	5.1 psi
12A	SV-6-5-001	TO-15	5.3 "Hg	5.1 psi
13A	SV-6-10-001	TO-15	4.5 "Hg	5.1 psi
14A	SV-7-5-001	TO-15	5.5 "Hg	5.2 psi
15A	SV-7-10-001	TO-15	3.7 "Hg	5.2 psi
16A	SV-8-5-001	TO-15	4.9 "Hg	5.1 psi
17A	SV-9-5-001	TO-15	3.9 "Hg	4.9 psi
18A	SV-9-5-002	TO-15	0.6 "Hg	5.1 psi
19A	SV-9-10-001	TO-15	3.5 "Hg	5.3 psi
20A	SV-10-5-001	TO-15	3.5 "Hg	5.1 psi
21A	SV-10-10-001	TO-15	4.7 "Hg	5.1 psi
22A	EQ (Equipment Blank)	TO-15	28.8 "Hg	5.3 psi
23A	Lab Blank	TO-15	NA	NA

Continued on next page

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WORK ORDER #: 1311079A

Work Order Summary

CLIENT:	Ms. Mariruth Gruis Haley & Aldrich 11020 King Street, Suite 450 Overland Park, KS 66210	**BILL TO:**	Accounts Payable Haley & Aldrich 70 Blanchard Road Suite 430 Burlington, MA 02129-1400
PHONE:	913-599-5802	**P.O. #**	37294-018
FAX:		**PROJECT #**	37294-018 Leeds North Parcel
DATE RECEIVED:	11/05/2013	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	11/20/2013		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
23B	Lab Blank	TO-15	NA	NA
23C	Lab Blank	TO-15	NA	NA
23D	Lab Blank	TO-15	NA	NA
23E	Lab Blank	TO-15	NA	NA
24A	CCV	TO-15	NA	NA
24B	CCV	TO-15	NA	NA
24C	CCV	TO-15	NA	NA
24D	CCV	TO-15	NA	NA
24E	CCV	TO-15	NA	NA
25A	LCS	TO-15	NA	NA
25AA	LCSD	TO-15	NA	NA
25B	LCS	TO-15	NA	NA
25BB	LCSD	TO-15	NA	NA
25C	LCS	TO-15	NA	NA
25CC	LCSD	TO-15	NA	NA
25D	LCS	TO-15	NA	NA
25DD	LCSD	TO-15	NA	NA
25E	LCS	TO-15	NA	NA
25EE	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 11/20/13

Technical Director

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-13-6, UT NELAP CA009332013-4, VA NELAP - 460197, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2013, Expiration date: 10/17/2014.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
Haley & Aldrich
Workorder# 1311079A

Twenty-two 6 Liter Summa Canister samples were received on November 05, 2013. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Due to the linear calibration range of the instrument MSD-3, the reporting limit for Ethanol was raised from 2.0ppbv to 5.0ppbv.

Dilution was performed on samples SV-1-10-001, SV-3-5-001, SV-3-10-001, SV-3-10-002, SV-4-5-001, SV-4-10-001, SV-5-5-001, SV-8-5-001, SV-9-5-001, SV-9-5-002 and SV-9-10-001 due to the presence of high level target species.

Dilution was performed on samples SV-2-5-001, SV-2-10-001 and SV-5-10-001 due to the presence of high level non-target species.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates

as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: SV-1-5-001

Lab ID#: 1311079A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	7.8	160	20	410
Hexane	7.8	1300	28	4500
cis-1,2-Dichloroethene	7.8	18	31	74
Cyclohexane	7.8	4100	27	14000
Benzene	7.8	38	25	120
Heptane	7.8	420	32	1700
Toluene	7.8	25	30	95
Cumene	7.8	16	38	78

Client Sample ID: SV-1-10-001

Lab ID#: 1311079A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	16	35	41	89
Hexane	16	760	56	2700
Cyclohexane	16	3600	55	12000
Heptane	16	190	65	800
Toluene	16	19	60	71
Cumene	16	45	78	220
Propylbenzene	16	21	78	100
4-Ethyltoluene	16	29	78	140
1,3,5-Trimethylbenzene	16	18	78	87
1,2,4-Trimethylbenzene	16	41	78	200

Client Sample ID: SV-2-5-001

Lab ID#: 1311079A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	66	360	230	1300
Cyclohexane	66	2800	220	9500
Benzene	66	120	210	370
Heptane	66	100	270	410

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SV-2-10-001

Lab ID#: 1311079A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	1.6	3.1	3.6	6.8
Acetone	16	62	38	150
2-Propanol	6.5	11	16	27
Hexane	1.6	13	5.7	47
2-Butanone (Methyl Ethyl Ketone)	6.5	7.9	19	23
Cyclohexane	1.6	150	5.6	530
Benzene	1.6	3.0	5.2	9.8
Heptane	1.6	4.0	6.6	16
Toluene	1.6	2.4	6.1	9.2
m,p-Xylene	1.6	1.6	7.0	7.0

Client Sample ID: SV-3-5-001

Lab ID#: 1311079A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	80	1000	190	2400
2-Propanol	32	10000 E	79	25000 E

Client Sample ID: SV-3-10-001

Lab ID#: 1311079A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	50	780	120	1800
2-Propanol	20	9300 E	49	23000 E

Client Sample ID: SV-3-10-002

Lab ID#: 1311079A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	52	790	120	1900
2-Propanol	21	9300 E	52	23000 E

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: SV-4-5-001

Lab ID#: 1311079A-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	160	2700	380	6400
2-Propanol	160	25000	390	62000
Hexane	40	150	140	520
Cyclohexane	40	1800	140	6400
Heptane	40	82	160	340
Cumene	40	130	190	630

Client Sample ID: SV-4-10-001

Lab ID#: 1311079A-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	62	470	150	1200
Hexane	16	280	55	1000
Cyclohexane	16	2000	53	6800
Benzene	16	18	50	57
Heptane	16	81	64	330
Toluene	16	17	58	64

Client Sample ID: SV-5-5-001

Lab ID#: 1311079A-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	8.2	51	21	130
Hexane	8.2	560	29	2000
Cyclohexane	8.2	430	28	1500
Benzene	8.2	39	26	120
Heptane	8.2	290	34	1200
Toluene	8.2	15	31	58
m,p-Xylene	8.2	11	36	48

Client Sample ID: SV-5-10-001

Lab ID#: 1311079A-11A

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SV-5-10-001

Lab ID#: 1311079A-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	7.6	35	20	90
Hexane	7.6	200	27	700
Cyclohexane	7.6	150	26	510
Heptane	7.6	66	31	270

Client Sample ID: SV-6-5-001

Lab ID#: 1311079A-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	3.3	14	6.2	26
Acetone	8.2	19	19	45
2-Propanol	3.3	75	8.1	180

Client Sample ID: SV-6-10-001

Lab ID#: 1311079A-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	7.9	29	19	69
2-Propanol	3.2	8.6	7.8	21
Hexane	0.79	350 E	2.8	1200 E
2-Butanone (Methyl Ethyl Ketone)	3.2	4.0	9.3	12
Benzene	0.79	3.6	2.5	12
Heptane	0.79	170	3.2	680
Toluene	0.79	3.5	3.0	13
Ethyl Benzene	0.79	0.89	3.4	3.8
m,p-Xylene	0.79	2.8	3.4	12
o-Xylene	0.79	1.1	3.4	4.8
1,3-Dichlorobenzene	0.79	0.95	4.8	5.7
1,4-Dichlorobenzene	0.79	2.7	4.8	16

Client Sample ID: SV-7-5-001

Lab ID#: 1311079A-14A

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: SV-7-5-001

Lab ID#: 1311079A-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	33	3600	79	8500
2-Propanol	33	33000 E	82	80000 E
Cyclohexane	8.3	18	28	61
Ethyl Benzene	8.3	27	36	120
Cumene	8.3	120	41	610
Propylbenzene	8.3	450	41	2200

Client Sample ID: SV-7-10-001

Lab ID#: 1311079A-15A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.77	4.8	1.7	10
Ethanol	3.1	12	5.8	23
Acetone	7.7	250	18	600
2-Propanol	3.1	72	7.6	180
Carbon Disulfide	3.1	9.8	9.6	31
Hexane	0.77	8.6	2.7	30
2-Butanone (Methyl Ethyl Ketone)	3.1	17	9.1	50
Cyclohexane	0.77	6.3	2.6	22
Benzene	0.77	4.1	2.4	13
Heptane	0.77	9.9	3.2	40
4-Methyl-2-pentanone	0.77	1.5	3.2	6.3
Toluene	0.77	2.9	2.9	11
Ethyl Benzene	0.77	2.7	3.3	12
m,p-Xylene	0.77	3.8	3.3	16
o-Xylene	0.77	1.0	3.3	4.4
Cumene	0.77	6.2	3.8	30
Propylbenzene	0.77	9.2	3.8	45
4-Ethyltoluene	0.77	3.6	3.8	18
1,3,5-Trimethylbenzene	0.77	1.9	3.8	9.4
1,2,4-Trimethylbenzene	0.77	5.5	3.8	27

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: SV-8-5-001

Lab ID#: 1311079A-16A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	160	3600	380	8600
2-Propanol	160	43000 E	400	100000 E

Client Sample ID: SV-9-5-001

Lab ID#: 1311079A-17A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	38	65	98	170
Hexane	38	230	130	810
Cyclohexane	38	2100	130	7300
Benzene	38	86	120	280
Heptane	38	390	160	1600
Toluene	38	48	140	180
Ethyl Benzene	38	200	170	870
m,p-Xylene	38	92	170	400
o-Xylene	38	110	170	490
Cumene	38	8000	190	39000
Propylbenzene	38	17000	190	86000
1,2,4-Trimethylbenzene	38	64	190	320

Client Sample ID: SV-9-5-002

Lab ID#: 1311079A-18A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	34	74	88	190
Hexane	34	250	120	880
Cyclohexane	34	2200	120	7600
Benzene	34	80	110	250
Heptane	34	420	140	1700
Toluene	34	51	130	190
Ethyl Benzene	34	210	150	910
m,p-Xylene	34	100	150	440
o-Xylene	34	110	150	480

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: SV-9-5-002

Lab ID#: 1311079A-18A

Cumene	34	8100	170	40000
Propylbenzene	34	18000	170	87000
1,2,4-Trimethylbenzene	34	64	170	320

Client Sample ID: SV-9-10-001

Lab ID#: 1311079A-19A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	150	1100	360	2600
2-Propanol	62	16000 E	150	39000 E
Cyclohexane	15	74	53	260
Cumene	15	39	76	190
Propylbenzene	15	41	76	200

Client Sample ID: SV-10-5-001

Lab ID#: 1311079A-20A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.76	2.4	1.7	5.4
Ethanol	3.0	7.2	5.7	14
Acetone	7.6	140	18	340
2-Propanol	3.0	330 E	7.5	810 E
Hexane	0.76	2.3	2.7	8.2
2-Butanone (Methyl Ethyl Ketone)	3.0	7.9	9.0	23
Cyclohexane	0.76	1.5	2.6	5.3
2,2,4-Trimethylpentane	0.76	6.0	3.6	28
Benzene	0.76	3.2	2.4	10
Heptane	0.76	2.4	3.1	9.9
Toluene	0.76	3.6	2.9	13
Ethyl Benzene	0.76	5.2	3.3	22
m,p-Xylene	0.76	9.3	3.3	40
o-Xylene	0.76	8.1	3.3	35
Propylbenzene	0.76	1.2	3.7	5.7
4-Ethyltoluene	0.76	5.8	3.7	29

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SV-10-5-001

Lab ID#: 1311079A-20A

1,3,5-Trimethylbenzene	0.76	3.4	3.7	17
1,2,4-Trimethylbenzene	0.76	7.3	3.7	36

Client Sample ID: SV-10-10-001

Lab ID#: 1311079A-21A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.80	5.1	1.8	11
Acetone	8.0	210	19	500
Hexane	0.80	3.3	2.8	12
2-Butanone (Methyl Ethyl Ketone)	3.2	18	9.4	53
Benzene	0.80	2.3	2.6	7.3
Heptane	0.80	1.9	3.3	7.7
Toluene	0.80	1.8	3.0	6.8

Client Sample ID: EQ (Equipment Blank)

Lab ID#: 1311079A-22A

No Detections Were Found.

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Client Sample ID: SV-1-5-001

Lab ID#: 1311079A-01A

EPA METHOD TO-15 GC/MS

File Name:	**14111827**	**Date of Collection:**	**10/29/13 5:38:00 PM**
Dil. Factor:	**1.57**	**Date of Analysis:**	**11/18/13 10:28 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	7.8	Not Detected	39	Not Detected
Freon 114	7.8	Not Detected	55	Not Detected
Chloromethane	31	Not Detected	65	Not Detected
Vinyl Chloride	7.8	160	20	410
1,3-Butadiene	7.8	Not Detected	17	Not Detected
Bromomethane	7.8	Not Detected	30	Not Detected
Chloroethane	31	Not Detected	83	Not Detected
Freon 11	7.8	Not Detected	44	Not Detected
Ethanol	31	Not Detected	59	Not Detected
Freon 113	7.8	Not Detected	60	Not Detected
1,1-Dichloroethene	7.8	Not Detected	31	Not Detected
Acetone	31	Not Detected	74	Not Detected
2-Propanol	31	Not Detected	77	Not Detected
Carbon Disulfide	7.8	Not Detected	24	Not Detected
3-Chloropropene	31	Not Detected	98	Not Detected
Methylene Chloride	7.8	Not Detected	27	Not Detected
Methyl tert-butyl ether	7.8	Not Detected	28	Not Detected
trans-1,2-Dichloroethene	7.8	Not Detected	31	Not Detected
Hexane	7.8	1300	28	4500
1,1-Dichloroethane	7.8	Not Detected	32	Not Detected
2-Butanone (Methyl Ethyl Ketone)	31	Not Detected	92	Not Detected
cis-1,2-Dichloroethene	7.8	18	31	74
Tetrahydrofuran	7.8	Not Detected	23	Not Detected
Chloroform	7.8	Not Detected	38	Not Detected
1,1,1-Trichloroethane	7.8	Not Detected	43	Not Detected
Cyclohexane	7.8	4100	27	14000
Carbon Tetrachloride	7.8	Not Detected	49	Not Detected
2,2,4-Trimethylpentane	7.8	Not Detected	37	Not Detected
Benzene	7.8	38	25	120
1,2-Dichloroethane	7.8	Not Detected	32	Not Detected
Heptane	7.8	420	32	1700
Trichloroethene	7.8	Not Detected	42	Not Detected
1,2-Dichloropropane	7.8	Not Detected	36	Not Detected
1,4-Dioxane	31	Not Detected	110	Not Detected
Bromodichloromethane	7.8	Not Detected	52	Not Detected
cis-1,3-Dichloropropene	7.8	Not Detected	36	Not Detected
4-Methyl-2-pentanone	7.8	Not Detected	32	Not Detected
Toluene	7.8	25	30	95
trans-1,3-Dichloropropene	7.8	Not Detected	36	Not Detected
1,1,2-Trichloroethane	7.8	Not Detected	43	Not Detected
Tetrachloroethene	7.8	Not Detected	53	Not Detected
2-Hexanone	31	Not Detected	130	Not Detected

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Client Sample ID: SV-1-5-001

Lab ID#: 1311079A-01A

EPA METHOD TO-15 GC/MS

File Name:	**14111827**	**Date of Collection: 10/29/13 5:38:00 PM**	
Dil. Factor:	**1.57**	**Date of Analysis: 11/18/13 10:28 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	7.8	Not Detected	67	Not Detected
1,2-Dibromoethane (EDB)	7.8	Not Detected	60	Not Detected
Chlorobenzene	7.8	Not Detected	36	Not Detected
Ethyl Benzene	7.8	Not Detected	34	Not Detected
m,p-Xylene	7.8	Not Detected	34	Not Detected
o-Xylene	7.8	Not Detected	34	Not Detected
Styrene	7.8	Not Detected	33	Not Detected
Bromoform	7.8	Not Detected	81	Not Detected
Cumene	7.8	16	38	78
1,1,2,2-Tetrachloroethane	7.8	Not Detected	54	Not Detected
Propylbenzene	7.8	Not Detected	38	Not Detected
4-Ethyltoluene	7.8	Not Detected	38	Not Detected
1,3,5-Trimethylbenzene	7.8	Not Detected	38	Not Detected
1,2,4-Trimethylbenzene	7.8	Not Detected	38	Not Detected
1,3-Dichlorobenzene	7.8	Not Detected	47	Not Detected
1,4-Dichlorobenzene	7.8	Not Detected	47	Not Detected
alpha-Chlorotoluene	7.8	Not Detected	41	Not Detected
1,2-Dichlorobenzene	7.8	Not Detected	47	Not Detected
1,2,4-Trichlorobenzene	31	Not Detected	230	Not Detected
Hexachlorobutadiene	31	Not Detected	330	Not Detected

Q = Exceeds Quality Control limits of 70% to 130%, due to matrix effects.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	146 Q	70-130
Toluene-d8	141 Q	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: SV-1-10-001

Lab ID#: 1311079A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17111827**	**Date of Collection:**	**10/29/13 5:21:00 PM**
Dil. Factor:	**31.8**	**Date of Analysis:**	**11/18/13 09:46 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	16	Not Detected	79	Not Detected
Freon 114	16	Not Detected	110	Not Detected
Chloromethane	160	Not Detected	330	Not Detected
Vinyl Chloride	16	35	41	89
1,3-Butadiene	16	Not Detected	35	Not Detected
Bromomethane	160	Not Detected	620	Not Detected
Chloroethane	64	Not Detected	170	Not Detected
Freon 11	16	Not Detected	89	Not Detected
Ethanol	64	Not Detected	120	Not Detected
Freon 113	16	Not Detected	120	Not Detected
1,1-Dichloroethene	16	Not Detected	63	Not Detected
Acetone	160	Not Detected	380	Not Detected
2-Propanol	64	Not Detected	160	Not Detected
Carbon Disulfide	64	Not Detected	200	Not Detected
3-Chloropropene	64	Not Detected	200	Not Detected
Methylene Chloride	160	Not Detected	550	Not Detected
Methyl tert-butyl ether	16	Not Detected	57	Not Detected
trans-1,2-Dichloroethene	16	Not Detected	63	Not Detected
Hexane	16	760	56	2700
1,1-Dichloroethane	16	Not Detected	64	Not Detected
2-Butanone (Methyl Ethyl Ketone)	64	Not Detected	190	Not Detected
cis-1,2-Dichloroethene	16	Not Detected	63	Not Detected
Tetrahydrofuran	16	Not Detected	47	Not Detected
Chloroform	16	Not Detected	78	Not Detected
1,1,1-Trichloroethane	16	Not Detected	87	Not Detected
Cyclohexane	16	3600	55	12000
Carbon Tetrachloride	16	Not Detected	100	Not Detected
2,2,4-Trimethylpentane	16	Not Detected	74	Not Detected
Benzene	16	Not Detected	51	Not Detected
1,2-Dichloroethane	16	Not Detected	64	Not Detected
Heptane	16	190	65	800
Trichloroethene	16	Not Detected	85	Not Detected
1,2-Dichloropropane	16	Not Detected	73	Not Detected
1,4-Dioxane	64	Not Detected	230	Not Detected
Bromodichloromethane	16	Not Detected	110	Not Detected
cis-1,3-Dichloropropene	16	Not Detected	72	Not Detected
4-Methyl-2-pentanone	16	Not Detected	65	Not Detected
Toluene	16	19	60	71
trans-1,3-Dichloropropene	16	Not Detected	72	Not Detected
1,1,2-Trichloroethane	16	Not Detected	87	Not Detected
Tetrachloroethene	16	Not Detected	110	Not Detected
2-Hexanone	64	Not Detected	260	Not Detected

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Client Sample ID: SV-1-10-001

Lab ID#: 1311079A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17111827**	**Date of Collection:**	**10/29/13 5:21:00 PM**
Dil. Factor:	**31.8**	**Date of Analysis:**	**11/18/13 09:46 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	16	Not Detected	140	Not Detected
1,2-Dibromoethane (EDB)	16	Not Detected	120	Not Detected
Chlorobenzene	16	Not Detected	73	Not Detected
Ethyl Benzene	16	Not Detected	69	Not Detected
m,p-Xylene	16	Not Detected	69	Not Detected
o-Xylene	16	Not Detected	69	Not Detected
Styrene	16	Not Detected	68	Not Detected
Bromoform	16	Not Detected	160	Not Detected
Cumene	16	45	78	220
1,1,2,2-Tetrachloroethane	16	Not Detected	110	Not Detected
Propylbenzene	16	21	78	100
4-Ethyltoluene	16	29	78	140
1,3,5-Trimethylbenzene	16	18	78	87
1,2,4-Trimethylbenzene	16	41	78	200
1,3-Dichlorobenzene	16	Not Detected	96	Not Detected
1,4-Dichlorobenzene	16	Not Detected	96	Not Detected
alpha-Chlorotoluene	16	Not Detected	82	Not Detected
1,2-Dichlorobenzene	16	Not Detected	96	Not Detected
1,2,4-Trichlorobenzene	64	Not Detected	470	Not Detected
Hexachlorobutadiene	64	Not Detected	680	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	126	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: SV-2-5-001

Lab ID#: 1311079A-03A

EPA METHOD TO-15 GC/MS

File Name:	**14111917**	**Date of Collection:**	**10/29/13 4:16:00 PM**
Dil. Factor:	**13.1**	**Date of Analysis:**	**11/19/13 07:54 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	66	Not Detected	320	Not Detected
Freon 114	66	Not Detected	460	Not Detected
Chloromethane	260	Not Detected	540	Not Detected
Vinyl Chloride	66	Not Detected	170	Not Detected
1,3-Butadiene	66	Not Detected	140	Not Detected
Bromomethane	66	Not Detected	250	Not Detected
Chloroethane	260	Not Detected	690	Not Detected
Freon 11	66	Not Detected	370	Not Detected
Ethanol	260	Not Detected	490	Not Detected
Freon 113	66	Not Detected	500	Not Detected
1,1-Dichloroethene	66	Not Detected	260	Not Detected
Acetone	260	Not Detected	620	Not Detected
2-Propanol	260	Not Detected	640	Not Detected
Carbon Disulfide	66	Not Detected	200	Not Detected
3-Chloropropene	260	Not Detected	820	Not Detected
Methylene Chloride	66	Not Detected	230	Not Detected
Methyl tert-butyl ether	66	Not Detected	240	Not Detected
trans-1,2-Dichloroethene	66	Not Detected	260	Not Detected
Hexane	66	360	230	1300
1,1-Dichloroethane	66	Not Detected	260	Not Detected
2-Butanone (Methyl Ethyl Ketone)	260	Not Detected	770	Not Detected
cis-1,2-Dichloroethene	66	Not Detected	260	Not Detected
Tetrahydrofuran	66	Not Detected	190	Not Detected
Chloroform	66	Not Detected	320	Not Detected
1,1,1-Trichloroethane	66	Not Detected	360	Not Detected
Cyclohexane	66	2800	220	9500
Carbon Tetrachloride	66	Not Detected	410	Not Detected
2,2,4-Trimethylpentane	66	Not Detected	300	Not Detected
Benzene	66	120	210	370
1,2-Dichloroethane	66	Not Detected	260	Not Detected
Heptane	66	100	270	410
Trichloroethene	66	Not Detected	350	Not Detected
1,2-Dichloropropane	66	Not Detected	300	Not Detected
1,4-Dioxane	260	Not Detected	940	Not Detected
Bromodichloromethane	66	Not Detected	440	Not Detected
cis-1,3-Dichloropropene	66	Not Detected	300	Not Detected
4-Methyl-2-pentanone	66	Not Detected	270	Not Detected
Toluene	66	Not Detected	250	Not Detected
trans-1,3-Dichloropropene	66	Not Detected	300	Not Detected
1,1,2-Trichloroethane	66	Not Detected	360	Not Detected
Tetrachloroethene	66	Not Detected	440	Not Detected
2-Hexanone	260	Not Detected	1100	Not Detected

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Client Sample ID: SV-2-5-001

Lab ID#: 1311079A-03A

EPA METHOD TO-15 GC/MS

File Name:	**14111917**	**Date of Collection:**	**10/29/13 4:16:00 PM**
Dil. Factor:	**13.1**	**Date of Analysis:**	**11/19/13 07:54 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	66	Not Detected	560	Not Detected
1,2-Dibromoethane (EDB)	66	Not Detected	500	Not Detected
Chlorobenzene	66	Not Detected	300	Not Detected
Ethyl Benzene	66	Not Detected	280	Not Detected
m,p-Xylene	66	Not Detected	280	Not Detected
o-Xylene	66	Not Detected	280	Not Detected
Styrene	66	Not Detected	280	Not Detected
Bromoform	66	Not Detected	680	Not Detected
Cumene	66	Not Detected	320	Not Detected
1,1,2,2-Tetrachloroethane	66	Not Detected	450	Not Detected
Propylbenzene	66	Not Detected	320	Not Detected
4-Ethyltoluene	66	Not Detected	320	Not Detected
1,3,5-Trimethylbenzene	66	Not Detected	320	Not Detected
1,2,4-Trimethylbenzene	66	Not Detected	320	Not Detected
1,3-Dichlorobenzene	66	Not Detected	390	Not Detected
1,4-Dichlorobenzene	66	Not Detected	390	Not Detected
alpha-Chlorotoluene	66	Not Detected	340	Not Detected
1,2-Dichlorobenzene	66	Not Detected	390	Not Detected
1,2,4-Trichlorobenzene	260	Not Detected	1900	Not Detected
Hexachlorobutadiene	260	Not Detected	2800	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	94	70-130

eurofins | Air Toxics

Client Sample ID: SV-2-10-001

Lab ID#: 1311079A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111809**	**Date of Collection:**	**10/29/13 4:07:00 PM**
Dil. Factor:	**3.24**	**Date of Analysis:**	**11/18/13 02:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.6	Not Detected	8.0	Not Detected
Freon 114	1.6	Not Detected	11	Not Detected
Chloromethane	16	Not Detected	33	Not Detected
Vinyl Chloride	1.6	Not Detected	4.1	Not Detected
1,3-Butadiene	1.6	3.1	3.6	6.8
Bromomethane	16	Not Detected	63	Not Detected
Chloroethane	6.5	Not Detected	17	Not Detected
Freon 11	1.6	Not Detected	9.1	Not Detected
Ethanol	6.5	Not Detected	12	Not Detected
Freon 113	1.6	Not Detected	12	Not Detected
1,1-Dichloroethene	1.6	Not Detected	6.4	Not Detected
Acetone	16	62	38	150
2-Propanol	6.5	11	16	27
Carbon Disulfide	6.5	Not Detected	20	Not Detected
3-Chloropropene	6.5	Not Detected	20	Not Detected
Methylene Chloride	16	Not Detected	56	Not Detected
Methyl tert-butyl ether	1.6	Not Detected	5.8	Not Detected
trans-1,2-Dichloroethene	1.6	Not Detected	6.4	Not Detected
Hexane	1.6	13	5.7	47
1,1-Dichloroethane	1.6	Not Detected	6.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.5	7.9	19	23
cis-1,2-Dichloroethene	1.6	Not Detected	6.4	Not Detected
Tetrahydrofuran	1.6	Not Detected	4.8	Not Detected
Chloroform	1.6	Not Detected	7.9	Not Detected
1,1,1-Trichloroethane	1.6	Not Detected	8.8	Not Detected
Cyclohexane	1.6	150	5.6	530
Carbon Tetrachloride	1.6	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	1.6	Not Detected	7.6	Not Detected
Benzene	1.6	3.0	5.2	9.8
1,2-Dichloroethane	1.6	Not Detected	6.6	Not Detected
Heptane	1.6	4.0	6.6	16
Trichloroethene	1.6	Not Detected	8.7	Not Detected
1,2-Dichloropropane	1.6	Not Detected	7.5	Not Detected
1,4-Dioxane	6.5	Not Detected	23	Not Detected
Bromodichloromethane	1.6	Not Detected	11	Not Detected
cis-1,3-Dichloropropene	1.6	Not Detected	7.4	Not Detected
4-Methyl-2-pentanone	1.6	Not Detected	6.6	Not Detected
Toluene	1.6	2.4	6.1	9.2
trans-1,3-Dichloropropene	1.6	Not Detected	7.4	Not Detected
1,1,2-Trichloroethane	1.6	Not Detected	8.8	Not Detected
Tetrachloroethene	1.6	Not Detected	11	Not Detected
2-Hexanone	6.5	Not Detected	26	Not Detected

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Client Sample ID: SV-2-10-001

Lab ID#: 1311079A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111809**	**Date of Collection:**	**10/29/13 4:07:00 PM**
Dil. Factor:	**3.24**	**Date of Analysis:**	**11/18/13 02:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.6	Not Detected	14	Not Detected
1,2-Dibromoethane (EDB)	1.6	Not Detected	12	Not Detected
Chlorobenzene	1.6	Not Detected	7.4	Not Detected
Ethyl Benzene	1.6	Not Detected	7.0	Not Detected
m,p-Xylene	1.6	1.6	7.0	7.0
o-Xylene	1.6	Not Detected	7.0	Not Detected
Styrene	1.6	Not Detected	6.9	Not Detected
Bromoform	1.6	Not Detected	17	Not Detected
Cumene	1.6	Not Detected	8.0	Not Detected
1,1,2,2-Tetrachloroethane	1.6	Not Detected	11	Not Detected
Propylbenzene	1.6	Not Detected	8.0	Not Detected
4-Ethyltoluene	1.6	Not Detected	8.0	Not Detected
1,3,5-Trimethylbenzene	1.6	Not Detected	8.0	Not Detected
1,2,4-Trimethylbenzene	1.6	Not Detected	8.0	Not Detected
1,3-Dichlorobenzene	1.6	Not Detected	9.7	Not Detected
1,4-Dichlorobenzene	1.6	Not Detected	9.7	Not Detected
alpha-Chlorotoluene	1.6	Not Detected	8.4	Not Detected
1,2-Dichlorobenzene	1.6	Not Detected	9.7	Not Detected
1,2,4-Trichlorobenzene	6.5	Not Detected	48	Not Detected
Hexachlorobutadiene	6.5	Not Detected	69	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	93	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: SV-3-5-001

Lab ID#: 1311079A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17111824**	**Date of Collection:**	**10/30/13 3:11:00 PM**
Dil. Factor:	**16.0**	**Date of Analysis:**	**11/18/13 08:41 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	8.0	Not Detected	40	Not Detected
Freon 114	8.0	Not Detected	56	Not Detected
Chloromethane	80	Not Detected	160	Not Detected
Vinyl Chloride	8.0	Not Detected	20	Not Detected
1,3-Butadiene	8.0	Not Detected	18	Not Detected
Bromomethane	80	Not Detected	310	Not Detected
Chloroethane	32	Not Detected	84	Not Detected
Freon 11	8.0	Not Detected	45	Not Detected
Ethanol	32	Not Detected	60	Not Detected
Freon 113	8.0	Not Detected	61	Not Detected
1,1-Dichloroethene	8.0	Not Detected	32	Not Detected
Acetone	80	1000	190	2400
2-Propanol	32	10000 E	79	25000 E
Carbon Disulfide	32	Not Detected	100	Not Detected
3-Chloropropene	32	Not Detected	100	Not Detected
Methylene Chloride	80	Not Detected	280	Not Detected
Methyl tert-butyl ether	8.0	Not Detected	29	Not Detected
trans-1,2-Dichloroethene	8.0	Not Detected	32	Not Detected
Hexane	8.0	Not Detected	28	Not Detected
1,1-Dichloroethane	8.0	Not Detected	32	Not Detected
2-Butanone (Methyl Ethyl Ketone)	32	Not Detected	94	Not Detected
cis-1,2-Dichloroethene	8.0	Not Detected	32	Not Detected
Tetrahydrofuran	8.0	Not Detected	24	Not Detected
Chloroform	8.0	Not Detected	39	Not Detected
1,1,1-Trichloroethane	8.0	Not Detected	44	Not Detected
Cyclohexane	8.0	Not Detected	28	Not Detected
Carbon Tetrachloride	8.0	Not Detected	50	Not Detected
2,2,4-Trimethylpentane	8.0	Not Detected	37	Not Detected
Benzene	8.0	Not Detected	26	Not Detected
1,2-Dichloroethane	8.0	Not Detected	32	Not Detected
Heptane	8.0	Not Detected	33	Not Detected
Trichloroethene	8.0	Not Detected	43	Not Detected
1,2-Dichloropropane	8.0	Not Detected	37	Not Detected
1,4-Dioxane	32	Not Detected	120	Not Detected
Bromodichloromethane	8.0	Not Detected	54	Not Detected
cis-1,3-Dichloropropene	8.0	Not Detected	36	Not Detected
4-Methyl-2-pentanone	8.0	Not Detected	33	Not Detected
Toluene	8.0	Not Detected	30	Not Detected
trans-1,3-Dichloropropene	8.0	Not Detected	36	Not Detected
1,1,2-Trichloroethane	8.0	Not Detected	44	Not Detected
Tetrachloroethene	8.0	Not Detected	54	Not Detected
2-Hexanone	32	Not Detected	130	Not Detected

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Client Sample ID: SV-3-5-001

Lab ID#: 1311079A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17111824**	**Date of Collection:**	**10/30/13 3:11:00 PM**
Dil. Factor:	**16.0**	**Date of Analysis:**	**11/18/13 08:41 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	8.0	Not Detected	68	Not Detected
1,2-Dibromoethane (EDB)	8.0	Not Detected	61	Not Detected
Chlorobenzene	8.0	Not Detected	37	Not Detected
Ethyl Benzene	8.0	Not Detected	35	Not Detected
m,p-Xylene	8.0	Not Detected	35	Not Detected
o-Xylene	8.0	Not Detected	35	Not Detected
Styrene	8.0	Not Detected	34	Not Detected
Bromoform	8.0	Not Detected	83	Not Detected
Cumene	8.0	Not Detected	39	Not Detected
1,1,2,2-Tetrachloroethane	8.0	Not Detected	55	Not Detected
Propylbenzene	8.0	Not Detected	39	Not Detected
4-Ethyltoluene	8.0	Not Detected	39	Not Detected
1,3,5-Trimethylbenzene	8.0	Not Detected	39	Not Detected
1,2,4-Trimethylbenzene	8.0	Not Detected	39	Not Detected
1,3-Dichlorobenzene	8.0	Not Detected	48	Not Detected
1,4-Dichlorobenzene	8.0	Not Detected	48	Not Detected
alpha-Chlorotoluene	8.0	Not Detected	41	Not Detected
1,2-Dichlorobenzene	8.0	Not Detected	48	Not Detected
1,2,4-Trichlorobenzene	32	Not Detected	240	Not Detected
Hexachlorobutadiene	32	Not Detected	340	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: SV-3-10-001

Lab ID#: 1311079A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17111822**	**Date of Collection:**	**10/30/13 2:58:00 PM**
Dil. Factor:	**10.0**	**Date of Analysis:**	**11/18/13 07:58 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	50	Not Detected	100	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	50	Not Detected	190	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	50	780	120	1800
2-Propanol	20	9300 E	49	23000 E
Carbon Disulfide	20	Not Detected	62	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	50	Not Detected	170	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected

eurofins | Air Toxics

Client Sample ID: SV-3-10-001

Lab ID#: 1311079A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17111822**	**Date of Collection:**	**10/30/13 2:58:00 PM**
Dil. Factor:	**10.0**	**Date of Analysis:**	**11/18/13 07:58 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: SV-3-10-002

Lab ID#: 1311079A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17111823**	**Date of Collection:**	**10/30/13 2:58:00 PM**
Dil. Factor:	**10.5**	**Date of Analysis:**	**11/18/13 08:20 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.2	Not Detected	26	Not Detected
Freon 114	5.2	Not Detected	37	Not Detected
Chloromethane	52	Not Detected	110	Not Detected
Vinyl Chloride	5.2	Not Detected	13	Not Detected
1,3-Butadiene	5.2	Not Detected	12	Not Detected
Bromomethane	52	Not Detected	200	Not Detected
Chloroethane	21	Not Detected	55	Not Detected
Freon 11	5.2	Not Detected	29	Not Detected
Ethanol	21	Not Detected	40	Not Detected
Freon 113	5.2	Not Detected	40	Not Detected
1,1-Dichloroethene	5.2	Not Detected	21	Not Detected
Acetone	52	790	120	1900
2-Propanol	21	9300 E	52	23000 E
Carbon Disulfide	21	Not Detected	65	Not Detected
3-Chloropropene	21	Not Detected	66	Not Detected
Methylene Chloride	52	Not Detected	180	Not Detected
Methyl tert-butyl ether	5.2	Not Detected	19	Not Detected
trans-1,2-Dichloroethene	5.2	Not Detected	21	Not Detected
Hexane	5.2	Not Detected	18	Not Detected
1,1-Dichloroethane	5.2	Not Detected	21	Not Detected
2-Butanone (Methyl Ethyl Ketone)	21	Not Detected	62	Not Detected
cis-1,2-Dichloroethene	5.2	Not Detected	21	Not Detected
Tetrahydrofuran	5.2	Not Detected	15	Not Detected
Chloroform	5.2	Not Detected	26	Not Detected
1,1,1-Trichloroethane	5.2	Not Detected	29	Not Detected
Cyclohexane	5.2	Not Detected	18	Not Detected
Carbon Tetrachloride	5.2	Not Detected	33	Not Detected
2,2,4-Trimethylpentane	5.2	Not Detected	24	Not Detected
Benzene	5.2	Not Detected	17	Not Detected
1,2-Dichloroethane	5.2	Not Detected	21	Not Detected
Heptane	5.2	Not Detected	22	Not Detected
Trichloroethene	5.2	Not Detected	28	Not Detected
1,2-Dichloropropane	5.2	Not Detected	24	Not Detected
1,4-Dioxane	21	Not Detected	76	Not Detected
Bromodichloromethane	5.2	Not Detected	35	Not Detected
cis-1,3-Dichloropropene	5.2	Not Detected	24	Not Detected
4-Methyl-2-pentanone	5.2	Not Detected	22	Not Detected
Toluene	5.2	Not Detected	20	Not Detected
trans-1,3-Dichloropropene	5.2	Not Detected	24	Not Detected
1,1,2-Trichloroethane	5.2	Not Detected	29	Not Detected
Tetrachloroethene	5.2	Not Detected	36	Not Detected
2-Hexanone	21	Not Detected	86	Not Detected

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Client Sample ID: SV-3-10-002

Lab ID#: 1311079A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17111823**	**Date of Collection:**	**10/30/13 2:58:00 PM**
Dil. Factor:	**10.5**	**Date of Analysis:**	**11/18/13 08:20 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.2	Not Detected	45	Not Detected
1,2-Dibromoethane (EDB)	5.2	Not Detected	40	Not Detected
Chlorobenzene	5.2	Not Detected	24	Not Detected
Ethyl Benzene	5.2	Not Detected	23	Not Detected
m,p-Xylene	5.2	Not Detected	23	Not Detected
o-Xylene	5.2	Not Detected	23	Not Detected
Styrene	5.2	Not Detected	22	Not Detected
Bromoform	5.2	Not Detected	54	Not Detected
Cumene	5.2	Not Detected	26	Not Detected
1,1,2,2-Tetrachloroethane	5.2	Not Detected	36	Not Detected
Propylbenzene	5.2	Not Detected	26	Not Detected
4-Ethyltoluene	5.2	Not Detected	26	Not Detected
1,3,5-Trimethylbenzene	5.2	Not Detected	26	Not Detected
1,2,4-Trimethylbenzene	5.2	Not Detected	26	Not Detected
1,3-Dichlorobenzene	5.2	Not Detected	32	Not Detected
1,4-Dichlorobenzene	5.2	Not Detected	32	Not Detected
alpha-Chlorotoluene	5.2	Not Detected	27	Not Detected
1,2-Dichlorobenzene	5.2	Not Detected	32	Not Detected
1,2,4-Trichlorobenzene	21	Not Detected	160	Not Detected
Hexachlorobutadiene	21	Not Detected	220	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: SV-4-5-001

Lab ID#: 1311079A-08A

EPA METHOD TO-15 GC/MS

File Name:	**14111828**	**Date of Collection:**	**10/31/13 12:03:00 P**
Dil. Factor:	**7.90**	**Date of Analysis:**	**11/19/13 06:36 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	40	Not Detected	200	Not Detected
Freon 114	40	Not Detected	280	Not Detected
Chloromethane	160	Not Detected	330	Not Detected
Vinyl Chloride	40	Not Detected	100	Not Detected
1,3-Butadiene	40	Not Detected	87	Not Detected
Bromomethane	40	Not Detected	150	Not Detected
Chloroethane	160	Not Detected	420	Not Detected
Freon 11	40	Not Detected	220	Not Detected
Ethanol	160	Not Detected	300	Not Detected
Freon 113	40	Not Detected	300	Not Detected
1,1-Dichloroethene	40	Not Detected	160	Not Detected
Acetone	160	2700	380	6400
2-Propanol	160	25000	390	62000
Carbon Disulfide	40	Not Detected	120	Not Detected
3-Chloropropene	160	Not Detected	490	Not Detected
Methylene Chloride	40	Not Detected	140	Not Detected
Methyl tert-butyl ether	40	Not Detected	140	Not Detected
trans-1,2-Dichloroethene	40	Not Detected	160	Not Detected
Hexane	40	150	140	520
1,1-Dichloroethane	40	Not Detected	160	Not Detected
2-Butanone (Methyl Ethyl Ketone)	160	Not Detected	460	Not Detected
cis-1,2-Dichloroethene	40	Not Detected	160	Not Detected
Tetrahydrofuran	40	Not Detected	120	Not Detected
Chloroform	40	Not Detected	190	Not Detected
1,1,1-Trichloroethane	40	Not Detected	220	Not Detected
Cyclohexane	40	1800	140	6400
Carbon Tetrachloride	40	Not Detected	250	Not Detected
2,2,4-Trimethylpentane	40	Not Detected	180	Not Detected
Benzene	40	Not Detected	130	Not Detected
1,2-Dichloroethane	40	Not Detected	160	Not Detected
Heptane	40	82	160	340
Trichloroethene	40	Not Detected	210	Not Detected
1,2-Dichloropropane	40	Not Detected	180	Not Detected
1,4-Dioxane	160	Not Detected	570	Not Detected
Bromodichloromethane	40	Not Detected	260	Not Detected
cis-1,3-Dichloropropene	40	Not Detected	180	Not Detected
4-Methyl-2-pentanone	40	Not Detected	160	Not Detected
Toluene	40	Not Detected	150	Not Detected
trans-1,3-Dichloropropene	40	Not Detected	180	Not Detected
1,1,2-Trichloroethane	40	Not Detected	220	Not Detected
Tetrachloroethene	40	Not Detected	270	Not Detected
2-Hexanone	160	Not Detected	650	Not Detected

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Client Sample ID: SV-4-5-001

Lab ID#: 1311079A-08A

EPA METHOD TO-15 GC/MS

File Name:	**14111828**	**Date of Collection:**	**10/31/13 12:03:00 P**
Dil. Factor:	**7.90**	**Date of Analysis:**	**11/19/13 06:36 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	40	Not Detected	340	Not Detected
1,2-Dibromoethane (EDB)	40	Not Detected	300	Not Detected
Chlorobenzene	40	Not Detected	180	Not Detected
Ethyl Benzene	40	Not Detected	170	Not Detected
m,p-Xylene	40	Not Detected	170	Not Detected
o-Xylene	40	Not Detected	170	Not Detected
Styrene	40	Not Detected	170	Not Detected
Bromoform	40	Not Detected	410	Not Detected
Cumene	40	130	190	630
1,1,2,2-Tetrachloroethane	40	Not Detected	270	Not Detected
Propylbenzene	40	Not Detected	190	Not Detected
4-Ethyltoluene	40	Not Detected	190	Not Detected
1,3,5-Trimethylbenzene	40	Not Detected	190	Not Detected
1,2,4-Trimethylbenzene	40	Not Detected	190	Not Detected
1,3-Dichlorobenzene	40	Not Detected	240	Not Detected
1,4-Dichlorobenzene	40	Not Detected	240	Not Detected
alpha-Chlorotoluene	40	Not Detected	200	Not Detected
1,2-Dichlorobenzene	40	Not Detected	240	Not Detected
1,2,4-Trichlorobenzene	160	Not Detected	1200	Not Detected
Hexachlorobutadiene	160	Not Detected	1700	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	113	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: SV-4-10-001

Lab ID#: 1311079A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17111826**	**Date of Collection:**	**10/31/13 11:44:00 A**
Dil. Factor:	**31.0**	**Date of Analysis:**	**11/18/13 09:25 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	16	Not Detected	77	Not Detected
Freon 114	16	Not Detected	110	Not Detected
Chloromethane	160	Not Detected	320	Not Detected
Vinyl Chloride	16	Not Detected	40	Not Detected
1,3-Butadiene	16	Not Detected	34	Not Detected
Bromomethane	160	Not Detected	600	Not Detected
Chloroethane	62	Not Detected	160	Not Detected
Freon 11	16	Not Detected	87	Not Detected
Ethanol	62	Not Detected	120	Not Detected
Freon 113	16	Not Detected	120	Not Detected
1,1-Dichloroethene	16	Not Detected	61	Not Detected
Acetone	160	Not Detected	370	Not Detected
2-Propanol	62	470	150	1200
Carbon Disulfide	62	Not Detected	190	Not Detected
3-Chloropropene	62	Not Detected	190	Not Detected
Methylene Chloride	160	Not Detected	540	Not Detected
Methyl tert-butyl ether	16	Not Detected	56	Not Detected
trans-1,2-Dichloroethene	16	Not Detected	61	Not Detected
Hexane	16	280	55	1000
1,1-Dichloroethane	16	Not Detected	63	Not Detected
2-Butanone (Methyl Ethyl Ketone)	62	Not Detected	180	Not Detected
cis-1,2-Dichloroethene	16	Not Detected	61	Not Detected
Tetrahydrofuran	16	Not Detected	46	Not Detected
Chloroform	16	Not Detected	76	Not Detected
1,1,1-Trichloroethane	16	Not Detected	84	Not Detected
Cyclohexane	16	2000	53	6800
Carbon Tetrachloride	16	Not Detected	98	Not Detected
2,2,4-Trimethylpentane	16	Not Detected	72	Not Detected
Benzene	16	18	50	57
1,2-Dichloroethane	16	Not Detected	63	Not Detected
Heptane	16	81	64	330
Trichloroethene	16	Not Detected	83	Not Detected
1,2-Dichloropropane	16	Not Detected	72	Not Detected
1,4-Dioxane	62	Not Detected	220	Not Detected
Bromodichloromethane	16	Not Detected	100	Not Detected
cis-1,3-Dichloropropene	16	Not Detected	70	Not Detected
4-Methyl-2-pentanone	16	Not Detected	63	Not Detected
Toluene	16	17	58	64
trans-1,3-Dichloropropene	16	Not Detected	70	Not Detected
1,1,2-Trichloroethane	16	Not Detected	84	Not Detected
Tetrachloroethene	16	Not Detected	100	Not Detected
2-Hexanone	62	Not Detected	250	Not Detected

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Client Sample ID: SV-4-10-001

Lab ID#: 1311079A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17111826**	**Date of Collection:**	**10/31/13 11:44:00 A**
Dil. Factor:	**31.0**	**Date of Analysis:**	**11/18/13 09:25 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	16	Not Detected	130	Not Detected
1,2-Dibromoethane (EDB)	16	Not Detected	120	Not Detected
Chlorobenzene	16	Not Detected	71	Not Detected
Ethyl Benzene	16	Not Detected	67	Not Detected
m,p-Xylene	16	Not Detected	67	Not Detected
o-Xylene	16	Not Detected	67	Not Detected
Styrene	16	Not Detected	66	Not Detected
Bromoform	16	Not Detected	160	Not Detected
Cumene	16	Not Detected	76	Not Detected
1,1,2,2-Tetrachloroethane	16	Not Detected	110	Not Detected
Propylbenzene	16	Not Detected	76	Not Detected
4-Ethyltoluene	16	Not Detected	76	Not Detected
1,3,5-Trimethylbenzene	16	Not Detected	76	Not Detected
1,2,4-Trimethylbenzene	16	Not Detected	76	Not Detected
1,3-Dichlorobenzene	16	Not Detected	93	Not Detected
1,4-Dichlorobenzene	16	Not Detected	93	Not Detected
alpha-Chlorotoluene	16	Not Detected	80	Not Detected
1,2-Dichlorobenzene	16	Not Detected	93	Not Detected
1,2,4-Trichlorobenzene	62	Not Detected	460	Not Detected
Hexachlorobutadiene	62	Not Detected	660	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	110	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: SV-5-5-001

Lab ID#: 1311079A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111811**	**Date of Collection:**	**10/30/13 10:22:00 A**
Dil. Factor:	**16.4**	**Date of Analysis:**	**11/18/13 03:48 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	8.2	Not Detected	40	Not Detected
Freon 114	8.2	Not Detected	57	Not Detected
Chloromethane	82	Not Detected	170	Not Detected
Vinyl Chloride	8.2	51	21	130
1,3-Butadiene	8.2	Not Detected	18	Not Detected
Bromomethane	82	Not Detected	320	Not Detected
Chloroethane	33	Not Detected	86	Not Detected
Freon 11	8.2	Not Detected	46	Not Detected
Ethanol	33	Not Detected	62	Not Detected
Freon 113	8.2	Not Detected	63	Not Detected
1,1-Dichloroethene	8.2	Not Detected	32	Not Detected
Acetone	82	Not Detected	190	Not Detected
2-Propanol	33	Not Detected	81	Not Detected
Carbon Disulfide	33	Not Detected	100	Not Detected
3-Chloropropene	33	Not Detected	100	Not Detected
Methylene Chloride	82	Not Detected	280	Not Detected
Methyl tert-butyl ether	8.2	Not Detected	30	Not Detected
trans-1,2-Dichloroethene	8.2	Not Detected	32	Not Detected
Hexane	8.2	560	29	2000
1,1-Dichloroethane	8.2	Not Detected	33	Not Detected
2-Butanone (Methyl Ethyl Ketone)	33	Not Detected	97	Not Detected
cis-1,2-Dichloroethene	8.2	Not Detected	32	Not Detected
Tetrahydrofuran	8.2	Not Detected	24	Not Detected
Chloroform	8.2	Not Detected	40	Not Detected
1,1,1-Trichloroethane	8.2	Not Detected	45	Not Detected
Cyclohexane	8.2	430	28	1500
Carbon Tetrachloride	8.2	Not Detected	52	Not Detected
2,2,4-Trimethylpentane	8.2	Not Detected	38	Not Detected
Benzene	8.2	39	26	120
1,2-Dichloroethane	8.2	Not Detected	33	Not Detected
Heptane	8.2	290	34	1200
Trichloroethene	8.2	Not Detected	44	Not Detected
1,2-Dichloropropane	8.2	Not Detected	38	Not Detected
1,4-Dioxane	33	Not Detected	120	Not Detected
Bromodichloromethane	8.2	Not Detected	55	Not Detected
cis-1,3-Dichloropropene	8.2	Not Detected	37	Not Detected
4-Methyl-2-pentanone	8.2	Not Detected	34	Not Detected
Toluene	8.2	15	31	58
trans-1,3-Dichloropropene	8.2	Not Detected	37	Not Detected
1,1,2-Trichloroethane	8.2	Not Detected	45	Not Detected
Tetrachloroethene	8.2	Not Detected	56	Not Detected
2-Hexanone	33	Not Detected	130	Not Detected

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Client Sample ID: SV-5-5-001

Lab ID#: 1311079A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111811**	**Date of Collection:**	**10/30/13 10:22:00 A**
Dil. Factor:	**16.4**	**Date of Analysis:**	**11/18/13 03:48 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	8.2	Not Detected	70	Not Detected
1,2-Dibromoethane (EDB)	8.2	Not Detected	63	Not Detected
Chlorobenzene	8.2	Not Detected	38	Not Detected
Ethyl Benzene	8.2	Not Detected	36	Not Detected
m,p-Xylene	8.2	11	36	48
o-Xylene	8.2	Not Detected	36	Not Detected
Styrene	8.2	Not Detected	35	Not Detected
Bromoform	8.2	Not Detected	85	Not Detected
Cumene	8.2	Not Detected	40	Not Detected
1,1,2,2-Tetrachloroethane	8.2	Not Detected	56	Not Detected
Propylbenzene	8.2	Not Detected	40	Not Detected
4-Ethyltoluene	8.2	Not Detected	40	Not Detected
1,3,5-Trimethylbenzene	8.2	Not Detected	40	Not Detected
1,2,4-Trimethylbenzene	8.2	Not Detected	40	Not Detected
1,3-Dichlorobenzene	8.2	Not Detected	49	Not Detected
1,4-Dichlorobenzene	8.2	Not Detected	49	Not Detected
alpha-Chlorotoluene	8.2	Not Detected	42	Not Detected
1,2-Dichlorobenzene	8.2	Not Detected	49	Not Detected
1,2,4-Trichlorobenzene	33	Not Detected	240	Not Detected
Hexachlorobutadiene	33	Not Detected	350	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	82	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: SV-5-10-001

Lab ID#: 1311079A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111810**	**Date of Collection:**	**10/30/13 10:06:00 A**
Dil. Factor:	**15.3**	**Date of Analysis:**	**11/18/13 03:12 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	7.6	Not Detected	38	Not Detected
Freon 114	7.6	Not Detected	53	Not Detected
Chloromethane	76	Not Detected	160	Not Detected
Vinyl Chloride	7.6	35	20	90
1,3-Butadiene	7.6	Not Detected	17	Not Detected
Bromomethane	76	Not Detected	300	Not Detected
Chloroethane	31	Not Detected	81	Not Detected
Freon 11	7.6	Not Detected	43	Not Detected
Ethanol	31	Not Detected	58	Not Detected
Freon 113	7.6	Not Detected	59	Not Detected
1,1-Dichloroethene	7.6	Not Detected	30	Not Detected
Acetone	76	Not Detected	180	Not Detected
2-Propanol	31	Not Detected	75	Not Detected
Carbon Disulfide	31	Not Detected	95	Not Detected
3-Chloropropene	31	Not Detected	96	Not Detected
Methylene Chloride	76	Not Detected	260	Not Detected
Methyl tert-butyl ether	7.6	Not Detected	28	Not Detected
trans-1,2-Dichloroethene	7.6	Not Detected	30	Not Detected
Hexane	7.6	200	27	700
1,1-Dichloroethane	7.6	Not Detected	31	Not Detected
2-Butanone (Methyl Ethyl Ketone)	31	Not Detected	90	Not Detected
cis-1,2-Dichloroethene	7.6	Not Detected	30	Not Detected
Tetrahydrofuran	7.6	Not Detected	22	Not Detected
Chloroform	7.6	Not Detected	37	Not Detected
1,1,1-Trichloroethane	7.6	Not Detected	42	Not Detected
Cyclohexane	7.6	150	26	510
Carbon Tetrachloride	7.6	Not Detected	48	Not Detected
2,2,4-Trimethylpentane	7.6	Not Detected	36	Not Detected
Benzene	7.6	Not Detected	24	Not Detected
1,2-Dichloroethane	7.6	Not Detected	31	Not Detected
Heptane	7.6	66	31	270
Trichloroethene	7.6	Not Detected	41	Not Detected
1,2-Dichloropropane	7.6	Not Detected	35	Not Detected
1,4-Dioxane	31	Not Detected	110	Not Detected
Bromodichloromethane	7.6	Not Detected	51	Not Detected
cis-1,3-Dichloropropene	7.6	Not Detected	35	Not Detected
4-Methyl-2-pentanone	7.6	Not Detected	31	Not Detected
Toluene	7.6	Not Detected	29	Not Detected
trans-1,3-Dichloropropene	7.6	Not Detected	35	Not Detected
1,1,2-Trichloroethane	7.6	Not Detected	42	Not Detected
Tetrachloroethene	7.6	Not Detected	52	Not Detected
2-Hexanone	31	Not Detected	120	Not Detected

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Client Sample ID: SV-5-10-001

Lab ID#: 1311079A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111810**	**Date of Collection:**	**10/30/13 10:06:00 A**
Dil. Factor:	**15.3**	**Date of Analysis:**	**11/18/13 03:12 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	7.6	Not Detected	65	Not Detected
1,2-Dibromoethane (EDB)	7.6	Not Detected	59	Not Detected
Chlorobenzene	7.6	Not Detected	35	Not Detected
Ethyl Benzene	7.6	Not Detected	33	Not Detected
m,p-Xylene	7.6	Not Detected	33	Not Detected
o-Xylene	7.6	Not Detected	33	Not Detected
Styrene	7.6	Not Detected	32	Not Detected
Bromoform	7.6	Not Detected	79	Not Detected
Cumene	7.6	Not Detected	38	Not Detected
1,1,2,2-Tetrachloroethane	7.6	Not Detected	52	Not Detected
Propylbenzene	7.6	Not Detected	38	Not Detected
4-Ethyltoluene	7.6	Not Detected	38	Not Detected
1,3,5-Trimethylbenzene	7.6	Not Detected	38	Not Detected
1,2,4-Trimethylbenzene	7.6	Not Detected	38	Not Detected
1,3-Dichlorobenzene	7.6	Not Detected	46	Not Detected
1,4-Dichlorobenzene	7.6	Not Detected	46	Not Detected
alpha-Chlorotoluene	7.6	Not Detected	40	Not Detected
1,2-Dichlorobenzene	7.6	Not Detected	46	Not Detected
1,2,4-Trichlorobenzene	31	Not Detected	230	Not Detected
Hexachlorobutadiene	31	Not Detected	330	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	82	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: SV-6-5-001

Lab ID#: 1311079A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17111816**	**Date of Collection:**	**10/30/13 11:52:00 A**
Dil. Factor:	**1.64**	**Date of Analysis:**	**11/18/13 03:09 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.82	Not Detected	4.0	Not Detected
Freon 114	0.82	Not Detected	5.7	Not Detected
Chloromethane	8.2	Not Detected	17	Not Detected
Vinyl Chloride	0.82	Not Detected	2.1	Not Detected
1,3-Butadiene	0.82	Not Detected	1.8	Not Detected
Bromomethane	8.2	Not Detected	32	Not Detected
Chloroethane	3.3	Not Detected	8.6	Not Detected
Freon 11	0.82	Not Detected	4.6	Not Detected
Ethanol	3.3	14	6.2	26
Freon 113	0.82	Not Detected	6.3	Not Detected
1,1-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Acetone	8.2	19	19	45
2-Propanol	3.3	75	8.1	180
Carbon Disulfide	3.3	Not Detected	10	Not Detected
3-Chloropropene	3.3	Not Detected	10	Not Detected
Methylene Chloride	8.2	Not Detected	28	Not Detected
Methyl tert-butyl ether	0.82	Not Detected	3.0	Not Detected
trans-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Hexane	0.82	Not Detected	2.9	Not Detected
1,1-Dichloroethane	0.82	Not Detected	3.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.3	Not Detected	9.7	Not Detected
cis-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Tetrahydrofuran	0.82	Not Detected	2.4	Not Detected
Chloroform	0.82	Not Detected	4.0	Not Detected
1,1,1-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Cyclohexane	0.82	Not Detected	2.8	Not Detected
Carbon Tetrachloride	0.82	Not Detected	5.2	Not Detected
2,2,4-Trimethylpentane	0.82	Not Detected	3.8	Not Detected
Benzene	0.82	Not Detected	2.6	Not Detected
1,2-Dichloroethane	0.82	Not Detected	3.3	Not Detected
Heptane	0.82	Not Detected	3.4	Not Detected
Trichloroethene	0.82	Not Detected	4.4	Not Detected
1,2-Dichloropropane	0.82	Not Detected	3.8	Not Detected
1,4-Dioxane	3.3	Not Detected	12	Not Detected
Bromodichloromethane	0.82	Not Detected	5.5	Not Detected
cis-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
4-Methyl-2-pentanone	0.82	Not Detected	3.4	Not Detected
Toluene	0.82	Not Detected	3.1	Not Detected
trans-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
1,1,2-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Tetrachloroethene	0.82	Not Detected	5.6	Not Detected
2-Hexanone	3.3	Not Detected	13	Not Detected

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Client Sample ID: SV-6-5-001

Lab ID#: 1311079A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17111816**	**Date of Collection:**	**10/30/13 11:52:00 A**
Dil. Factor:	**1.64**	**Date of Analysis:**	**11/18/13 03:09 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.82	Not Detected	7.0	Not Detected
1,2-Dibromoethane (EDB)	0.82	Not Detected	6.3	Not Detected
Chlorobenzene	0.82	Not Detected	3.8	Not Detected
Ethyl Benzene	0.82	Not Detected	3.6	Not Detected
m,p-Xylene	0.82	Not Detected	3.6	Not Detected
o-Xylene	0.82	Not Detected	3.6	Not Detected
Styrene	0.82	Not Detected	3.5	Not Detected
Bromoform	0.82	Not Detected	8.5	Not Detected
Cumene	0.82	Not Detected	4.0	Not Detected
1,1,2,2-Tetrachloroethane	0.82	Not Detected	5.6	Not Detected
Propylbenzene	0.82	Not Detected	4.0	Not Detected
4-Ethyltoluene	0.82	Not Detected	4.0	Not Detected
1,3,5-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,4-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
alpha-Chlorotoluene	0.82	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,2,4-Trichlorobenzene	3.3	Not Detected	24	Not Detected
Hexachlorobutadiene	3.3	Not Detected	35	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: SV-6-10-001

Lab ID#: 1311079A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17111820**	**Date of Collection:**	**10/30/13 11:31:00 A**
Dil. Factor:	**1.58**	**Date of Analysis:**	**11/18/13 07:16 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.79	Not Detected	3.9	Not Detected
Freon 114	0.79	Not Detected	5.5	Not Detected
Chloromethane	7.9	Not Detected	16	Not Detected
Vinyl Chloride	0.79	Not Detected	2.0	Not Detected
1,3-Butadiene	0.79	Not Detected	1.7	Not Detected
Bromomethane	7.9	Not Detected	31	Not Detected
Chloroethane	3.2	Not Detected	8.3	Not Detected
Freon 11	0.79	Not Detected	4.4	Not Detected
Ethanol	3.2	Not Detected	6.0	Not Detected
Freon 113	0.79	Not Detected	6.0	Not Detected
1,1-Dichloroethene	0.79	Not Detected	3.1	Not Detected
Acetone	7.9	29	19	69
2-Propanol	3.2	8.6	7.8	21
Carbon Disulfide	3.2	Not Detected	9.8	Not Detected
3-Chloropropene	3.2	Not Detected	9.9	Not Detected
Methylene Chloride	7.9	Not Detected	27	Not Detected
Methyl tert-butyl ether	0.79	Not Detected	2.8	Not Detected
trans-1,2-Dichloroethene	0.79	Not Detected	3.1	Not Detected
Hexane	0.79	350 E	2.8	1200 E
1,1-Dichloroethane	0.79	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.2	4.0	9.3	12
cis-1,2-Dichloroethene	0.79	Not Detected	3.1	Not Detected
Tetrahydrofuran	0.79	Not Detected	2.3	Not Detected
Chloroform	0.79	Not Detected	3.8	Not Detected
1,1,1-Trichloroethane	0.79	Not Detected	4.3	Not Detected
Cyclohexane	0.79	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.79	Not Detected	5.0	Not Detected
2,2,4-Trimethylpentane	0.79	Not Detected	3.7	Not Detected
Benzene	0.79	3.6	2.5	12
1,2-Dichloroethane	0.79	Not Detected	3.2	Not Detected
Heptane	0.79	170	3.2	680
Trichloroethene	0.79	Not Detected	4.2	Not Detected
1,2-Dichloropropane	0.79	Not Detected	3.6	Not Detected
1,4-Dioxane	3.2	Not Detected	11	Not Detected
Bromodichloromethane	0.79	Not Detected	5.3	Not Detected
cis-1,3-Dichloropropene	0.79	Not Detected	3.6	Not Detected
4-Methyl-2-pentanone	0.79	Not Detected	3.2	Not Detected
Toluene	0.79	3.5	3.0	13
trans-1,3-Dichloropropene	0.79	Not Detected	3.6	Not Detected
1,1,2-Trichloroethane	0.79	Not Detected	4.3	Not Detected
Tetrachloroethene	0.79	Not Detected	5.4	Not Detected
2-Hexanone	3.2	Not Detected	13	Not Detected

eurofins | Air Toxics

Client Sample ID: SV-6-10-001

Lab ID#: 1311079A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17111820**	**Date of Collection:**	**10/30/13 11:31:00 A**
Dil. Factor:	**1.58**	**Date of Analysis:**	**11/18/13 07:16 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.79	Not Detected	6.7	Not Detected
1,2-Dibromoethane (EDB)	0.79	Not Detected	6.1	Not Detected
Chlorobenzene	0.79	Not Detected	3.6	Not Detected
Ethyl Benzene	0.79	0.89	3.4	3.8
m,p-Xylene	0.79	2.8	3.4	12
o-Xylene	0.79	1.1	3.4	4.8
Styrene	0.79	Not Detected	3.4	Not Detected
Bromoform	0.79	Not Detected	8.2	Not Detected
Cumene	0.79	Not Detected	3.9	Not Detected
1,1,2,2-Tetrachloroethane	0.79	Not Detected	5.4	Not Detected
Propylbenzene	0.79	Not Detected	3.9	Not Detected
4-Ethyltoluene	0.79	Not Detected	3.9	Not Detected
1,3,5-Trimethylbenzene	0.79	Not Detected	3.9	Not Detected
1,2,4-Trimethylbenzene	0.79	Not Detected	3.9	Not Detected
1,3-Dichlorobenzene	0.79	0.95	4.8	5.7
1,4-Dichlorobenzene	0.79	2.7	4.8	16
alpha-Chlorotoluene	0.79	Not Detected	4.1	Not Detected
1,2-Dichlorobenzene	0.79	Not Detected	4.7	Not Detected
1,2,4-Trichlorobenzene	3.2	Not Detected	23	Not Detected
Hexachlorobutadiene	3.2	Not Detected	34	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: SV-7-5-001

Lab ID#: 1311079A-14A

EPA METHOD TO-15 GC/MS

File Name:	**14111829**	**Date of Collection:**	**10/31/13 4:13:00 PM**
Dil. Factor:	**1.66**	**Date of Analysis:**	**11/19/13 07:02 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	8.3	Not Detected	41	Not Detected
Freon 114	8.3	Not Detected	58	Not Detected
Chloromethane	33	Not Detected	68	Not Detected
Vinyl Chloride	8.3	Not Detected	21	Not Detected
1,3-Butadiene	8.3	Not Detected	18	Not Detected
Bromomethane	8.3	Not Detected	32	Not Detected
Chloroethane	33	Not Detected	88	Not Detected
Freon 11	8.3	Not Detected	47	Not Detected
Ethanol	33	Not Detected	62	Not Detected
Freon 113	8.3	Not Detected	64	Not Detected
1,1-Dichloroethene	8.3	Not Detected	33	Not Detected
Acetone	33	3600	79	8500
2-Propanol	33	33000 E	82	80000 E
Carbon Disulfide	8.3	Not Detected	26	Not Detected
3-Chloropropene	33	Not Detected	100	Not Detected
Methylene Chloride	8.3	Not Detected	29	Not Detected
Methyl tert-butyl ether	8.3	Not Detected	30	Not Detected
trans-1,2-Dichloroethene	8.3	Not Detected	33	Not Detected
Hexane	8.3	Not Detected	29	Not Detected
1,1-Dichloroethane	8.3	Not Detected	34	Not Detected
2-Butanone (Methyl Ethyl Ketone)	33	Not Detected	98	Not Detected
cis-1,2-Dichloroethene	8.3	Not Detected	33	Not Detected
Tetrahydrofuran	8.3	Not Detected	24	Not Detected
Chloroform	8.3	Not Detected	40	Not Detected
1,1,1-Trichloroethane	8.3	Not Detected	45	Not Detected
Cyclohexane	8.3	18	28	61
Carbon Tetrachloride	8.3	Not Detected	52	Not Detected
2,2,4-Trimethylpentane	8.3	Not Detected	39	Not Detected
Benzene	8.3	Not Detected	26	Not Detected
1,2-Dichloroethane	8.3	Not Detected	34	Not Detected
Heptane	8.3	Not Detected	34	Not Detected
Trichloroethene	8.3	Not Detected	45	Not Detected
1,2-Dichloropropane	8.3	Not Detected	38	Not Detected
1,4-Dioxane	33	Not Detected	120	Not Detected
Bromodichloromethane	8.3	Not Detected	56	Not Detected
cis-1,3-Dichloropropene	8.3	Not Detected	38	Not Detected
4-Methyl-2-pentanone	8.3	Not Detected	34	Not Detected
Toluene	8.3	Not Detected	31	Not Detected
trans-1,3-Dichloropropene	8.3	Not Detected	38	Not Detected
1,1,2-Trichloroethane	8.3	Not Detected	45	Not Detected
Tetrachloroethene	8.3	Not Detected	56	Not Detected
2-Hexanone	33	Not Detected	140	Not Detected

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Client Sample ID: SV-7-5-001

Lab ID#: 1311079A-14A

EPA METHOD TO-15 GC/MS

File Name:	**14111829**	**Date of Collection:**	**10/31/13 4:13:00 PM**
Dil. Factor:	**1.66**	**Date of Analysis:**	**11/19/13 07:02 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	8.3	Not Detected	71	Not Detected
1,2-Dibromoethane (EDB)	8.3	Not Detected	64	Not Detected
Chlorobenzene	8.3	Not Detected	38	Not Detected
Ethyl Benzene	8.3	27	36	120
m,p-Xylene	8.3	Not Detected	36	Not Detected
o-Xylene	8.3	Not Detected	36	Not Detected
Styrene	8.3	Not Detected	35	Not Detected
Bromoform	8.3	Not Detected	86	Not Detected
Cumene	8.3	120	41	610
1,1,2,2-Tetrachloroethane	8.3	Not Detected	57	Not Detected
Propylbenzene	8.3	450	41	2200
4-Ethyltoluene	8.3	Not Detected	41	Not Detected
1,3,5-Trimethylbenzene	8.3	Not Detected	41	Not Detected
1,2,4-Trimethylbenzene	8.3	Not Detected	41	Not Detected
1,3-Dichlorobenzene	8.3	Not Detected	50	Not Detected
1,4-Dichlorobenzene	8.3	Not Detected	50	Not Detected
alpha-Chlorotoluene	8.3	Not Detected	43	Not Detected
1,2-Dichlorobenzene	8.3	Not Detected	50	Not Detected
1,2,4-Trichlorobenzene	33	Not Detected	250	Not Detected
Hexachlorobutadiene	33	Not Detected	350	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: SV-7-10-001

Lab ID#: 1311079A-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17111821**	**Date of Collection:**	**10/31/13 4:07:00 PM**
Dil. Factor:	**1.54**	**Date of Analysis:**	**11/18/13 07:37 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.77	Not Detected	3.8	Not Detected
Freon 114	0.77	Not Detected	5.4	Not Detected
Chloromethane	7.7	Not Detected	16	Not Detected
Vinyl Chloride	0.77	Not Detected	2.0	Not Detected
1,3-Butadiene	0.77	4.8	1.7	10
Bromomethane	7.7	Not Detected	30	Not Detected
Chloroethane	3.1	Not Detected	8.1	Not Detected
Freon 11	0.77	Not Detected	4.3	Not Detected
Ethanol	3.1	12	5.8	23
Freon 113	0.77	Not Detected	5.9	Not Detected
1,1-Dichloroethene	0.77	Not Detected	3.0	Not Detected
Acetone	7.7	250	18	600
2-Propanol	3.1	72	7.6	180
Carbon Disulfide	3.1	9.8	9.6	31
3-Chloropropene	3.1	Not Detected	9.6	Not Detected
Methylene Chloride	7.7	Not Detected	27	Not Detected
Methyl tert-butyl ether	0.77	Not Detected	2.8	Not Detected
trans-1,2-Dichloroethene	0.77	Not Detected	3.0	Not Detected
Hexane	0.77	8.6	2.7	30
1,1-Dichloroethane	0.77	Not Detected	3.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.1	17	9.1	50
cis-1,2-Dichloroethene	0.77	Not Detected	3.0	Not Detected
Tetrahydrofuran	0.77	Not Detected	2.3	Not Detected
Chloroform	0.77	Not Detected	3.8	Not Detected
1,1,1-Trichloroethane	0.77	Not Detected	4.2	Not Detected
Cyclohexane	0.77	6.3	2.6	22
Carbon Tetrachloride	0.77	Not Detected	4.8	Not Detected
2,2,4-Trimethylpentane	0.77	Not Detected	3.6	Not Detected
Benzene	0.77	4.1	2.4	13
1,2-Dichloroethane	0.77	Not Detected	3.1	Not Detected
Heptane	0.77	9.9	3.2	40
Trichloroethene	0.77	Not Detected	4.1	Not Detected
1,2-Dichloropropane	0.77	Not Detected	3.6	Not Detected
1,4-Dioxane	3.1	Not Detected	11	Not Detected
Bromodichloromethane	0.77	Not Detected	5.2	Not Detected
cis-1,3-Dichloropropene	0.77	Not Detected	3.5	Not Detected
4-Methyl-2-pentanone	0.77	1.5	3.2	6.3
Toluene	0.77	2.9	2.9	11
trans-1,3-Dichloropropene	0.77	Not Detected	3.5	Not Detected
1,1,2-Trichloroethane	0.77	Not Detected	4.2	Not Detected
Tetrachloroethene	0.77	Not Detected	5.2	Not Detected
2-Hexanone	3.1	Not Detected	13	Not Detected

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Client Sample ID: SV-7-10-001

Lab ID#: 1311079A-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17111821**	**Date of Collection:**	**10/31/13 4:07:00 PM**
Dil. Factor:	**1.54**	**Date of Analysis:**	**11/18/13 07:37 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.77	Not Detected	6.6	Not Detected
1,2-Dibromoethane (EDB)	0.77	Not Detected	5.9	Not Detected
Chlorobenzene	0.77	Not Detected	3.5	Not Detected
Ethyl Benzene	0.77	2.7	3.3	12
m,p-Xylene	0.77	3.8	3.3	16
o-Xylene	0.77	1.0	3.3	4.4
Styrene	0.77	Not Detected	3.3	Not Detected
Bromoform	0.77	Not Detected	8.0	Not Detected
Cumene	0.77	6.2	3.8	30
1,1,2,2-Tetrachloroethane	0.77	Not Detected	5.3	Not Detected
Propylbenzene	0.77	9.2	3.8	45
4-Ethyltoluene	0.77	3.6	3.8	18
1,3,5-Trimethylbenzene	0.77	1.9	3.8	9.4
1,2,4-Trimethylbenzene	0.77	5.5	3.8	27
1,3-Dichlorobenzene	0.77	Not Detected	4.6	Not Detected
1,4-Dichlorobenzene	0.77	Not Detected	4.6	Not Detected
alpha-Chlorotoluene	0.77	Not Detected	4.0	Not Detected
1,2-Dichlorobenzene	0.77	Not Detected	4.6	Not Detected
1,2,4-Trichlorobenzene	3.1	Not Detected	23	Not Detected
Hexachlorobutadiene	3.1	Not Detected	33	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: SV-8-5-001

Lab ID#: 1311079A-16A

EPA METHOD TO-15 GC/MS

File Name:	**14111918**	**Date of Collection:**	**10/31/13 2:07:00 PM**
Dil. Factor:	**8.05**	**Date of Analysis:**	**11/19/13 08:40 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	40	Not Detected	200	Not Detected
Freon 114	40	Not Detected	280	Not Detected
Chloromethane	160	Not Detected	330	Not Detected
Vinyl Chloride	40	Not Detected	100	Not Detected
1,3-Butadiene	40	Not Detected	89	Not Detected
Bromomethane	40	Not Detected	160	Not Detected
Chloroethane	160	Not Detected	420	Not Detected
Freon 11	40	Not Detected	230	Not Detected
Ethanol	160	Not Detected	300	Not Detected
Freon 113	40	Not Detected	310	Not Detected
1,1-Dichloroethene	40	Not Detected	160	Not Detected
Acetone	160	3600	380	8600
2-Propanol	160	43000 E	400	100000 E
Carbon Disulfide	40	Not Detected	120	Not Detected
3-Chloropropene	160	Not Detected	500	Not Detected
Methylene Chloride	40	Not Detected	140	Not Detected
Methyl tert-butyl ether	40	Not Detected	140	Not Detected
trans-1,2-Dichloroethene	40	Not Detected	160	Not Detected
Hexane	40	Not Detected	140	Not Detected
1,1-Dichloroethane	40	Not Detected	160	Not Detected
2-Butanone (Methyl Ethyl Ketone)	160	Not Detected	470	Not Detected
cis-1,2-Dichloroethene	40	Not Detected	160	Not Detected
Tetrahydrofuran	40	Not Detected	120	Not Detected
Chloroform	40	Not Detected	200	Not Detected
1,1,1-Trichloroethane	40	Not Detected	220	Not Detected
Cyclohexane	40	Not Detected	140	Not Detected
Carbon Tetrachloride	40	Not Detected	250	Not Detected
2,2,4-Trimethylpentane	40	Not Detected	190	Not Detected
Benzene	40	Not Detected	130	Not Detected
1,2-Dichloroethane	40	Not Detected	160	Not Detected
Heptane	40	Not Detected	160	Not Detected
Trichloroethene	40	Not Detected	220	Not Detected
1,2-Dichloropropane	40	Not Detected	190	Not Detected
1,4-Dioxane	160	Not Detected	580	Not Detected
Bromodichloromethane	40	Not Detected	270	Not Detected
cis-1,3-Dichloropropene	40	Not Detected	180	Not Detected
4-Methyl-2-pentanone	40	Not Detected	160	Not Detected
Toluene	40	Not Detected	150	Not Detected
trans-1,3-Dichloropropene	40	Not Detected	180	Not Detected
1,1,2-Trichloroethane	40	Not Detected	220	Not Detected
Tetrachloroethene	40	Not Detected	270	Not Detected
2-Hexanone	160	Not Detected	660	Not Detected

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Client Sample ID: SV-8-5-001

Lab ID#: 1311079A-16A

EPA METHOD TO-15 GC/MS

File Name:	**14111918**	**Date of Collection: 10/31/13 2:07:00 PM**	
Dil. Factor:	**8.05**	**Date of Analysis: 11/19/13 08:40 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	40	Not Detected	340	Not Detected
1,2-Dibromoethane (EDB)	40	Not Detected	310	Not Detected
Chlorobenzene	40	Not Detected	180	Not Detected
Ethyl Benzene	40	Not Detected	170	Not Detected
m,p-Xylene	40	Not Detected	170	Not Detected
o-Xylene	40	Not Detected	170	Not Detected
Styrene	40	Not Detected	170	Not Detected
Bromoform	40	Not Detected	420	Not Detected
Cumene	40	Not Detected	200	Not Detected
1,1,2,2-Tetrachloroethane	40	Not Detected	280	Not Detected
Propylbenzene	40	Not Detected	200	Not Detected
4-Ethyltoluene	40	Not Detected	200	Not Detected
1,3,5-Trimethylbenzene	40	Not Detected	200	Not Detected
1,2,4-Trimethylbenzene	40	Not Detected	200	Not Detected
1,3-Dichlorobenzene	40	Not Detected	240	Not Detected
1,4-Dichlorobenzene	40	Not Detected	240	Not Detected
alpha-Chlorotoluene	40	Not Detected	210	Not Detected
1,2-Dichlorobenzene	40	Not Detected	240	Not Detected
1,2,4-Trichlorobenzene	160	Not Detected	1200	Not Detected
Hexachlorobutadiene	160	Not Detected	1700	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: SV-9-5-001

Lab ID#: 1311079A-17A

EPA METHOD TO-15 GC/MS

File Name:	**14111919**	**Date of Collection:**	**10/31/13 10:42:00 A**
Dil. Factor:	**7.65**	**Date of Analysis:**	**11/19/13 09:34 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	38	Not Detected	190	Not Detected
Freon 114	38	Not Detected	270	Not Detected
Chloromethane	150	Not Detected	320	Not Detected
Vinyl Chloride	38	65	98	170
1,3-Butadiene	38	Not Detected	85	Not Detected
Bromomethane	38	Not Detected	150	Not Detected
Chloroethane	150	Not Detected	400	Not Detected
Freon 11	38	Not Detected	210	Not Detected
Ethanol	150	Not Detected	290	Not Detected
Freon 113	38	Not Detected	290	Not Detected
1,1-Dichloroethene	38	Not Detected	150	Not Detected
Acetone	150	Not Detected	360	Not Detected
2-Propanol	150	Not Detected	380	Not Detected
Carbon Disulfide	38	Not Detected	120	Not Detected
3-Chloropropene	150	Not Detected	480	Not Detected
Methylene Chloride	38	Not Detected	130	Not Detected
Methyl tert-butyl ether	38	Not Detected	140	Not Detected
trans-1,2-Dichloroethene	38	Not Detected	150	Not Detected
Hexane	38	230	130	810
1,1-Dichloroethane	38	Not Detected	150	Not Detected
2-Butanone (Methyl Ethyl Ketone)	150	Not Detected	450	Not Detected
cis-1,2-Dichloroethene	38	Not Detected	150	Not Detected
Tetrahydrofuran	38	Not Detected	110	Not Detected
Chloroform	38	Not Detected	190	Not Detected
1,1,1-Trichloroethane	38	Not Detected	210	Not Detected
Cyclohexane	38	2100	130	7300
Carbon Tetrachloride	38	Not Detected	240	Not Detected
2,2,4-Trimethylpentane	38	Not Detected	180	Not Detected
Benzene	38	86	120	280
1,2-Dichloroethane	38	Not Detected	150	Not Detected
Heptane	38	390	160	1600
Trichloroethene	38	Not Detected	200	Not Detected
1,2-Dichloropropane	38	Not Detected	180	Not Detected
1,4-Dioxane	150	Not Detected	550	Not Detected
Bromodichloromethane	38	Not Detected	260	Not Detected
cis-1,3-Dichloropropene	38	Not Detected	170	Not Detected
4-Methyl-2-pentanone	38	Not Detected	160	Not Detected
Toluene	38	48	140	180
trans-1,3-Dichloropropene	38	Not Detected	170	Not Detected
1,1,2-Trichloroethane	38	Not Detected	210	Not Detected
Tetrachloroethene	38	Not Detected	260	Not Detected
2-Hexanone	150	Not Detected	630	Not Detected

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Client Sample ID: SV-9-5-001

Lab ID#: 1311079A-17A

EPA METHOD TO-15 GC/MS

File Name:	**14111919**	**Date of Collection: 10/31/13 10:42:00 A**	
Dil. Factor:	**7.65**	**Date of Analysis: 11/19/13 09:34 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	38	Not Detected	320	Not Detected
1,2-Dibromoethane (EDB)	38	Not Detected	290	Not Detected
Chlorobenzene	38	Not Detected	180	Not Detected
Ethyl Benzene	38	200	170	870
m,p-Xylene	38	92	170	400
o-Xylene	38	110	170	490
Styrene	38	Not Detected	160	Not Detected
Bromoform	38	Not Detected	400	Not Detected
Cumene	38	8000	190	39000
1,1,2,2-Tetrachloroethane	38	Not Detected	260	Not Detected
Propylbenzene	38	17000	190	86000
4-Ethyltoluene	38	Not Detected	190	Not Detected
1,3,5-Trimethylbenzene	38	Not Detected	190	Not Detected
1,2,4-Trimethylbenzene	38	64	190	320
1,3-Dichlorobenzene	38	Not Detected	230	Not Detected
1,4-Dichlorobenzene	38	Not Detected	230	Not Detected
alpha-Chlorotoluene	38	Not Detected	200	Not Detected
1,2-Dichlorobenzene	38	Not Detected	230	Not Detected
1,2,4-Trichlorobenzene	150	Not Detected	1100	Not Detected
Hexachlorobutadiene	150	Not Detected	1600	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	111	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: SV-9-5-002

Lab ID#: 1311079A-18A

EPA METHOD TO-15 GC/MS

File Name:	**14111920**	**Date of Collection:**	**10/31/13 10:42:00 A**
Dil. Factor:	**6.90**	**Date of Analysis:**	**11/19/13 10:12 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	34	Not Detected	170	Not Detected
Freon 114	34	Not Detected	240	Not Detected
Chloromethane	140	Not Detected	280	Not Detected
Vinyl Chloride	34	74	88	190
1,3-Butadiene	34	Not Detected	76	Not Detected
Bromomethane	34	Not Detected	130	Not Detected
Chloroethane	140	Not Detected	360	Not Detected
Freon 11	34	Not Detected	190	Not Detected
Ethanol	140	Not Detected	260	Not Detected
Freon 113	34	Not Detected	260	Not Detected
1,1-Dichloroethene	34	Not Detected	140	Not Detected
Acetone	140	Not Detected	330	Not Detected
2-Propanol	140	Not Detected	340	Not Detected
Carbon Disulfide	34	Not Detected	110	Not Detected
3-Chloropropene	140	Not Detected	430	Not Detected
Methylene Chloride	34	Not Detected	120	Not Detected
Methyl tert-butyl ether	34	Not Detected	120	Not Detected
trans-1,2-Dichloroethene	34	Not Detected	140	Not Detected
Hexane	34	250	120	880
1,1-Dichloroethane	34	Not Detected	140	Not Detected
2-Butanone (Methyl Ethyl Ketone)	140	Not Detected	410	Not Detected
cis-1,2-Dichloroethene	34	Not Detected	140	Not Detected
Tetrahydrofuran	34	Not Detected	100	Not Detected
Chloroform	34	Not Detected	170	Not Detected
1,1,1-Trichloroethane	34	Not Detected	190	Not Detected
Cyclohexane	34	2200	120	7600
Carbon Tetrachloride	34	Not Detected	220	Not Detected
2,2,4-Trimethylpentane	34	Not Detected	160	Not Detected
Benzene	34	80	110	250
1,2-Dichloroethane	34	Not Detected	140	Not Detected
Heptane	34	420	140	1700
Trichloroethene	34	Not Detected	180	Not Detected
1,2-Dichloropropane	34	Not Detected	160	Not Detected
1,4-Dioxane	140	Not Detected	500	Not Detected
Bromodichloromethane	34	Not Detected	230	Not Detected
cis-1,3-Dichloropropene	34	Not Detected	160	Not Detected
4-Methyl-2-pentanone	34	Not Detected	140	Not Detected
Toluene	34	51	130	190
trans-1,3-Dichloropropene	34	Not Detected	160	Not Detected
1,1,2-Trichloroethane	34	Not Detected	190	Not Detected
Tetrachloroethene	34	Not Detected	230	Not Detected
2-Hexanone	140	Not Detected	560	Not Detected

eurofins | Air Toxics

Client Sample ID: SV-9-5-002

Lab ID#: 1311079A-18A

EPA METHOD TO-15 GC/MS

File Name:	**14111920**	**Date of Collection:**	**10/31/13 10:42:00 A**
Dil. Factor:	**6.90**	**Date of Analysis:**	**11/19/13 10:12 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	34	Not Detected	290	Not Detected
1,2-Dibromoethane (EDB)	34	Not Detected	260	Not Detected
Chlorobenzene	34	Not Detected	160	Not Detected
Ethyl Benzene	34	210	150	910
m,p-Xylene	34	100	150	440
o-Xylene	34	110	150	480
Styrene	34	Not Detected	150	Not Detected
Bromoform	34	Not Detected	360	Not Detected
Cumene	34	8100	170	40000
1,1,2,2-Tetrachloroethane	34	Not Detected	240	Not Detected
Propylbenzene	34	18000	170	87000
4-Ethyltoluene	34	Not Detected	170	Not Detected
1,3,5-Trimethylbenzene	34	Not Detected	170	Not Detected
1,2,4-Trimethylbenzene	34	64	170	320
1,3-Dichlorobenzene	34	Not Detected	210	Not Detected
1,4-Dichlorobenzene	34	Not Detected	210	Not Detected
alpha-Chlorotoluene	34	Not Detected	180	Not Detected
1,2-Dichlorobenzene	34	Not Detected	210	Not Detected
1,2,4-Trichlorobenzene	140	Not Detected	1000	Not Detected
Hexachlorobutadiene	140	Not Detected	1500	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	111	70-130
4-Bromofluorobenzene	94	70-130

eurofins | Air Toxics

Client Sample ID: SV-9-10-001

Lab ID#: 1311079A-19A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17111825**	**Date of Collection:**	**10/31/13 10:20:00 A**
Dil. Factor:	**30.8**	**Date of Analysis:**	**11/18/13 09:03 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	15	Not Detected	76	Not Detected
Freon 114	15	Not Detected	110	Not Detected
Chloromethane	150	Not Detected	320	Not Detected
Vinyl Chloride	15	Not Detected	39	Not Detected
1,3-Butadiene	15	Not Detected	34	Not Detected
Bromomethane	150	Not Detected	600	Not Detected
Chloroethane	62	Not Detected	160	Not Detected
Freon 11	15	Not Detected	86	Not Detected
Ethanol	62	Not Detected	120	Not Detected
Freon 113	15	Not Detected	120	Not Detected
1,1-Dichloroethene	15	Not Detected	61	Not Detected
Acetone	150	1100	360	2600
2-Propanol	62	16000 E	150	39000 E
Carbon Disulfide	62	Not Detected	190	Not Detected
3-Chloropropene	62	Not Detected	190	Not Detected
Methylene Chloride	150	Not Detected	540	Not Detected
Methyl tert-butyl ether	15	Not Detected	56	Not Detected
trans-1,2-Dichloroethene	15	Not Detected	61	Not Detected
Hexane	15	Not Detected	54	Not Detected
1,1-Dichloroethane	15	Not Detected	62	Not Detected
2-Butanone (Methyl Ethyl Ketone)	62	Not Detected	180	Not Detected
cis-1,2-Dichloroethene	15	Not Detected	61	Not Detected
Tetrahydrofuran	15	Not Detected	45	Not Detected
Chloroform	15	Not Detected	75	Not Detected
1,1,1-Trichloroethane	15	Not Detected	84	Not Detected
Cyclohexane	15	74	53	260
Carbon Tetrachloride	15	Not Detected	97	Not Detected
2,2,4-Trimethylpentane	15	Not Detected	72	Not Detected
Benzene	15	Not Detected	49	Not Detected
1,2-Dichloroethane	15	Not Detected	62	Not Detected
Heptane	15	Not Detected	63	Not Detected
Trichloroethene	15	Not Detected	83	Not Detected
1,2-Dichloropropane	15	Not Detected	71	Not Detected
1,4-Dioxane	62	Not Detected	220	Not Detected
Bromodichloromethane	15	Not Detected	100	Not Detected
cis-1,3-Dichloropropene	15	Not Detected	70	Not Detected
4-Methyl-2-pentanone	15	Not Detected	63	Not Detected
Toluene	15	Not Detected	58	Not Detected
trans-1,3-Dichloropropene	15	Not Detected	70	Not Detected
1,1,2-Trichloroethane	15	Not Detected	84	Not Detected
Tetrachloroethene	15	Not Detected	100	Not Detected
2-Hexanone	62	Not Detected	250	Not Detected

eurofins | Air Toxics

Client Sample ID: SV-9-10-001

Lab ID#: 1311079A-19A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17111825**	**Date of Collection:**	**10/31/13 10:20:00 A**
Dil. Factor:	**30.8**	**Date of Analysis:**	**11/18/13 09:03 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	15	Not Detected	130	Not Detected
1,2-Dibromoethane (EDB)	15	Not Detected	120	Not Detected
Chlorobenzene	15	Not Detected	71	Not Detected
Ethyl Benzene	15	Not Detected	67	Not Detected
m,p-Xylene	15	Not Detected	67	Not Detected
o-Xylene	15	Not Detected	67	Not Detected
Styrene	15	Not Detected	66	Not Detected
Bromoform	15	Not Detected	160	Not Detected
Cumene	15	39	76	190
1,1,2,2-Tetrachloroethane	15	Not Detected	100	Not Detected
Propylbenzene	15	41	76	200
4-Ethyltoluene	15	Not Detected	76	Not Detected
1,3,5-Trimethylbenzene	15	Not Detected	76	Not Detected
1,2,4-Trimethylbenzene	15	Not Detected	76	Not Detected
1,3-Dichlorobenzene	15	Not Detected	92	Not Detected
1,4-Dichlorobenzene	15	Not Detected	92	Not Detected
alpha-Chlorotoluene	15	Not Detected	80	Not Detected
1,2-Dichlorobenzene	15	Not Detected	92	Not Detected
1,2,4-Trichlorobenzene	62	Not Detected	460	Not Detected
Hexachlorobutadiene	62	Not Detected	660	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	110	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: SV-10-5-001

Lab ID#: 1311079A-20A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17111819**	**Date of Collection:**	**10/29/13 2:53:00 PM**
Dil. Factor:	**1.52**	**Date of Analysis:**	**11/18/13 06:54 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.76	Not Detected	3.8	Not Detected
Freon 114	0.76	Not Detected	5.3	Not Detected
Chloromethane	7.6	Not Detected	16	Not Detected
Vinyl Chloride	0.76	Not Detected	1.9	Not Detected
1,3-Butadiene	0.76	2.4	1.7	5.4
Bromomethane	7.6	Not Detected	30	Not Detected
Chloroethane	3.0	Not Detected	8.0	Not Detected
Freon 11	0.76	Not Detected	4.3	Not Detected
Ethanol	3.0	7.2	5.7	14
Freon 113	0.76	Not Detected	5.8	Not Detected
1,1-Dichloroethene	0.76	Not Detected	3.0	Not Detected
Acetone	7.6	140	18	340
2-Propanol	3.0	330 E	7.5	810 E
Carbon Disulfide	3.0	Not Detected	9.5	Not Detected
3-Chloropropene	3.0	Not Detected	9.5	Not Detected
Methylene Chloride	7.6	Not Detected	26	Not Detected
Methyl tert-butyl ether	0.76	Not Detected	2.7	Not Detected
trans-1,2-Dichloroethene	0.76	Not Detected	3.0	Not Detected
Hexane	0.76	2.3	2.7	8.2
1,1-Dichloroethane	0.76	Not Detected	3.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.0	7.9	9.0	23
cis-1,2-Dichloroethene	0.76	Not Detected	3.0	Not Detected
Tetrahydrofuran	0.76	Not Detected	2.2	Not Detected
Chloroform	0.76	Not Detected	3.7	Not Detected
1,1,1-Trichloroethane	0.76	Not Detected	4.1	Not Detected
Cyclohexane	0.76	1.5	2.6	5.3
Carbon Tetrachloride	0.76	Not Detected	4.8	Not Detected
2,2,4-Trimethylpentane	0.76	6.0	3.6	28
Benzene	0.76	3.2	2.4	10
1,2-Dichloroethane	0.76	Not Detected	3.1	Not Detected
Heptane	0.76	2.4	3.1	9.9
Trichloroethene	0.76	Not Detected	4.1	Not Detected
1,2-Dichloropropane	0.76	Not Detected	3.5	Not Detected
1,4-Dioxane	3.0	Not Detected	11	Not Detected
Bromodichloromethane	0.76	Not Detected	5.1	Not Detected
cis-1,3-Dichloropropene	0.76	Not Detected	3.4	Not Detected
4-Methyl-2-pentanone	0.76	Not Detected	3.1	Not Detected
Toluene	0.76	3.6	2.9	13
trans-1,3-Dichloropropene	0.76	Not Detected	3.4	Not Detected
1,1,2-Trichloroethane	0.76	Not Detected	4.1	Not Detected
Tetrachloroethene	0.76	Not Detected	5.2	Not Detected
2-Hexanone	3.0	Not Detected	12	Not Detected

eurofins | Air Toxics

Client Sample ID: SV-10-5-001

Lab ID#: 1311079A-20A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17111819**	**Date of Collection:**	**10/29/13 2:53:00 PM**
Dil. Factor:	**1.52**	**Date of Analysis:**	**11/18/13 06:54 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.76	Not Detected	6.5	Not Detected
1,2-Dibromoethane (EDB)	0.76	Not Detected	5.8	Not Detected
Chlorobenzene	0.76	Not Detected	3.5	Not Detected
Ethyl Benzene	0.76	5.2	3.3	22
m,p-Xylene	0.76	9.3	3.3	40
o-Xylene	0.76	8.1	3.3	35
Styrene	0.76	Not Detected	3.2	Not Detected
Bromoform	0.76	Not Detected	7.8	Not Detected
Cumene	0.76	Not Detected	3.7	Not Detected
1,1,2,2-Tetrachloroethane	0.76	Not Detected	5.2	Not Detected
Propylbenzene	0.76	1.2	3.7	5.7
4-Ethyltoluene	0.76	5.8	3.7	29
1,3,5-Trimethylbenzene	0.76	3.4	3.7	17
1,2,4-Trimethylbenzene	0.76	7.3	3.7	36
1,3-Dichlorobenzene	0.76	Not Detected	4.6	Not Detected
1,4-Dichlorobenzene	0.76	Not Detected	4.6	Not Detected
alpha-Chlorotoluene	0.76	Not Detected	3.9	Not Detected
1,2-Dichlorobenzene	0.76	Not Detected	4.6	Not Detected
1,2,4-Trichlorobenzene	3.0	Not Detected	22	Not Detected
Hexachlorobutadiene	3.0	Not Detected	32	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	96	70-130

eurofins | Air Toxics

Client Sample ID: SV-10-10-001

Lab ID#: 1311079A-21A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111913**	**Date of Collection:**	**10/29/13 2:20:00 PM**
Dil. Factor:	**1.60**	**Date of Analysis:**	**11/19/13 10:41 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.80	Not Detected	4.0	Not Detected
Freon 114	0.80	Not Detected	5.6	Not Detected
Chloromethane	8.0	Not Detected	16	Not Detected
Vinyl Chloride	0.80	Not Detected	2.0	Not Detected
1,3-Butadiene	0.80	5.1	1.8	11
Bromomethane	8.0	Not Detected	31	Not Detected
Chloroethane	3.2	Not Detected	8.4	Not Detected
Freon 11	0.80	Not Detected	4.5	Not Detected
Ethanol	3.2	Not Detected	6.0	Not Detected
Freon 113	0.80	Not Detected	6.1	Not Detected
1,1-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Acetone	8.0	210	19	500
2-Propanol	3.2	Not Detected	7.9	Not Detected
Carbon Disulfide	3.2	Not Detected	10	Not Detected
3-Chloropropene	3.2	Not Detected	10	Not Detected
Methylene Chloride	8.0	Not Detected	28	Not Detected
Methyl tert-butyl ether	0.80	Not Detected	2.9	Not Detected
trans-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Hexane	0.80	3.3	2.8	12
1,1-Dichloroethane	0.80	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.2	18	9.4	53
cis-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Tetrahydrofuran	0.80	Not Detected	2.4	Not Detected
Chloroform	0.80	Not Detected	3.9	Not Detected
1,1,1-Trichloroethane	0.80	Not Detected	4.4	Not Detected
Cyclohexane	0.80	Not Detected	2.8	Not Detected
Carbon Tetrachloride	0.80	Not Detected	5.0	Not Detected
2,2,4-Trimethylpentane	0.80	Not Detected	3.7	Not Detected
Benzene	0.80	2.3	2.6	7.3
1,2-Dichloroethane	0.80	Not Detected	3.2	Not Detected
Heptane	0.80	1.9	3.3	7.7
Trichloroethene	0.80	Not Detected	4.3	Not Detected
1,2-Dichloropropane	0.80	Not Detected	3.7	Not Detected
1,4-Dioxane	3.2	Not Detected	12	Not Detected
Bromodichloromethane	0.80	Not Detected	5.4	Not Detected
cis-1,3-Dichloropropene	0.80	Not Detected	3.6	Not Detected
4-Methyl-2-pentanone	0.80	Not Detected	3.3	Not Detected
Toluene	0.80	1.8	3.0	6.8
trans-1,3-Dichloropropene	0.80	Not Detected	3.6	Not Detected
1,1,2-Trichloroethane	0.80	Not Detected	4.4	Not Detected
Tetrachloroethene	0.80	Not Detected	5.4	Not Detected
2-Hexanone	3.2	Not Detected	13	Not Detected

eurofins | Air Toxics

Client Sample ID: SV-10-10-001

Lab ID#: 1311079A-21A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111913**	**Date of Collection:**	**10/29/13 2:20:00 PM**
Dil. Factor:	**1.60**	**Date of Analysis:**	**11/19/13 10:41 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.80	Not Detected	6.8	Not Detected
1,2-Dibromoethane (EDB)	0.80	Not Detected	6.1	Not Detected
Chlorobenzene	0.80	Not Detected	3.7	Not Detected
Ethyl Benzene	0.80	Not Detected	3.5	Not Detected
m,p-Xylene	0.80	Not Detected	3.5	Not Detected
o-Xylene	0.80	Not Detected	3.5	Not Detected
Styrene	0.80	Not Detected	3.4	Not Detected
Bromoform	0.80	Not Detected	8.3	Not Detected
Cumene	0.80	Not Detected	3.9	Not Detected
1,1,2,2-Tetrachloroethane	0.80	Not Detected	5.5	Not Detected
Propylbenzene	0.80	Not Detected	3.9	Not Detected
4-Ethyltoluene	0.80	Not Detected	3.9	Not Detected
1,3,5-Trimethylbenzene	0.80	Not Detected	3.9	Not Detected
1,2,4-Trimethylbenzene	0.80	Not Detected	3.9	Not Detected
1,3-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
1,4-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
alpha-Chlorotoluene	0.80	Not Detected	4.1	Not Detected
1,2-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
1,2,4-Trichlorobenzene	3.2	Not Detected	24	Not Detected
Hexachlorobutadiene	3.2	Not Detected	34	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	87	70-130
4-Bromofluorobenzene	108	70-130

eurofins | Air Toxics

Client Sample ID: EQ (Equipment Blank)

Lab ID#: 1311079A-22A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17111818**	**Date of Collection:**	**10/31/13 1:47:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**11/18/13 06:32 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: EQ (Equipment Blank)

Lab ID#: 1311079A-22A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17111818**	**Date of Collection:**	**10/31/13 1:47:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**11/18/13 06:32 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	93	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1311079A-23A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111806**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 11:09 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1311079A-23A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111806**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 11:09 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	85	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1311079A-23B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17111806**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 10:46 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1311079A-23B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17111806**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 10:46 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1311079A-23C

EPA METHOD TO-15 GC/MS

File Name:	**14111806**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 11:59 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1311079A-23C

EPA METHOD TO-15 GC/MS

File Name:	**14111806**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 11:59 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1311079A-23D

EPA METHOD TO-15 GC/MS

File Name:	**14111907**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/13 12:27 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1311079A-23D

EPA METHOD TO-15 GC/MS

File Name:	**14111907**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/13 12:27 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	93	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1311079A-23E

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111910**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/13 08:32 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1311079A-23E

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111910**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/13 08:32 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	89	70-130
4-Bromofluorobenzene	108	70-130

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Client Sample ID: CCV

Lab ID#: 1311079A-24A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 08:37 AM**	

Compound	%Recovery
Freon 12	102
Freon 114	104
Chloromethane	95
Vinyl Chloride	107
1,3-Butadiene	98
Bromomethane	107
Chloroethane	108
Freon 11	97
Ethanol	83
Freon 113	100
1,1-Dichloroethene	99
Acetone	96
2-Propanol	84
Carbon Disulfide	101
3-Chloropropene	95
Methylene Chloride	90
Methyl tert-butyl ether	88
trans-1,2-Dichloroethene	97
Hexane	94
1,1-Dichloroethane	97
2-Butanone (Methyl Ethyl Ketone)	103
cis-1,2-Dichloroethene	100
Tetrahydrofuran	90
Chloroform	93
1,1,1-Trichloroethane	92
Cyclohexane	97
Carbon Tetrachloride	98
2,2,4-Trimethylpentane	98
Benzene	108
1,2-Dichloroethane	97
Heptane	103
Trichloroethene	99
1,2-Dichloropropane	108
1,4-Dioxane	117
Bromodichloromethane	98
cis-1,3-Dichloropropene	103
4-Methyl-2-pentanone	102
Toluene	101
trans-1,3-Dichloropropene	92
1,1,2-Trichloroethane	97
Tetrachloroethene	102
2-Hexanone	95

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Client Sample ID: CCV

Lab ID#: 1311079A-24A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 08:37 AM**	

Compound	%Recovery
Dibromochloromethane	94
1,2-Dibromoethane (EDB)	97
Chlorobenzene	95
Ethyl Benzene	99
m,p-Xylene	100
o-Xylene	99
Styrene	99
Bromoform	103
Cumene	96
1,1,2,2-Tetrachloroethane	100
Propylbenzene	96
4-Ethyltoluene	104
1,3,5-Trimethylbenzene	103
1,2,4-Trimethylbenzene	104
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	99
alpha-Chlorotoluene	90
1,2-Dichlorobenzene	99
1,2,4-Trichlorobenzene	100
Hexachlorobutadiene	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	86	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: CCV

Lab ID#: 1311079A-24B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17111802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 09:08 AM**	

Compound	%Recovery
Freon 12	97
Freon 114	91
Chloromethane	104
Vinyl Chloride	106
1,3-Butadiene	98
Bromomethane	95
Chloroethane	102
Freon 11	94
Ethanol	103
Freon 113	83
1,1-Dichloroethene	90
Acetone	99
2-Propanol	99
Carbon Disulfide	119
3-Chloropropene	105
Methylene Chloride	95
Methyl tert-butyl ether	93
trans-1,2-Dichloroethene	107
Hexane	99
1,1-Dichloroethane	103
2-Butanone (Methyl Ethyl Ketone)	99
cis-1,2-Dichloroethene	97
Tetrahydrofuran	104
Chloroform	100
1,1,1-Trichloroethane	98
Cyclohexane	94
Carbon Tetrachloride	93
2,2,4-Trimethylpentane	92
Benzene	108
1,2-Dichloroethane	106
Heptane	100
Trichloroethene	101
1,2-Dichloropropane	111
1,4-Dioxane	98
Bromodichloromethane	103
cis-1,3-Dichloropropene	107
4-Methyl-2-pentanone	103
Toluene	105
trans-1,3-Dichloropropene	106
1,1,2-Trichloroethane	105
Tetrachloroethene	97
2-Hexanone	106

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Client Sample ID: CCV

Lab ID#: 1311079A-24B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17111802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 09:08 AM**	

Compound	%Recovery
Dibromochloromethane	96
1,2-Dibromoethane (EDB)	104
Chlorobenzene	103
Ethyl Benzene	102
m,p-Xylene	103
o-Xylene	102
Styrene	114
Bromoform	96
Cumene	102
1,1,2,2-Tetrachloroethane	110
Propylbenzene	92
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	105
1,2,4-Trimethylbenzene	107
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	104
1,2-Dichlorobenzene	102
1,2,4-Trichlorobenzene	112
Hexachlorobutadiene	111

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: CCV
Lab ID#: 1311079A-24C
EPA METHOD TO-15 GC/MS

File Name:	**14111802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 09:44 AM**	

Compound	%Recovery
Freon 12	92
Freon 114	90
Chloromethane	96
Vinyl Chloride	89
1,3-Butadiene	88
Bromomethane	91
Chloroethane	94
Freon 11	90
Ethanol	104
Freon 113	81
1,1-Dichloroethene	91
Acetone	94
2-Propanol	97
Carbon Disulfide	90
3-Chloropropene	98
Methylene Chloride	89
Methyl tert-butyl ether	97
trans-1,2-Dichloroethene	95
Hexane	91
1,1-Dichloroethane	92
2-Butanone (Methyl Ethyl Ketone)	96
cis-1,2-Dichloroethene	91
Tetrahydrofuran	114
Chloroform	93
1,1,1-Trichloroethane	94
Cyclohexane	94
Carbon Tetrachloride	95
2,2,4-Trimethylpentane	97
Benzene	90
1,2-Dichloroethane	90
Heptane	96
Trichloroethene	89
1,2-Dichloropropane	89
1,4-Dioxane	93
Bromodichloromethane	90
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	98
Toluene	90
trans-1,3-Dichloropropene	101
1,1,2-Trichloroethane	96
Tetrachloroethene	93
2-Hexanone	95

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Client Sample ID: CCV

Lab ID#: 1311079A-24C

EPA METHOD TO-15 GC/MS

File Name:	**14111802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 09:44 AM**	

Compound	%Recovery
Dibromochloromethane	98
1,2-Dibromoethane (EDB)	99
Chlorobenzene	94
Ethyl Benzene	99
m,p-Xylene	104
o-Xylene	103
Styrene	106
Bromoform	103
Cumene	108
1,1,2,2-Tetrachloroethane	104
Propylbenzene	108
4-Ethyltoluene	109
1,3,5-Trimethylbenzene	113
1,2,4-Trimethylbenzene	112
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	106
alpha-Chlorotoluene	133 Q
1,2-Dichlorobenzene	111
1,2,4-Trichlorobenzene	138 Q
Hexachlorobutadiene	133 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: CCV
Lab ID#: 1311079A-24D
EPA METHOD TO-15 GC/MS

File Name:	**14111902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/13 08:59 AM**	

Compound	%Recovery
Freon 12	103
Freon 114	102
Chloromethane	108
Vinyl Chloride	99
1,3-Butadiene	94
Bromomethane	101
Chloroethane	100
Freon 11	100
Ethanol	124
Freon 113	88
1,1-Dichloroethene	93
Acetone	103
2-Propanol	108
Carbon Disulfide	93
3-Chloropropene	100
Methylene Chloride	97
Methyl tert-butyl ether	102
trans-1,2-Dichloroethene	102
Hexane	101
1,1-Dichloroethane	103
2-Butanone (Methyl Ethyl Ketone)	103
cis-1,2-Dichloroethene	98
Tetrahydrofuran	101
Chloroform	101
1,1,1-Trichloroethane	99
Cyclohexane	100
Carbon Tetrachloride	101
2,2,4-Trimethylpentane	103
Benzene	101
1,2-Dichloroethane	102
Heptane	106
Trichloroethene	98
1,2-Dichloropropane	100
1,4-Dioxane	100
Bromodichloromethane	98
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	103
Toluene	100
trans-1,3-Dichloropropene	94
1,1,2-Trichloroethane	101
Tetrachloroethene	98
2-Hexanone	91

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Client Sample ID: CCV

Lab ID#: 1311079A-24D

EPA METHOD TO-15 GC/MS

File Name:	**14111902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/13 08:59 AM**	

Compound	%Recovery
Dibromochloromethane	98
1,2-Dibromoethane (EDB)	104
Chlorobenzene	99
Ethyl Benzene	101
m,p-Xylene	107
o-Xylene	107
Styrene	108
Bromoform	100
Cumene	111
1,1,2,2-Tetrachloroethane	109
Propylbenzene	111
4-Ethyltoluene	113
1,3,5-Trimethylbenzene	115
1,2,4-Trimethylbenzene	113
1,3-Dichlorobenzene	110
1,4-Dichlorobenzene	110
alpha-Chlorotoluene	123
1,2-Dichlorobenzene	113
1,2,4-Trichlorobenzene	125
Hexachlorobutadiene	134 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	115	70-130

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Client Sample ID: CCV

Lab ID#: 1311079A-24E

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111905**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/13 05:44 PM**	

Compound	%Recovery
Freon 12	113
Freon 114	112
Chloromethane	101
Vinyl Chloride	109
1,3-Butadiene	96
Bromomethane	110
Chloroethane	108
Freon 11	109
Ethanol	81
Freon 113	108
1,1-Dichloroethene	103
Acetone	99
2-Propanol	85
Carbon Disulfide	105
3-Chloropropene	98
Methylene Chloride	96
Methyl tert-butyl ether	92
trans-1,2-Dichloroethene	102
Hexane	95
1,1-Dichloroethane	103
2-Butanone (Methyl Ethyl Ketone)	106
cis-1,2-Dichloroethene	102
Tetrahydrofuran	92
Chloroform	101
1,1,1-Trichloroethane	103
Cyclohexane	102
Carbon Tetrachloride	109
2,2,4-Trimethylpentane	98
Benzene	115
1,2-Dichloroethane	110
Heptane	113
Trichloroethene	111
1,2-Dichloropropane	114
1,4-Dioxane	114
Bromodichloromethane	110
cis-1,3-Dichloropropene	110
4-Methyl-2-pentanone	99
Toluene	110
trans-1,3-Dichloropropene	95
1,1,2-Trichloroethane	99
Tetrachloroethene	109
2-Hexanone	82

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Client Sample ID: CCV

Lab ID#: 1311079A-24E

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111905**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/13 05:44 PM**	

Compound	%Recovery
Dibromochloromethane	100
1,2-Dibromoethane (EDB)	101
Chlorobenzene	98
Ethyl Benzene	101
m,p-Xylene	101
o-Xylene	103
Styrene	102
Bromoform	109
Cumene	100
1,1,2,2-Tetrachloroethane	102
Propylbenzene	100
4-Ethyltoluene	106
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	108
1,3-Dichlorobenzene	107
1,4-Dichlorobenzene	105
alpha-Chlorotoluene	91
1,2-Dichlorobenzene	103
1,2,4-Trichlorobenzene	104
Hexachlorobutadiene	118

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	91	70-130
4-Bromofluorobenzene	110	70-130

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Client Sample ID: LCS

Lab ID#: 1311079A-25A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 09:37 AM**	

Compound	%Recovery	Method Limits
Freon 12	105	70-130
Freon 114	108	70-130
Chloromethane	100	70-130
Vinyl Chloride	112	70-130
1,3-Butadiene	104	70-130
Bromomethane	82	70-130
Chloroethane	112	70-130
Freon 11	102	70-130
Ethanol	87	70-130
Freon 113	117	70-130
1,1-Dichloroethene	118	70-130
Acetone	99	70-130
2-Propanol	87	70-130
Carbon Disulfide	110	70-130
3-Chloropropene	101	70-130
Methylene Chloride	101	70-130
Methyl tert-butyl ether	92	70-130
trans-1,2-Dichloroethene	106	70-130
Hexane	98	70-130
1,1-Dichloroethane	102	70-130
2-Butanone (Methyl Ethyl Ketone)	108	70-130
cis-1,2-Dichloroethene	105	70-130
Tetrahydrofuran	94	70-130
Chloroform	97	70-130
1,1,1-Trichloroethane	97	70-130
Cyclohexane	105	70-130
Carbon Tetrachloride	100	70-130
2,2,4-Trimethylpentane	104	70-130
Benzene	113	70-130
1,2-Dichloroethane	101	70-130
Heptane	112	70-130
Trichloroethene	103	70-130
1,2-Dichloropropane	112	70-130
1,4-Dioxane	122	70-130
Bromodichloromethane	105	70-130
cis-1,3-Dichloropropene	106	70-130
4-Methyl-2-pentanone	108	70-130
Toluene	106	70-130
trans-1,3-Dichloropropene	91	70-130
1,1,2-Trichloroethane	97	70-130
Tetrachloroethene	104	70-130
2-Hexanone	98	70-130

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Client Sample ID: LCS

Lab ID#: 1311079A-25A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 09:37 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	98	70-130
1,2-Dibromoethane (EDB)	100	70-130
Chlorobenzene	96	70-130
Ethyl Benzene	100	70-130
m,p-Xylene	102	70-130
o-Xylene	98	70-130
Styrene	100	70-130
Bromoform	106	70-130
Cumene	99	70-130
1,1,2,2-Tetrachloroethane	98	70-130
Propylbenzene	98	70-130
4-Ethyltoluene	107	70-130
1,3,5-Trimethylbenzene	101	70-130
1,2,4-Trimethylbenzene	100	70-130
1,3-Dichlorobenzene	100	70-130
1,4-Dichlorobenzene	98	70-130
alpha-Chlorotoluene	91	70-130
1,2-Dichlorobenzene	98	70-130
1,2,4-Trichlorobenzene	94	70-130
Hexachlorobutadiene	102	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	86	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: LCSD

Lab ID#: 1311079A-25AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 09:59 AM**	

Compound	%Recovery	Method Limits
Freon 12	101	70-130
Freon 114	105	70-130
Chloromethane	98	70-130
Vinyl Chloride	109	70-130
1,3-Butadiene	100	70-130
Bromomethane	82	70-130
Chloroethane	104	70-130
Freon 11	98	70-130
Ethanol	89	70-130
Freon 113	114	70-130
1,1-Dichloroethene	114	70-130
Acetone	97	70-130
2-Propanol	87	70-130
Carbon Disulfide	109	70-130
3-Chloropropene	99	70-130
Methylene Chloride	100	70-130
Methyl tert-butyl ether	90	70-130
trans-1,2-Dichloroethene	103	70-130
Hexane	95	70-130
1,1-Dichloroethane	101	70-130
2-Butanone (Methyl Ethyl Ketone)	106	70-130
cis-1,2-Dichloroethene	102	70-130
Tetrahydrofuran	91	70-130
Chloroform	96	70-130
1,1,1-Trichloroethane	94	70-130
Cyclohexane	103	70-130
Carbon Tetrachloride	99	70-130
2,2,4-Trimethylpentane	103	70-130
Benzene	112	70-130
1,2-Dichloroethane	98	70-130
Heptane	108	70-130
Trichloroethene	102	70-130
1,2-Dichloropropane	108	70-130
1,4-Dioxane	126	70-130
Bromodichloromethane	102	70-130
cis-1,3-Dichloropropene	104	70-130
4-Methyl-2-pentanone	107	70-130
Toluene	103	70-130
trans-1,3-Dichloropropene	90	70-130
1,1,2-Trichloroethane	96	70-130
Tetrachloroethene	102	70-130
2-Hexanone	99	70-130

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Client Sample ID: LCSD

Lab ID#: 1311079A-25AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 09:59 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	97	70-130
1,2-Dibromoethane (EDB)	97	70-130
Chlorobenzene	94	70-130
Ethyl Benzene	99	70-130
m,p-Xylene	99	70-130
o-Xylene	97	70-130
Styrene	98	70-130
Bromoform	105	70-130
Cumene	97	70-130
1,1,2,2-Tetrachloroethane	96	70-130
Propylbenzene	96	70-130
4-Ethyltoluene	105	70-130
1,3,5-Trimethylbenzene	101	70-130
1,2,4-Trimethylbenzene	101	70-130
1,3-Dichlorobenzene	98	70-130
1,4-Dichlorobenzene	97	70-130
alpha-Chlorotoluene	91	70-130
1,2-Dichlorobenzene	96	70-130
1,2,4-Trichlorobenzene	96	70-130
Hexachlorobutadiene	104	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	84	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: LCS

Lab ID#: 1311079A-25B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17111803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 09:29 AM**	

Compound	%Recovery	Method Limits
Freon 12	97	70-130
Freon 114	93	70-130
Chloromethane	106	70-130
Vinyl Chloride	107	70-130
1,3-Butadiene	102	70-130
Bromomethane	96	70-130
Chloroethane	104	70-130
Freon 11	96	70-130
Ethanol	102	70-130
Freon 113	94	70-130
1,1-Dichloroethene	105	70-130
Acetone	96	70-130
2-Propanol	99	70-130
Carbon Disulfide	125	70-130
3-Chloropropene	111	70-130
Methylene Chloride	102	70-130
Methyl tert-butyl ether	94	70-130
trans-1,2-Dichloroethene	113	70-130
Hexane	99	70-130
1,1-Dichloroethane	106	70-130
2-Butanone (Methyl Ethyl Ketone)	101	70-130
cis-1,2-Dichloroethene	99	70-130
Tetrahydrofuran	104	70-130
Chloroform	101	70-130
1,1,1-Trichloroethane	98	70-130
Cyclohexane	98	70-130
Carbon Tetrachloride	94	70-130
2,2,4-Trimethylpentane	93	70-130
Benzene	106	70-130
1,2-Dichloroethane	103	70-130
Heptane	100	70-130
Trichloroethene	101	70-130
1,2-Dichloropropane	111	70-130
1,4-Dioxane	99	70-130
Bromodichloromethane	104	70-130
cis-1,3-Dichloropropene	102	70-130
4-Methyl-2-pentanone	103	70-130
Toluene	102	70-130
trans-1,3-Dichloropropene	103	70-130
1,1,2-Trichloroethane	105	70-130
Tetrachloroethene	98	70-130
2-Hexanone	109	70-130

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Client Sample ID: LCS

Lab ID#: 1311079A-25B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17111803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 09:29 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	100	70-130
1,2-Dibromoethane (EDB)	105	70-130
Chlorobenzene	103	70-130
Ethyl Benzene	102	70-130
m,p-Xylene	104	70-130
o-Xylene	102	70-130
Styrene	114	70-130
Bromoform	100	70-130
Cumene	104	70-130
1,1,2,2-Tetrachloroethane	108	70-130
Propylbenzene	94	70-130
4-Ethyltoluene	95	70-130
1,3,5-Trimethylbenzene	108	70-130
1,2,4-Trimethylbenzene	106	70-130
1,3-Dichlorobenzene	102	70-130
1,4-Dichlorobenzene	101	70-130
alpha-Chlorotoluene	107	70-130
1,2-Dichlorobenzene	102	70-130
1,2,4-Trichlorobenzene	120	70-130
Hexachlorobutadiene	116	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: LCSD

Lab ID#: 1311079A-25BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17111804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 09:50 AM**	

Compound	%Recovery	Method Limits
Freon 12	114	70-130
Freon 114	108	70-130
Chloromethane	122	70-130
Vinyl Chloride	122	70-130
1,3-Butadiene	117	70-130
Bromomethane	112	70-130
Chloroethane	122	70-130
Freon 11	112	70-130
Ethanol	118	70-130
Freon 113	110	70-130
1,1-Dichloroethene	123	70-130
Acetone	111	70-130
2-Propanol	117	70-130
Carbon Disulfide	146 Q	70-130
3-Chloropropene	130	70-130
Methylene Chloride	117	70-130
Methyl tert-butyl ether	109	70-130
trans-1,2-Dichloroethene	130	70-130
Hexane	115	70-130
1,1-Dichloroethane	122	70-130
2-Butanone (Methyl Ethyl Ketone)	119	70-130
cis-1,2-Dichloroethene	114	70-130
Tetrahydrofuran	118	70-130
Chloroform	118	70-130
1,1,1-Trichloroethane	116	70-130
Cyclohexane	114	70-130
Carbon Tetrachloride	111	70-130
2,2,4-Trimethylpentane	108	70-130
Benzene	120	70-130
1,2-Dichloroethane	117	70-130
Heptane	115	70-130
Trichloroethene	115	70-130
1,2-Dichloropropane	123	70-130
1,4-Dioxane	110	70-130
Bromodichloromethane	120	70-130
cis-1,3-Dichloropropene	117	70-130
4-Methyl-2-pentanone	118	70-130
Toluene	116	70-130
trans-1,3-Dichloropropene	118	70-130
1,1,2-Trichloroethane	119	70-130
Tetrachloroethene	112	70-130
2-Hexanone	123	70-130

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Client Sample ID: LCSD

Lab ID#: 1311079A-25BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17111804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 09:50 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	116	70-130
1,2-Dibromoethane (EDB)	118	70-130
Chlorobenzene	115	70-130
Ethyl Benzene	116	70-130
m,p-Xylene	119	70-130
o-Xylene	115	70-130
Styrene	130	70-130
Bromoform	114	70-130
Cumene	118	70-130
1,1,2,2-Tetrachloroethane	123	70-130
Propylbenzene	106	70-130
4-Ethyltoluene	110	70-130
1,3,5-Trimethylbenzene	122	70-130
1,2,4-Trimethylbenzene	120	70-130
1,3-Dichlorobenzene	116	70-130
1,4-Dichlorobenzene	115	70-130
alpha-Chlorotoluene	120	70-130
1,2-Dichlorobenzene	118	70-130
1,2,4-Trichlorobenzene	146 Q	70-130
Hexachlorobutadiene	140 Q	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: LCS

Lab ID#: 1311079A-25C

EPA METHOD TO-15 GC/MS

File Name:	**14111803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 10:22 AM**	

Compound	%Recovery	Method Limits
Freon 12	104	70-130
Freon 114	102	70-130
Chloromethane	106	70-130
Vinyl Chloride	99	70-130
1,3-Butadiene	102	70-130
Bromomethane	99	70-130
Chloroethane	97	70-130
Freon 11	102	70-130
Ethanol	103	70-130
Freon 113	101	70-130
1,1-Dichloroethene	114	70-130
Acetone	100	70-130
2-Propanol	103	70-130
Carbon Disulfide	101	70-130
3-Chloropropene	106	70-130
Methylene Chloride	105	70-130
Methyl tert-butyl ether	100	70-130
trans-1,2-Dichloroethene	106	70-130
Hexane	98	70-130
1,1-Dichloroethane	102	70-130
2-Butanone (Methyl Ethyl Ketone)	103	70-130
cis-1,2-Dichloroethene	96	70-130
Tetrahydrofuran	97	70-130
Chloroform	103	70-130
1,1,1-Trichloroethane	98	70-130
Cyclohexane	99	70-130
Carbon Tetrachloride	102	70-130
2,2,4-Trimethylpentane	101	70-130
Benzene	99	70-130
1,2-Dichloroethane	100	70-130
Heptane	101	70-130
Trichloroethene	97	70-130
1,2-Dichloropropane	96	70-130
1,4-Dioxane	99	70-130
Bromodichloromethane	100	70-130
cis-1,3-Dichloropropene	94	70-130
4-Methyl-2-pentanone	95	70-130
Toluene	96	70-130
trans-1,3-Dichloropropene	94	70-130
1,1,2-Trichloroethane	101	70-130
Tetrachloroethene	98	70-130
2-Hexanone	87	70-130

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Client Sample ID: LCS

Lab ID#: 1311079A-25C

EPA METHOD TO-15 GC/MS

File Name:	**14111803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 10:22 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	102	70-130
1,2-Dibromoethane (EDB)	102	70-130
Chlorobenzene	100	70-130
Ethyl Benzene	98	70-130
m,p-Xylene	103	70-130
o-Xylene	101	70-130
Styrene	109	70-130
Bromoform	112	70-130
Cumene	110	70-130
1,1,2,2-Tetrachloroethane	106	70-130
Propylbenzene	110	70-130
4-Ethyltoluene	112	70-130
1,3,5-Trimethylbenzene	117	70-130
1,2,4-Trimethylbenzene	108	70-130
1,3-Dichlorobenzene	109	70-130
1,4-Dichlorobenzene	107	70-130
alpha-Chlorotoluene	130	70-130
1,2-Dichlorobenzene	111	70-130
1,2,4-Trichlorobenzene	136 Q	70-130
Hexachlorobutadiene	136 Q	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: LCSD
Lab ID#: 1311079A-25CC
EPA METHOD TO-15 GC/MS

File Name:	**14111804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 10:54 AM**	

Compound	%Recovery	Method Limits
Freon 12	100	70-130
Freon 114	98	70-130
Chloromethane	107	70-130
Vinyl Chloride	98	70-130
1,3-Butadiene	96	70-130
Bromomethane	97	70-130
Chloroethane	96	70-130
Freon 11	100	70-130
Ethanol	107	70-130
Freon 113	96	70-130
1,1-Dichloroethene	107	70-130
Acetone	96	70-130
2-Propanol	100	70-130
Carbon Disulfide	99	70-130
3-Chloropropene	102	70-130
Methylene Chloride	102	70-130
Methyl tert-butyl ether	97	70-130
trans-1,2-Dichloroethene	103	70-130
Hexane	94	70-130
1,1-Dichloroethane	100	70-130
2-Butanone (Methyl Ethyl Ketone)	97	70-130
cis-1,2-Dichloroethene	95	70-130
Tetrahydrofuran	96	70-130
Chloroform	99	70-130
1,1,1-Trichloroethane	99	70-130
Cyclohexane	97	70-130
Carbon Tetrachloride	99	70-130
2,2,4-Trimethylpentane	100	70-130
Benzene	97	70-130
1,2-Dichloroethane	100	70-130
Heptane	99	70-130
Trichloroethene	97	70-130
1,2-Dichloropropane	97	70-130
1,4-Dioxane	99	70-130
Bromodichloromethane	101	70-130
cis-1,3-Dichloropropene	95	70-130
4-Methyl-2-pentanone	95	70-130
Toluene	95	70-130
trans-1,3-Dichloropropene	95	70-130
1,1,2-Trichloroethane	101	70-130
Tetrachloroethene	96	70-130
2-Hexanone	89	70-130

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Client Sample ID: LCSD

Lab ID#: 1311079A-25CC

EPA METHOD TO-15 GC/MS

File Name:	**14111804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 10:54 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	101	70-130
1,2-Dibromoethane (EDB)	104	70-130
Chlorobenzene	100	70-130
Ethyl Benzene	98	70-130
m,p-Xylene	104	70-130
o-Xylene	102	70-130
Styrene	104	70-130
Bromoform	107	70-130
Cumene	111	70-130
1,1,2,2-Tetrachloroethane	108	70-130
Propylbenzene	111	70-130
4-Ethyltoluene	114	70-130
1,3,5-Trimethylbenzene	117	70-130
1,2,4-Trimethylbenzene	110	70-130
1,3-Dichlorobenzene	111	70-130
1,4-Dichlorobenzene	109	70-130
alpha-Chlorotoluene	122	70-130
1,2-Dichlorobenzene	114	70-130
1,2,4-Trichlorobenzene	136 Q	70-130
Hexachlorobutadiene	133 Q	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: LCS

Lab ID#: 1311079A-25D

EPA METHOD TO-15 GC/MS

File Name:	**14111903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/13 09:27 AM**	

Compound	%Recovery	Method Limits
Freon 12	107	70-130
Freon 114	106	70-130
Chloromethane	112	70-130
Vinyl Chloride	102	70-130
1,3-Butadiene	102	70-130
Bromomethane	101	70-130
Chloroethane	99	70-130
Freon 11	105	70-130
Ethanol	108	70-130
Freon 113	104	70-130
1,1-Dichloroethene	112	70-130
Acetone	104	70-130
2-Propanol	103	70-130
Carbon Disulfide	101	70-130
3-Chloropropene	102	70-130
Methylene Chloride	109	70-130
Methyl tert-butyl ether	96	70-130
trans-1,2-Dichloroethene	107	70-130
Hexane	98	70-130
1,1-Dichloroethane	104	70-130
2-Butanone (Methyl Ethyl Ketone)	102	70-130
cis-1,2-Dichloroethene	98	70-130
Tetrahydrofuran	97	70-130
Chloroform	104	70-130
1,1,1-Trichloroethane	101	70-130
Cyclohexane	98	70-130
Carbon Tetrachloride	102	70-130
2,2,4-Trimethylpentane	102	70-130
Benzene	100	70-130
1,2-Dichloroethane	101	70-130
Heptane	101	70-130
Trichloroethene	99	70-130
1,2-Dichloropropane	96	70-130
1,4-Dioxane	96	70-130
Bromodichloromethane	96	70-130
cis-1,3-Dichloropropene	88	70-130
4-Methyl-2-pentanone	90	70-130
Toluene	97	70-130
trans-1,3-Dichloropropene	90	70-130
1,1,2-Trichloroethane	104	70-130
Tetrachloroethene	101	70-130
2-Hexanone	82	70-130

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Client Sample ID: LCS

Lab ID#: 1311079A-25D

EPA METHOD TO-15 GC/MS

File Name:	**14111903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/13 09:27 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	99	70-130
1,2-Dibromoethane (EDB)	105	70-130
Chlorobenzene	103	70-130
Ethyl Benzene	100	70-130
m,p-Xylene	106	70-130
o-Xylene	101	70-130
Styrene	100	70-130
Bromoform	99	70-130
Cumene	111	70-130
1,1,2,2-Tetrachloroethane	110	70-130
Propylbenzene	113	70-130
4-Ethyltoluene	114	70-130
1,3,5-Trimethylbenzene	116	70-130
1,2,4-Trimethylbenzene	108	70-130
1,3-Dichlorobenzene	113	70-130
1,4-Dichlorobenzene	111	70-130
alpha-Chlorotoluene	113	70-130
1,2-Dichlorobenzene	115	70-130
1,2,4-Trichlorobenzene	129	70-130
Hexachlorobutadiene	135 Q	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	109	70-130

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Client Sample ID: LCSD
Lab ID#: 1311079A-25DD
EPA METHOD TO-15 GC/MS

File Name:	**14111904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/13 09:53 AM**	

Compound	%Recovery	Method Limits
Freon 12	106	70-130
Freon 114	103	70-130
Chloromethane	112	70-130
Vinyl Chloride	102	70-130
1,3-Butadiene	98	70-130
Bromomethane	105	70-130
Chloroethane	98	70-130
Freon 11	103	70-130
Ethanol	104	70-130
Freon 113	101	70-130
1,1-Dichloroethene	112	70-130
Acetone	108	70-130
2-Propanol	100	70-130
Carbon Disulfide	100	70-130
3-Chloropropene	100	70-130
Methylene Chloride	112	70-130
Methyl tert-butyl ether	96	70-130
trans-1,2-Dichloroethene	105	70-130
Hexane	97	70-130
1,1-Dichloroethane	105	70-130
2-Butanone (Methyl Ethyl Ketone)	96	70-130
cis-1,2-Dichloroethene	100	70-130
Tetrahydrofuran	96	70-130
Chloroform	104	70-130
1,1,1-Trichloroethane	100	70-130
Cyclohexane	101	70-130
Carbon Tetrachloride	99	70-130
2,2,4-Trimethylpentane	100	70-130
Benzene	101	70-130
1,2-Dichloroethane	101	70-130
Heptane	100	70-130
Trichloroethene	98	70-130
1,2-Dichloropropane	98	70-130
1,4-Dioxane	96	70-130
Bromodichloromethane	99	70-130
cis-1,3-Dichloropropene	88	70-130
4-Methyl-2-pentanone	90	70-130
Toluene	97	70-130
trans-1,3-Dichloropropene	88	70-130
1,1,2-Trichloroethane	102	70-130
Tetrachloroethene	99	70-130
2-Hexanone	81	70-130

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Client Sample ID: LCSD

Lab ID#: 1311079A-25DD

EPA METHOD TO-15 GC/MS

File Name:	**14111904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/13 09:53 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	98	70-130
1,2-Dibromoethane (EDB)	104	70-130
Chlorobenzene	101	70-130
Ethyl Benzene	98	70-130
m,p-Xylene	104	70-130
o-Xylene	100	70-130
Styrene	101	70-130
Bromoform	99	70-130
Cumene	109	70-130
1,1,2,2-Tetrachloroethane	108	70-130
Propylbenzene	110	70-130
4-Ethyltoluene	112	70-130
1,3,5-Trimethylbenzene	115	70-130
1,2,4-Trimethylbenzene	106	70-130
1,3-Dichlorobenzene	112	70-130
1,4-Dichlorobenzene	107	70-130
alpha-Chlorotoluene	112	70-130
1,2-Dichlorobenzene	116	70-130
1,2,4-Trichlorobenzene	132 Q	70-130
Hexachlorobutadiene	131 Q	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: LCS

Lab ID#: 1311079A-25E

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111906**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/13 06:22 PM**	

Compound	%Recovery	Method Limits
Freon 12	115	70-130
Freon 114	116	70-130
Chloromethane	102	70-130
Vinyl Chloride	116	70-130
1,3-Butadiene	104	70-130
Bromomethane	116	70-130
Chloroethane	113	70-130
Freon 11	111	70-130
Ethanol	86	70-130
Freon 113	123	70-130
1,1-Dichloroethene	123	70-130
Acetone	102	70-130
2-Propanol	89	70-130
Carbon Disulfide	116	70-130
3-Chloropropene	108	70-130
Methylene Chloride	105	70-130
Methyl tert-butyl ether	96	70-130
trans-1,2-Dichloroethene	111	70-130
Hexane	99	70-130
1,1-Dichloroethane	108	70-130
2-Butanone (Methyl Ethyl Ketone)	112	70-130
cis-1,2-Dichloroethene	111	70-130
Tetrahydrofuran	94	70-130
Chloroform	105	70-130
1,1,1-Trichloroethane	103	70-130
Cyclohexane	107	70-130
Carbon Tetrachloride	111	70-130
2,2,4-Trimethylpentane	108	70-130
Benzene	118	70-130
1,2-Dichloroethane	108	70-130
Heptane	114	70-130
Trichloroethene	112	70-130
1,2-Dichloropropane	112	70-130
1,4-Dioxane	122	70-130
Bromodichloromethane	132 Q	70-130
cis-1,3-Dichloropropene	109	70-130
4-Methyl-2-pentanone	105	70-130
Toluene	107	70-130
trans-1,3-Dichloropropene	93	70-130
1,1,2-Trichloroethane	100	70-130
Tetrachloroethene	109	70-130
2-Hexanone	91	70-130

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Client Sample ID: LCS

Lab ID#: 1311079A-25E

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111906**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/13 06:22 PM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	105	70-130
1,2-Dibromoethane (EDB)	103	70-130
Chlorobenzene	99	70-130
Ethyl Benzene	104	70-130
m,p-Xylene	104	70-130
o-Xylene	101	70-130
Styrene	102	70-130
Bromoform	114	70-130
Cumene	103	70-130
1,1,2,2-Tetrachloroethane	101	70-130
Propylbenzene	103	70-130
4-Ethyltoluene	113	70-130
1,3,5-Trimethylbenzene	106	70-130
1,2,4-Trimethylbenzene	107	70-130
1,3-Dichlorobenzene	108	70-130
1,4-Dichlorobenzene	104	70-130
alpha-Chlorotoluene	96	70-130
1,2-Dichlorobenzene	104	70-130
1,2,4-Trichlorobenzene	102	70-130
Hexachlorobutadiene	112	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	87	70-130
4-Bromofluorobenzene	110	70-130

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Client Sample ID: LCSD

Lab ID#: 1311079A-25EE

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111908**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/13 07:04 PM**	

Compound	%Recovery	Method Limits
Freon 12	117	70-130
Freon 114	118	70-130
Chloromethane	103	70-130
Vinyl Chloride	118	70-130
1,3-Butadiene	103	70-130
Bromomethane	117	70-130
Chloroethane	116	70-130
Freon 11	114	70-130
Ethanol	80	70-130
Freon 113	126	70-130
1,1-Dichloroethene	123	70-130
Acetone	101	70-130
2-Propanol	88	70-130
Carbon Disulfide	117	70-130
3-Chloropropene	105	70-130
Methylene Chloride	107	70-130
Methyl tert-butyl ether	96	70-130
trans-1,2-Dichloroethene	114	70-130
Hexane	100	70-130
1,1-Dichloroethane	108	70-130
2-Butanone (Methyl Ethyl Ketone)	115	70-130
cis-1,2-Dichloroethene	111	70-130
Tetrahydrofuran	95	70-130
Chloroform	107	70-130
1,1,1-Trichloroethane	106	70-130
Cyclohexane	109	70-130
Carbon Tetrachloride	113	70-130
2,2,4-Trimethylpentane	106	70-130
Benzene	119	70-130
1,2-Dichloroethane	111	70-130
Heptane	117	70-130
Trichloroethene	112	70-130
1,2-Dichloropropane	114	70-130
1,4-Dioxane	117	70-130
Bromodichloromethane	114	70-130
cis-1,3-Dichloropropene	112	70-130
4-Methyl-2-pentanone	103	70-130
Toluene	110	70-130
trans-1,3-Dichloropropene	93	70-130
1,1,2-Trichloroethane	100	70-130
Tetrachloroethene	107	70-130
2-Hexanone	90	70-130

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11/21/2013
Ms. Mariruth Gruis
Haley & Aldrich
11020 King Street, Suite 450

Overland Park KS 66210

Project Name: Leeds North Parcel
Project #: 37294-018
Workorder #: 1311079B

Dear Ms. Mariruth Gruis

The following report includes the data for the above referenced project for sample(s) received on 11/5/2013 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 APH are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 1311079B

Work Order Summary

CLIENT:	Ms. Mariruth Gruis Haley & Aldrich 11020 King Street, Suite 450 Overland Park, KS 66210	**BILL TO:**	Accounts Payable Haley & Aldrich 70 Blanchard Road Suite 430 Burlington, MA 02129-1400
PHONE:	913-599-5802	**P.O. #**	37294-018
FAX:		**PROJECT #**	37294-018 Leeds North Parcel
DATE RECEIVED:	11/05/2013	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	11/21/2013		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
03A	SV-2-5-001	Modified TO-15 APH	3.9 "Hg	5.4 psi
03B	SV-2-5-001	Modified TO-15 APH	3.9 "Hg	5.4 psi
04A	SV-2-10-001	Modified TO-15 APH	4.9 "Hg	5.2 psi
04B	SV-2-10-001	Modified TO-15 APH	4.9 "Hg	5 psi
10A	SV-5-5-001	Modified TO-15 APH	4.9 "Hg	5.5 psi
10B	SV-5-5-001	Modified TO-15 APH	4.9 "Hg	5 psi
11A	SV-5-10-001	Modified TO-15 APH	3.7 "Hg	5.1 psi
11B	SV-5-10-001	Modified TO-15 APH	3.7 "Hg	5 psi
12A	Lab Blank	Modified TO-15 APH	NA	NA
12B	Lab Blank	Modified TO-15 APH	NA	NA
12C	Lab Blank	Modified TO-15 APH	NA	NA
12D	Lab Blank	Modified TO-15 APH	NA	NA
13A	CCV	Modified TO-15 APH	NA	NA
13B	CCV	Modified TO-15 APH	NA	NA
13C	CCV	Modified TO-15 APH	NA	NA
13D	CCV	Modified TO-15 APH	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 11/21/13

Technical Director

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-13-6, UT NELAP CA009332013-4, VA NELAP - 460197, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2013, Expiration date: 10/17/2014.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 956
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 & VPH Fractions
Haley & Aldrich
Workorder# 1311079B

Four 6 Liter Summa Canister samples were received on November 05, 2013. The laboratory performed analysis via EPA Method TO-15 and Air Toxics VPH (Volatile Petroleum Hydrocarbon) methods for the Determination of VPH Fractions using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. This method is designed to measure gaseous phase aliphatic and aromatic compounds in ambient air and soil gas collected in stainless steel Summa canisters. Air Toxics VPH method is a hybrid of EPA TO-15, MADEP APH and WSDE VPH methods. Chromatographic peaks were identified via mass spectrum as either aliphatic or aromatic petroleum hydrocarbons and included in the appropriate range as defined by the method. The volatile Aliphatic hydrocarbons are collectively quantified within the C5 to C6 range, C6 to C8 range, C8 to C10 range and the C10 to C12 range. Additionally, the volatile Aromatic hydrocarbons are collectively quantified within the C8 to C10 range and the C10 to C12 range. The Aromatic ranges refer to the equivalent carbon (EC) ranges.

Aliphatic data is calculated from the Total Ion chromatogram which has been reprocessed in a duplicate file differentiated from the original by the addition of an alphanumeric extension. The Aromatic calculation also uses the information contained in the associated Extracted Ion file.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on samples SV-2-5-001, SV-2-10-001, SV-5-5-001 and SV-5-10-001 due to matrix interference.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified

b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SV-2-5-001

Lab ID#: 1311079B-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	660	9200	2100	30000
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	660	120000	2700	490000
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	660	82000	3800	480000
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	660	21000	4600	140000

Client Sample ID: SV-2-5-001

Lab ID#: 1311079B-03B

No Detections Were Found.

Client Sample ID: SV-2-10-001

Lab ID#: 1311079B-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	32	1400	100	4500
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	32	8100	130	33000
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	32	5500	190	32000
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	32	1200	220	8600

Client Sample ID: SV-2-10-001

Lab ID#: 1311079B-04B

No Detections Were Found.

Client Sample ID: SV-5-5-001

Lab ID#: 1311079B-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	160	7100	530	23000

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Summary of Detected Compounds
MODIFIED METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SV-5-5-001

Lab ID#: 1311079B-10A

>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	160	26000	670	100000
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	160	43000	950	250000
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	160	19000	1100	130000

Client Sample ID: SV-5-5-001

Lab ID#: 1311079B-10B

No Detections Were Found.

Client Sample ID: SV-5-10-001

Lab ID#: 1311079B-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	150	4500	500	14000
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	150	13000	630	54000
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	150	30000	890	170000
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	150	17000	1100	120000

Client Sample ID: SV-5-10-001

Lab ID#: 1311079B-11B

No Detections Were Found.

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Client Sample ID: SV-2-5-001

Lab ID#: 1311079B-03A

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**14111917a**	**Date of Collection: 10/29/13 4:16:00 PM**	
Dil. Factor:	**13.1**	**Date of Analysis: 11/19/13 07:54 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	660	9200	2100	30000
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	660	120000	2700	490000
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	660	82000	3800	480000
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	660	21000	4600	140000

Container Type: 6 Liter Summa Canister

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Client Sample ID: SV-2-5-001

Lab ID#: 1311079B-03B

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**14111917c**	**Date of Collection: 10/29/13 4:16:00 PM**	
Dil. Factor:	**13.1**	**Date of Analysis: 11/19/13 07:54 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
>C8-C10 Aromatic Hydrocarbons (ref. to 1,2,3-TMB)	660	Not Detected	3200	Not Detected
>C10-C12 Aromatic Hydrocarbons (ref. to 1,2,4,5-TMB)	660	Not Detected	3600	Not Detected

Container Type: 6 Liter Summa Canister

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Client Sample ID: SV-2-10-001

Lab ID#: 1311079B-04A

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111809a**	**Date of Collection: 10/29/13 4:07:00 PM**	
Dil. Factor:	**3.24**	**Date of Analysis: 11/18/13 02:13 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	32	1400	100	4500
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	32	8100	130	33000
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	32	5500	190	32000
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	32	1200	220	8600

Container Type: 6 Liter Summa Canister

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Client Sample ID: SV-2-10-001

Lab ID#: 1311079B-04B

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111809c**	**Date of Collection: 10/29/13 4:07:00 PM**	
Dil. Factor:	**3.24**	**Date of Analysis: 11/18/13 02:13 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
>C8-C10 Aromatic Hydrocarbons (ref. to 1,2,3-TMB)	32	Not Detected	160	Not Detected
>C10-C12 Aromatic Hydrocarbons (ref. to 1,2,4,5-TMB)	32	Not Detected	180	Not Detected

Container Type: 6 Liter Summa Canister

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Client Sample ID: SV-5-5-001

Lab ID#: 1311079B-10A

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111811a**	**Date of Collection: 10/30/13 10:22:00 AM**	
Dil. Factor:	**16.4**	**Date of Analysis: 11/18/13 03:48 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	160	7100	530	23000
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	160	26000	670	100000
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	160	43000	950	250000
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	160	19000	1100	130000

Container Type: 6 Liter Summa Canister

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Client Sample ID: SV-5-5-001

Lab ID#: 1311079B-10B

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111811c**	**Date of Collection: 10/30/13 10:22:00 AM**	
Dil. Factor:	**16.4**	**Date of Analysis: 11/18/13 03:48 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
>C8-C10 Aromatic Hydrocarbons (ref. to 1,2,3-TMB)	160	Not Detected	810	Not Detected
>C10-C12 Aromatic Hydrocarbons (ref. to 1,2,4,5-TMB)	160	Not Detected	900	Not Detected

Container Type: 6 Liter Summa Canister

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Client Sample ID: SV-5-10-001

Lab ID#: 1311079B-11A

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111810a**	**Date of Collection:**	**10/30/13 10:06:00 AM**
Dil. Factor:	**15.3**	**Date of Analysis:**	**11/18/13 03:12 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	150	4500	500	14000
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	150	13000	630	54000
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	150	30000	890	170000
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	150	17000	1100	120000

Container Type: 6 Liter Summa Canister

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Client Sample ID: SV-5-10-001

Lab ID#: 1311079B-11B

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111810c**	**Date of Collection:**	**10/30/13 10:06:00 AM**
Dil. Factor:	**15.3**	**Date of Analysis:**	**11/18/13 03:12 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
>C8-C10 Aromatic Hydrocarbons (ref. to 1,2,3-TMB)	150	Not Detected	750	Not Detected
>C10-C12 Aromatic Hydrocarbons (ref. to 1,2,4,5-TMB)	150	Not Detected	840	Not Detected

Container Type: 6 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1311079B-12A

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111806a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 11:09 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	10	Not Detected	32	Not Detected
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	10	Not Detected	41	Not Detected
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	10	Not Detected	58	Not Detected
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	10	Not Detected	70	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1311079B-12B

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111806c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 11:09 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
>C8-C10 Aromatic Hydrocarbons (ref. to 1,2,3-TMB)	10	Not Detected	49	Not Detected
>C10-C12 Aromatic Hydrocarbons (ref. to 1,2,4,5-TMB)	10	Not Detected	55	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1311079B-12C

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**14111907a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/13 12:27 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	50	Not Detected	160	Not Detected
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	50	Not Detected	200	Not Detected
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	50	Not Detected	290	Not Detected
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	50	Not Detected	350	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1311079B-12D

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**14111907c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/13 12:27 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
>C8-C10 Aromatic Hydrocarbons (ref. to 1,2,3-TMB)	50	Not Detected	240	Not Detected
>C10-C12 Aromatic Hydrocarbons (ref. to 1,2,4,5-TMB)	50	Not Detected	270	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: CCV

Lab ID#: 1311079B-13A

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111805a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 10:31 AM**	

Compound	%Recovery
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	84
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	79
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	83
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	77

Container Type: NA - Not Applicable

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Client Sample ID: CCV

Lab ID#: 1311079B-13B

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111805c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/18/13 10:31 AM**	

Compound	%Recovery
>C8-C10 Aromatic Hydrocarbons (ref. to 1,2,3-TMB)	77
>C10-C12 Aromatic Hydrocarbons (ref. to 1,2,4,5-TMB)	81

Container Type: NA - Not Applicable

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Client Sample ID: CCV

Lab ID#: 1311079B-13C

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**14111905a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/13 11:15 AM**	

Compound	%Recovery
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	92
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	81
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	89
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	72

Container Type: NA - Not Applicable

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Client Sample ID: CCV

Lab ID#: 1311079B-13D

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**14111905c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/13 11:15 AM**	

Compound	%Recovery
>C8-C10 Aromatic Hydrocarbons (ref. to 1,2,3-TMB)	82
>C10-C12 Aromatic Hydrocarbons (ref. to 1,2,4,5-TMB)	72

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1311079A-25EE

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3111908**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/13 07:04 PM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	104	70-130
1,2-Dibromoethane (EDB)	102	70-130
Chlorobenzene	98	70-130
Ethyl Benzene	103	70-130
m,p-Xylene	103	70-130
o-Xylene	101	70-130
Styrene	101	70-130
Bromoform	114	70-130
Cumene	103	70-130
1,1,2,2-Tetrachloroethane	102	70-130
Propylbenzene	103	70-130
4-Ethyltoluene	111	70-130
1,3,5-Trimethylbenzene	106	70-130
1,2,4-Trimethylbenzene	105	70-130
1,3-Dichlorobenzene	105	70-130
1,4-Dichlorobenzene	103	70-130
alpha-Chlorotoluene	96	70-130
1,2-Dichlorobenzene	103	70-130
1,2,4-Trichlorobenzene	104	70-130
Hexachlorobutadiene	112	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	108	70-130