

ANALYTICAL REPORT

Job Number: 480-117063-1

Job Description: Frewsburg Site #907016

Contract Number: C008010

For:

New York State D.E.C.
270 Michigan Avenue
Buffalo, NY 14203

Attention: Mr. Maurice Moore



Approved for release.
Orlette S. Johnson
Senior Project Manager
5/23/2017 2:10 PM

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05/23/2017

cc: Nicole Lindner
Thomas Palmer

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Job Number: 480-117063-1

Job Description: Frewsburg Site #907016

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

A handwritten signature in dark ink, appearing to read "Orlette S. Johnson", is positioned above a horizontal line.

Approved for release.
Orlette S Johnson
Senior Project Manager
5/23/2017 2:10 PM

Orlette S Johnson

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Job Narrative
480-117063-1

Receipt

The samples were received on 4/27/2017 3:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4° C.

GC/MS VOA

Method(s) 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 490-428030 recovered outside control limits for the following analytes: Dichlorodifluoromethane. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 490-428030 recovered outside control limits for the following analytes: Bromomethane and Dichlorodifluoromethane.

Method(s) 8260C: The following samples was diluted due to the nature of the sample matrix: MW-2 (480-117063-2), MW-3 (480-117063-3), MW-4 (480-117063-4), MW-9R (480-117063-11), MW-11R (480-117063-13), MW-12 (480-117063-14), MW-13 (480-117063-15), MW-14 (480-117063-16), and DUP-042517 (480-117063-17). Elevated reporting limits (RLs) are provided. High concentration of target analytes detected.

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 490-428184 recovered outside control limits for the following analytes: 1,4-Dichlorobenzene and Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 490-428592 recovered outside control limits for the following analytes: Dichlorodifluoromethane and Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

VOA Prep

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

Sample Summary

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-117063-1	MW-1	Water	04/26/17 08:45	04/27/17 15:25
480-117063-2	MW-2	Water	04/24/17 17:10	04/27/17 15:25
480-117063-3	MW-3	Water	04/26/17 13:20	04/27/17 15:25
480-117063-4	MW-4	Water	04/25/17 13:05	04/27/17 15:25
480-117063-5	MW-4D	Water	04/25/17 14:15	04/27/17 15:25
480-117063-6	MW-5	Water	04/25/17 11:05	04/27/17 15:25
480-117063-7	MW-5D	Water	04/25/17 10:00	04/27/17 15:25
480-117063-8	MW-6	Water	04/24/17 12:05	04/27/17 15:25
480-117063-9	MW-7	Water	04/25/17 17:25	04/27/17 15:25
480-117063-10	MW-8	Water	04/26/17 10:05	04/27/17 15:25
480-117063-11	MW-9R	Water	04/27/17 09:45	04/27/17 15:25
480-117063-12	MW-10	Water	04/24/17 15:50	04/27/17 15:25
480-117063-13	MW-11R	Water	04/24/17 13:55	04/27/17 15:25
480-117063-14	MW-12	Water	04/25/17 15:55	04/27/17 15:25
480-117063-15	MW-13	Water	04/26/17 14:45	04/27/17 15:25
480-117063-16	MW-14	Water	04/26/17 16:30	04/27/17 15:25
480-117063-17	DUP-042517	Water	04/25/17 00:00	04/27/17 15:25
480-117063-18	TRIP BLANK	Water	04/25/17 00:00	04/27/17 15:25

Detection Summary

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: MW-1

Lab Sample ID: 480-117063-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.3	J	25	2.7	ug/L	1		8260C	Total/NA

Client Sample ID: MW-2

Lab Sample ID: 480-117063-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.33	J	0.40	0.20	ug/L	1		8260C SIM	Total/NA
1,1-Dichloroethene	220	J	500	130	ug/L	500		8260C	Total/NA
cis-1,2-Dichloroethene	76000		500	110	ug/L	500		8260C	Total/NA
trans-1,2-Dichloroethene	660		500	120	ug/L	500		8260C	Total/NA
Vinyl chloride	34000		500	90	ug/L	500		8260C	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 480-117063-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	940		20	4.2	ug/L	20		8260C	Total/NA
trans-1,2-Dichloroethene	14	J	20	4.6	ug/L	20		8260C	Total/NA
Trichloroethene	4000		20	4.0	ug/L	20		8260C	Total/NA
Vinyl chloride	4.9	J	20	3.6	ug/L	20		8260C	Total/NA

Client Sample ID: MW-4

Lab Sample ID: 480-117063-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1100		250	53	ug/L	250		8260C	Total/NA
Trichloroethene	38000		250	50	ug/L	250		8260C	Total/NA

Client Sample ID: MW-4D

Lab Sample ID: 480-117063-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.8	J	25	2.7	ug/L	1		8260C	Total/NA

Client Sample ID: MW-5

Lab Sample ID: 480-117063-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.1	J	25	2.7	ug/L	1		8260C	Total/NA

Client Sample ID: MW-5D

Lab Sample ID: 480-117063-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.8	J	25	2.7	ug/L	1		8260C	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 480-117063-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.2	J	25	2.7	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	0.26	J	1.0	0.21	ug/L	1		8260C	Total/NA
Vinyl chloride	2.5		1.0	0.18	ug/L	1		8260C	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 480-117063-9

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: MW-7 (Continued)

Lab Sample ID: 480-117063-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.8	J	25	2.7	ug/L	1		8260C	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 480-117063-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.0	J	25	2.7	ug/L	1		8260C	Total/NA

Client Sample ID: MW-9R

Lab Sample ID: 480-117063-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	11	J	25	6.3	ug/L	25		8260C	Total/NA
cis-1,2-Dichloroethene	3800		25	5.3	ug/L	25		8260C	Total/NA
trans-1,2-Dichloroethene	33		25	5.8	ug/L	25		8260C	Total/NA
Trichloroethene	2600		25	5.0	ug/L	25		8260C	Total/NA
Vinyl chloride	400		25	4.5	ug/L	25		8260C	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 480-117063-12

No Detections.

Client Sample ID: MW-11R

Lab Sample ID: 480-117063-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	15		5.0	1.3	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	5400		100	21	ug/L	100		8260C	Total/NA
Tetrachloroethene	3.3	J	5.0	0.70	ug/L	5		8260C	Total/NA
trans-1,2-Dichloroethene	43		5.0	1.2	ug/L	5		8260C	Total/NA
Trichloroethene	17000		100	20	ug/L	100		8260C	Total/NA
Vinyl chloride	16		5.0	0.90	ug/L	5		8260C	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 480-117063-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	140		25	5.3	ug/L	25		8260C	Total/NA
Trichloroethene	4100		25	5.0	ug/L	25		8260C	Total/NA

Client Sample ID: MW-13

Lab Sample ID: 480-117063-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1200		200	42	ug/L	200		8260C	Total/NA
Trichloroethene	21000		200	40	ug/L	200		8260C	Total/NA

Client Sample ID: MW-14

Lab Sample ID: 480-117063-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1900		50	11	ug/L	50		8260C	Total/NA
trans-1,2-Dichloroethene	18	J	50	12	ug/L	50		8260C	Total/NA
Trichloroethene	8400		50	10	ug/L	50		8260C	Total/NA

Client Sample ID: DUP-042517

Lab Sample ID: 480-117063-17

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: DUP-042517 (Continued)

Lab Sample ID: 480-117063-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1100		50	11	ug/L	50			8260C	Total/NA
Trichloroethene	38000		500	100	ug/L	500			8260C	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-117063-18

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Method Summary

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL NSH
8260C SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL EDI

Protocol References:

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

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Client Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: MW-1

Date Collected: 04/26/17 08:45

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.20	ug/L			05/04/17 10:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		71 - 144					05/04/17 10:07	1
4-Bromofluorobenzene	93		72 - 133					05/04/17 10:07	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.19	ug/L			05/07/17 06:11	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.19	ug/L			05/07/17 06:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.15	ug/L			05/07/17 06:11	1
1,1,2-Trichloroethane	ND		1.0	0.19	ug/L			05/07/17 06:11	1
1,1-Dichloroethane	ND		1.0	0.24	ug/L			05/07/17 06:11	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			05/07/17 06:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			05/07/17 06:11	1
1,2-Dibromo-3-Chloropropane	ND		10	0.94	ug/L			05/07/17 06:11	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			05/07/17 06:11	1
1,2-Dichloroethane	ND		1.0	0.20	ug/L			05/07/17 06:11	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			05/07/17 06:11	1
1,3-Dichlorobenzene	ND		1.0	0.18	ug/L			05/07/17 06:11	1
1,4-Dichlorobenzene	ND		1.0	0.17	ug/L			05/07/17 06:11	1
2-Butanone (MEK)	ND		50	2.6	ug/L			05/07/17 06:11	1
2-Hexanone	ND		10	1.3	ug/L			05/07/17 06:11	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.81	ug/L			05/07/17 06:11	1
Acetone	3.3	J	25	2.7	ug/L			05/07/17 06:11	1
Benzene	ND		1.0	0.20	ug/L			05/07/17 06:11	1
Bromoform	ND		1.0	0.29	ug/L			05/07/17 06:11	1
Bromomethane	ND	*	1.0	0.35	ug/L			05/07/17 06:11	1
Carbon disulfide	ND		1.0	0.22	ug/L			05/07/17 06:11	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			05/07/17 06:11	1
Chlorobenzene	ND		1.0	0.18	ug/L			05/07/17 06:11	1
Dibromochloromethane	ND		1.0	0.25	ug/L			05/07/17 06:11	1
Chloroethane	ND		1.0	0.36	ug/L			05/07/17 06:11	1
Chloroform	ND		1.0	0.23	ug/L			05/07/17 06:11	1
Chloromethane	ND		1.0	0.36	ug/L			05/07/17 06:11	1
cis-1,2-Dichloroethene	ND		1.0	0.21	ug/L			05/07/17 06:11	1
Cyclohexane	ND		5.0	0.13	ug/L			05/07/17 06:11	1
Bromodichloromethane	ND		1.0	0.17	ug/L			05/07/17 06:11	1
Dichlorodifluoromethane	ND	*	1.0	0.17	ug/L			05/07/17 06:11	1
Ethylbenzene	ND		1.0	0.19	ug/L			05/07/17 06:11	1
1,2-Dibromoethane	ND		1.0	0.21	ug/L			05/07/17 06:11	1
Isopropylbenzene	ND		1.0	0.33	ug/L			05/07/17 06:11	1
Methyl acetate	ND		10	0.58	ug/L			05/07/17 06:11	1
Methyl tert-butyl ether	ND		1.0	0.17	ug/L			05/07/17 06:11	1
Methylcyclohexane	ND		5.0	0.090	ug/L			05/07/17 06:11	1
Methylene Chloride	ND		5.0	1.0	ug/L			05/07/17 06:11	1
Tetrachloroethene	ND		1.0	0.14	ug/L			05/07/17 06:11	1
Toluene	ND		1.0	0.17	ug/L			05/07/17 06:11	1
trans-1,2-Dichloroethene	ND		1.0	0.23	ug/L			05/07/17 06:11	1
trans-1,3-Dichloropropene	ND		1.0	0.17	ug/L			05/07/17 06:11	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: MW-1

Date Collected: 04/26/17 08:45

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		1.0	0.20	ug/L			05/07/17 06:11	1
Trichlorofluoromethane	ND		1.0	0.21	ug/L			05/07/17 06:11	1
Vinyl chloride	ND		1.0	0.18	ug/L			05/07/17 06:11	1
Xylenes, Total	ND		3.0	0.58	ug/L			05/07/17 06:11	1
cis-1,3-Dichloropropene	ND		1.0	0.17	ug/L			05/07/17 06:11	1
Styrene	ND		1.0	0.28	ug/L			05/07/17 06:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		05/07/17 06:11	1
4-Bromofluorobenzene (Surr)	104		70 - 130		05/07/17 06:11	1
Toluene-d8 (Surr)	94		70 - 130		05/07/17 06:11	1
Dibromofluoromethane (Surr)	96		70 - 130		05/07/17 06:11	1

Client Sample ID: MW-2

Date Collected: 04/24/17 17:10

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.33	J	0.40	0.20	ug/L			05/04/17 10:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	74		71 - 144		05/04/17 10:31	1
4-Bromofluorobenzene	75		72 - 133		05/04/17 10:31	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		500	95	ug/L			05/08/17 14:02	500
1,1,2,2-Tetrachloroethane	ND		500	95	ug/L			05/08/17 14:02	500
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		500	75	ug/L			05/08/17 14:02	500
1,1,2-Trichloroethane	ND		500	95	ug/L			05/08/17 14:02	500
1,1-Dichloroethane	ND		500	120	ug/L			05/08/17 14:02	500
1,1-Dichloroethene	220	J	500	130	ug/L			05/08/17 14:02	500
1,2,4-Trichlorobenzene	ND		500	100	ug/L			05/08/17 14:02	500
1,2-Dibromo-3-Chloropropane	ND		5000	470	ug/L			05/08/17 14:02	500
1,2-Dichlorobenzene	ND		500	95	ug/L			05/08/17 14:02	500
1,2-Dichloroethane	ND		500	100	ug/L			05/08/17 14:02	500
1,2-Dichloropropane	ND		500	130	ug/L			05/08/17 14:02	500
1,3-Dichlorobenzene	ND		500	90	ug/L			05/08/17 14:02	500
1,4-Dichlorobenzene	ND	*	500	85	ug/L			05/08/17 14:02	500
2-Butanone (MEK)	ND		25000	1300	ug/L			05/08/17 14:02	500
2-Hexanone	ND		5000	640	ug/L			05/08/17 14:02	500
4-Methyl-2-pentanone (MIBK)	ND		5000	410	ug/L			05/08/17 14:02	500
Acetone	ND		13000	1300	ug/L			05/08/17 14:02	500
Benzene	ND		500	100	ug/L			05/08/17 14:02	500
Bromoform	ND		500	150	ug/L			05/08/17 14:02	500
Bromomethane	ND		500	180	ug/L			05/08/17 14:02	500
Carbon disulfide	ND		500	110	ug/L			05/08/17 14:02	500
Carbon tetrachloride	ND		500	90	ug/L			05/08/17 14:02	500
Chlorobenzene	ND		500	90	ug/L			05/08/17 14:02	500

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: MW-2
Date Collected: 04/24/17 17:10
Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		500	130	ug/L			05/08/17 14:02	500
Chloroethane	ND		500	180	ug/L			05/08/17 14:02	500
Chloroform	ND		500	120	ug/L			05/08/17 14:02	500
Chloromethane	ND		500	180	ug/L			05/08/17 14:02	500
cis-1,2-Dichloroethene	76000		500	110	ug/L			05/08/17 14:02	500
Cyclohexane	ND		2500	65	ug/L			05/08/17 14:02	500
Bromodichloromethane	ND		500	85	ug/L			05/08/17 14:02	500
Dichlorodifluoromethane	ND		500	85	ug/L			05/08/17 14:02	500
Ethylbenzene	ND		500	95	ug/L			05/08/17 14:02	500
1,2-Dibromoethane	ND		500	110	ug/L			05/08/17 14:02	500
Isopropylbenzene	ND		500	170	ug/L			05/08/17 14:02	500
Methyl acetate	ND		5000	290	ug/L			05/08/17 14:02	500
Methyl tert-butyl ether	ND		500	85	ug/L			05/08/17 14:02	500
Methylcyclohexane	ND		2500	45	ug/L			05/08/17 14:02	500
Methylene Chloride	ND		2500	500	ug/L			05/08/17 14:02	500
Tetrachloroethene	ND		500	70	ug/L			05/08/17 14:02	500
Toluene	ND		500	85	ug/L			05/08/17 14:02	500
trans-1,2-Dichloroethene	660		500	120	ug/L			05/08/17 14:02	500
trans-1,3-Dichloropropene	ND		500	85	ug/L			05/08/17 14:02	500
Trichloroethene	ND		500	100	ug/L			05/08/17 14:02	500
Trichlorofluoromethane	ND *		500	110	ug/L			05/08/17 14:02	500
Vinyl chloride	34000		500	90	ug/L			05/08/17 14:02	500
Xylenes, Total	ND		1500	290	ug/L			05/08/17 14:02	500
cis-1,3-Dichloropropene	ND		500	85	ug/L			05/08/17 14:02	500
Styrene	ND		500	140	ug/L			05/08/17 14:02	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		05/08/17 14:02	500
4-Bromofluorobenzene (Surr)	115		70 - 130		05/08/17 14:02	500
Toluene-d8 (Surr)	100		70 - 130		05/08/17 14:02	500
Dibromofluoromethane (Surr)	103		70 - 130		05/08/17 14:02	500

Client Sample ID: MW-3
Date Collected: 04/26/17 13:20
Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.20	ug/L			05/04/17 10:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		71 - 144		05/04/17 10:54	1
4-Bromofluorobenzene	88		72 - 133		05/04/17 10:54	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	3.8	ug/L			05/07/17 10:15	20
1,1,1,2-Tetrachloroethane	ND		20	3.8	ug/L			05/07/17 10:15	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	3.0	ug/L			05/07/17 10:15	20
1,1,2-Trichloroethane	ND		20	3.8	ug/L			05/07/17 10:15	20

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: MW-3
Date Collected: 04/26/17 13:20
Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		20	4.8	ug/L			05/07/17 10:15	20
1,1-Dichloroethene	ND		20	5.0	ug/L			05/07/17 10:15	20
1,2,4-Trichlorobenzene	ND		20	4.0	ug/L			05/07/17 10:15	20
1,2-Dibromo-3-Chloropropane	ND		200	19	ug/L			05/07/17 10:15	20
1,2-Dichlorobenzene	ND		20	3.8	ug/L			05/07/17 10:15	20
1,2-Dichloroethane	ND		20	4.0	ug/L			05/07/17 10:15	20
1,2-Dichloropropane	ND		20	5.0	ug/L			05/07/17 10:15	20
1,3-Dichlorobenzene	ND		20	3.6	ug/L			05/07/17 10:15	20
1,4-Dichlorobenzene	ND		20	3.4	ug/L			05/07/17 10:15	20
2-Butanone (MEK)	ND		1000	53	ug/L			05/07/17 10:15	20
2-Hexanone	ND		200	26	ug/L			05/07/17 10:15	20
4-Methyl-2-pentanone (MIBK)	ND		200	16	ug/L			05/07/17 10:15	20
Acetone	ND		500	53	ug/L			05/07/17 10:15	20
Benzene	ND		20	4.0	ug/L			05/07/17 10:15	20
Bromoform	ND		20	5.8	ug/L			05/07/17 10:15	20
Bromomethane	ND	*	20	7.0	ug/L			05/07/17 10:15	20
Carbon disulfide	ND		20	4.4	ug/L			05/07/17 10:15	20
Carbon tetrachloride	ND		20	3.6	ug/L			05/07/17 10:15	20
Chlorobenzene	ND		20	3.6	ug/L			05/07/17 10:15	20
Dibromochloromethane	ND		20	5.0	ug/L			05/07/17 10:15	20
Chloroethane	ND		20	7.2	ug/L			05/07/17 10:15	20
Chloroform	ND		20	4.6	ug/L			05/07/17 10:15	20
Chloromethane	ND		20	7.2	ug/L			05/07/17 10:15	20
cis-1,2-Dichloroethene	940		20	4.2	ug/L			05/07/17 10:15	20
Cyclohexane	ND		100	2.6	ug/L			05/07/17 10:15	20
Bromodichloromethane	ND		20	3.4	ug/L			05/07/17 10:15	20
Dichlorodifluoromethane	ND	*	20	3.4	ug/L			05/07/17 10:15	20
Ethylbenzene	ND		20	3.8	ug/L			05/07/17 10:15	20
1,2-Dibromoethane	ND		20	4.2	ug/L			05/07/17 10:15	20
Isopropylbenzene	ND		20	6.6	ug/L			05/07/17 10:15	20
Methyl acetate	ND		200	12	ug/L			05/07/17 10:15	20
Methyl tert-butyl ether	ND		20	3.4	ug/L			05/07/17 10:15	20
Methylcyclohexane	ND		100	1.8	ug/L			05/07/17 10:15	20
Methylene Chloride	ND		100	20	ug/L			05/07/17 10:15	20
Tetrachloroethene	ND		20	2.8	ug/L			05/07/17 10:15	20
Toluene	ND		20	3.4	ug/L			05/07/17 10:15	20
trans-1,2-Dichloroethene	14 J		20	4.6	ug/L			05/07/17 10:15	20
trans-1,3-Dichloropropene	ND		20	3.4	ug/L			05/07/17 10:15	20
Trichloroethene	4000		20	4.0	ug/L			05/07/17 10:15	20
Trichlorofluoromethane	ND		20	4.2	ug/L			05/07/17 10:15	20
Vinyl chloride	4.9 J		20	3.6	ug/L			05/07/17 10:15	20
Xylenes, Total	ND		60	12	ug/L			05/07/17 10:15	20
cis-1,3-Dichloropropene	ND		20	3.4	ug/L			05/07/17 10:15	20
Styrene	ND		20	5.6	ug/L			05/07/17 10:15	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		05/07/17 10:15	20
4-Bromofluorobenzene (Surr)	103		70 - 130		05/07/17 10:15	20
Toluene-d8 (Surr)	95		70 - 130		05/07/17 10:15	20
Dibromofluoromethane (Surr)	98		70 - 130		05/07/17 10:15	20

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: MW-4
Date Collected: 04/25/17 13:05
Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.20	ug/L	-		05/04/17 11:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	76		71 - 144					05/04/17 11:18	1
4-Bromofluorobenzene	86		72 - 133					05/04/17 11:18	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		250	48	ug/L	-		05/07/17 10:42	250
1,1,2,2-Tetrachloroethane	ND		250	48	ug/L	-		05/07/17 10:42	250
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		250	38	ug/L	-		05/07/17 10:42	250
1,1,2-Trichloroethane	ND		250	48	ug/L	-		05/07/17 10:42	250
1,1-Dichloroethane	ND		250	60	ug/L	-		05/07/17 10:42	250
1,1-Dichloroethene	ND		250	63	ug/L	-		05/07/17 10:42	250
1,2,4-Trichlorobenzene	ND		250	50	ug/L	-		05/07/17 10:42	250
1,2-Dibromo-3-Chloropropane	ND		2500	240	ug/L	-		05/07/17 10:42	250
1,2-Dichlorobenzene	ND		250	48	ug/L	-		05/07/17 10:42	250
1,2-Dichloroethane	ND		250	50	ug/L	-		05/07/17 10:42	250
1,2-Dichloropropane	ND		250	63	ug/L	-		05/07/17 10:42	250
1,3-Dichlorobenzene	ND		250	45	ug/L	-		05/07/17 10:42	250
1,4-Dichlorobenzene	ND		250	43	ug/L	-		05/07/17 10:42	250
2-Butanone (MEK)	ND		13000	660	ug/L	-		05/07/17 10:42	250
2-Hexanone	ND		2500	320	ug/L	-		05/07/17 10:42	250
4-Methyl-2-pentanone (MIBK)	ND		2500	200	ug/L	-		05/07/17 10:42	250
Acetone	ND		6300	670	ug/L	-		05/07/17 10:42	250
Benzene	ND		250	50	ug/L	-		05/07/17 10:42	250
Bromoform	ND		250	73	ug/L	-		05/07/17 10:42	250
Bromomethane	ND	*	250	88	ug/L	-		05/07/17 10:42	250
Carbon disulfide	ND		250	55	ug/L	-		05/07/17 10:42	250
Carbon tetrachloride	ND		250	45	ug/L	-		05/07/17 10:42	250
Chlorobenzene	ND		250	45	ug/L	-		05/07/17 10:42	250
Dibromochloromethane	ND		250	63	ug/L	-		05/07/17 10:42	250
Chloroethane	ND		250	90	ug/L	-		05/07/17 10:42	250
Chloroform	ND		250	58	ug/L	-		05/07/17 10:42	250
Chloromethane	ND		250	90	ug/L	-		05/07/17 10:42	250
cis-1,2-Dichloroethene	1100		250	53	ug/L	-		05/07/17 10:42	250
Cyclohexane	ND		1300	33	ug/L	-		05/07/17 10:42	250
Bromodichloromethane	ND		250	43	ug/L	-		05/07/17 10:42	250
Dichlorodifluoromethane	ND	*	250	43	ug/L	-		05/07/17 10:42	250
Ethylbenzene	ND		250	48	ug/L	-		05/07/17 10:42	250
1,2-Dibromoethane	ND		250	53	ug/L	-		05/07/17 10:42	250
Isopropylbenzene	ND		250	83	ug/L	-		05/07/17 10:42	250
Methyl acetate	ND		2500	150	ug/L	-		05/07/17 10:42	250
Methyl tert-butyl ether	ND		250	43	ug/L	-		05/07/17 10:42	250
Methylcyclohexane	ND		1300	23	ug/L	-		05/07/17 10:42	250
Methylene Chloride	ND		1300	250	ug/L	-		05/07/17 10:42	250
Tetrachloroethene	ND		250	35	ug/L	-		05/07/17 10:42	250
Toluene	ND		250	43	ug/L	-		05/07/17 10:42	250
trans-1,2-Dichloroethene	ND		250	58	ug/L	-		05/07/17 10:42	250
trans-1,3-Dichloropropene	ND		250	43	ug/L	-		05/07/17 10:42	250

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: MW-4
Date Collected: 04/25/17 13:05
Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	38000		250	50	ug/L			05/07/17 10:42	250
Trichlorofluoromethane	ND		250	53	ug/L			05/07/17 10:42	250
Vinyl chloride	ND		250	45	ug/L			05/07/17 10:42	250
Xylenes, Total	ND		750	150	ug/L			05/07/17 10:42	250
cis-1,3-Dichloropropene	ND		250	43	ug/L			05/07/17 10:42	250
Styrene	ND		250	70	ug/L			05/07/17 10:42	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		05/07/17 10:42	250
4-Bromofluorobenzene (Surr)	102		70 - 130		05/07/17 10:42	250
Toluene-d8 (Surr)	93		70 - 130		05/07/17 10:42	250
Dibromofluoromethane (Surr)	97		70 - 130		05/07/17 10:42	250

Client Sample ID: MW-4D
Date Collected: 04/25/17 14:15
Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.20	ug/L			05/04/17 11:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77		71 - 144		05/04/17 11:42	1
4-Bromofluorobenzene	92		72 - 133		05/04/17 11:42	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.19	ug/L			05/07/17 06:38	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.19	ug/L			05/07/17 06:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.15	ug/L			05/07/17 06:38	1
1,1,2-Trichloroethane	ND		1.0	0.19	ug/L			05/07/17 06:38	1
1,1-Dichloroethane	ND		1.0	0.24	ug/L			05/07/17 06:38	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			05/07/17 06:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			05/07/17 06:38	1
1,2-Dibromo-3-Chloropropane	ND		10	0.94	ug/L			05/07/17 06:38	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			05/07/17 06:38	1
1,2-Dichloroethane	ND		1.0	0.20	ug/L			05/07/17 06:38	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			05/07/17 06:38	1
1,3-Dichlorobenzene	ND		1.0	0.18	ug/L			05/07/17 06:38	1
1,4-Dichlorobenzene	ND		1.0	0.17	ug/L			05/07/17 06:38	1
2-Butanone (MEK)	ND		50	2.6	ug/L			05/07/17 06:38	1
2-Hexanone	ND		10	1.3	ug/L			05/07/17 06:38	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.81	ug/L			05/07/17 06:38	1
Acetone	7.8 J		25	2.7	ug/L			05/07/17 06:38	1
Benzene	ND		1.0	0.20	ug/L			05/07/17 06:38	1
Bromoform	ND		1.0	0.29	ug/L			05/07/17 06:38	1
Bromomethane	ND *		1.0	0.35	ug/L			05/07/17 06:38	1
Carbon disulfide	ND		1.0	0.22	ug/L			05/07/17 06:38	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			05/07/17 06:38	1
Chlorobenzene	ND		1.0	0.18	ug/L			05/07/17 06:38	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: MW-4D

Date Collected: 04/25/17 14:15

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		1.0	0.25	ug/L			05/07/17 06:38	1
Chloroethane	ND		1.0	0.36	ug/L			05/07/17 06:38	1
Chloroform	ND		1.0	0.23	ug/L			05/07/17 06:38	1
Chloromethane	ND		1.0	0.36	ug/L			05/07/17 06:38	1
cis-1,2-Dichloroethene	ND		1.0	0.21	ug/L			05/07/17 06:38	1
Cyclohexane	ND		5.0	0.13	ug/L			05/07/17 06:38	1
Bromodichloromethane	ND		1.0	0.17	ug/L			05/07/17 06:38	1
Dichlorodifluoromethane	ND	*	1.0	0.17	ug/L			05/07/17 06:38	1
Ethylbenzene	ND		1.0	0.19	ug/L			05/07/17 06:38	1
1,2-Dibromoethane	ND		1.0	0.21	ug/L			05/07/17 06:38	1
Isopropylbenzene	ND		1.0	0.33	ug/L			05/07/17 06:38	1
Methyl acetate	ND		10	0.58	ug/L			05/07/17 06:38	1
Methyl tert-butyl ether	ND		1.0	0.17	ug/L			05/07/17 06:38	1
Methylcyclohexane	ND		5.0	0.090	ug/L			05/07/17 06:38	1
Methylene Chloride	ND		5.0	1.0	ug/L			05/07/17 06:38	1
Tetrachloroethene	ND		1.0	0.14	ug/L			05/07/17 06:38	1
Toluene	ND		1.0	0.17	ug/L			05/07/17 06:38	1
trans-1,2-Dichloroethene	ND		1.0	0.23	ug/L			05/07/17 06:38	1
trans-1,3-Dichloropropene	ND		1.0	0.17	ug/L			05/07/17 06:38	1
Trichloroethene	ND		1.0	0.20	ug/L			05/07/17 06:38	1
Trichlorofluoromethane	ND		1.0	0.21	ug/L			05/07/17 06:38	1
Vinyl chloride	ND		1.0	0.18	ug/L			05/07/17 06:38	1
Xylenes, Total	ND		3.0	0.58	ug/L			05/07/17 06:38	1
cis-1,3-Dichloropropene	ND		1.0	0.17	ug/L			05/07/17 06:38	1
Styrene	ND		1.0	0.28	ug/L			05/07/17 06:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		05/07/17 06:38	1
4-Bromofluorobenzene (Surr)	105		70 - 130		05/07/17 06:38	1
Toluene-d8 (Surr)	91		70 - 130		05/07/17 06:38	1
Dibromofluoromethane (Surr)	95		70 - 130		05/07/17 06:38	1

Client Sample ID: MW-5

Date Collected: 04/25/17 11:05

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.20	ug/L			05/04/17 12:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		71 - 144		05/04/17 12:05	1
4-Bromofluorobenzene	91		72 - 133		05/04/17 12:05	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.19	ug/L			05/07/17 07:05	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.19	ug/L			05/07/17 07:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.15	ug/L			05/07/17 07:05	1
1,1,2-Trichloroethane	ND		1.0	0.19	ug/L			05/07/17 07:05	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: MW-5
Date Collected: 04/25/17 11:05
Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		1.0	0.24	ug/L			05/07/17 07:05	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			05/07/17 07:05	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			05/07/17 07:05	1
1,2-Dibromo-3-Chloropropane	ND		10	0.94	ug/L			05/07/17 07:05	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			05/07/17 07:05	1
1,2-Dichloroethane	ND		1.0	0.20	ug/L			05/07/17 07:05	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			05/07/17 07:05	1
1,3-Dichlorobenzene	ND		1.0	0.18	ug/L			05/07/17 07:05	1
1,4-Dichlorobenzene	ND		1.0	0.17	ug/L			05/07/17 07:05	1
2-Butanone (MEK)	ND		50	2.6	ug/L			05/07/17 07:05	1
2-Hexanone	ND		10	1.3	ug/L			05/07/17 07:05	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.81	ug/L			05/07/17 07:05	1
Acetone	3.1	J	25	2.7	ug/L			05/07/17 07:05	1
Benzene	ND		1.0	0.20	ug/L			05/07/17 07:05	1
Bromoform	ND		1.0	0.29	ug/L			05/07/17 07:05	1
Bromomethane	ND	*	1.0	0.35	ug/L			05/07/17 07:05	1
Carbon disulfide	ND		1.0	0.22	ug/L			05/07/17 07:05	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			05/07/17 07:05	1
Chlorobenzene	ND		1.0	0.18	ug/L			05/07/17 07:05	1
Dibromochloromethane	ND		1.0	0.25	ug/L			05/07/17 07:05	1
Chloroethane	ND		1.0	0.36	ug/L			05/07/17 07:05	1
Chloroform	ND		1.0	0.23	ug/L			05/07/17 07:05	1
Chloromethane	ND		1.0	0.36	ug/L			05/07/17 07:05	1
cis-1,2-Dichloroethene	ND		1.0	0.21	ug/L			05/07/17 07:05	1
Cyclohexane	ND		5.0	0.13	ug/L			05/07/17 07:05	1
Bromodichloromethane	ND		1.0	0.17	ug/L			05/07/17 07:05	1
Dichlorodifluoromethane	ND	*	1.0	0.17	ug/L			05/07/17 07:05	1
Ethylbenzene	ND		1.0	0.19	ug/L			05/07/17 07:05	1
1,2-Dibromoethane	ND		1.0	0.21	ug/L			05/07/17 07:05	1
Isopropylbenzene	ND		1.0	0.33	ug/L			05/07/17 07:05	1
Methyl acetate	ND		10	0.58	ug/L			05/07/17 07:05	1
Methyl tert-butyl ether	ND		1.0	0.17	ug/L			05/07/17 07:05	1
Methylcyclohexane	ND		5.0	0.090	ug/L			05/07/17 07:05	1
Methylene Chloride	ND		5.0	1.0	ug/L			05/07/17 07:05	1
Tetrachloroethene	ND		1.0	0.14	ug/L			05/07/17 07:05	1
Toluene	ND		1.0	0.17	ug/L			05/07/17 07:05	1
trans-1,2-Dichloroethene	ND		1.0	0.23	ug/L			05/07/17 07:05	1
trans-1,3-Dichloropropene	ND		1.0	0.17	ug/L			05/07/17 07:05	1
Trichloroethene	ND		1.0	0.20	ug/L			05/07/17 07:05	1
Trichlorofluoromethane	ND		1.0	0.21	ug/L			05/07/17 07:05	1
Vinyl chloride	ND		1.0	0.18	ug/L			05/07/17 07:05	1
Xylenes, Total	ND		3.0	0.58	ug/L			05/07/17 07:05	1
cis-1,3-Dichloropropene	ND		1.0	0.17	ug/L			05/07/17 07:05	1
Styrene	ND		1.0	0.28	ug/L			05/07/17 07:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		05/07/17 07:05	1
4-Bromofluorobenzene (Surr)	103		70 - 130		05/07/17 07:05	1
Toluene-d8 (Surr)	93		70 - 130		05/07/17 07:05	1
Dibromofluoromethane (Surr)	98		70 - 130		05/07/17 07:05	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: MW-5D

Date Collected: 04/25/17 10:00

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.20	ug/L	-		05/04/17 12:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		71 - 144					05/04/17 12:29	1
4-Bromofluorobenzene	89		72 - 133					05/04/17 12:29	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.19	ug/L	-		05/07/17 07:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.19	ug/L	-		05/07/17 07:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.15	ug/L	-		05/07/17 07:32	1
1,1,2-Trichloroethane	ND		1.0	0.19	ug/L	-		05/07/17 07:32	1
1,1-Dichloroethane	ND		1.0	0.24	ug/L	-		05/07/17 07:32	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L	-		05/07/17 07:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L	-		05/07/17 07:32	1
1,2-Dibromo-3-Chloropropane	ND		10	0.94	ug/L	-		05/07/17 07:32	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L	-		05/07/17 07:32	1
1,2-Dichloroethane	ND		1.0	0.20	ug/L	-		05/07/17 07:32	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L	-		05/07/17 07:32	1
1,3-Dichlorobenzene	ND		1.0	0.18	ug/L	-		05/07/17 07:32	1
1,4-Dichlorobenzene	ND		1.0	0.17	ug/L	-		05/07/17 07:32	1
2-Butanone (MEK)	ND		50	2.6	ug/L	-		05/07/17 07:32	1
2-Hexanone	ND		10	1.3	ug/L	-		05/07/17 07:32	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.81	ug/L	-		05/07/17 07:32	1
Acetone	6.8	J	25	2.7	ug/L	-		05/07/17 07:32	1
Benzene	ND		1.0	0.20	ug/L	-		05/07/17 07:32	1
Bromoform	ND		1.0	0.29	ug/L	-		05/07/17 07:32	1
Bromomethane	ND	*	1.0	0.35	ug/L	-		05/07/17 07:32	1
Carbon disulfide	ND		1.0	0.22	ug/L	-		05/07/17 07:32	1
Carbon tetrachloride	ND		1.0	0.18	ug/L	-		05/07/17 07:32	1
Chlorobenzene	ND		1.0	0.18	ug/L	-		05/07/17 07:32	1
Dibromochloromethane	ND		1.0	0.25	ug/L	-		05/07/17 07:32	1
Chloroethane	ND		1.0	0.36	ug/L	-		05/07/17 07:32	1
Chloroform	ND		1.0	0.23	ug/L	-		05/07/17 07:32	1
Chloromethane	ND		1.0	0.36	ug/L	-		05/07/17 07:32	1
cis-1,2-Dichloroethene	ND		1.0	0.21	ug/L	-		05/07/17 07:32	1
Cyclohexane	ND		5.0	0.13	ug/L	-		05/07/17 07:32	1
Bromodichloromethane	ND		1.0	0.17	ug/L	-		05/07/17 07:32	1
Dichlorodifluoromethane	ND	*	1.0	0.17	ug/L	-		05/07/17 07:32	1
Ethylbenzene	ND		1.0	0.19	ug/L	-		05/07/17 07:32	1
1,2-Dibromoethane	ND		1.0	0.21	ug/L	-		05/07/17 07:32	1
Isopropylbenzene	ND		1.0	0.33	ug/L	-		05/07/17 07:32	1
Methyl acetate	ND		10	0.58	ug/L	-		05/07/17 07:32	1
Methyl tert-butyl ether	ND		1.0	0.17	ug/L	-		05/07/17 07:32	1
Methylcyclohexane	ND		5.0	0.090	ug/L	-		05/07/17 07:32	1
Methylene Chloride	ND		5.0	1.0	ug/L	-		05/07/17 07:32	1
Tetrachloroethene	ND		1.0	0.14	ug/L	-		05/07/17 07:32	1
Toluene	ND		1.0	0.17	ug/L	-		05/07/17 07:32	1
trans-1,2-Dichloroethene	ND		1.0	0.23	ug/L	-		05/07/17 07:32	1
trans-1,3-Dichloropropene	ND		1.0	0.17	ug/L	-		05/07/17 07:32	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: MW-5D

Date Collected: 04/25/17 10:00

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		1.0	0.20	ug/L			05/07/17 07:32	1
Trichlorofluoromethane	ND		1.0	0.21	ug/L			05/07/17 07:32	1
Vinyl chloride	ND		1.0	0.18	ug/L			05/07/17 07:32	1
Xylenes, Total	ND		3.0	0.58	ug/L			05/07/17 07:32	1
cis-1,3-Dichloropropene	ND		1.0	0.17	ug/L			05/07/17 07:32	1
Styrene	ND		1.0	0.28	ug/L			05/07/17 07:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		05/07/17 07:32	1
4-Bromofluorobenzene (Surr)	101		70 - 130		05/07/17 07:32	1
Toluene-d8 (Surr)	94		70 - 130		05/07/17 07:32	1
Dibromofluoromethane (Surr)	97		70 - 130		05/07/17 07:32	1

Client Sample ID: MW-6

Date Collected: 04/24/17 12:05

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.20	ug/L			05/04/17 12:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	72		71 - 144		05/04/17 12:52	1
4-Bromofluorobenzene	82		72 - 133		05/04/17 12:52	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.19	ug/L			05/07/17 07:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.19	ug/L			05/07/17 07:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.15	ug/L			05/07/17 07:59	1
1,1,2-Trichloroethane	ND		1.0	0.19	ug/L			05/07/17 07:59	1
1,1-Dichloroethane	ND		1.0	0.24	ug/L			05/07/17 07:59	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			05/07/17 07:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			05/07/17 07:59	1
1,2-Dibromo-3-Chloropropane	ND		10	0.94	ug/L			05/07/17 07:59	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			05/07/17 07:59	1
1,2-Dichloroethane	ND		1.0	0.20	ug/L			05/07/17 07:59	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			05/07/17 07:59	1
1,3-Dichlorobenzene	ND		1.0	0.18	ug/L			05/07/17 07:59	1
1,4-Dichlorobenzene	ND		1.0	0.17	ug/L			05/07/17 07:59	1
2-Butanone (MEK)	ND		50	2.6	ug/L			05/07/17 07:59	1
2-Hexanone	ND		10	1.3	ug/L			05/07/17 07:59	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.81	ug/L			05/07/17 07:59	1
Acetone	6.2	J	25	2.7	ug/L			05/07/17 07:59	1
Benzene	ND		1.0	0.20	ug/L			05/07/17 07:59	1
Bromoform	ND		1.0	0.29	ug/L			05/07/17 07:59	1
Bromomethane	ND	*	1.0	0.35	ug/L			05/07/17 07:59	1
Carbon disulfide	ND		1.0	0.22	ug/L			05/07/17 07:59	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			05/07/17 07:59	1
Chlorobenzene	ND		1.0	0.18	ug/L			05/07/17 07:59	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: MW-6
Date Collected: 04/24/17 12:05
Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		1.0	0.25	ug/L			05/07/17 07:59	1
Chloroethane	ND		1.0	0.36	ug/L			05/07/17 07:59	1
Chloroform	ND		1.0	0.23	ug/L			05/07/17 07:59	1
Chloromethane	ND		1.0	0.36	ug/L			05/07/17 07:59	1
cis-1,2-Dichloroethene	0.26	J	1.0	0.21	ug/L			05/07/17 07:59	1
Cyclohexane	ND		5.0	0.13	ug/L			05/07/17 07:59	1
Bromodichloromethane	ND		1.0	0.17	ug/L			05/07/17 07:59	1
Dichlorodifluoromethane	ND	*	1.0	0.17	ug/L			05/07/17 07:59	1
Ethylbenzene	ND		1.0	0.19	ug/L			05/07/17 07:59	1
1,2-Dibromoethane	ND		1.0	0.21	ug/L			05/07/17 07:59	1
Isopropylbenzene	ND		1.0	0.33	ug/L			05/07/17 07:59	1
Methyl acetate	ND		10	0.58	ug/L			05/07/17 07:59	1
Methyl tert-butyl ether	ND		1.0	0.17	ug/L			05/07/17 07:59	1
Methylcyclohexane	ND		5.0	0.090	ug/L			05/07/17 07:59	1
Methylene Chloride	ND		5.0	1.0	ug/L			05/07/17 07:59	1
Tetrachloroethene	ND		1.0	0.14	ug/L			05/07/17 07:59	1
Toluene	ND		1.0	0.17	ug/L			05/07/17 07:59	1
trans-1,2-Dichloroethene	ND		1.0	0.23	ug/L			05/07/17 07:59	1
trans-1,3-Dichloropropene	ND		1.0	0.17	ug/L			05/07/17 07:59	1
Trichloroethene	ND		1.0	0.20	ug/L			05/07/17 07:59	1
Trichlorofluoromethane	ND		1.0	0.21	ug/L			05/07/17 07:59	1
Vinyl chloride	2.5		1.0	0.18	ug/L			05/07/17 07:59	1
Xylenes, Total	ND		3.0	0.58	ug/L			05/07/17 07:59	1
cis-1,3-Dichloropropene	ND		1.0	0.17	ug/L			05/07/17 07:59	1
Styrene	ND		1.0	0.28	ug/L			05/07/17 07:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		05/07/17 07:59	1
4-Bromofluorobenzene (Surr)	103		70 - 130		05/07/17 07:59	1
Toluene-d8 (Surr)	93		70 - 130		05/07/17 07:59	1
Dibromofluoromethane (Surr)	95		70 - 130		05/07/17 07:59	1

Client Sample ID: MW-7
Date Collected: 04/25/17 17:25
Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.20	ug/L			05/04/17 13:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77		71 - 144		05/04/17 13:15	1
4-Bromofluorobenzene	90		72 - 133		05/04/17 13:15	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.19	ug/L			05/07/17 08:26	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.19	ug/L			05/07/17 08:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.15	ug/L			05/07/17 08:26	1
1,1,2-Trichloroethane	ND		1.0	0.19	ug/L			05/07/17 08:26	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: MW-7
Date Collected: 04/25/17 17:25
Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		1.0	0.24	ug/L			05/07/17 08:26	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			05/07/17 08:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			05/07/17 08:26	1
1,2-Dibromo-3-Chloropropane	ND		10	0.94	ug/L			05/07/17 08:26	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			05/07/17 08:26	1
1,2-Dichloroethane	ND		1.0	0.20	ug/L			05/07/17 08:26	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			05/07/17 08:26	1
1,3-Dichlorobenzene	ND		1.0	0.18	ug/L			05/07/17 08:26	1
1,4-Dichlorobenzene	ND		1.0	0.17	ug/L			05/07/17 08:26	1
2-Butanone (MEK)	ND		50	2.6	ug/L			05/07/17 08:26	1
2-Hexanone	ND		10	1.3	ug/L			05/07/17 08:26	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.81	ug/L			05/07/17 08:26	1
Acetone	4.8	J	25	2.7	ug/L			05/07/17 08:26	1
Benzene	ND		1.0	0.20	ug/L			05/07/17 08:26	1
Bromoform	ND		1.0	0.29	ug/L			05/07/17 08:26	1
Bromomethane	ND	*	1.0	0.35	ug/L			05/07/17 08:26	1
Carbon disulfide	ND		1.0	0.22	ug/L			05/07/17 08:26	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			05/07/17 08:26	1
Chlorobenzene	ND		1.0	0.18	ug/L			05/07/17 08:26	1
Dibromochloromethane	ND		1.0	0.25	ug/L			05/07/17 08:26	1
Chloroethane	ND		1.0	0.36	ug/L			05/07/17 08:26	1
Chloroform	ND		1.0	0.23	ug/L			05/07/17 08:26	1
Chloromethane	ND		1.0	0.36	ug/L			05/07/17 08:26	1
cis-1,2-Dichloroethene	ND		1.0	0.21	ug/L			05/07/17 08:26	1
Cyclohexane	ND		5.0	0.13	ug/L			05/07/17 08:26	1
Bromodichloromethane	ND		1.0	0.17	ug/L			05/07/17 08:26	1
Dichlorodifluoromethane	ND	*	1.0	0.17	ug/L			05/07/17 08:26	1
Ethylbenzene	ND		1.0	0.19	ug/L			05/07/17 08:26	1
1,2-Dibromoethane	ND		1.0	0.21	ug/L			05/07/17 08:26	1
Isopropylbenzene	ND		1.0	0.33	ug/L			05/07/17 08:26	1
Methyl acetate	ND		10	0.58	ug/L			05/07/17 08:26	1
Methyl tert-butyl ether	ND		1.0	0.17	ug/L			05/07/17 08:26	1
Methylcyclohexane	ND		5.0	0.090	ug/L			05/07/17 08:26	1
Methylene Chloride	ND		5.0	1.0	ug/L			05/07/17 08:26	1
Tetrachloroethene	ND		1.0	0.14	ug/L			05/07/17 08:26	1
Toluene	ND		1.0	0.17	ug/L			05/07/17 08:26	1
trans-1,2-Dichloroethene	ND		1.0	0.23	ug/L			05/07/17 08:26	1
trans-1,3-Dichloropropene	ND		1.0	0.17	ug/L			05/07/17 08:26	1
Trichloroethene	ND		1.0	0.20	ug/L			05/07/17 08:26	1
Trichlorofluoromethane	ND		1.0	0.21	ug/L			05/07/17 08:26	1
Vinyl chloride	ND		1.0	0.18	ug/L			05/07/17 08:26	1
Xylenes, Total	ND		3.0	0.58	ug/L			05/07/17 08:26	1
cis-1,3-Dichloropropene	ND		1.0	0.17	ug/L			05/07/17 08:26	1
Styrene	ND		1.0	0.28	ug/L			05/07/17 08:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		05/07/17 08:26	1
4-Bromofluorobenzene (Surr)	102		70 - 130		05/07/17 08:26	1
Toluene-d8 (Surr)	94		70 - 130		05/07/17 08:26	1
Dibromofluoromethane (Surr)	97		70 - 130		05/07/17 08:26	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: MW-8
Date Collected: 04/26/17 10:05
Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.20	ug/L			05/04/17 13:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77		71 - 144					05/04/17 13:39	1
4-Bromofluorobenzene	89		72 - 133					05/04/17 13:39	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.19	ug/L			05/07/17 08:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.19	ug/L			05/07/17 08:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.15	ug/L			05/07/17 08:53	1
1,1,2-Trichloroethane	ND		1.0	0.19	ug/L			05/07/17 08:53	1
1,1-Dichloroethane	ND		1.0	0.24	ug/L			05/07/17 08:53	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			05/07/17 08:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			05/07/17 08:53	1
1,2-Dibromo-3-Chloropropane	ND		10	0.94	ug/L			05/07/17 08:53	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			05/07/17 08:53	1
1,2-Dichloroethane	ND		1.0	0.20	ug/L			05/07/17 08:53	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			05/07/17 08:53	1
1,3-Dichlorobenzene	ND		1.0	0.18	ug/L			05/07/17 08:53	1
1,4-Dichlorobenzene	ND		1.0	0.17	ug/L			05/07/17 08:53	1
2-Butanone (MEK)	ND		50	2.6	ug/L			05/07/17 08:53	1
2-Hexanone	ND		10	1.3	ug/L			05/07/17 08:53	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.81	ug/L			05/07/17 08:53	1
Acetone	4.0	J	25	2.7	ug/L			05/07/17 08:53	1
Benzene	ND		1.0	0.20	ug/L			05/07/17 08:53	1
Bromoform	ND		1.0	0.29	ug/L			05/07/17 08:53	1
Bromomethane	ND	*	1.0	0.35	ug/L			05/07/17 08:53	1
Carbon disulfide	ND		1.0	0.22	ug/L			05/07/17 08:53	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			05/07/17 08:53	1
Chlorobenzene	ND		1.0	0.18	ug/L			05/07/17 08:53	1
Dibromochloromethane	ND		1.0	0.25	ug/L			05/07/17 08:53	1
Chloroethane	ND		1.0	0.36	ug/L			05/07/17 08:53	1
Chloroform	ND		1.0	0.23	ug/L			05/07/17 08:53	1
Chloromethane	ND		1.0	0.36	ug/L			05/07/17 08:53	1
cis-1,2-Dichloroethene	ND		1.0	0.21	ug/L			05/07/17 08:53	1
Cyclohexane	ND		5.0	0.13	ug/L			05/07/17 08:53	1
Bromodichloromethane	ND		1.0	0.17	ug/L			05/07/17 08:53	1
Dichlorodifluoromethane	ND	*	1.0	0.17	ug/L			05/07/17 08:53	1
Ethylbenzene	ND		1.0	0.19	ug/L			05/07/17 08:53	1
1,2-Dibromoethane	ND		1.0	0.21	ug/L			05/07/17 08:53	1
Isopropylbenzene	ND		1.0	0.33	ug/L			05/07/17 08:53	1
Methyl acetate	ND		10	0.58	ug/L			05/07/17 08:53	1
Methyl tert-butyl ether	ND		1.0	0.17	ug/L			05/07/17 08:53	1
Methylcyclohexane	ND		5.0	0.090	ug/L			05/07/17 08:53	1
Methylene Chloride	ND		5.0	1.0	ug/L			05/07/17 08:53	1
Tetrachloroethene	ND		1.0	0.14	ug/L			05/07/17 08:53	1
Toluene	ND		1.0	0.17	ug/L			05/07/17 08:53	1
trans-1,2-Dichloroethene	ND		1.0	0.23	ug/L			05/07/17 08:53	1
trans-1,3-Dichloropropene	ND		1.0	0.17	ug/L			05/07/17 08:53	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: MW-8
Date Collected: 04/26/17 10:05
Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		1.0	0.20	ug/L			05/07/17 08:53	1
Trichlorofluoromethane	ND		1.0	0.21	ug/L			05/07/17 08:53	1
Vinyl chloride	ND		1.0	0.18	ug/L			05/07/17 08:53	1
Xylenes, Total	ND		3.0	0.58	ug/L			05/07/17 08:53	1
cis-1,3-Dichloropropene	ND		1.0	0.17	ug/L			05/07/17 08:53	1
Styrene	ND		1.0	0.28	ug/L			05/07/17 08:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		05/07/17 08:53	1
4-Bromofluorobenzene (Surr)	100		70 - 130		05/07/17 08:53	1
Toluene-d8 (Surr)	92		70 - 130		05/07/17 08:53	1
Dibromofluoromethane (Surr)	97		70 - 130		05/07/17 08:53	1

Client Sample ID: MW-9R
Date Collected: 04/27/17 09:45
Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.20	ug/L			05/04/17 14:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		71 - 144		05/04/17 14:02	1
4-Bromofluorobenzene	89		72 - 133		05/04/17 14:02	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		25	4.8	ug/L			05/09/17 15:32	25
1,1,2,2-Tetrachloroethane	ND		25	4.8	ug/L			05/09/17 15:32	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25	3.8	ug/L			05/09/17 15:32	25
1,1,2-Trichloroethane	ND		25	4.8	ug/L			05/09/17 15:32	25
1,1-Dichloroethane	ND		25	6.0	ug/L			05/09/17 15:32	25
1,1-Dichloroethene	11	J	25	6.3	ug/L			05/09/17 15:32	25
1,2,4-Trichlorobenzene	ND		25	5.0	ug/L			05/09/17 15:32	25
1,2-Dibromo-3-Chloropropane	ND		250	24	ug/L			05/09/17 15:32	25
1,2-Dichlorobenzene	ND		25	4.8	ug/L			05/09/17 15:32	25
1,2-Dichloroethane	ND		25	5.0	ug/L			05/09/17 15:32	25
1,2-Dichloropropane	ND		25	6.3	ug/L			05/09/17 15:32	25
1,3-Dichlorobenzene	ND		25	4.5	ug/L			05/09/17 15:32	25
1,4-Dichlorobenzene	ND		25	4.3	ug/L			05/09/17 15:32	25
2-Butanone (MEK)	ND		1300	66	ug/L			05/09/17 15:32	25
2-Hexanone	ND		250	32	ug/L			05/09/17 15:32	25
4-Methyl-2-pentanone (MIBK)	ND		250	20	ug/L			05/09/17 15:32	25
Acetone	ND		630	67	ug/L			05/09/17 15:32	25
Benzene	ND		25	5.0	ug/L			05/09/17 15:32	25
Bromoform	ND		25	7.3	ug/L			05/09/17 15:32	25
Bromomethane	ND		25	8.8	ug/L			05/09/17 15:32	25
Carbon disulfide	ND		25	5.5	ug/L			05/09/17 15:32	25
Carbon tetrachloride	ND		25	4.5	ug/L			05/09/17 15:32	25
Chlorobenzene	ND		25	4.5	ug/L			05/09/17 15:32	25

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: MW-9R

Date Collected: 04/27/17 09:45

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		25	6.3	ug/L			05/09/17 15:32	25
Chloroethane	ND		25	9.0	ug/L			05/09/17 15:32	25
Chloroform	ND		25	5.8	ug/L			05/09/17 15:32	25
Chloromethane	ND		25	9.0	ug/L			05/09/17 15:32	25
cis-1,2-Dichloroethene	3800		25	5.3	ug/L			05/09/17 15:32	25
Cyclohexane	ND		130	3.3	ug/L			05/09/17 15:32	25
Bromodichloromethane	ND		25	4.3	ug/L			05/09/17 15:32	25
Dichlorodifluoromethane	ND	*	25	4.3	ug/L			05/09/17 15:32	25
Ethylbenzene	ND		25	4.8	ug/L			05/09/17 15:32	25
1,2-Dibromoethane	ND		25	5.3	ug/L			05/09/17 15:32	25
Isopropylbenzene	ND		25	8.3	ug/L			05/09/17 15:32	25
Methyl acetate	ND		250	15	ug/L			05/09/17 15:32	25
Methyl tert-butyl ether	ND		25	4.3	ug/L			05/09/17 15:32	25
Methylcyclohexane	ND		130	2.3	ug/L			05/09/17 15:32	25
Methylene Chloride	ND		130	25	ug/L			05/09/17 15:32	25
Tetrachloroethene	ND		25	3.5	ug/L			05/09/17 15:32	25
Toluene	ND		25	4.3	ug/L			05/09/17 15:32	25
trans-1,2-Dichloroethene	33		25	5.8	ug/L			05/09/17 15:32	25
trans-1,3-Dichloropropene	ND		25	4.3	ug/L			05/09/17 15:32	25
Trichloroethene	2600		25	5.0	ug/L			05/09/17 15:32	25
Trichlorofluoromethane	ND	*	25	5.3	ug/L			05/09/17 15:32	25
Vinyl chloride	400		25	4.5	ug/L			05/09/17 15:32	25
Xylenes, Total	ND		75	15	ug/L			05/09/17 15:32	25
cis-1,3-Dichloropropene	ND		25	4.3	ug/L			05/09/17 15:32	25
Styrene	ND		25	7.0	ug/L			05/09/17 15:32	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		05/09/17 15:32	25
4-Bromofluorobenzene (Surr)	103		70 - 130		05/09/17 15:32	25
Toluene-d8 (Surr)	90		70 - 130		05/09/17 15:32	25
Dibromofluoromethane (Surr)	97		70 - 130		05/09/17 15:32	25

Client Sample ID: MW-10

Date Collected: 04/24/17 15:50

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-12

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.20	ug/L			05/04/17 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		71 - 144		05/04/17 14:26	1
4-Bromofluorobenzene	87		72 - 133		05/04/17 14:26	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.19	ug/L			05/07/17 09:20	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.19	ug/L			05/07/17 09:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.15	ug/L			05/07/17 09:20	1
1,1,2-Trichloroethane	ND		1.0	0.19	ug/L			05/07/17 09:20	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: MW-10

Lab Sample ID: 480-117063-12

Date Collected: 04/24/17 15:50

Matrix: Water

Date Received: 04/27/17 15:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		1.0	0.24	ug/L			05/07/17 09:20	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			05/07/17 09:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			05/07/17 09:20	1
1,2-Dibromo-3-Chloropropane	ND		10	0.94	ug/L			05/07/17 09:20	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			05/07/17 09:20	1
1,2-Dichloroethane	ND		1.0	0.20	ug/L			05/07/17 09:20	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			05/07/17 09:20	1
1,3-Dichlorobenzene	ND		1.0	0.18	ug/L			05/07/17 09:20	1
1,4-Dichlorobenzene	ND		1.0	0.17	ug/L			05/07/17 09:20	1
2-Butanone (MEK)	ND		50	2.6	ug/L			05/07/17 09:20	1
2-Hexanone	ND		10	1.3	ug/L			05/07/17 09:20	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.81	ug/L			05/07/17 09:20	1
Acetone	ND		25	2.7	ug/L			05/07/17 09:20	1
Benzene	ND		1.0	0.20	ug/L			05/07/17 09:20	1
Bromoform	ND		1.0	0.29	ug/L			05/07/17 09:20	1
Bromomethane	ND	*	1.0	0.35	ug/L			05/07/17 09:20	1
Carbon disulfide	ND		1.0	0.22	ug/L			05/07/17 09:20	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			05/07/17 09:20	1
Chlorobenzene	ND		1.0	0.18	ug/L			05/07/17 09:20	1
Dibromochloromethane	ND		1.0	0.25	ug/L			05/07/17 09:20	1
Chloroethane	ND		1.0	0.36	ug/L			05/07/17 09:20	1
Chloroform	ND		1.0	0.23	ug/L			05/07/17 09:20	1
Chloromethane	ND		1.0	0.36	ug/L			05/07/17 09:20	1
cis-1,2-Dichloroethene	ND		1.0	0.21	ug/L			05/07/17 09:20	1
Cyclohexane	ND		5.0	0.13	ug/L			05/07/17 09:20	1
Bromodichloromethane	ND		1.0	0.17	ug/L			05/07/17 09:20	1
Dichlorodifluoromethane	ND	*	1.0	0.17	ug/L			05/07/17 09:20	1
Ethylbenzene	ND		1.0	0.19	ug/L			05/07/17 09:20	1
1,2-Dibromoethane	ND		1.0	0.21	ug/L			05/07/17 09:20	1
Isopropylbenzene	ND		1.0	0.33	ug/L			05/07/17 09:20	1
Methyl acetate	ND		10	0.58	ug/L			05/07/17 09:20	1
Methyl tert-butyl ether	ND		1.0	0.17	ug/L			05/07/17 09:20	1
Methylcyclohexane	ND		5.0	0.090	ug/L			05/07/17 09:20	1
Methylene Chloride	ND		5.0	1.0	ug/L			05/07/17 09:20	1
Tetrachloroethene	ND		1.0	0.14	ug/L			05/07/17 09:20	1
Toluene	ND		1.0	0.17	ug/L			05/07/17 09:20	1
trans-1,2-Dichloroethene	ND		1.0	0.23	ug/L			05/07/17 09:20	1
trans-1,3-Dichloropropene	ND		1.0	0.17	ug/L			05/07/17 09:20	1
Trichloroethene	ND		1.0	0.20	ug/L			05/07/17 09:20	1
Trichlorofluoromethane	ND		1.0	0.21	ug/L			05/07/17 09:20	1
Vinyl chloride	ND		1.0	0.18	ug/L			05/07/17 09:20	1
Xylenes, Total	ND		3.0	0.58	ug/L			05/07/17 09:20	1
cis-1,3-Dichloropropene	ND		1.0	0.17	ug/L			05/07/17 09:20	1
Styrene	ND		1.0	0.28	ug/L			05/07/17 09:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		05/07/17 09:20	1
4-Bromofluorobenzene (Surr)	100		70 - 130		05/07/17 09:20	1
Toluene-d8 (Surr)	94		70 - 130		05/07/17 09:20	1
Dibromofluoromethane (Surr)	100		70 - 130		05/07/17 09:20	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: MW-11R

Date Collected: 04/24/17 13:55

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-13

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.20	ug/L			05/04/17 14:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		71 - 144					05/04/17 14:49	1
4-Bromofluorobenzene	85		72 - 133					05/04/17 14:49	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.95	ug/L			05/07/17 11:09	5
1,1,2,2-Tetrachloroethane	ND		5.0	0.95	ug/L			05/07/17 11:09	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	0.75	ug/L			05/07/17 11:09	5
1,1,2-Trichloroethane	ND		5.0	0.95	ug/L			05/07/17 11:09	5
1,1-Dichloroethane	ND		5.0	1.2	ug/L			05/07/17 11:09	5
1,1-Dichloroethene	15		5.0	1.3	ug/L			05/07/17 11:09	5
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/L			05/07/17 11:09	5
1,2-Dibromo-3-Chloropropane	ND		50	4.7	ug/L			05/07/17 11:09	5
1,2-Dichlorobenzene	ND		5.0	0.95	ug/L			05/07/17 11:09	5
1,2-Dichloroethane	ND		5.0	1.0	ug/L			05/07/17 11:09	5
1,2-Dichloropropane	ND		5.0	1.3	ug/L			05/07/17 11:09	5
1,3-Dichlorobenzene	ND		5.0	0.90	ug/L			05/07/17 11:09	5
1,4-Dichlorobenzene	ND		5.0	0.85	ug/L			05/07/17 11:09	5
2-Butanone (MEK)	ND		250	13	ug/L			05/07/17 11:09	5
2-Hexanone	ND		50	6.4	ug/L			05/07/17 11:09	5
4-Methyl-2-pentanone (MIBK)	ND		50	4.1	ug/L			05/07/17 11:09	5
Acetone	ND		130	13	ug/L			05/07/17 11:09	5
Benzene	ND		5.0	1.0	ug/L			05/07/17 11:09	5
Bromoform	ND		5.0	1.5	ug/L			05/07/17 11:09	5
Bromomethane	ND	*	5.0	1.8	ug/L			05/07/17 11:09	5
Carbon disulfide	ND		5.0	1.1	ug/L			05/07/17 11:09	5
Carbon tetrachloride	ND		5.0	0.90	ug/L			05/07/17 11:09	5
Chlorobenzene	ND		5.0	0.90	ug/L			05/07/17 11:09	5
Dibromochloromethane	ND		5.0	1.3	ug/L			05/07/17 11:09	5
Chloroethane	ND		5.0	1.8	ug/L			05/07/17 11:09	5
Chloroform	ND		5.0	1.2	ug/L			05/07/17 11:09	5
Chloromethane	ND		5.0	1.8	ug/L			05/07/17 11:09	5
cis-1,2-Dichloroethene	5400		100	21	ug/L			05/08/17 14:28	100
Cyclohexane	ND		25	0.65	ug/L			05/07/17 11:09	5
Bromodichloromethane	ND		5.0	0.85	ug/L			05/07/17 11:09	5
Dichlorodifluoromethane	ND	*	5.0	0.85	ug/L			05/07/17 11:09	5
Ethylbenzene	ND		5.0	0.95	ug/L			05/07/17 11:09	5
1,2-Dibromoethane	ND		5.0	1.1	ug/L			05/07/17 11:09	5
Isopropylbenzene	ND		5.0	1.7	ug/L			05/07/17 11:09	5
Methyl acetate	ND		50	2.9	ug/L			05/07/17 11:09	5
Methyl tert-butyl ether	ND		5.0	0.85	ug/L			05/07/17 11:09	5
Methylcyclohexane	ND		25	0.45	ug/L			05/07/17 11:09	5
Methylene Chloride	ND		25	5.0	ug/L			05/07/17 11:09	5
Tetrachloroethene	3.3 J		5.0	0.70	ug/L			05/07/17 11:09	5
Toluene	ND		5.0	0.85	ug/L			05/07/17 11:09	5
trans-1,2-Dichloroethene	43		5.0	1.2	ug/L			05/07/17 11:09	5
trans-1,3-Dichloropropene	ND		5.0	0.85	ug/L			05/07/17 11:09	5

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: MW-11R

Lab Sample ID: 480-117063-13

Date Collected: 04/24/17 13:55

Matrix: Water

Date Received: 04/27/17 15:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	17000		100	20	ug/L			05/08/17 14:28	100
Trichlorofluoromethane	ND		5.0	1.1	ug/L			05/07/17 11:09	5
Vinyl chloride	16		5.0	0.90	ug/L			05/07/17 11:09	5
Xylenes, Total	ND		15	2.9	ug/L			05/07/17 11:09	5
cis-1,3-Dichloropropene	ND		5.0	0.85	ug/L			05/07/17 11:09	5
Styrene	ND		5.0	1.4	ug/L			05/07/17 11:09	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		05/07/17 11:09	5
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		05/08/17 14:28	100
4-Bromofluorobenzene (Surr)	103		70 - 130		05/07/17 11:09	5
4-Bromofluorobenzene (Surr)	113		70 - 130		05/08/17 14:28	100
Toluene-d8 (Surr)	91		70 - 130		05/07/17 11:09	5
Toluene-d8 (Surr)	97		70 - 130		05/08/17 14:28	100
Dibromofluoromethane (Surr)	99		70 - 130		05/07/17 11:09	5
Dibromofluoromethane (Surr)	100		70 - 130		05/08/17 14:28	100

Client Sample ID: MW-12

Lab Sample ID: 480-117063-14

Date Collected: 04/25/17 15:55

Matrix: Water

Date Received: 04/27/17 15:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.20	ug/L	-		05/04/17 15:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		71 - 144					05/04/17 15:12	1
4-Bromofluorobenzene	87		72 - 133					05/04/17 15:12	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		25	4.8	ug/L			05/07/17 11:36	25
1,1,2,2-Tetrachloroethane	ND		25	4.8	ug/L			05/07/17 11:36	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25	3.8	ug/L			05/07/17 11:36	25
1,1,2-Trichloroethane	ND		25	4.8	ug/L			05/07/17 11:36	25
1,1-Dichloroethane	ND		25	6.0	ug/L			05/07/17 11:36	25
1,1-Dichloroethene	ND		25	6.3	ug/L			05/07/17 11:36	25
1,2,4-Trichlorobenzene	ND		25	5.0	ug/L			05/07/17 11:36	25
1,2-Dibromo-3-Chloropropane	ND		250	24	ug/L			05/07/17 11:36	25
1,2-Dichlorobenzene	ND		25	4.8	ug/L			05/07/17 11:36	25
1,2-Dichloroethane	ND		25	5.0	ug/L			05/07/17 11:36	25
1,2-Dichloropropane	ND		25	6.3	ug/L			05/07/17 11:36	25
1,3-Dichlorobenzene	ND		25	4.5	ug/L			05/07/17 11:36	25
1,4-Dichlorobenzene	ND		25	4.3	ug/L			05/07/17 11:36	25
2-Butanone (MEK)	ND		1300	66	ug/L			05/07/17 11:36	25
2-Hexanone	ND		250	32	ug/L			05/07/17 11:36	25
4-Methyl-2-pentanone (MIBK)	ND		250	20	ug/L			05/07/17 11:36	25
Acetone	ND		630	67	ug/L			05/07/17 11:36	25
Benzene	ND		25	5.0	ug/L			05/07/17 11:36	25
Bromoform	ND		25	7.3	ug/L			05/07/17 11:36	25

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: MW-12

Date Collected: 04/25/17 15:55

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-14

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND	*	25	8.8	ug/L			05/07/17 11:36	25
Carbon disulfide	ND		25	5.5	ug/L			05/07/17 11:36	25
Carbon tetrachloride	ND		25	4.5	ug/L			05/07/17 11:36	25
Chlorobenzene	ND		25	4.5	ug/L			05/07/17 11:36	25
Dibromochloromethane	ND		25	6.3	ug/L			05/07/17 11:36	25
Chloroethane	ND		25	9.0	ug/L			05/07/17 11:36	25
Chloroform	ND		25	5.8	ug/L			05/07/17 11:36	25
Chloromethane	ND		25	9.0	ug/L			05/07/17 11:36	25
cis-1,2-Dichloroethene	140		25	5.3	ug/L			05/07/17 11:36	25
Cyclohexane	ND		130	3.3	ug/L			05/07/17 11:36	25
Bromodichloromethane	ND		25	4.3	ug/L			05/07/17 11:36	25
Dichlorodifluoromethane	ND	*	25	4.3	ug/L			05/07/17 11:36	25
Ethylbenzene	ND		25	4.8	ug/L			05/07/17 11:36	25
1,2-Dibromoethane	ND		25	5.3	ug/L			05/07/17 11:36	25
Isopropylbenzene	ND		25	8.3	ug/L			05/07/17 11:36	25
Methyl acetate	ND		250	15	ug/L			05/07/17 11:36	25
Methyl tert-butyl ether	ND		25	4.3	ug/L			05/07/17 11:36	25
Methylcyclohexane	ND		130	2.3	ug/L			05/07/17 11:36	25
Methylene Chloride	ND		130	25	ug/L			05/07/17 11:36	25
Tetrachloroethene	ND		25	3.5	ug/L			05/07/17 11:36	25
Toluene	ND		25	4.3	ug/L			05/07/17 11:36	25
trans-1,2-Dichloroethene	ND		25	5.8	ug/L			05/07/17 11:36	25
trans-1,3-Dichloropropene	ND		25	4.3	ug/L			05/07/17 11:36	25
Trichloroethene	4100		25	5.0	ug/L			05/07/17 11:36	25
Trichlorofluoromethane	ND		25	5.3	ug/L			05/07/17 11:36	25
Vinyl chloride	ND		25	4.5	ug/L			05/07/17 11:36	25
Xylenes, Total	ND		75	15	ug/L			05/07/17 11:36	25
cis-1,3-Dichloropropene	ND		25	4.3	ug/L			05/07/17 11:36	25
Styrene	ND		25	7.0	ug/L			05/07/17 11:36	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		05/07/17 11:36	25
4-Bromofluorobenzene (Surr)	104		70 - 130		05/07/17 11:36	25
Toluene-d8 (Surr)	96		70 - 130		05/07/17 11:36	25
Dibromofluoromethane (Surr)	96		70 - 130		05/07/17 11:36	25

Client Sample ID: MW-13

Date Collected: 04/26/17 14:45

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-15

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.20	ug/L			05/04/17 15:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77		71 - 144					05/04/17 15:36	1
4-Bromofluorobenzene	85		72 - 133					05/04/17 15:36	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: MW-13

Date Collected: 04/26/17 14:45

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-15

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		200	38	ug/L			05/07/17 12:03	200
1,1,2,2-Tetrachloroethane	ND		200	38	ug/L			05/07/17 12:03	200
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		200	30	ug/L			05/07/17 12:03	200
1,1,2-Trichloroethane	ND		200	38	ug/L			05/07/17 12:03	200
1,1-Dichloroethane	ND		200	48	ug/L			05/07/17 12:03	200
1,1-Dichloroethene	ND		200	50	ug/L			05/07/17 12:03	200
1,2,4-Trichlorobenzene	ND		200	40	ug/L			05/07/17 12:03	200
1,2-Dibromo-3-Chloropropane	ND		2000	190	ug/L			05/07/17 12:03	200
1,2-Dichlorobenzene	ND		200	38	ug/L			05/07/17 12:03	200
1,2-Dichloroethane	ND		200	40	ug/L			05/07/17 12:03	200
1,2-Dichloropropane	ND		200	50	ug/L			05/07/17 12:03	200
1,3-Dichlorobenzene	ND		200	36	ug/L			05/07/17 12:03	200
1,4-Dichlorobenzene	ND		200	34	ug/L			05/07/17 12:03	200
2-Butanone (MEK)	ND		10000	530	ug/L			05/07/17 12:03	200
2-Hexanone	ND		2000	260	ug/L			05/07/17 12:03	200
4-Methyl-2-pentanone (MIBK)	ND		2000	160	ug/L			05/07/17 12:03	200
Acetone	ND		5000	530	ug/L			05/07/17 12:03	200
Benzene	ND		200	40	ug/L			05/07/17 12:03	200
Bromoform	ND		200	58	ug/L			05/07/17 12:03	200
Bromomethane	ND	*	200	70	ug/L			05/07/17 12:03	200
Carbon disulfide	ND		200	44	ug/L			05/07/17 12:03	200
Carbon tetrachloride	ND		200	36	ug/L			05/07/17 12:03	200
Chlorobenzene	ND		200	36	ug/L			05/07/17 12:03	200
Dibromochloromethane	ND		200	50	ug/L			05/07/17 12:03	200
Chloroethane	ND		200	72	ug/L			05/07/17 12:03	200
Chloroform	ND		200	46	ug/L			05/07/17 12:03	200
Chloromethane	ND		200	72	ug/L			05/07/17 12:03	200
cis-1,2-Dichloroethene	1200		200	42	ug/L			05/07/17 12:03	200
Cyclohexane	ND		1000	26	ug/L			05/07/17 12:03	200
Bromodichloromethane	ND		200	34	ug/L			05/07/17 12:03	200
Dichlorodifluoromethane	ND	*	200	34	ug/L			05/07/17 12:03	200
Ethylbenzene	ND		200	38	ug/L			05/07/17 12:03	200
1,2-Dibromoethane	ND		200	42	ug/L			05/07/17 12:03	200
Isopropylbenzene	ND		200	66	ug/L			05/07/17 12:03	200
Methyl acetate	ND		2000	120	ug/L			05/07/17 12:03	200
Methyl tert-butyl ether	ND		200	34	ug/L			05/07/17 12:03	200
Methylcyclohexane	ND		1000	18	ug/L			05/07/17 12:03	200
Methylene Chloride	ND		1000	200	ug/L			05/07/17 12:03	200
Tetrachloroethene	ND		200	28	ug/L			05/07/17 12:03	200
Toluene	ND		200	34	ug/L			05/07/17 12:03	200
trans-1,2-Dichloroethene	ND		200	46	ug/L			05/07/17 12:03	200
trans-1,3-Dichloropropene	ND		200	34	ug/L			05/07/17 12:03	200
Trichloroethene	21000		200	40	ug/L			05/07/17 12:03	200
Trichlorofluoromethane	ND		200	42	ug/L			05/07/17 12:03	200
Vinyl chloride	ND		200	36	ug/L			05/07/17 12:03	200
Xylenes, Total	ND		600	120	ug/L			05/07/17 12:03	200
cis-1,3-Dichloropropene	ND		200	34	ug/L			05/07/17 12:03	200
Styrene	ND		200	56	ug/L			05/07/17 12:03	200

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: MW-13

Date Collected: 04/26/17 14:45

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-15

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		05/07/17 12:03	200
4-Bromofluorobenzene (Surr)	102		70 - 130		05/07/17 12:03	200
Toluene-d8 (Surr)	96		70 - 130		05/07/17 12:03	200
Dibromofluoromethane (Surr)	98		70 - 130		05/07/17 12:03	200

Client Sample ID: MW-14

Date Collected: 04/26/17 16:30

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-16

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.20	ug/L			05/04/17 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		71 - 144		05/04/17 15:59	1
4-Bromofluorobenzene	91		72 - 133		05/04/17 15:59	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		50	9.5	ug/L			05/08/17 14:54	50
1,1,2,2-Tetrachloroethane	ND		50	9.5	ug/L			05/08/17 14:54	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	7.5	ug/L			05/08/17 14:54	50
1,1,2-Trichloroethane	ND		50	9.5	ug/L			05/08/17 14:54	50
1,1-Dichloroethane	ND		50	12	ug/L			05/08/17 14:54	50
1,1-Dichloroethene	ND		50	13	ug/L			05/08/17 14:54	50
1,2,4-Trichlorobenzene	ND		50	10	ug/L			05/08/17 14:54	50
1,2-Dibromo-3-Chloropropane	ND		500	47	ug/L			05/08/17 14:54	50
1,2-Dichlorobenzene	ND		50	9.5	ug/L			05/08/17 14:54	50
1,2-Dichloroethane	ND		50	10	ug/L			05/08/17 14:54	50
1,2-Dichloropropane	ND		50	13	ug/L			05/08/17 14:54	50
1,3-Dichlorobenzene	ND		50	9.0	ug/L			05/08/17 14:54	50
1,4-Dichlorobenzene	ND	*	50	8.5	ug/L			05/08/17 14:54	50
2-Butanone (MEK)	ND		2500	130	ug/L			05/08/17 14:54	50
2-Hexanone	ND		500	64	ug/L			05/08/17 14:54	50
4-Methyl-2-pentanone (MIBK)	ND		500	41	ug/L			05/08/17 14:54	50
Acetone	ND		1300	130	ug/L			05/08/17 14:54	50
Benzene	ND		50	10	ug/L			05/08/17 14:54	50
Bromoform	ND		50	15	ug/L			05/08/17 14:54	50
Bromomethane	ND		50	18	ug/L			05/08/17 14:54	50
Carbon disulfide	ND		50	11	ug/L			05/08/17 14:54	50
Carbon tetrachloride	ND		50	9.0	ug/L			05/08/17 14:54	50
Chlorobenzene	ND		50	9.0	ug/L			05/08/17 14:54	50
Dibromochloromethane	ND		50	13	ug/L			05/08/17 14:54	50
Chloroethane	ND		50	18	ug/L			05/08/17 14:54	50
Chloroform	ND		50	12	ug/L			05/08/17 14:54	50
Chloromethane	ND		50	18	ug/L			05/08/17 14:54	50
cis-1,2-Dichloroethene	1900		50	11	ug/L			05/08/17 14:54	50
Cyclohexane	ND		250	6.5	ug/L			05/08/17 14:54	50
Bromodichloromethane	ND		50	8.5	ug/L			05/08/17 14:54	50
Dichlorodifluoromethane	ND		50	8.5	ug/L			05/08/17 14:54	50
Ethylbenzene	ND		50	9.5	ug/L			05/08/17 14:54	50

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: MW-14

Date Collected: 04/26/17 16:30

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-16

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		50	11	ug/L			05/08/17 14:54	50
Isopropylbenzene	ND		50	17	ug/L			05/08/17 14:54	50
Methyl acetate	ND		500	29	ug/L			05/08/17 14:54	50
Methyl tert-butyl ether	ND		50	8.5	ug/L			05/08/17 14:54	50
Methylcyclohexane	ND		250	4.5	ug/L			05/08/17 14:54	50
Methylene Chloride	ND		250	50	ug/L			05/08/17 14:54	50
Tetrachloroethene	ND		50	7.0	ug/L			05/08/17 14:54	50
Toluene	ND		50	8.5	ug/L			05/08/17 14:54	50
trans-1,2-Dichloroethene	18	J	50	12	ug/L			05/08/17 14:54	50
trans-1,3-Dichloropropene	ND		50	8.5	ug/L			05/08/17 14:54	50
Trichloroethene	8400		50	10	ug/L			05/08/17 14:54	50
Trichlorofluoromethane	ND	*	50	11	ug/L			05/08/17 14:54	50
Vinyl chloride	ND		50	9.0	ug/L			05/08/17 14:54	50
Xylenes, Total	ND		150	29	ug/L			05/08/17 14:54	50
cis-1,3-Dichloropropene	ND		50	8.5	ug/L			05/08/17 14:54	50
Styrene	ND		50	14	ug/L			05/08/17 14:54	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		05/08/17 14:54	50
4-Bromofluorobenzene (Surr)	111		70 - 130		05/08/17 14:54	50
Toluene-d8 (Surr)	97		70 - 130		05/08/17 14:54	50
Dibromofluoromethane (Surr)	104		70 - 130		05/08/17 14:54	50

Client Sample ID: DUP-042517

Date Collected: 04/25/17 00:00

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-17

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.20	ug/L			05/04/17 16:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		71 - 144		05/04/17 16:22	1
4-Bromofluorobenzene	90		72 - 133		05/04/17 16:22	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		50	9.5	ug/L			05/07/17 12:57	50
1,1,2,2-Tetrachloroethane	ND		50	9.5	ug/L			05/07/17 12:57	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	7.5	ug/L			05/07/17 12:57	50
1,1,2-Trichloroethane	ND		50	9.5	ug/L			05/07/17 12:57	50
1,1-Dichloroethane	ND		50	12	ug/L			05/07/17 12:57	50
1,1-Dichloroethene	ND		50	13	ug/L			05/07/17 12:57	50
1,2,4-Trichlorobenzene	ND		50	10	ug/L			05/07/17 12:57	50
1,2-Dibromo-3-Chloropropane	ND		500	47	ug/L			05/07/17 12:57	50
1,2-Dichlorobenzene	ND		50	9.5	ug/L			05/07/17 12:57	50
1,2-Dichloroethane	ND		50	10	ug/L			05/07/17 12:57	50
1,2-Dichloropropane	ND		50	13	ug/L			05/07/17 12:57	50
1,3-Dichlorobenzene	ND		50	9.0	ug/L			05/07/17 12:57	50
1,4-Dichlorobenzene	ND		50	8.5	ug/L			05/07/17 12:57	50

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: DUP-042517

Lab Sample ID: 480-117063-17

Date Collected: 04/25/17 00:00

Matrix: Water

Date Received: 04/27/17 15:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		2500	130	ug/L			05/07/17 12:57	50
2-Hexanone	ND		500	64	ug/L			05/07/17 12:57	50
4-Methyl-2-pentanone (MIBK)	ND		500	41	ug/L			05/07/17 12:57	50
Acetone	ND		1300	130	ug/L			05/07/17 12:57	50
Benzene	ND		50	10	ug/L			05/07/17 12:57	50
Bromoform	ND		50	15	ug/L			05/07/17 12:57	50
Bromomethane	ND	*	50	18	ug/L			05/07/17 12:57	50
Carbon disulfide	ND		50	11	ug/L			05/07/17 12:57	50
Carbon tetrachloride	ND		50	9.0	ug/L			05/07/17 12:57	50
Chlorobenzene	ND		50	9.0	ug/L			05/07/17 12:57	50
Dibromochloromethane	ND		50	13	ug/L			05/07/17 12:57	50
Chloroethane	ND		50	18	ug/L			05/07/17 12:57	50
Chloroform	ND		50	12	ug/L			05/07/17 12:57	50
Chloromethane	ND		50	18	ug/L			05/07/17 12:57	50
cis-1,2-Dichloroethene	1100		50	11	ug/L			05/07/17 12:57	50
Cyclohexane	ND		250	6.5	ug/L			05/07/17 12:57	50
Bromodichloromethane	ND		50	8.5	ug/L			05/07/17 12:57	50
Dichlorodifluoromethane	ND	*	50	8.5	ug/L			05/07/17 12:57	50
Ethylbenzene	ND		50	9.5	ug/L			05/07/17 12:57	50
1,2-Dibromoethane	ND		50	11	ug/L			05/07/17 12:57	50
Isopropylbenzene	ND		50	17	ug/L			05/07/17 12:57	50
Methyl acetate	ND		500	29	ug/L			05/07/17 12:57	50
Methyl tert-butyl ether	ND		50	8.5	ug/L			05/07/17 12:57	50
Methylcyclohexane	ND		250	4.5	ug/L			05/07/17 12:57	50
Methylene Chloride	ND		250	50	ug/L			05/07/17 12:57	50
Tetrachloroethene	ND		50	7.0	ug/L			05/07/17 12:57	50
Toluene	ND		50	8.5	ug/L			05/07/17 12:57	50
trans-1,2-Dichloroethene	ND		50	12	ug/L			05/07/17 12:57	50
trans-1,3-Dichloropropene	ND		50	8.5	ug/L			05/07/17 12:57	50
Trichloroethene	38000		500	100	ug/L			05/08/17 15:20	500
Trichlorofluoromethane	ND		50	11	ug/L			05/07/17 12:57	50
Vinyl chloride	ND		50	9.0	ug/L			05/07/17 12:57	50
Xylenes, Total	ND		150	29	ug/L			05/07/17 12:57	50
cis-1,3-Dichloropropene	ND		50	8.5	ug/L			05/07/17 12:57	50
Styrene	ND		50	14	ug/L			05/07/17 12:57	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		05/07/17 12:57	50
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		05/08/17 15:20	500
4-Bromofluorobenzene (Surr)	103		70 - 130		05/07/17 12:57	50
4-Bromofluorobenzene (Surr)	111		70 - 130		05/08/17 15:20	500
Toluene-d8 (Surr)	94		70 - 130		05/07/17 12:57	50
Toluene-d8 (Surr)	98		70 - 130		05/08/17 15:20	500
Dibromofluoromethane (Surr)	97		70 - 130		05/07/17 12:57	50
Dibromofluoromethane (Surr)	101		70 - 130		05/08/17 15:20	500

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-117063-18

Date Collected: 04/25/17 00:00

Matrix: Water

Date Received: 04/27/17 15:25

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.19	ug/L			05/07/17 05:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.19	ug/L			05/07/17 05:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.15	ug/L			05/07/17 05:44	1
1,1,2-Trichloroethane	ND		1.0	0.19	ug/L			05/07/17 05:44	1
1,1-Dichloroethane	ND		1.0	0.24	ug/L			05/07/17 05:44	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			05/07/17 05:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			05/07/17 05:44	1
1,2-Dibromo-3-Chloropropane	ND		10	0.94	ug/L			05/07/17 05:44	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			05/07/17 05:44	1
1,2-Dichloroethane	ND		1.0	0.20	ug/L			05/07/17 05:44	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			05/07/17 05:44	1
1,3-Dichlorobenzene	ND		1.0	0.18	ug/L			05/07/17 05:44	1
1,4-Dichlorobenzene	ND		1.0	0.17	ug/L			05/07/17 05:44	1
2-Butanone (MEK)	ND		50	2.6	ug/L			05/07/17 05:44	1
2-Hexanone	ND		10	1.3	ug/L			05/07/17 05:44	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.81	ug/L			05/07/17 05:44	1
Acetone	ND		25	2.7	ug/L			05/07/17 05:44	1
Benzene	ND		1.0	0.20	ug/L			05/07/17 05:44	1
Bromoform	ND		1.0	0.29	ug/L			05/07/17 05:44	1
Bromomethane	ND	*	1.0	0.35	ug/L			05/07/17 05:44	1
Carbon disulfide	ND		1.0	0.22	ug/L			05/07/17 05:44	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			05/07/17 05:44	1
Chlorobenzene	ND		1.0	0.18	ug/L			05/07/17 05:44	1
Dibromochloromethane	ND		1.0	0.25	ug/L			05/07/17 05:44	1
Chloroethane	ND		1.0	0.36	ug/L			05/07/17 05:44	1
Chloroform	ND		1.0	0.23	ug/L			05/07/17 05:44	1
Chloromethane	ND		1.0	0.36	ug/L			05/07/17 05:44	1
cis-1,2-Dichloroethene	ND		1.0	0.21	ug/L			05/07/17 05:44	1
Cyclohexane	ND		5.0	0.13	ug/L			05/07/17 05:44	1
Bromodichloromethane	ND		1.0	0.17	ug/L			05/07/17 05:44	1
Dichlorodifluoromethane	ND	*	1.0	0.17	ug/L			05/07/17 05:44	1
Ethylbenzene	ND		1.0	0.19	ug/L			05/07/17 05:44	1
1,2-Dibromoethane	ND		1.0	0.21	ug/L			05/07/17 05:44	1
Isopropylbenzene	ND		1.0	0.33	ug/L			05/07/17 05:44	1
Methyl acetate	ND		10	0.58	ug/L			05/07/17 05:44	1
Methyl tert-butyl ether	ND		1.0	0.17	ug/L			05/07/17 05:44	1
Methylcyclohexane	ND		5.0	0.090	ug/L			05/07/17 05:44	1
Methylene Chloride	ND		5.0	1.0	ug/L			05/07/17 05:44	1
Tetrachloroethene	ND		1.0	0.14	ug/L			05/07/17 05:44	1
Toluene	ND		1.0	0.17	ug/L			05/07/17 05:44	1
trans-1,2-Dichloroethene	ND		1.0	0.23	ug/L			05/07/17 05:44	1
trans-1,3-Dichloropropene	ND		1.0	0.17	ug/L			05/07/17 05:44	1
Trichloroethene	ND		1.0	0.20	ug/L			05/07/17 05:44	1
Trichlorofluoromethane	ND		1.0	0.21	ug/L			05/07/17 05:44	1
Vinyl chloride	ND		1.0	0.18	ug/L			05/07/17 05:44	1
Xylenes, Total	ND		3.0	0.58	ug/L			05/07/17 05:44	1
cis-1,3-Dichloropropene	ND		1.0	0.17	ug/L			05/07/17 05:44	1
Styrene	ND		1.0	0.28	ug/L			05/07/17 05:44	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: TRIP BLANK

Date Collected: 04/25/17 00:00

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-18

Matrix: Water

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		05/07/17 05:44	1
4-Bromofluorobenzene (Surr)	105		70 - 130		05/07/17 05:44	1
Toluene-d8 (Surr)	94		70 - 130		05/07/17 05:44	1
Dibromofluoromethane (Surr)	96		70 - 130		05/07/17 05:44	1

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (70-130)	BFB (70-130)	TOL (70-130)	DBFM (70-130)
480-117063-1	MW-1	100	104	94	96
480-117063-1 MS	MW-1	109	100	92	97
480-117063-1 MSD	MW-1	108	101	92	97
480-117063-2	MW-2	103	115	100	103
480-117063-3	MW-3	101	103	95	98
480-117063-4	MW-4	103	102	93	97
480-117063-5	MW-4D	98	105	91	95
480-117063-6	MW-5	101	103	93	98
480-117063-7	MW-5D	101	101	94	97
480-117063-8	MW-6	98	103	93	95
480-117063-9	MW-7	99	102	94	97
480-117063-10	MW-8	102	100	92	97
480-117063-11	MW-9R	100	103	90	97
480-117063-12	MW-10	102	100	94	100
480-117063-13	MW-11R	103	103	91	99
480-117063-13	MW-11R	104	113	97	100
480-117063-14	MW-12	100	104	96	96
480-117063-15	MW-13	101	102	96	98
480-117063-16	MW-14	103	111	97	104
480-117063-16 MS	MW-14	101	98	98	99
480-117063-16 MSD	MW-14	101	98	98	98
480-117063-17	DUP-042517	102	103	94	97
480-117063-17	DUP-042517	105	111	98	101
480-117063-18	TRIP BLANK	100	105	94	96
LCS 490-428030/3	Lab Control Sample	105	100	93	95
LCS 490-428184/3	Lab Control Sample	102	100	97	99
LCS 490-428592/3	Lab Control Sample	107	101	90	102
LCSD 490-428030/4	Lab Control Sample Dup	105	104	93	97
LCSD 490-428184/4	Lab Control Sample Dup	103	96	97	99
LCSD 490-428592/4	Lab Control Sample Dup	108	96	89	100
MB 490-428030/7	Method Blank	99	102	95	97
MB 490-428184/7	Method Blank	103	115	99	102
MB 490-428592/7	Method Blank	101	101	92	97

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		12DCE (71-144)	BFB (72-133)
480-117063-1	MW-1	78	93
480-117063-1 MS	MW-1	100	95
480-117063-1 MSD	MW-1	96	89

TestAmerica Buffalo

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		12DCE (71-144)	BFB (72-133)
480-117063-2	MW-2	74	75
480-117063-3	MW-3	78	88
480-117063-4	MW-4	76	86
480-117063-5	MW-4D	77	92
480-117063-6	MW-5	79	91
480-117063-7	MW-5D	78	89
480-117063-8	MW-6	72	82
480-117063-9	MW-7	77	90
480-117063-10	MW-8	77	89
480-117063-11	MW-9R	78	89
480-117063-12	MW-10	79	87
480-117063-13	MW-11R	78	85
480-117063-14	MW-12	79	87
480-117063-15	MW-13	77	85
480-117063-16	MW-14	81	91
480-117063-17	DUP-042517	82	90
LCS 460-434882/5	Lab Control Sample	76	91
LCS 460-435512/3	Lab Control Sample	103	104
LCSD 460-434882/6	Lab Control Sample Dup	76	93
LCSD 460-435512/4	Lab Control Sample Dup	98	103
MB 460-434882/9	Method Blank	82	93
MB 460-435512/7	Method Blank	100	97

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene

QC Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 490-428030/7

Matrix: Water

Analysis Batch: 428030

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.19	ug/L			05/07/17 04:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.19	ug/L			05/07/17 04:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.15	ug/L			05/07/17 04:50	1
1,1,2-Trichloroethane	ND		1.0	0.19	ug/L			05/07/17 04:50	1
1,1-Dichloroethane	ND		1.0	0.24	ug/L			05/07/17 04:50	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			05/07/17 04:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			05/07/17 04:50	1
1,2-Dibromo-3-Chloropropane	ND		10	0.94	ug/L			05/07/17 04:50	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			05/07/17 04:50	1
1,2-Dichloroethane	ND		1.0	0.20	ug/L			05/07/17 04:50	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			05/07/17 04:50	1
1,3-Dichlorobenzene	ND		1.0	0.18	ug/L			05/07/17 04:50	1
1,4-Dichlorobenzene	ND		1.0	0.17	ug/L			05/07/17 04:50	1
2-Butanone (MEK)	ND		50	2.6	ug/L			05/07/17 04:50	1
2-Hexanone	ND		10	1.3	ug/L			05/07/17 04:50	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.81	ug/L			05/07/17 04:50	1
Acetone	ND		25	2.7	ug/L			05/07/17 04:50	1
Benzene	ND		1.0	0.20	ug/L			05/07/17 04:50	1
Bromoform	ND		1.0	0.29	ug/L			05/07/17 04:50	1
Bromomethane	ND		1.0	0.35	ug/L			05/07/17 04:50	1
Carbon disulfide	ND		1.0	0.22	ug/L			05/07/17 04:50	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			05/07/17 04:50	1
Chlorobenzene	ND		1.0	0.18	ug/L			05/07/17 04:50	1
Dibromochloromethane	ND		1.0	0.25	ug/L			05/07/17 04:50	1
Chloroethane	ND		1.0	0.36	ug/L			05/07/17 04:50	1
Chloroform	ND		1.0	0.23	ug/L			05/07/17 04:50	1
Chloromethane	ND		1.0	0.36	ug/L			05/07/17 04:50	1
cis-1,2-Dichloroethene	ND		1.0	0.21	ug/L			05/07/17 04:50	1
Cyclohexane	ND		5.0	0.13	ug/L			05/07/17 04:50	1
Bromodichloromethane	ND		1.0	0.17	ug/L			05/07/17 04:50	1
Dichlorodifluoromethane	ND		1.0	0.17	ug/L			05/07/17 04:50	1
Ethylbenzene	ND		1.0	0.19	ug/L			05/07/17 04:50	1
1,2-Dibromoethane	ND		1.0	0.21	ug/L			05/07/17 04:50	1
Isopropylbenzene	ND		1.0	0.33	ug/L			05/07/17 04:50	1
Methyl acetate	ND		10	0.58	ug/L			05/07/17 04:50	1
Methyl tert-butyl ether	ND		1.0	0.17	ug/L			05/07/17 04:50	1
Methylcyclohexane	ND		5.0	0.090	ug/L			05/07/17 04:50	1
Methylene Chloride	ND		5.0	1.0	ug/L			05/07/17 04:50	1
Tetrachloroethene	ND		1.0	0.14	ug/L			05/07/17 04:50	1
Toluene	ND		1.0	0.17	ug/L			05/07/17 04:50	1
trans-1,2-Dichloroethene	ND		1.0	0.23	ug/L			05/07/17 04:50	1
trans-1,3-Dichloropropene	ND		1.0	0.17	ug/L			05/07/17 04:50	1
Trichloroethene	ND		1.0	0.20	ug/L			05/07/17 04:50	1
Trichlorofluoromethane	ND		1.0	0.21	ug/L			05/07/17 04:50	1
Vinyl chloride	ND		1.0	0.18	ug/L			05/07/17 04:50	1
Xylenes, Total	ND		3.0	0.58	ug/L			05/07/17 04:50	1
cis-1,3-Dichloropropene	ND		1.0	0.17	ug/L			05/07/17 04:50	1
Styrene	ND		1.0	0.28	ug/L			05/07/17 04:50	1

TestAmerica Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		05/07/17 04:50	1
4-Bromofluorobenzene (Surr)	102		70 - 130		05/07/17 04:50	1
Toluene-d8 (Surr)	95		70 - 130		05/07/17 04:50	1
Dibromofluoromethane (Surr)	97		70 - 130		05/07/17 04:50	1

Lab Sample ID: LCS 490-428030/3
Matrix: Water
Analysis Batch: 428030

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	20.2		ug/L		101	78 - 135
1,1,2,2-Tetrachloroethane	20.0	19.7		ug/L		99	69 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.1		ug/L		96	77 - 129
1,1,2-Trichloroethane	20.0	18.0		ug/L		90	80 - 124
1,1-Dichloroethane	20.0	18.4		ug/L		92	78 - 125
1,1-Dichloroethene	20.0	19.5		ug/L		98	79 - 124
1,2,4-Trichlorobenzene	20.0	19.0		ug/L		95	63 - 133
1,2-Dibromo-3-Chloropropane	20.0	20.0		ug/L		100	54 - 125
1,2-Dichlorobenzene	20.0	19.6		ug/L		98	80 - 121
1,2-Dichloroethane	20.0	20.4		ug/L		102	77 - 121
1,2-Dichloropropane	20.0	17.7		ug/L		88	75 - 120
1,3-Dichlorobenzene	20.0	19.4		ug/L		97	80 - 122
1,4-Dichlorobenzene	20.0	19.3		ug/L		97	80 - 120
2-Butanone (MEK)	100	86.7		ug/L		87	62 - 133
2-Hexanone	100	85.1		ug/L		85	60 - 142
4-Methyl-2-pentanone (MIBK)	100	81.4		ug/L		81	60 - 137
Acetone	100	74.8		ug/L		75	54 - 145
Benzene	20.0	18.6		ug/L		93	80 - 121
Bromoform	20.0	21.4		ug/L		107	46 - 145
Bromomethane	20.0	25.6		ug/L		128	41 - 150
Carbon disulfide	20.0	18.3		ug/L		92	77 - 126
Carbon tetrachloride	20.0	21.2		ug/L		106	64 - 147
Chlorobenzene	20.0	19.5		ug/L		97	80 - 120
Dibromochloromethane	20.0	21.2		ug/L		106	69 - 133
Chloroethane	20.0	19.0		ug/L		95	72 - 120
Chloroform	20.0	19.5		ug/L		97	73 - 129
Chloromethane	20.0	16.0		ug/L		80	12 - 150
cis-1,2-Dichloroethene	20.0	19.2		ug/L		96	76 - 125
Cyclohexane	20.0	17.5		ug/L		87	73 - 122
Bromodichloromethane	20.0	22.2		ug/L		111	75 - 129
Dichlorodifluoromethane	20.0	16.8		ug/L		84	37 - 127
Ethylbenzene	20.0	19.6		ug/L		98	80 - 130
1,2-Dibromoethane	20.0	19.6		ug/L		98	80 - 129
Isopropylbenzene	20.0	20.6		ug/L		103	80 - 141
Methyl acetate	40.0	32.3		ug/L		81	64 - 150
Methyl tert-butyl ether	20.0	19.0		ug/L		95	72 - 133
Methylcyclohexane	20.0	18.5		ug/L		93	71 - 129
Methylene Chloride	20.0	17.0		ug/L		85	79 - 123
Tetrachloroethene	20.0	20.0		ug/L		100	80 - 126
Toluene	20.0	18.0		ug/L		90	80 - 126
trans-1,2-Dichloroethene	20.0	18.3		ug/L		91	79 - 126
trans-1,3-Dichloropropene	20.0	17.4		ug/L		87	63 - 134
Trichloroethene	20.0	18.9		ug/L		95	80 - 123

TestAmerica Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

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

Lab Sample ID: LCS 490-428030/3

Matrix: Water

Analysis Batch: 428030

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	20.0	24.1		ug/L		120	65 - 124
Vinyl chloride	20.0	18.8		ug/L		94	68 - 120
cis-1,3-Dichloropropene	20.0	17.3		ug/L		86	74 - 140
Styrene	20.0	19.4		ug/L		97	80 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Toluene-d8 (Surr)	93		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130

Lab Sample ID: LCSD 490-428030/4

Matrix: Water

Analysis Batch: 428030

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
1,1,1-Trichloroethane	20.0	22.5		ug/L		113	78 - 135	11	15
1,1,2,2-Tetrachloroethane	20.0	21.7		ug/L		109	69 - 131	10	15
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.1		ug/L		106	77 - 129	10	16
1,1,2-Trichloroethane	20.0	19.4		ug/L		97	80 - 124	7	13
1,1-Dichloroethane	20.0	19.9		ug/L		99	78 - 125	8	17
1,1-Dichloroethene	20.0	21.1		ug/L		106	79 - 124	8	20
1,2,4-Trichlorobenzene	20.0	21.6		ug/L		108	63 - 133	13	15
1,2-Dibromo-3-Chloropropane	20.0	22.7		ug/L		114	54 - 125	13	19
1,2-Dichlorobenzene	20.0	21.7		ug/L		108	80 - 121	10	12
1,2-Dichloroethane	20.0	21.1		ug/L		105	77 - 121	3	13
1,2-Dichloropropane	20.0	18.8		ug/L		94	75 - 120	6	15
1,3-Dichlorobenzene	20.0	21.7		ug/L		109	80 - 122	12	13
1,4-Dichlorobenzene	20.0	21.8		ug/L		109	80 - 120	12	12
2-Butanone (MEK)	100	93.7		ug/L		94	62 - 133	8	19
2-Hexanone	100	93.6		ug/L		94	60 - 142	10	17
4-Methyl-2-pentanone (MIBK)	100	85.7		ug/L		86	60 - 137	5	21
Acetone	100	79.1		ug/L		79	54 - 145	6	23
Benzene	20.0	20.1		ug/L		100	80 - 121	8	12
Bromoform	20.0	23.0		ug/L		115	46 - 145	7	14
Bromomethane	20.0	19.1	*	ug/L		95	41 - 150	29	19
Carbon disulfide	20.0	19.8		ug/L		99	77 - 126	8	16
Carbon tetrachloride	20.0	23.2		ug/L		116	64 - 147	9	16
Chlorobenzene	20.0	21.1		ug/L		106	80 - 120	8	12
Dibromochloromethane	20.0	22.8		ug/L		114	69 - 133	7	13
Chloroethane	20.0	17.8		ug/L		89	72 - 120	6	15
Chloroform	20.0	21.0		ug/L		105	73 - 129	8	14
Chloromethane	20.0	13.9		ug/L		70	12 - 150	14	20
cis-1,2-Dichloroethene	20.0	20.6		ug/L		103	76 - 125	7	15
Cyclohexane	20.0	19.6		ug/L		98	73 - 122	11	16
Bromodichloromethane	20.0	22.8		ug/L		114	75 - 129	3	14
Dichlorodifluoromethane	20.0	28.0	*	ug/L		140	37 - 127	50	16

TestAmerica Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

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

Lab Sample ID: LCSD 490-428030/4

Matrix: Water

Analysis Batch: 428030

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
Ethylbenzene	20.0	21.6		ug/L		108	80 - 130	9	12
1,2-Dibromoethane	20.0	20.9		ug/L		104	80 - 129	6	13
Isopropylbenzene	20.0	22.9		ug/L		114	80 - 141	10	13
Methyl acetate	40.0	34.0		ug/L		85	64 - 150	5	18
Methyl tert-butyl ether	20.0	20.2		ug/L		101	72 - 133	6	16
Methylcyclohexane	20.0	20.5		ug/L		102	71 - 129	10	17
Methylene Chloride	20.0	17.9		ug/L		90	79 - 123	5	15
Tetrachloroethene	20.0	22.3		ug/L		111	80 - 126	11	17
Toluene	20.0	18.9		ug/L		94	80 - 126	5	13
trans-1,2-Dichloroethene	20.0	19.9		ug/L		99	79 - 126	9	15
trans-1,3-Dichloropropene	20.0	19.3		ug/L		96	63 - 134	10	13
Trichloroethene	20.0	20.6		ug/L		103	80 - 123	8	14
Trichlorofluoromethane	20.0	23.5		ug/L		118	65 - 124	2	22
Vinyl chloride	20.0	17.9		ug/L		89	68 - 120	5	15
cis-1,3-Dichloropropene	20.0	18.4		ug/L		92	74 - 140	7	15
Styrene	20.0	21.9		ug/L		110	80 - 127	12	12

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
4-Bromofluorobenzene (Surr)	104		70 - 130
Toluene-d8 (Surr)	93		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130

Lab Sample ID: 480-117063-1 MS

Matrix: Water

Analysis Batch: 428030

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		20.0	22.2		ug/L		111	68 - 144
1,1,2,2-Tetrachloroethane	ND		20.0	20.9		ug/L		105	56 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20.0	20.1		ug/L		100	63 - 150
1,1,2-Trichloroethane	ND		20.0	18.4		ug/L		92	70 - 130
1,1-Dichloroethane	ND		20.0	19.1		ug/L		96	61 - 139
1,1-Dichloroethene	ND		20.0	20.0		ug/L		100	54 - 150
1,2,4-Trichlorobenzene	ND		20.0	17.3		ug/L		86	47 - 147
1,2-Dibromo-3-Chloropropane	ND		20.0	21.1		ug/L		105	38 - 138
1,2-Dichlorobenzene	ND		20.0	20.5		ug/L		102	70 - 130
1,2-Dichloroethane	ND		20.0	20.9		ug/L		105	64 - 136
1,2-Dichloropropane	ND		20.0	18.6		ug/L		93	67 - 130
1,3-Dichlorobenzene	ND		20.0	20.0		ug/L		100	68 - 131
1,4-Dichlorobenzene	ND		20.0	20.7		ug/L		103	70 - 130
2-Butanone (MEK)	ND		100	97.4		ug/L		97	50 - 143
2-Hexanone	ND		100	96.0		ug/L		96	44 - 150
4-Methyl-2-pentanone (MIBK)	ND		100	89.3		ug/L		89	50 - 140
Acetone	3.3 J		100	89.7		ug/L		86	39 - 150
Benzene	ND		20.0	19.6		ug/L		98	55 - 147
Bromoform	ND		20.0	21.7		ug/L		108	53 - 150

TestAmerica Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

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

Lab Sample ID: 480-117063-1 MS

Matrix: Water

Analysis Batch: 428030

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	ND	*	20.0	23.4		ug/L		117	30 - 150
Carbon disulfide	ND		20.0	18.7		ug/L		94	35 - 150
Carbon tetrachloride	ND		20.0	23.0		ug/L		115	56 - 150
Chlorobenzene	ND		20.0	20.0		ug/L		100	70 - 130
Dibromochloromethane	ND		20.0	21.4		ug/L		107	66 - 140
Chloroethane	ND		20.0	19.6		ug/L		98	58 - 141
Chloroform	ND		20.0	20.0		ug/L		100	66 - 138
Chloromethane	ND		20.0	14.3		ug/L		71	10 - 150
cis-1,2-Dichloroethene	ND		20.0	19.5		ug/L		98	68 - 131
Cyclohexane	ND		20.0	19.0		ug/L		95	48 - 150
Bromodichloromethane	ND		20.0	22.5		ug/L		112	70 - 140
Dichlorodifluoromethane	ND	*	20.0	15.5		ug/L		77	10 - 150
Ethylbenzene	ND		20.0	20.1		ug/L		101	65 - 139
1,2-Dibromoethane	ND		20.0	20.2		ug/L		101	65 - 137
Isopropylbenzene	ND		20.0	20.8		ug/L		104	70 - 137
Methyl acetate	ND		40.0	29.4		ug/L		73	42 - 136
Methyl tert-butyl ether	ND		20.0	19.3		ug/L		97	55 - 141
Methylcyclohexane	ND		20.0	19.9		ug/L		99	59 - 150
Methylene Chloride	ND		20.0	16.6		ug/L		83	64 - 130
Tetrachloroethene	ND		20.0	19.9		ug/L		99	57 - 138
Toluene	ND		20.0	17.9		ug/L		90	64 - 136
trans-1,2-Dichloroethene	ND		20.0	19.2		ug/L		96	59 - 143
trans-1,3-Dichloropropene	ND		20.0	17.5		ug/L		88	63 - 142
Trichloroethene	ND		20.0	20.6		ug/L		103	63 - 135
Trichlorofluoromethane	ND		20.0	24.5		ug/L		123	44 - 150
Vinyl chloride	ND		20.0	18.6		ug/L		93	57 - 150
cis-1,3-Dichloropropene	ND		20.0	16.8		ug/L		84	70 - 133
Styrene	ND		20.0	19.4		ug/L		97	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Toluene-d8 (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130

Lab Sample ID: 480-117063-1 MSD

Matrix: Water

Analysis Batch: 428030

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		20.0	21.9		ug/L		110	68 - 144	1	17
1,1,2,2-Tetrachloroethane	ND		20.0	21.0		ug/L		105	56 - 145	0	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20.0	20.3		ug/L		102	63 - 150	1	18
1,1,2-Trichloroethane	ND		20.0	18.4		ug/L		92	70 - 130	0	15
1,1-Dichloroethane	ND		20.0	19.2		ug/L		96	61 - 139	0	17
1,1-Dichloroethene	ND		20.0	20.4		ug/L		102	54 - 150	2	17
1,2,4-Trichlorobenzene	ND		20.0	19.0		ug/L		95	47 - 147	10	19

TestAmerica Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

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

Lab Sample ID: 480-117063-1 MSD

Matrix: Water

Analysis Batch: 428030

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	ND		20.0	23.2		ug/L		116	38 - 138	9	24
1,2-Dichlorobenzene	ND		20.0	20.3		ug/L		102	70 - 130	1	15
1,2-Dichloroethane	ND		20.0	21.1		ug/L		105	64 - 136	1	17
1,2-Dichloropropane	ND		20.0	18.3		ug/L		91	67 - 130	2	17
1,3-Dichlorobenzene	ND		20.0	20.2		ug/L		101	68 - 131	1	15
1,4-Dichlorobenzene	ND		20.0	20.1		ug/L		100	70 - 130	3	15
2-Butanone (MEK)	ND		100	96.2		ug/L		96	50 - 143	1	19
2-Hexanone	ND		100	95.3		ug/L		95	44 - 150	1	15
4-Methyl-2-pentanone (MIBK)	ND		100	89.4		ug/L		89	50 - 140	0	17
Acetone	3.3	J	100	88.1		ug/L		85	39 - 150	2	21
Benzene	ND		20.0	19.3		ug/L		96	55 - 147	1	17
Bromoform	ND		20.0	21.9		ug/L		109	53 - 150	1	16
Bromomethane	ND	*	20.0	25.1		ug/L		126	30 - 150	7	50
Carbon disulfide	ND		20.0	19.3		ug/L		97	35 - 150	3	21
Carbon tetrachloride	ND		20.0	23.2		ug/L		116	56 - 150	1	19
Chlorobenzene	ND		20.0	20.0		ug/L		100	70 - 130	0	14
Dibromochloromethane	ND		20.0	21.6		ug/L		108	66 - 140	1	15
Chloroethane	ND		20.0	19.5		ug/L		98	58 - 141	1	20
Chloroform	ND		20.0	20.0		ug/L		100	66 - 138	0	18
Chloromethane	ND		20.0	15.8		ug/L		79	10 - 150	10	31
cis-1,2-Dichloroethene	ND		20.0	19.6		ug/L		98	68 - 131	0	17
Cyclohexane	ND		20.0	19.0		ug/L		95	48 - 150	0	16
Bromodichloromethane	ND		20.0	22.3		ug/L		112	70 - 140	1	18
Dichlorodifluoromethane	ND	*	20.0	15.2		ug/L		76	10 - 150	2	18
Ethylbenzene	ND		20.0	20.1		ug/L		101	65 - 139	0	15
1,2-Dibromoethane	ND		20.0	20.2		ug/L		101	65 - 137	0	15
Isopropylbenzene	ND		20.0	20.9		ug/L		105	70 - 137	1	16
Methyl acetate	ND		40.0	30.2		ug/L		76	42 - 136	3	31
Methyl tert-butyl ether	ND		20.0	19.3		ug/L		97	55 - 141	0	16
Methylcyclohexane	ND		20.0	19.5		ug/L		97	59 - 150	2	19
Methylene Chloride	ND		20.0	16.6		ug/L		83	64 - 130	0	17
Tetrachloroethene	ND		20.0	20.2		ug/L		101	57 - 138	2	16
Toluene	ND		20.0	18.2		ug/L		91	64 - 136	1	15
trans-1,2-Dichloroethene	ND		20.0	19.1		ug/L		96	59 - 143	1	16
trans-1,3-Dichloropropene	ND		20.0	17.2		ug/L		86	63 - 142	2	14
Trichloroethene	ND		20.0	20.3		ug/L		101	63 - 135	1	17
Trichlorofluoromethane	ND		20.0	24.7		ug/L		124	44 - 150	1	18
Vinyl chloride	ND		20.0	19.0		ug/L		95	57 - 150	2	17
cis-1,3-Dichloropropene	ND		20.0	17.2		ug/L		86	70 - 133	3	15
Styrene	ND		20.0	19.7		ug/L		98	70 - 130	2	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Toluene-d8 (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130

TestAmerica Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

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

Lab Sample ID: MB 490-428184/7

Matrix: Water

Analysis Batch: 428184

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.19	ug/L			05/08/17 13:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.19	ug/L			05/08/17 13:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.15	ug/L			05/08/17 13:10	1
1,1,2-Trichloroethane	ND		1.0	0.19	ug/L			05/08/17 13:10	1
1,1-Dichloroethane	ND		1.0	0.24	ug/L			05/08/17 13:10	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			05/08/17 13:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			05/08/17 13:10	1
1,2-Dibromo-3-Chloropropane	ND		10	0.94	ug/L			05/08/17 13:10	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			05/08/17 13:10	1
1,2-Dichloroethane	ND		1.0	0.20	ug/L			05/08/17 13:10	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			05/08/17 13:10	1
1,3-Dichlorobenzene	ND		1.0	0.18	ug/L			05/08/17 13:10	1
1,4-Dichlorobenzene	ND		1.0	0.17	ug/L			05/08/17 13:10	1
2-Butanone (MEK)	ND		50	2.6	ug/L			05/08/17 13:10	1
2-Hexanone	ND		10	1.3	ug/L			05/08/17 13:10	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.81	ug/L			05/08/17 13:10	1
Acetone	ND		25	2.7	ug/L			05/08/17 13:10	1
Benzene	ND		1.0	0.20	ug/L			05/08/17 13:10	1
Bromoform	ND		1.0	0.29	ug/L			05/08/17 13:10	1
Bromomethane	ND		1.0	0.35	ug/L			05/08/17 13:10	1
Carbon disulfide	ND		1.0	0.22	ug/L			05/08/17 13:10	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			05/08/17 13:10	1
Chlorobenzene	ND		1.0	0.18	ug/L			05/08/17 13:10	1
Dibromochloromethane	ND		1.0	0.25	ug/L			05/08/17 13:10	1
Chloroethane	ND		1.0	0.36	ug/L			05/08/17 13:10	1
Chloroform	ND		1.0	0.23	ug/L			05/08/17 13:10	1
Chloromethane	ND		1.0	0.36	ug/L			05/08/17 13:10	1
cis-1,2-Dichloroethene	ND		1.0	0.21	ug/L			05/08/17 13:10	1
Cyclohexane	ND		5.0	0.13	ug/L			05/08/17 13:10	1
Bromodichloromethane	ND		1.0	0.17	ug/L			05/08/17 13:10	1
Dichlorodifluoromethane	ND		1.0	0.17	ug/L			05/08/17 13:10	1
Ethylbenzene	ND		1.0	0.19	ug/L			05/08/17 13:10	1
1,2-Dibromoethane	ND		1.0	0.21	ug/L			05/08/17 13:10	1
Isopropylbenzene	ND		1.0	0.33	ug/L			05/08/17 13:10	1
Methyl acetate	ND		10	0.58	ug/L			05/08/17 13:10	1
Methyl tert-butyl ether	ND		1.0	0.17	ug/L			05/08/17 13:10	1
Methylcyclohexane	ND		5.0	0.090	ug/L			05/08/17 13:10	1
Methylene Chloride	ND		5.0	1.0	ug/L			05/08/17 13:10	1
Tetrachloroethene	ND		1.0	0.14	ug/L			05/08/17 13:10	1
Toluene	ND		1.0	0.17	ug/L			05/08/17 13:10	1
trans-1,2-Dichloroethene	ND		1.0	0.23	ug/L			05/08/17 13:10	1
trans-1,3-Dichloropropene	ND		1.0	0.17	ug/L			05/08/17 13:10	1
Trichloroethene	ND		1.0	0.20	ug/L			05/08/17 13:10	1
Trichlorofluoromethane	ND		1.0	0.21	ug/L			05/08/17 13:10	1
Vinyl chloride	ND		1.0	0.18	ug/L			05/08/17 13:10	1
Xylenes, Total	ND		3.0	0.58	ug/L			05/08/17 13:10	1
cis-1,3-Dichloropropene	ND		1.0	0.17	ug/L			05/08/17 13:10	1
Styrene	ND		1.0	0.28	ug/L			05/08/17 13:10	1

TestAmerica Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		05/08/17 13:10	1
4-Bromofluorobenzene (Surr)	115		70 - 130		05/08/17 13:10	1
Toluene-d8 (Surr)	99		70 - 130		05/08/17 13:10	1
Dibromofluoromethane (Surr)	102		70 - 130		05/08/17 13:10	1

Lab Sample ID: LCS 490-428184/3
Matrix: Water
Analysis Batch: 428184

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	26.4		ug/L		132	78 - 135
1,1,2,2-Tetrachloroethane	20.0	22.4		ug/L		112	69 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	25.2		ug/L		126	77 - 129
1,1,2-Trichloroethane	20.0	22.5		ug/L		112	80 - 124
1,1-Dichloroethane	20.0	21.8		ug/L		109	78 - 125
1,1-Dichloroethene	20.0	21.9		ug/L		109	79 - 124
1,2,4-Trichlorobenzene	20.0	19.8		ug/L		99	63 - 133
1,2-Dibromo-3-Chloropropane	20.0	19.3		ug/L		97	54 - 125
1,2-Dichlorobenzene	20.0	24.0		ug/L		120	80 - 121
1,2-Dichloroethane	20.0	22.7		ug/L		114	77 - 121
1,2-Dichloropropane	20.0	21.6		ug/L		108	75 - 120
1,3-Dichlorobenzene	20.0	24.3		ug/L		121	80 - 122
1,4-Dichlorobenzene	20.0	24.1	*	ug/L		121	80 - 120
2-Butanone (MEK)	100	93.9		ug/L		94	62 - 133
2-Hexanone	100	90.9		ug/L		91	60 - 142
4-Methyl-2-pentanone (MIBK)	100	95.8		ug/L		96	60 - 137
Acetone	100	104		ug/L		104	54 - 145
Benzene	20.0	22.9		ug/L		115	80 - 121
Bromoform	20.0	22.0		ug/L		110	46 - 145
Bromomethane	20.0	25.4		ug/L		127	41 - 150
Carbon disulfide	20.0	23.8		ug/L		119	77 - 126
Carbon tetrachloride	20.0	26.4		ug/L		132	64 - 147
Chlorobenzene	20.0	23.4		ug/L		117	80 - 120
Dibromochloromethane	20.0	22.8		ug/L		114	69 - 133
Chloroethane	20.0	20.4		ug/L		102	72 - 120
Chloroform	20.0	23.7		ug/L		119	73 - 129
Chloromethane	20.0	22.2		ug/L		111	12 - 150
cis-1,2-Dichloroethene	20.0	23.3		ug/L		116	76 - 125
Cyclohexane	20.0	23.7		ug/L		119	73 - 122
Bromodichloromethane	20.0	24.2		ug/L		121	75 - 129
Dichlorodifluoromethane	20.0	21.9		ug/L		109	37 - 127
Ethylbenzene	20.0	24.0		ug/L		120	80 - 130
1,2-Dibromoethane	20.0	22.2		ug/L		111	80 - 129
Isopropylbenzene	20.0	24.4		ug/L		122	80 - 141
Methyl acetate	40.0	35.7		ug/L		89	64 - 150
Methyl tert-butyl ether	20.0	21.9		ug/L		109	72 - 133
Methylcyclohexane	20.0	24.6		ug/L		123	71 - 129
Methylene Chloride	20.0	22.9		ug/L		115	79 - 123
Tetrachloroethene	20.0	24.7		ug/L		124	80 - 126
Toluene	20.0	23.0		ug/L		115	80 - 126
trans-1,2-Dichloroethene	20.0	23.1		ug/L		116	79 - 126
trans-1,3-Dichloropropene	20.0	22.6		ug/L		113	63 - 134
Trichloroethene	20.0	23.5		ug/L		118	80 - 123

TestAmerica Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

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

Lab Sample ID: LCS 490-428184/3

Matrix: Water

Analysis Batch: 428184

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	20.0	26.6	*	ug/L		133	65 - 124
Vinyl chloride	20.0	21.2		ug/L		106	68 - 120
cis-1,3-Dichloropropene	20.0	23.8		ug/L		119	74 - 140
Styrene	20.0	25.0		ug/L		125	80 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Toluene-d8 (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130

Lab Sample ID: LCSD 490-428184/4

Matrix: Water

Analysis Batch: 428184

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
1,1,1-Trichloroethane	20.0	24.6		ug/L		123	78 - 135	7	15
1,1,2,2-Tetrachloroethane	20.0	22.2		ug/L		111	69 - 131	1	15
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	22.6		ug/L		113	77 - 129	11	16
1,1,2-Trichloroethane	20.0	21.8		ug/L		109	80 - 124	3	13
1,1-Dichloroethane	20.0	21.0		ug/L		105	78 - 125	4	17
1,1-Dichloroethene	20.0	21.4		ug/L		107	79 - 124	2	20
1,2,4-Trichlorobenzene	20.0	19.5		ug/L		98	63 - 133	2	15
1,2-Dibromo-3-Chloropropane	20.0	19.6		ug/L		98	54 - 125	1	19
1,2-Dichlorobenzene	20.0	23.4		ug/L		117	80 - 121	3	12
1,2-Dichloroethane	20.0	22.0		ug/L		110	77 - 121	3	13
1,2-Dichloropropane	20.0	20.9		ug/L		104	75 - 120	4	15
1,3-Dichlorobenzene	20.0	23.7		ug/L		119	80 - 122	2	13
1,4-Dichlorobenzene	20.0	23.0		ug/L		115	80 - 120	5	12
2-Butanone (MEK)	100	101		ug/L		101	62 - 133	7	19
2-Hexanone	100	95.2		ug/L		95	60 - 142	5	17
4-Methyl-2-pentanone (MIBK)	100	95.9		ug/L		96	60 - 137	0	21
Acetone	100	104		ug/L		104	54 - 145	0	23
Benzene	20.0	22.2		ug/L		111	80 - 121	4	12
Bromoform	20.0	21.6		ug/L		108	46 - 145	2	14
Bromomethane	20.0	23.2		ug/L		116	41 - 150	9	19
Carbon disulfide	20.0	22.1		ug/L		110	77 - 126	8	16
Carbon tetrachloride	20.0	24.9		ug/L		125	64 - 147	6	16
Chlorobenzene	20.0	22.5		ug/L		113	80 - 120	4	12
Dibromochloromethane	20.0	22.3		ug/L		111	69 - 133	3	13
Chloroethane	20.0	19.2		ug/L		96	72 - 120	6	15
Chloroform	20.0	22.5		ug/L		112	73 - 129	5	14
Chloromethane	20.0	20.0		ug/L		100	12 - 150	10	20
cis-1,2-Dichloroethene	20.0	22.1		ug/L		110	76 - 125	5	15
Cyclohexane	20.0	22.0		ug/L		110	73 - 122	8	16
Bromodichloromethane	20.0	23.2		ug/L		116	75 - 129	4	14
Dichlorodifluoromethane	20.0	20.8		ug/L		104	37 - 127	5	16

TestAmerica Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

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

Lab Sample ID: LCSD 490-428184/4

Matrix: Water

Analysis Batch: 428184

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
Ethylbenzene	20.0	22.6		ug/L		113	80 - 130	6	12
1,2-Dibromoethane	20.0	22.1		ug/L		110	80 - 129	1	13
Isopropylbenzene	20.0	23.1		ug/L		115	80 - 141	6	13
Methyl acetate	40.0	35.2		ug/L		88	64 - 150	1	18
Methyl tert-butyl ether	20.0	21.2		ug/L		106	72 - 133	3	16
Methylcyclohexane	20.0	23.2		ug/L		116	71 - 129	6	17
Methylene Chloride	20.0	22.1		ug/L		111	79 - 123	4	15
Tetrachloroethene	20.0	22.7		ug/L		114	80 - 126	8	17
Toluene	20.0	22.1		ug/L		111	80 - 126	4	13
trans-1,2-Dichloroethene	20.0	21.4		ug/L		107	79 - 126	8	15
trans-1,3-Dichloropropene	20.0	22.0		ug/L		110	63 - 134	3	13
Trichloroethene	20.0	22.3		ug/L		111	80 - 123	6	14
Trichlorofluoromethane	20.0	24.9		ug/L		124	65 - 124	7	22
Vinyl chloride	20.0	19.4		ug/L		97	68 - 120	9	15
cis-1,3-Dichloropropene	20.0	23.0		ug/L		115	74 - 140	3	15
Styrene	20.0	23.6		ug/L		118	80 - 127	6	12

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130
Toluene-d8 (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130

Lab Sample ID: 480-117063-16 MS

Matrix: Water

Analysis Batch: 428184

Client Sample ID: MW-14

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		1000	1240		ug/L		124	68 - 144
1,1,2,2-Tetrachloroethane	ND		1000	984		ug/L		98	56 - 145
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1000	1220		ug/L		122	63 - 150
1,1,2-Trichloroethane	ND		1000	1070		ug/L		107	70 - 130
1,1-Dichloroethane	ND		1000	1060		ug/L		106	61 - 139
1,1-Dichloroethene	ND		1000	1140		ug/L		114	54 - 150
1,2,4-Trichlorobenzene	ND		1000	868		ug/L		87	47 - 147
1,2-Dibromo-3-Chloropropane	ND		1000	852		ug/L		85	38 - 138
1,2-Dichlorobenzene	ND		1000	1130		ug/L		113	70 - 130
1,2-Dichloroethane	ND		1000	1060		ug/L		106	64 - 136
1,2-Dichloropropane	ND		1000	1030		ug/L		103	67 - 130
1,3-Dichlorobenzene	ND		1000	1170		ug/L		117	68 - 131
1,4-Dichlorobenzene	ND	*	1000	1120		ug/L		112	70 - 130
2-Butanone (MEK)	ND		5000	4800		ug/L		96	50 - 143
2-Hexanone	ND		5000	4140		ug/L		83	44 - 150
4-Methyl-2-pentanone (MIBK)	ND		5000	4390		ug/L		88	50 - 140
Acetone	ND		5000	4250		ug/L		85	39 - 150
Benzene	ND		1000	1130		ug/L		113	55 - 147
Bromoform	ND		1000	1050		ug/L		105	53 - 150

TestAmerica Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

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

Lab Sample ID: 480-117063-16 MS

Matrix: Water

Analysis Batch: 428184

Client Sample ID: MW-14

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	ND		1000	1150		ug/L		115	30 - 150
Carbon disulfide	ND		1000	1120		ug/L		112	35 - 150
Carbon tetrachloride	ND		1000	1240		ug/L		124	56 - 150
Chlorobenzene	ND		1000	1120		ug/L		112	70 - 130
Dibromochloromethane	ND		1000	1060		ug/L		106	66 - 140
Chloroethane	ND		1000	974		ug/L		97	58 - 141
Chloroform	ND		1000	1160		ug/L		116	66 - 138
Chloromethane	ND		1000	1010		ug/L		101	10 - 150
cis-1,2-Dichloroethene	1900		1000	2950		ug/L		105	68 - 131
Cyclohexane	ND		1000	1160		ug/L		116	48 - 150
Bromodichloromethane	ND		1000	1120		ug/L		112	70 - 140
Dichlorodifluoromethane	ND		1000	1050		ug/L		105	10 - 150
Ethylbenzene	ND		1000	1140		ug/L		114	65 - 139
1,2-Dibromoethane	ND		1000	1050		ug/L		105	65 - 137
Isopropylbenzene	ND		1000	1200		ug/L		120	70 - 137
Methyl acetate	ND		2000	1670		ug/L		84	42 - 136
Methyl tert-butyl ether	ND		1000	997		ug/L		100	55 - 141
Methylcyclohexane	ND		1000	1180		ug/L		118	59 - 150
Methylene Chloride	ND		1000	1110		ug/L		111	64 - 130
Tetrachloroethene	ND		1000	1200		ug/L		120	57 - 138
Toluene	ND		1000	1110		ug/L		111	64 - 136
trans-1,2-Dichloroethene	18	J	1000	1080		ug/L		106	59 - 143
trans-1,3-Dichloropropene	ND		1000	1040		ug/L		104	63 - 142
Trichloroethene	8400		1000	8710	4	ug/L		28	63 - 135
Trichlorofluoromethane	ND	*	1000	1310		ug/L		131	44 - 150
Vinyl chloride	ND		1000	1060		ug/L		106	57 - 150
cis-1,3-Dichloropropene	ND		1000	1100		ug/L		110	70 - 133
Styrene	ND		1000	1260		ug/L		126	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130
Toluene-d8 (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130

Lab Sample ID: 480-117063-16 MSD

Matrix: Water

Analysis Batch: 428184

Client Sample ID: MW-14

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		1000	1300		ug/L		130	68 - 144	4	17
1,1,2,2-Tetrachloroethane	ND		1000	1030		ug/L		103	56 - 145	5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1000	1230		ug/L		123	63 - 150	1	18
1,1,2-Trichloroethane	ND		1000	1070		ug/L		107	70 - 130	0	15
1,1-Dichloroethane	ND		1000	1100		ug/L		110	61 - 139	3	17
1,1-Dichloroethene	ND		1000	1110		ug/L		111	54 - 150	3	17
1,2,4-Trichlorobenzene	ND		1000	913		ug/L		91	47 - 147	5	19

TestAmerica Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

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

Lab Sample ID: 480-117063-16 MSD

Matrix: Water

Analysis Batch: 428184

Client Sample ID: MW-14

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	ND		1000	912		ug/L		91	38 - 138	7	24
1,2-Dichlorobenzene	ND		1000	1160		ug/L		116	70 - 130	2	15
1,2-Dichloroethane	ND		1000	1090		ug/L		109	64 - 136	2	17
1,2-Dichloropropane	ND		1000	1080		ug/L		108	67 - 130	6	17
1,3-Dichlorobenzene	ND		1000	1180		ug/L		118	68 - 131	1	15
1,4-Dichlorobenzene	ND	*	1000	1160		ug/L		116	70 - 130	3	15
2-Butanone (MEK)	ND		5000	4840		ug/L		97	50 - 143	1	19
2-Hexanone	ND		5000	4310		ug/L		86	44 - 150	4	15
4-Methyl-2-pentanone (MIBK)	ND		5000	4520		ug/L		90	50 - 140	3	17
Acetone	ND		5000	4760		ug/L		95	39 - 150	11	21
Benzene	ND		1000	1160		ug/L		116	55 - 147	2	17
Bromoform	ND		1000	1070		ug/L		107	53 - 150	2	16
Bromomethane	ND		1000	1250		ug/L		125	30 - 150	8	50
Carbon disulfide	ND		1000	1170		ug/L		117	35 - 150	4	21
Carbon tetrachloride	ND		1000	1280		ug/L		128	56 - 150	3	19
Chlorobenzene	ND		1000	1130		ug/L		113	70 - 130	1	14
Dibromochloromethane	ND		1000	1090		ug/L		109	66 - 140	3	15
Chloroethane	ND		1000	1000		ug/L		100	58 - 141	3	20
Chloroform	ND		1000	1200		ug/L		120	66 - 138	4	18
Chloromethane	ND		1000	1060		ug/L		106	10 - 150	5	31
cis-1,2-Dichloroethene	1900		1000	3020		ug/L		112	68 - 131	2	17
Cyclohexane	ND		1000	1220		ug/L		122	48 - 150	5	16
Bromodichloromethane	ND		1000	1160		ug/L		116	70 - 140	4	18
Dichlorodifluoromethane	ND		1000	1060		ug/L		106	10 - 150	1	18
Ethylbenzene	ND		1000	1170		ug/L		117	65 - 139	2	15
1,2-Dibromoethane	ND		1000	1100		ug/L		110	65 - 137	4	15
Isopropylbenzene	ND		1000	1210		ug/L		121	70 - 137	1	16
Methyl acetate	ND		2000	1770		ug/L		89	42 - 136	6	31
Methyl tert-butyl ether	ND		1000	1050		ug/L		105	55 - 141	5	16
Methylcyclohexane	ND		1000	1240		ug/L		124	59 - 150	4	19
Methylene Chloride	ND		1000	1140		ug/L		114	64 - 130	3	17
Tetrachloroethene	ND		1000	1200		ug/L		120	57 - 138	0	16
Toluene	ND		1000	1140		ug/L		114	64 - 136	3	15
trans-1,2-Dichloroethene	18	J	1000	1150		ug/L		113	59 - 143	6	16
trans-1,3-Dichloropropene	ND		1000	1080		ug/L		108	63 - 142	4	14
Trichloroethene	8400		1000	8870	4	ug/L		44	63 - 135	2	17
Trichlorofluoromethane	ND	*	1000	1290		ug/L		129	44 - 150	1	18
Vinyl chloride	ND		1000	1080		ug/L		108	57 - 150	2	17
cis-1,3-Dichloropropene	ND		1000	1140		ug/L		114	70 - 133	4	15
Styrene	ND		1000	1260		ug/L		126	70 - 130	0	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130
Toluene-d8 (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130

TestAmerica Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

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

Lab Sample ID: MB 490-428592/7

Matrix: Water

Analysis Batch: 428592

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.19	ug/L			05/09/17 12:48	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.19	ug/L			05/09/17 12:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.15	ug/L			05/09/17 12:48	1
1,1,2-Trichloroethane	ND		1.0	0.19	ug/L			05/09/17 12:48	1
1,1-Dichloroethane	ND		1.0	0.24	ug/L			05/09/17 12:48	1
1,1-Dichloroethene	ND		1.0	0.25	ug/L			05/09/17 12:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.20	ug/L			05/09/17 12:48	1
1,2-Dibromo-3-Chloropropane	ND		10	0.94	ug/L			05/09/17 12:48	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			05/09/17 12:48	1
1,2-Dichloroethane	ND		1.0	0.20	ug/L			05/09/17 12:48	1
1,2-Dichloropropane	ND		1.0	0.25	ug/L			05/09/17 12:48	1
1,3-Dichlorobenzene	ND		1.0	0.18	ug/L			05/09/17 12:48	1
1,4-Dichlorobenzene	ND		1.0	0.17	ug/L			05/09/17 12:48	1
2-Butanone (MEK)	ND		50	2.6	ug/L			05/09/17 12:48	1
2-Hexanone	ND		10	1.3	ug/L			05/09/17 12:48	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.81	ug/L			05/09/17 12:48	1
Acetone	ND		25	2.7	ug/L			05/09/17 12:48	1
Benzene	ND		1.0	0.20	ug/L			05/09/17 12:48	1
Bromoform	ND		1.0	0.29	ug/L			05/09/17 12:48	1
Bromomethane	ND		1.0	0.35	ug/L			05/09/17 12:48	1
Carbon disulfide	ND		1.0	0.22	ug/L			05/09/17 12:48	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			05/09/17 12:48	1
Chlorobenzene	ND		1.0	0.18	ug/L			05/09/17 12:48	1
Dibromochloromethane	ND		1.0	0.25	ug/L			05/09/17 12:48	1
Chloroethane	ND		1.0	0.36	ug/L			05/09/17 12:48	1
Chloroform	ND		1.0	0.23	ug/L			05/09/17 12:48	1
Chloromethane	ND		1.0	0.36	ug/L			05/09/17 12:48	1
cis-1,2-Dichloroethene	ND		1.0	0.21	ug/L			05/09/17 12:48	1
Cyclohexane	ND		5.0	0.13	ug/L			05/09/17 12:48	1
Bromodichloromethane	ND		1.0	0.17	ug/L			05/09/17 12:48	1
Dichlorodifluoromethane	ND		1.0	0.17	ug/L			05/09/17 12:48	1
Ethylbenzene	ND		1.0	0.19	ug/L			05/09/17 12:48	1
1,2-Dibromoethane	ND		1.0	0.21	ug/L			05/09/17 12:48	1
Isopropylbenzene	ND		1.0	0.33	ug/L			05/09/17 12:48	1
Methyl acetate	ND		10	0.58	ug/L			05/09/17 12:48	1
Methyl tert-butyl ether	ND		1.0	0.17	ug/L			05/09/17 12:48	1
Methylcyclohexane	ND		5.0	0.090	ug/L			05/09/17 12:48	1
Methylene Chloride	ND		5.0	1.0	ug/L			05/09/17 12:48	1
Tetrachloroethene	ND		1.0	0.14	ug/L			05/09/17 12:48	1
Toluene	ND		1.0	0.17	ug/L			05/09/17 12:48	1
trans-1,2-Dichloroethene	ND		1.0	0.23	ug/L			05/09/17 12:48	1
trans-1,3-Dichloropropene	ND		1.0	0.17	ug/L			05/09/17 12:48	1
Trichloroethene	ND		1.0	0.20	ug/L			05/09/17 12:48	1
Trichlorofluoromethane	ND		1.0	0.21	ug/L			05/09/17 12:48	1
Vinyl chloride	ND		1.0	0.18	ug/L			05/09/17 12:48	1
Xylenes, Total	ND		3.0	0.58	ug/L			05/09/17 12:48	1
cis-1,3-Dichloropropene	ND		1.0	0.17	ug/L			05/09/17 12:48	1
Styrene	ND		1.0	0.28	ug/L			05/09/17 12:48	1

TestAmerica Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		05/09/17 12:48	1
4-Bromofluorobenzene (Surr)	101		70 - 130		05/09/17 12:48	1
Toluene-d8 (Surr)	92		70 - 130		05/09/17 12:48	1
Dibromofluoromethane (Surr)	97		70 - 130		05/09/17 12:48	1

Lab Sample ID: LCS 490-428592/3
Matrix: Water
Analysis Batch: 428592

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	21.2		ug/L		106	78 - 135
1,1,2,2-Tetrachloroethane	20.0	20.8		ug/L		104	69 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.1		ug/L		105	77 - 129
1,1,2-Trichloroethane	20.0	17.9		ug/L		89	80 - 124
1,1-Dichloroethane	20.0	18.8		ug/L		94	78 - 125
1,1-Dichloroethene	20.0	20.5		ug/L		102	79 - 124
1,2,4-Trichlorobenzene	20.0	21.5		ug/L		107	63 - 133
1,2-Dibromo-3-Chloropropane	20.0	24.1		ug/L		121	54 - 125
1,2-Dichlorobenzene	20.0	20.4		ug/L		102	80 - 121
1,2-Dichloroethane	20.0	20.3		ug/L		102	77 - 121
1,2-Dichloropropane	20.0	17.6		ug/L		88	75 - 120
1,3-Dichlorobenzene	20.0	20.6		ug/L		103	80 - 122
1,4-Dichlorobenzene	20.0	20.8		ug/L		104	80 - 120
2-Butanone (MEK)	100	95.0		ug/L		95	62 - 133
2-Hexanone	100	94.9		ug/L		95	60 - 142
4-Methyl-2-pentanone (MIBK)	100	83.9		ug/L		84	60 - 137
Acetone	100	81.6		ug/L		82	54 - 145
Benzene	20.0	18.9		ug/L		94	80 - 121
Bromoform	20.0	23.2		ug/L		116	46 - 145
Bromomethane	20.0	18.7		ug/L		93	41 - 150
Carbon disulfide	20.0	18.8		ug/L		94	77 - 126
Carbon tetrachloride	20.0	22.1		ug/L		111	64 - 147
Chlorobenzene	20.0	19.9		ug/L		99	80 - 120
Dibromochloromethane	20.0	21.8		ug/L		109	69 - 133
Chloroethane	20.0	18.8		ug/L		94	72 - 120
Chloroform	20.0	20.4		ug/L		102	73 - 129
Chloromethane	20.0	13.6		ug/L		68	12 - 150
cis-1,2-Dichloroethene	20.0	19.9		ug/L		100	76 - 125
Cyclohexane	20.0	18.2		ug/L		91	73 - 122
Bromodichloromethane	20.0	22.2		ug/L		111	75 - 129
Dichlorodifluoromethane	20.0	29.1	*	ug/L		146	37 - 127
Ethylbenzene	20.0	19.5		ug/L		98	80 - 130
1,2-Dibromoethane	20.0	20.0		ug/L		100	80 - 129
Isopropylbenzene	20.0	20.8		ug/L		104	80 - 141
Methyl acetate	40.0	35.9		ug/L		90	64 - 150
Methyl tert-butyl ether	20.0	19.9		ug/L		100	72 - 133
Methylcyclohexane	20.0	19.1		ug/L		96	71 - 129
Methylene Chloride	20.0	17.4		ug/L		87	79 - 123
Tetrachloroethene	20.0	18.8		ug/L		94	80 - 126
Toluene	20.0	17.2		ug/L		86	80 - 126
trans-1,2-Dichloroethene	20.0	18.8		ug/L		94	79 - 126
trans-1,3-Dichloropropene	20.0	18.1		ug/L		90	63 - 134
Trichloroethene	20.0	19.7		ug/L		98	80 - 123

TestAmerica Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

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

Lab Sample ID: LCS 490-428592/3

Matrix: Water

Analysis Batch: 428592

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	20.0	25.1	*	ug/L		125	65 - 124
Vinyl chloride	20.0	18.9		ug/L		94	68 - 120
cis-1,3-Dichloropropene	20.0	17.5		ug/L		87	74 - 140
Styrene	20.0	19.8		ug/L		99	80 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Toluene-d8 (Surr)	90		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130

Lab Sample ID: LCSD 490-428592/4

Matrix: Water

Analysis Batch: 428592

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
1,1,1-Trichloroethane	20.0	21.2		ug/L		106	78 - 135	0	15
1,1,2,2-Tetrachloroethane	20.0	20.4		ug/L		102	69 - 131	2	15
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.6		ug/L		103	77 - 129	3	16
1,1,2-Trichloroethane	20.0	18.7		ug/L		93	80 - 124	4	13
1,1-Dichloroethane	20.0	18.6		ug/L		93	78 - 125	1	17
1,1-Dichloroethene	20.0	19.5		ug/L		97	79 - 124	5	20
1,2,4-Trichlorobenzene	20.0	20.8		ug/L		104	63 - 133	3	15
1,2-Dibromo-3-Chloropropane	20.0	23.8		ug/L		119	54 - 125	1	19
1,2-Dichlorobenzene	20.0	19.8		ug/L		99	80 - 121	3	12
1,2-Dichloroethane	20.0	21.0		ug/L		105	77 - 121	3	13
1,2-Dichloropropane	20.0	18.1		ug/L		90	75 - 120	2	15
1,3-Dichlorobenzene	20.0	19.7		ug/L		99	80 - 122	4	13
1,4-Dichlorobenzene	20.0	19.5		ug/L		97	80 - 120	7	12
2-Butanone (MEK)	100	98.6		ug/L		99	62 - 133	4	19
2-Hexanone	100	95.3		ug/L		95	60 - 142	0	17
4-Methyl-2-pentanone (MIBK)	100	87.7		ug/L		88	60 - 137	5	21
Acetone	100	85.3		ug/L		85	54 - 145	4	23
Benzene	20.0	18.9		ug/L		95	80 - 121	0	12
Bromoform	20.0	22.8		ug/L		114	46 - 145	2	14
Bromomethane	20.0	19.9		ug/L		99	41 - 150	6	19
Carbon disulfide	20.0	18.6		ug/L		93	77 - 126	1	16
Carbon tetrachloride	20.0	22.3		ug/L		111	64 - 147	1	16
Chlorobenzene	20.0	19.6		ug/L		98	80 - 120	2	12
Dibromochloromethane	20.0	21.5		ug/L		108	69 - 133	1	13
Chloroethane	20.0	18.5		ug/L		92	72 - 120	2	15
Chloroform	20.0	19.8		ug/L		99	73 - 129	3	14
Chloromethane	20.0	12.3		ug/L		61	12 - 150	10	20
cis-1,2-Dichloroethene	20.0	19.5		ug/L		98	76 - 125	2	15
Cyclohexane	20.0	18.5		ug/L		92	73 - 122	2	16
Bromodichloromethane	20.0	22.6		ug/L		113	75 - 129	2	14
Dichlorodifluoromethane	20.0	26.0	*	ug/L		130	37 - 127	12	16

TestAmerica Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

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

Lab Sample ID: LCSD 490-428592/4

Matrix: Water

Analysis Batch: 428592

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
Ethylbenzene	20.0	19.6		ug/L		98	80 - 130	1	12
1,2-Dibromoethane	20.0	20.0		ug/L		100	80 - 129	0	13
Isopropylbenzene	20.0	20.2		ug/L		101	80 - 141	3	13
Methyl acetate	40.0	34.9		ug/L		87	64 - 150	3	18
Methyl tert-butyl ether	20.0	20.2		ug/L		101	72 - 133	1	16
Methylcyclohexane	20.0	19.1		ug/L		95	71 - 129	0	17
Methylene Chloride	20.0	17.2		ug/L		86	79 - 123	1	15
Tetrachloroethene	20.0	20.0		ug/L		100	80 - 126	6	17
Toluene	20.0	16.7		ug/L		84	80 - 126	3	13
trans-1,2-Dichloroethene	20.0	18.6		ug/L		93	79 - 126	1	15
trans-1,3-Dichloropropene	20.0	18.2		ug/L		91	63 - 134	0	13
Trichloroethene	20.0	19.8		ug/L		99	80 - 123	1	14
Trichlorofluoromethane	20.0	24.1		ug/L		120	65 - 124	4	22
Vinyl chloride	20.0	18.2		ug/L		91	68 - 120	4	15
cis-1,3-Dichloropropene	20.0	17.5		ug/L		88	74 - 140	0	15
Styrene	20.0	19.5		ug/L		98	80 - 127	1	12

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130
Toluene-d8 (Surr)	89		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130

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

Lab Sample ID: MB 460-434882/9

Matrix: Water

Analysis Batch: 434882

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.20	ug/L			05/04/17 09:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		71 - 144		05/04/17 09:44	1
4-Bromofluorobenzene	93		72 - 133		05/04/17 09:44	1

Lab Sample ID: LCS 460-434882/5

Matrix: Water

Analysis Batch: 434882

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	5.00	5.56		ug/L		111	66 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	76		71 - 144
4-Bromofluorobenzene	91		72 - 133

TestAmerica Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

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

Lab Sample ID: LCSD 460-434882/6

Matrix: Water

Analysis Batch: 434882

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
1,4-Dioxane	5.00	5.57		ug/L		111	66 - 135	0	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	76		71 - 144						
4-Bromofluorobenzene	93		72 - 133						

Lab Sample ID: MB 460-435512/7

Matrix: Water

Analysis Batch: 435512

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.20	ug/L			05/07/17 10:27	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	100		71 - 144						
4-Bromofluorobenzene	97		72 - 133						

Lab Sample ID: LCS 460-435512/3

Matrix: Water

Analysis Batch: 435512

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike			LCS	LCS	Unit	D	%Rec	%Rec.		
	Added	Result	Qualifier	Qualifier	Limits						
1,4-Dioxane		5.00	6.09			ug/L		122	66 - 135		
Surrogate	LCS	LCS	Limits								
	%Recovery	Qualifier									
	1,2-Dichloroethane-d4 (Surr)	103		71 - 144							
	4-Bromofluorobenzene	104		72 - 133							

Lab Sample ID: LCSD 460-435512/4

Matrix: Water

Analysis Batch: 435512

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
1,4-Dioxane	5.00	5.99		ug/L		120	66 - 135	2	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	98		71 - 144						
4-Bromofluorobenzene	103		72 - 133						

Lab Sample ID: 480-117063-1 MS

Matrix: Water

Analysis Batch: 435512

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane	ND		5.00	5.91		ug/L		118	66 - 135		

TestAmerica Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

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

Lab Sample ID: 480-117063-1 MS

Matrix: Water

Analysis Batch: 435512

Client Sample ID: MW-1

Prep Type: Total/NA

	<i>MS</i>	<i>MS</i>	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	100		71 - 144
4-Bromofluorobenzene	95		72 - 133

Lab Sample ID: 480-117063-1 MSD

Matrix: Water

Analysis Batch: 435512

Client Sample ID: MW-1

Prep Type: Total/NA

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MSD Result</i>	<i>MSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
1,4-Dioxane	ND		5.00	5.45		ug/L		109	66 - 135	8	30
	<i>MSD</i>	<i>MSD</i>									
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>								
1,2-Dichloroethane-d4 (Surr)	96		71 - 144								
4-Bromofluorobenzene	89		72 - 133								

Definitions/Glossary

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Qualifiers

GC/MS VOA

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.
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD is outside acceptance 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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

QC Association Summary

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

GC/MS VOA

Analysis Batch: 428030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-117063-1	MW-1	Total/NA	Water	8260C	
480-117063-3	MW-3	Total/NA	Water	8260C	
480-117063-4	MW-4	Total/NA	Water	8260C	
480-117063-5	MW-4D	Total/NA	Water	8260C	
480-117063-6	MW-5	Total/NA	Water	8260C	
480-117063-7	MW-5D	Total/NA	Water	8260C	
480-117063-8	MW-6	Total/NA	Water	8260C	
480-117063-9	MW-7	Total/NA	Water	8260C	
480-117063-10	MW-8	Total/NA	Water	8260C	
480-117063-12	MW-10	Total/NA	Water	8260C	
480-117063-13	MW-11R	Total/NA	Water	8260C	
480-117063-14	MW-12	Total/NA	Water	8260C	
480-117063-15	MW-13	Total/NA	Water	8260C	
480-117063-17	DUP-042517	Total/NA	Water	8260C	
480-117063-18	TRIP BLANK	Total/NA	Water	8260C	
MB 490-428030/7	Method Blank	Total/NA	Water	8260C	
LCS 490-428030/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 490-428030/4	Lab Control Sample Dup	Total/NA	Water	8260C	
480-117063-1 MS	MW-1	Total/NA	Water	8260C	
480-117063-1 MSD	MW-1	Total/NA	Water	8260C	

Analysis Batch: 428184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-117063-2	MW-2	Total/NA	Water	8260C	
480-117063-13	MW-11R	Total/NA	Water	8260C	
480-117063-16	MW-14	Total/NA	Water	8260C	
480-117063-17	DUP-042517	Total/NA	Water	8260C	
MB 490-428184/7	Method Blank	Total/NA	Water	8260C	
LCS 490-428184/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 490-428184/4	Lab Control Sample Dup	Total/NA	Water	8260C	
480-117063-16 MS	MW-14	Total/NA	Water	8260C	
480-117063-16 MSD	MW-14	Total/NA	Water	8260C	

Analysis Batch: 428592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-117063-11	MW-9R	Total/NA	Water	8260C	
MB 490-428592/7	Method Blank	Total/NA	Water	8260C	
LCS 490-428592/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 490-428592/4	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 434882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-117063-1	MW-1	Total/NA	Water	8260C SIM	
480-117063-2	MW-2	Total/NA	Water	8260C SIM	
480-117063-3	MW-3	Total/NA	Water	8260C SIM	
480-117063-4	MW-4	Total/NA	Water	8260C SIM	
480-117063-5	MW-4D	Total/NA	Water	8260C SIM	
480-117063-6	MW-5	Total/NA	Water	8260C SIM	
480-117063-7	MW-5D	Total/NA	Water	8260C SIM	
480-117063-8	MW-6	Total/NA	Water	8260C SIM	
480-117063-9	MW-7	Total/NA	Water	8260C SIM	

TestAmerica Buffalo

QC Association Summary

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

GC/MS VOA (Continued)

Analysis Batch: 434882 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-117063-10	MW-8	Total/NA	Water	8260C SIM	
480-117063-11	MW-9R	Total/NA	Water	8260C SIM	
480-117063-12	MW-10	Total/NA	Water	8260C SIM	
480-117063-13	MW-11R	Total/NA	Water	8260C SIM	
480-117063-14	MW-12	Total/NA	Water	8260C SIM	
480-117063-15	MW-13	Total/NA	Water	8260C SIM	
480-117063-16	MW-14	Total/NA	Water	8260C SIM	
480-117063-17	DUP-042517	Total/NA	Water	8260C SIM	
MB 460-434882/9	Method Blank	Total/NA	Water	8260C SIM	
LCS 460-434882/5	Lab Control Sample	Total/NA	Water	8260C SIM	
LCSD 460-434882/6	Lab Control Sample Dup	Total/NA	Water	8260C SIM	

Analysis Batch: 435512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-435512/7	Method Blank	Total/NA	Water	8260C SIM	
LCS 460-435512/3	Lab Control Sample	Total/NA	Water	8260C SIM	
LCSD 460-435512/4	Lab Control Sample Dup	Total/NA	Water	8260C SIM	
480-117063-1 MS	MW-1	Total/NA	Water	8260C SIM	
480-117063-1 MSD	MW-1	Total/NA	Water	8260C SIM	

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: MW-1

Date Collected: 04/26/17 08:45

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	428030	05/07/17 06:11	SW1	TAL NSH
Total/NA	Analysis	8260C SIM		1	434882	05/04/17 10:07	KLB	TAL EDI

Client Sample ID: MW-2

Date Collected: 04/24/17 17:10

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		500	428184	05/08/17 14:02	AK1	TAL NSH
Total/NA	Analysis	8260C SIM		1	434882	05/04/17 10:31	KLB	TAL EDI

Client Sample ID: MW-3

Date Collected: 04/26/17 13:20

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	428030	05/07/17 10:15	SW1	TAL NSH
Total/NA	Analysis	8260C SIM		1	434882	05/04/17 10:54	KLB	TAL EDI

Client Sample ID: MW-4

Date Collected: 04/25/17 13:05

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		250	428030	05/07/17 10:42	SW1	TAL NSH
Total/NA	Analysis	8260C SIM		1	434882	05/04/17 11:18	KLB	TAL EDI

Client Sample ID: MW-4D

Date Collected: 04/25/17 14:15

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	428030	05/07/17 06:38	SW1	TAL NSH
Total/NA	Analysis	8260C SIM		1	434882	05/04/17 11:42	KLB	TAL EDI

Client Sample ID: MW-5

Date Collected: 04/25/17 11:05

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	428030	05/07/17 07:05	SW1	TAL NSH

TestAmerica Buffalo

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: MW-5

Date Collected: 04/25/17 11:05

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	434882	05/04/17 12:05	KLB	TAL EDI

Client Sample ID: MW-5D

Date Collected: 04/25/17 10:00

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	428030	05/07/17 07:32	SW1	TAL NSH
Total/NA	Analysis	8260C SIM		1	434882	05/04/17 12:29	KLB	TAL EDI

Client Sample ID: MW-6

Date Collected: 04/24/17 12:05

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	428030	05/07/17 07:59	SW1	TAL NSH
Total/NA	Analysis	8260C SIM		1	434882	05/04/17 12:52	KLB	TAL EDI

Client Sample ID: MW-7

Date Collected: 04/25/17 17:25

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	428030	05/07/17 08:26	SW1	TAL NSH
Total/NA	Analysis	8260C SIM		1	434882	05/04/17 13:15	KLB	TAL EDI

Client Sample ID: MW-8

Date Collected: 04/26/17 10:05

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	428030	05/07/17 08:53	SW1	TAL NSH
Total/NA	Analysis	8260C SIM		1	434882	05/04/17 13:39	KLB	TAL EDI

Client Sample ID: MW-9R

Date Collected: 04/27/17 09:45

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		25	428592	05/09/17 15:32	NC	TAL NSH
Total/NA	Analysis	8260C SIM		1	434882	05/04/17 14:02	KLB	TAL EDI

TestAmerica Buffalo

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: MW-10

Date Collected: 04/24/17 15:50

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	428030	05/07/17 09:20	SW1	TAL NSH
Total/NA	Analysis	8260C SIM		1	434882	05/04/17 14:26	KLB	TAL EDI

Client Sample ID: MW-11R

Date Collected: 04/24/17 13:55

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	428030	05/07/17 11:09	SW1	TAL NSH
Total/NA	Analysis	8260C		100	428184	05/08/17 14:28	AK1	TAL NSH
Total/NA	Analysis	8260C SIM		1	434882	05/04/17 14:49	KLB	TAL EDI

Client Sample ID: MW-12

Date Collected: 04/25/17 15:55

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		25	428030	05/07/17 11:36	SW1	TAL NSH
Total/NA	Analysis	8260C SIM		1	434882	05/04/17 15:12	KLB	TAL EDI

Client Sample ID: MW-13

Date Collected: 04/26/17 14:45

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		200	428030	05/07/17 12:03	SW1	TAL NSH
Total/NA	Analysis	8260C SIM		1	434882	05/04/17 15:36	KLB	TAL EDI

Client Sample ID: MW-14

Date Collected: 04/26/17 16:30

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	428184	05/08/17 14:54	AK1	TAL NSH
Total/NA	Analysis	8260C SIM		1	434882	05/04/17 15:59	KLB	TAL EDI

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Client Sample ID: DUP-042517

Date Collected: 04/25/17 00:00

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	428030	05/07/17 12:57	SW1	TAL NSH
Total/NA	Analysis	8260C		500	428184	05/08/17 15:20	AK1	TAL NSH
Total/NA	Analysis	8260C SIM		1	434882	05/04/17 16:22	KLB	TAL EDI

Client Sample ID: TRIP BLANK

Date Collected: 04/25/17 00:00

Date Received: 04/27/17 15:25

Lab Sample ID: 480-117063-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	428030	05/07/17 05:44	SW1	TAL NSH

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Accreditation/Certification Summary

Client: New York State D.E.C.
Project/Site: Frewsburg Site #907016

TestAmerica Job ID: 480-117063-1

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

Laboratory: TestAmerica Edison

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11452	04-01-18

Laboratory: TestAmerica Nashville

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11342	03-31-18

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 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 #
MW-1	480-117063-1	96	100	94	104
MW-2	480-117063-2	103	103	100	115
MW-3	480-117063-3	98	101	95	103
MW-4	480-117063-4	97	103	93	102
MW-4D	480-117063-5	95	98	91	105
MW-5	480-117063-6	98	101	93	103
MW-5D	480-117063-7	97	101	94	101
MW-6	480-117063-8	95	98	93	103
MW-7	480-117063-9	97	99	94	102
MW-8	480-117063-10	97	102	92	100
MW-9R	480-117063-11	97	100	90	103
MW-10	480-117063-12	100	102	94	100
MW-11R	480-117063-13	99	103	91	103
MW-11R	480-117063-13	100	104	97	113
MW-12	480-117063-14	96	100	96	104
MW-13	480-117063-15	98	101	96	102
MW-14	480-117063-16	104	103	97	111
DUP-042517	480-117063-17	97	102	94	103
DUP-042517	480-117063-17	101	105	98	111
TRIP BLANK	480-117063-18	96	100	94	105
	MB 490-428030/7	97	99	95	102
	MB 490-428184/7	102	103	99	115
	MB 490-428592/7	97	101	92	101
	LCS 490-428030/3	95	105	93	100
	LCS 490-428184/3	99	102	97	100
	LCS 490-428592/3	102	107	90	101
	LCSD 490-428030/4	97	105	93	104
	LCSD 490-428184/4	99	103	97	96
	LCSD 490-428592/4	100	108	89	96
MW-1 MS	480-117063-1 MS	97	109	92	100
MW-14 MS	480-117063-16 MS	99	101	98	98
MW-1 MSD	480-117063-1 MSD	97	108	92	101
MW-14 MSD	480-117063-16 MSD	98	101	98	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 III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 05061734.D
 Lab ID: LCS 490-428030/3 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	20.2	101	78-135	
1,1,2,2-Tetrachloroethane	20.0	19.7	99	69-131	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.1	96	77-129	
1,1,2-Trichloroethane	20.0	18.0	90	80-124	
1,1-Dichloroethane	20.0	18.4	92	78-125	
1,1-Dichloroethene	20.0	19.5	98	79-124	
1,2,4-Trichlorobenzene	20.0	19.0	95	63-133	
1,2-Dibromo-3-Chloropropane	20.0	20.0	100	54-125	
1,2-Dichlorobenzene	20.0	19.6	98	80-121	
1,2-Dichloroethane	20.0	20.4	102	77-121	
1,2-Dichloropropane	20.0	17.7	88	75-120	
1,3-Dichlorobenzene	20.0	19.4	97	80-122	
1,4-Dichlorobenzene	20.0	19.3	97	80-120	
2-Butanone (MEK)	100	86.7	87	62-133	
2-Hexanone	100	85.1	85	60-142	
4-Methyl-2-pentanone (MIBK)	100	81.4	81	60-137	
Acetone	100	74.8	75	54-145	
Benzene	20.0	18.6	93	80-121	
Bromoform	20.0	21.4	107	46-145	
Bromomethane	20.0	25.6	128	41-150	
Carbon disulfide	20.0	18.3	92	77-126	
Carbon tetrachloride	20.0	21.2	106	64-147	
Chlorobenzene	20.0	19.5	97	80-120	
Dibromochloromethane	20.0	21.2	106	69-133	
Chloroethane	20.0	19.0	95	72-120	
Chloroform	20.0	19.5	97	73-129	
Chloromethane	20.0	16.0	80	12-150	
cis-1,2-Dichloroethene	20.0	19.2	96	76-125	
Cyclohexane	20.0	17.5	87	73-122	
Bromodichloromethane	20.0	22.2	111	75-129	
Dichlorodifluoromethane	20.0	16.8	84	37-127	
Ethylbenzene	20.0	19.6	98	80-130	
1,2-Dibromoethane	20.0	19.6	98	80-129	
Isopropylbenzene	20.0	20.6	103	80-141	
Methyl acetate	40.0	32.3	81	64-150	
Methyl tert-butyl ether	20.0	19.0	95	72-133	
Methylcyclohexane	20.0	18.5	93	71-129	
Methylene Chloride	20.0	17.0	85	79-123	
Tetrachloroethene	20.0	20.0	100	80-126	
Toluene	20.0	18.0	90	80-126	
trans-1,2-Dichloroethene	20.0	18.3	91	79-126	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: 05061734.D
Lab ID: LCS 490-428030/3 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	17.4	87	63-134	
Trichloroethene	20.0	18.9	95	80-123	
Trichlorofluoromethane	20.0	24.1	120	65-124	
Vinyl chloride	20.0	18.8	94	68-120	
cis-1,3-Dichloropropene	20.0	17.3	86	74-140	
Styrene	20.0	19.4	97	80-127	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 05081703.D
 Lab ID: LCS 490-428184/3 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	26.4	132	78-135	
1,1,2,2-Tetrachloroethane	20.0	22.4	112	69-131	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	25.2	126	77-129	
1,1,2-Trichloroethane	20.0	22.5	112	80-124	
1,1-Dichloroethane	20.0	21.8	109	78-125	
1,1-Dichloroethene	20.0	21.9	109	79-124	
1,2,4-Trichlorobenzene	20.0	19.8	99	63-133	
1,2-Dibromo-3-Chloropropane	20.0	19.3	97	54-125	
1,2-Dichlorobenzene	20.0	24.0	120	80-121	
1,2-Dichloroethane	20.0	22.7	114	77-121	
1,2-Dichloropropane	20.0	21.6	108	75-120	
1,3-Dichlorobenzene	20.0	24.3	121	80-122	
1,4-Dichlorobenzene	20.0	24.1	121	80-120	*
2-Butanone (MEK)	100	93.9	94	62-133	
2-Hexanone	100	90.9	91	60-142	
4-Methyl-2-pentanone (MIBK)	100	95.8	96	60-137	
Acetone	100	104	104	54-145	
Benzene	20.0	22.9	115	80-121	
Bromoform	20.0	22.0	110	46-145	
Bromomethane	20.0	25.4	127	41-150	
Carbon disulfide	20.0	23.8	119	77-126	
Carbon tetrachloride	20.0	26.4	132	64-147	
Chlorobenzene	20.0	23.4	117	80-120	
Dibromochloromethane	20.0	22.8	114	69-133	
Chloroethane	20.0	20.4	102	72-120	
Chloroform	20.0	23.7	119	73-129	
Chloromethane	20.0	22.2	111	12-150	
cis-1,2-Dichloroethene	20.0	23.3	116	76-125	
Cyclohexane	20.0	23.7	119	73-122	
Bromodichloromethane	20.0	24.2	121	75-129	
Dichlorodifluoromethane	20.0	21.9	109	37-127	
Ethylbenzene	20.0	24.0	120	80-130	
1,2-Dibromoethane	20.0	22.2	111	80-129	
Isopropylbenzene	20.0	24.4	122	80-141	
Methyl acetate	40.0	35.7	89	64-150	
Methyl tert-butyl ether	20.0	21.9	109	72-133	
Methylcyclohexane	20.0	24.6	123	71-129	
Methylene Chloride	20.0	22.9	115	79-123	
Tetrachloroethene	20.0	24.7	124	80-126	
Toluene	20.0	23.0	115	80-126	
trans-1,2-Dichloroethene	20.0	23.1	116	79-126	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 05081703.D
 Lab ID: LCS 490-428184/3 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	22.6	113	63-134	
Trichloroethene	20.0	23.5	118	80-123	
Trichlorofluoromethane	20.0	26.6	133	65-124	*
Vinyl chloride	20.0	21.2	106	68-120	
cis-1,3-Dichloropropene	20.0	23.8	119	74-140	
Styrene	20.0	25.0	125	80-127	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 05091703.D
 Lab ID: LCS 490-428592/3 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	21.2	106	78-135	
1,1,2,2-Tetrachloroethane	20.0	20.8	104	69-131	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.1	105	77-129	
1,1,2-Trichloroethane	20.0	17.9	89	80-124	
1,1-Dichloroethane	20.0	18.8	94	78-125	
1,1-Dichloroethene	20.0	20.5	102	79-124	
1,2,4-Trichlorobenzene	20.0	21.5	107	63-133	
1,2-Dibromo-3-Chloropropane	20.0	24.1	121	54-125	
1,2-Dichlorobenzene	20.0	20.4	102	80-121	
1,2-Dichloroethane	20.0	20.3	102	77-121	
1,2-Dichloropropane	20.0	17.6	88	75-120	
1,3-Dichlorobenzene	20.0	20.6	103	80-122	
1,4-Dichlorobenzene	20.0	20.8	104	80-120	
2-Butanone (MEK)	100	95.0	95	62-133	
2-Hexanone	100	94.9	95	60-142	
4-Methyl-2-pentanone (MIBK)	100	83.9	84	60-137	
Acetone	100	81.6	82	54-145	
Benzene	20.0	18.9	94	80-121	
Bromoform	20.0	23.2	116	46-145	
Bromomethane	20.0	18.7	93	41-150	
Carbon disulfide	20.0	18.8	94	77-126	
Carbon tetrachloride	20.0	22.1	111	64-147	
Chlorobenzene	20.0	19.9	99	80-120	
Dibromochloromethane	20.0	21.8	109	69-133	
Chloroethane	20.0	18.8	94	72-120	
Chloroform	20.0	20.4	102	73-129	
Chloromethane	20.0	13.6	68	12-150	
cis-1,2-Dichloroethene	20.0	19.9	100	76-125	
Cyclohexane	20.0	18.2	91	73-122	
Bromodichloromethane	20.0	22.2	111	75-129	
Dichlorodifluoromethane	20.0	29.1	146	37-127	*
Ethylbenzene	20.0	19.5	98	80-130	
1,2-Dibromoethane	20.0	20.0	100	80-129	
Isopropylbenzene	20.0	20.8	104	80-141	
Methyl acetate	40.0	35.9	90	64-150	
Methyl tert-butyl ether	20.0	19.9	100	72-133	
Methylcyclohexane	20.0	19.1	96	71-129	
Methylene Chloride	20.0	17.4	87	79-123	
Tetrachloroethene	20.0	18.8	94	80-126	
Toluene	20.0	17.2	86	80-126	
trans-1,2-Dichloroethene	20.0	18.8	94	79-126	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: 05091703.D
Lab ID: LCS 490-428592/3 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	18.1	90	63-134	
Trichloroethene	20.0	19.7	98	80-123	
Trichlorofluoromethane	20.0	25.1	125	65-124	*
Vinyl chloride	20.0	18.9	94	68-120	
cis-1,3-Dichloropropene	20.0	17.5	87	74-140	
Styrene	20.0	19.8	99	80-127	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 05061735.D
 Lab ID: LCSD 490-428030/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	20.0	22.5	113	11	15	78-135	
1,1,2,2-Tetrachloroethane	20.0	21.7	109	10	15	69-131	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.1	106	10	16	77-129	
1,1,2-Trichloroethane	20.0	19.4	97	7	13	80-124	
1,1-Dichloroethane	20.0	19.9	99	8	17	78-125	
1,1-Dichloroethene	20.0	21.1	106	8	20	79-124	
1,2,4-Trichlorobenzene	20.0	21.6	108	13	15	63-133	
1,2-Dibromo-3-Chloropropane	20.0	22.7	114	13	19	54-125	
1,2-Dichlorobenzene	20.0	21.7	108	10	12	80-121	
1,2-Dichloroethane	20.0	21.1	105	3	13	77-121	
1,2-Dichloropropane	20.0	18.8	94	6	15	75-120	
1,3-Dichlorobenzene	20.0	21.7	109	12	13	80-122	
1,4-Dichlorobenzene	20.0	21.8	109	12	12	80-120	
2-Butanone (MEK)	100	93.7	94	8	19	62-133	
2-Hexanone	100	93.6	94	10	17	60-142	
4-Methyl-2-pentanone (MIBK)	100	85.7	86	5	21	60-137	
Acetone	100	79.1	79	6	23	54-145	
Benzene	20.0	20.1	100	8	12	80-121	
Bromoform	20.0	23.0	115	7	14	46-145	
Bromomethane	20.0	19.1	95	29	19	41-150	*
Carbon disulfide	20.0	19.8	99	8	16	77-126	
Carbon tetrachloride	20.0	23.2	116	9	16	64-147	
Chlorobenzene	20.0	21.1	106	8	12	80-120	
Dibromochloromethane	20.0	22.8	114	7	13	69-133	
Chloroethane	20.0	17.8	89	6	15	72-120	
Chloroform	20.0	21.0	105	8	14	73-129	
Chloromethane	20.0	13.9	70	14	20	12-150	
cis-1,2-Dichloroethene	20.0	20.6	103	7	15	76-125	
Cyclohexane	20.0	19.6	98	11	16	73-122	
Bromodichloromethane	20.0	22.8	114	3	14	75-129	
Dichlorodifluoromethane	20.0	28.0	140	50	16	37-127	*
Ethylbenzene	20.0	21.6	108	9	12	80-130	
1,2-Dibromoethane	20.0	20.9	104	6	13	80-129	
Isopropylbenzene	20.0	22.9	114	10	13	80-141	
Methyl acetate	40.0	34.0	85	5	18	64-150	
Methyl tert-butyl ether	20.0	20.2	101	6	16	72-133	
Methylcyclohexane	20.0	20.5	102	10	17	71-129	
Methylene Chloride	20.0	17.9	90	5	15	79-123	
Tetrachloroethene	20.0	22.3	111	11	17	80-126	
Toluene	20.0	18.9	94	5	13	80-126	
trans-1,2-Dichloroethene	20.0	19.9	99	9	15	79-126	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 05061735.D
 Lab ID: LCSD 490-428030/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
trans-1,3-Dichloropropene	20.0	19.3	96	10	13	63-134	
Trichloroethene	20.0	20.6	103	8	14	80-123	
Trichlorofluoromethane	20.0	23.5	118	2	22	65-124	
Vinyl chloride	20.0	17.9	89	5	15	68-120	
cis-1,3-Dichloropropene	20.0	18.4	92	7	15	74-140	
Styrene	20.0	21.9	110	12	12	80-127	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 05081704.D
 Lab ID: LCSD 490-428184/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	20.0	24.6	123	7	15	78-135	
1,1,2,2-Tetrachloroethane	20.0	22.2	111	1	15	69-131	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	22.6	113	11	16	77-129	
1,1,2-Trichloroethane	20.0	21.8	109	3	13	80-124	
1,1-Dichloroethane	20.0	21.0	105	4	17	78-125	
1,1-Dichloroethene	20.0	21.4	107	2	20	79-124	
1,2,4-Trichlorobenzene	20.0	19.5	98	2	15	63-133	
1,2-Dibromo-3-Chloropropane	20.0	19.6	98	1	19	54-125	
1,2-Dichlorobenzene	20.0	23.4	117	3	12	80-121	
1,2-Dichloroethane	20.0	22.0	110	3	13	77-121	
1,2-Dichloropropane	20.0	20.9	104	4	15	75-120	
1,3-Dichlorobenzene	20.0	23.7	119	2	13	80-122	
1,4-Dichlorobenzene	20.0	23.0	115	5	12	80-120	
2-Butanone (MEK)	100	101	101	7	19	62-133	
2-Hexanone	100	95.2	95	5	17	60-142	
4-Methyl-2-pentanone (MIBK)	100	95.9	96	0	21	60-137	
Acetone	100	104	104	0	23	54-145	
Benzene	20.0	22.2	111	4	12	80-121	
Bromoform	20.0	21.6	108	2	14	46-145	
Bromomethane	20.0	23.2	116	9	19	41-150	
Carbon disulfide	20.0	22.1	110	8	16	77-126	
Carbon tetrachloride	20.0	24.9	125	6	16	64-147	
Chlorobenzene	20.0	22.5	113	4	12	80-120	
Dibromochloromethane	20.0	22.3	111	3	13	69-133	
Chloroethane	20.0	19.2	96	6	15	72-120	
Chloroform	20.0	22.5	112	5	14	73-129	
Chloromethane	20.0	20.0	100	10	20	12-150	
cis-1,2-Dichloroethene	20.0	22.1	110	5	15	76-125	
Cyclohexane	20.0	22.0	110	8	16	73-122	
Bromodichloromethane	20.0	23.2	116	4	14	75-129	
Dichlorodifluoromethane	20.0	20.8	104	5	16	37-127	
Ethylbenzene	20.0	22.6	113	6	12	80-130	
1,2-Dibromoethane	20.0	22.1	110	1	13	80-129	
Isopropylbenzene	20.0	23.1	115	6	13	80-141	
Methyl acetate	40.0	35.2	88	1	18	64-150	
Methyl tert-butyl ether	20.0	21.2	106	3	16	72-133	
Methylcyclohexane	20.0	23.2	116	6	17	71-129	
Methylene Chloride	20.0	22.1	111	4	15	79-123	
Tetrachloroethene	20.0	22.7	114	8	17	80-126	
Toluene	20.0	22.1	111	4	13	80-126	
trans-1,2-Dichloroethene	20.0	21.4	107	8	15	79-126	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 05081704.D
 Lab ID: LCSD 490-428184/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
trans-1,3-Dichloropropene	20.0	22.0	110	3	13	63-134	
Trichloroethene	20.0	22.3	111	6	14	80-123	
Trichlorofluoromethane	20.0	24.9	124	7	22	65-124	
Vinyl chloride	20.0	19.4	97	9	15	68-120	
cis-1,3-Dichloropropene	20.0	23.0	115	3	15	74-140	
Styrene	20.0	23.6	118	6	12	80-127	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 05091704.D
 Lab ID: LCSD 490-428592/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	20.0	21.2	106	0	15	78-135	
1,1,2,2-Tetrachloroethane	20.0	20.4	102	2	15	69-131	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.6	103	3	16	77-129	
1,1,2-Trichloroethane	20.0	18.7	93	4	13	80-124	
1,1-Dichloroethane	20.0	18.6	93	1	17	78-125	
1,1-Dichloroethene	20.0	19.5	97	5	20	79-124	
1,2,4-Trichlorobenzene	20.0	20.8	104	3	15	63-133	
1,2-Dibromo-3-Chloropropane	20.0	23.8	119	1	19	54-125	
1,2-Dichlorobenzene	20.0	19.8	99	3	12	80-121	
1,2-Dichloroethane	20.0	21.0	105	3	13	77-121	
1,2-Dichloropropane	20.0	18.1	90	2	15	75-120	
1,3-Dichlorobenzene	20.0	19.7	99	4	13	80-122	
1,4-Dichlorobenzene	20.0	19.5	97	7	12	80-120	
2-Butanone (MEK)	100	98.6	99	4	19	62-133	
2-Hexanone	100	95.3	95	0	17	60-142	
4-Methyl-2-pentanone (MIBK)	100	87.7	88	5	21	60-137	
Acetone	100	85.3	85	4	23	54-145	
Benzene	20.0	18.9	95	0	12	80-121	
Bromoform	20.0	22.8	114	2	14	46-145	
Bromomethane	20.0	19.9	99	6	19	41-150	
Carbon disulfide	20.0	18.6	93	1	16	77-126	
Carbon tetrachloride	20.0	22.3	111	1	16	64-147	
Chlorobenzene	20.0	19.6	98	2	12	80-120	
Dibromochloromethane	20.0	21.5	108	1	13	69-133	
Chloroethane	20.0	18.5	92	2	15	72-120	
Chloroform	20.0	19.8	99	3	14	73-129	
Chloromethane	20.0	12.3	61	10	20	12-150	
cis-1,2-Dichloroethene	20.0	19.5	98	2	15	76-125	
Cyclohexane	20.0	18.5	92	2	16	73-122	
Bromodichloromethane	20.0	22.6	113	2	14	75-129	
Dichlorodifluoromethane	20.0	26.0	130	12	16	37-127	*
Ethylbenzene	20.0	19.6	98	1	12	80-130	
1,2-Dibromoethane	20.0	20.0	100	0	13	80-129	
Isopropylbenzene	20.0	20.2	101	3	13	80-141	
Methyl acetate	40.0	34.9	87	3	18	64-150	
Methyl tert-butyl ether	20.0	20.2	101	1	16	72-133	
Methylcyclohexane	20.0	19.1	95	0	17	71-129	
Methylene Chloride	20.0	17.2	86	1	15	79-123	
Tetrachloroethene	20.0	20.0	100	6	17	80-126	
Toluene	20.0	16.7	84	3	13	80-126	
trans-1,2-Dichloroethene	20.0	18.6	93	1	15	79-126	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 05091704.D
 Lab ID: LCSD 490-428592/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
trans-1,3-Dichloropropene	20.0	18.2	91	0	13	63-134	
Trichloroethene	20.0	19.8	99	1	14	80-123	
Trichlorofluoromethane	20.0	24.1	120	4	22	65-124	
Vinyl chloride	20.0	18.2	91	4	15	68-120	
cis-1,3-Dichloropropene	20.0	17.5	88	0	15	74-140	
Styrene	20.0	19.5	98	1	12	80-127	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 05061757.D
 Lab ID: 480-117063-1 MS Client ID: MW-1 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	ND	22.2	111	68-144	
1,1,2,2-Tetrachloroethane	20.0	ND	20.9	105	56-145	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	ND	20.1	100	63-150	
1,1,2-Trichloroethane	20.0	ND	18.4	92	70-130	
1,1-Dichloroethane	20.0	ND	19.1	96	61-139	
1,1-Dichloroethene	20.0	ND	20.0	100	54-150	
1,2,4-Trichlorobenzene	20.0	ND	17.3	86	47-147	
1,2-Dibromo-3-Chloropropane	20.0	ND	21.1	105	38-138	
1,2-Dichlorobenzene	20.0	ND	20.5	102	70-130	
1,2-Dichloroethane	20.0	ND	20.9	105	64-136	
1,2-Dichloropropane	20.0	ND	18.6	93	67-130	
1,3-Dichlorobenzene	20.0	ND	20.0	100	68-131	
1,4-Dichlorobenzene	20.0	ND	20.7	103	70-130	
2-Butanone (MEK)	100	ND	97.4	97	50-143	
2-Hexanone	100	ND	96.0	96	44-150	
4-Methyl-2-pentanone (MIBK)	100	ND	89.3	89	50-140	
Acetone	100	3.3 J	89.7	86	39-150	
Benzene	20.0	ND	19.6	98	55-147	
Bromoform	20.0	ND	21.7	108	53-150	
Bromomethane	20.0	ND	23.4	117	30-150	
Carbon disulfide	20.0	ND	18.7	94	35-150	
Carbon tetrachloride	20.0	ND	23.0	115	56-150	
Chlorobenzene	20.0	ND	20.0	100	70-130	
Dibromochloromethane	20.0	ND	21.4	107	66-140	
Chloroethane	20.0	ND	19.6	98	58-141	
Chloroform	20.0	ND	20.0	100	66-138	
Chloromethane	20.0	ND	14.3	71	10-150	
cis-1,2-Dichloroethene	20.0	ND	19.5	98	68-131	
Cyclohexane	20.0	ND	19.0	95	48-150	
Bromodichloromethane	20.0	ND	22.5	112	70-140	
Dichlorodifluoromethane	20.0	ND	15.5	77	10-150	
Ethylbenzene	20.0	ND	20.1	101	65-139	
1,2-Dibromoethane	20.0	ND	20.2	101	65-137	
Isopropylbenzene	20.0	ND	20.8	104	70-137	
Methyl acetate	40.0	ND	29.4	73	42-136	
Methyl tert-butyl ether	20.0	ND	19.3	97	55-141	
Methylcyclohexane	20.0	ND	19.9	99	59-150	
Methylene Chloride	20.0	ND	16.6	83	64-130	
Tetrachloroethene	20.0	ND	19.9	99	57-138	
Toluene	20.0	ND	17.9	90	64-136	
trans-1,2-Dichloroethene	20.0	ND	19.2	96	59-143	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: 05061757.D
Lab ID: 480-117063-1 MS Client ID: MW-1 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	ND	17.5	88	63-142	
Trichloroethene	20.0	ND	20.6	103	63-135	
Trichlorofluoromethane	20.0	ND	24.5	123	44-150	
Vinyl chloride	20.0	ND	18.6	93	57-150	
cis-1,3-Dichloropropene	20.0	ND	16.8	84	70-133	
Styrene	20.0	ND	19.4	97	70-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 05081725.D
 Lab ID: 480-117063-16 MS Client ID: MW-14 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	1000	ND	1240	124	68-144	
1,1,2,2-Tetrachloroethane	1000	ND	984	98	56-145	
1,1,2-Trichloro-1,2,2-trifluoroethane	1000	ND	1220	122	63-150	
1,1,2-Trichloroethane	1000	ND	1070	107	70-130	
1,1-Dichloroethane	1000	ND	1060	106	61-139	
1,1-Dichloroethene	1000	ND	1140	114	54-150	
1,2,4-Trichlorobenzene	1000	ND	868	87	47-147	
1,2-Dibromo-3-Chloropropane	1000	ND	852	85	38-138	
1,2-Dichlorobenzene	1000	ND	1130	113	70-130	
1,2-Dichloroethane	1000	ND	1060	106	64-136	
1,2-Dichloropropane	1000	ND	1030	103	67-130	
1,3-Dichlorobenzene	1000	ND	1170	117	68-131	
1,4-Dichlorobenzene	1000	ND	1120	112	70-130	
2-Butanone (MEK)	5000	ND	4800	96	50-143	
2-Hexanone	5000	ND	4140	83	44-150	
4-Methyl-2-pentanone (MIBK)	5000	ND	4390	88	50-140	
Acetone	5000	ND	4250	85	39-150	
Benzene	1000	ND	1130	113	55-147	
Bromoform	1000	ND	1050	105	53-150	
Bromomethane	1000	ND	1150	115	30-150	
Carbon disulfide	1000	ND	1120	112	35-150	
Carbon tetrachloride	1000	ND	1240	124	56-150	
Chlorobenzene	1000	ND	1120	112	70-130	
Dibromochloromethane	1000	ND	1060	106	66-140	
Chloroethane	1000	ND	974	97	58-141	
Chloroform	1000	ND	1160	116	66-138	
Chloromethane	1000	ND	1010	101	10-150	
cis-1,2-Dichloroethene	1000	1900	2950	105	68-131	
Cyclohexane	1000	ND	1160	116	48-150	
Bromodichloromethane	1000	ND	1120	112	70-140	
Dichlorodifluoromethane	1000	ND	1050	105	10-150	
Ethylbenzene	1000	ND	1140	114	65-139	
1,2-Dibromoethane	1000	ND	1050	105	65-137	
Isopropylbenzene	1000	ND	1200	120	70-137	
Methyl acetate	2000	ND	1670	84	42-136	
Methyl tert-butyl ether	1000	ND	997	100	55-141	
Methylcyclohexane	1000	ND	1180	118	59-150	
Methylene Chloride	1000	ND	1110	111	64-130	
Tetrachloroethene	1000	ND	1200	120	57-138	
Toluene	1000	ND	1110	111	64-136	
trans-1,2-Dichloroethene	1000	18 J	1080	106	59-143	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 05081725.D
 Lab ID: 480-117063-16 MS Client ID: MW-14 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	1000	ND	1040	104	63-142	
Trichloroethene	1000	8400	8710	28	63-135	4
Trichlorofluoromethane	1000	ND	1310	131	44-150	
Vinyl chloride	1000	ND	1060	106	57-150	
cis-1,3-Dichloropropene	1000	ND	1100	110	70-133	
Styrene	1000	ND	1260	126	70-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 05061758.D
 Lab ID: 480-117063-1 MSD Client ID: MW-1 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	20.0	21.9	110	1	17	68-144	
1,1,2,2-Tetrachloroethane	20.0	21.0	105	0	20	56-145	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.3	102	1	18	63-150	
1,1,2-Trichloroethane	20.0	18.4	92	0	15	70-130	
1,1-Dichloroethane	20.0	19.2	96	0	17	61-139	
1,1-Dichloroethene	20.0	20.4	102	2	17	54-150	
1,2,4-Trichlorobenzene	20.0	19.0	95	10	19	47-147	
1,2-Dibromo-3-Chloropropane	20.0	23.2	116	9	24	38-138	
1,2-Dichlorobenzene	20.0	20.3	102	1	15	70-130	
1,2-Dichloroethane	20.0	21.1	105	1	17	64-136	
1,2-Dichloropropane	20.0	18.3	91	2	17	67-130	
1,3-Dichlorobenzene	20.0	20.2	101	1	15	68-131	
1,4-Dichlorobenzene	20.0	20.1	100	3	15	70-130	
2-Butanone (MEK)	100	96.2	96	1	19	50-143	
2-Hexanone	100	95.3	95	1	15	44-150	
4-Methyl-2-pentanone (MIBK)	100	89.4	89	0	17	50-140	
Acetone	100	88.1	85	2	21	39-150	
Benzene	20.0	19.3	96	1	17	55-147	
Bromoform	20.0	21.9	109	1	16	53-150	
Bromomethane	20.0	25.1	126	7	50	30-150	
Carbon disulfide	20.0	19.3	97	3	21	35-150	
Carbon tetrachloride	20.0	23.2	116	1	19	56-150	
Chlorobenzene	20.0	20.0	100	0	14	70-130	
Dibromochloromethane	20.0	21.6	108	1	15	66-140	
Chloroethane	20.0	19.5	98	1	20	58-141	
Chloroform	20.0	20.0	100	0	18	66-138	
Chloromethane	20.0	15.8	79	10	31	10-150	
cis-1,2-Dichloroethene	20.0	19.6	98	0	17	68-131	
Cyclohexane	20.0	19.0	95	0	16	48-150	
Bromodichloromethane	20.0	22.3	112	1	18	70-140	
Dichlorodifluoromethane	20.0	15.2	76	2	18	10-150	
Ethylbenzene	20.0	20.1	101	0	15	65-139	
1,2-Dibromoethane	20.0	20.2	101	0	15	65-137	
Isopropylbenzene	20.0	20.9	105	1	16	70-137	
Methyl acetate	40.0	30.2	76	3	31	42-136	
Methyl tert-butyl ether	20.0	19.3	97	0	16	55-141	
Methylcyclohexane	20.0	19.5	97	2	19	59-150	
Methylene Chloride	20.0	16.6	83	0	17	64-130	
Tetrachloroethene	20.0	20.2	101	2	16	57-138	
Toluene	20.0	18.2	91	1	15	64-136	
trans-1,2-Dichloroethene	20.0	19.1	96	1	16	59-143	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 05061758.D
 Lab ID: 480-117063-1 MSD Client ID: MW-1 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
trans-1,3-Dichloropropene	20.0	17.2	86	2	14	63-142	
Trichloroethene	20.0	20.3	101	1	17	63-135	
Trichlorofluoromethane	20.0	24.7	124	1	18	44-150	
Vinyl chloride	20.0	19.0	95	2	17	57-150	
cis-1,3-Dichloropropene	20.0	17.2	86	3	15	70-133	
Styrene	20.0	19.7	98	2	24	70-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 05081726.D
 Lab ID: 480-117063-16 MSD Client ID: MW-14 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	1000	1300	130	4	17	68-144	
1,1,2,2-Tetrachloroethane	1000	1030	103	5	20	56-145	
1,1,2-Trichloro-1,2,2-trifluoroethane	1000	1230	123	1	18	63-150	
1,1,2-Trichloroethane	1000	1070	107	0	15	70-130	
1,1-Dichloroethane	1000	1100	110	3	17	61-139	
1,1-Dichloroethene	1000	1110	111	3	17	54-150	
1,2,4-Trichlorobenzene	1000	913	91	5	19	47-147	
1,2-Dibromo-3-Chloropropane	1000	912	91	7	24	38-138	
1,2-Dichlorobenzene	1000	1160	116	2	15	70-130	
1,2-Dichloroethane	1000	1090	109	2	17	64-136	
1,2-Dichloropropane	1000	1080	108	6	17	67-130	
1,3-Dichlorobenzene	1000	1180	118	1	15	68-131	
1,4-Dichlorobenzene	1000	1160	116	3	15	70-130	
2-Butanone (MEK)	5000	4840	97	1	19	50-143	
2-Hexanone	5000	4310	86	4	15	44-150	
4-Methyl-2-pentanone (MIBK)	5000	4520	90	3	17	50-140	
Acetone	5000	4760	95	11	21	39-150	
Benzene	1000	1160	116	2	17	55-147	
Bromoform	1000	1070	107	2	16	53-150	
Bromomethane	1000	1250	125	8	50	30-150	
Carbon disulfide	1000	1170	117	4	21	35-150	
Carbon tetrachloride	1000	1280	128	3	19	56-150	
Chlorobenzene	1000	1130	113	1	14	70-130	
Dibromochloromethane	1000	1090	109	3	15	66-140	
Chloroethane	1000	1000	100	3	20	58-141	
Chloroform	1000	1200	120	4	18	66-138	
Chloromethane	1000	1060	106	5	31	10-150	
cis-1,2-Dichloroethene	1000	3020	112	2	17	68-131	
Cyclohexane	1000	1220	122	5	16	48-150	
Bromodichloromethane	1000	1160	116	4	18	70-140	
Dichlorodifluoromethane	1000	1060	106	1	18	10-150	
Ethylbenzene	1000	1170	117	2	15	65-139	
1,2-Dibromoethane	1000	1100	110	4	15	65-137	
Isopropylbenzene	1000	1210	121	1	16	70-137	
Methyl acetate	2000	1770	89	6	31	42-136	
Methyl tert-butyl ether	1000	1050	105	5	16	55-141	
Methylcyclohexane	1000	1240	124	4	19	59-150	
Methylene Chloride	1000	1140	114	3	17	64-130	
Tetrachloroethene	1000	1200	120	0	16	57-138	
Toluene	1000	1140	114	3	15	64-136	
trans-1,2-Dichloroethene	1000	1150	113	6	16	59-143	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 05081726.D
 Lab ID: 480-117063-16 MSD Client ID: MW-14 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
trans-1,3-Dichloropropene	1000	1080	108	4	14	63-142	
Trichloroethene	1000	8870	44	2	17	63-135	4
Trichlorofluoromethane	1000	1290	129	1	18	44-150	
Vinyl chloride	1000	1080	108	2	17	57-150	
cis-1,3-Dichloropropene	1000	1140	114	4	15	70-133	
Styrene	1000	1260	126	0	24	70-130	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Lab File ID: 05061738.D Lab Sample ID: MB 490-428030/7
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP33 Date Analyzed: 05/07/2017 04:50
 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 490-428030/3	05061734.D	05/07/2017 03:02
	LCSD 490-428030/4	05061735.D	05/07/2017 03:29
TRIP BLANK	480-117063-18	05061740.D	05/07/2017 05:44
MW-1	480-117063-1	05061741.D	05/07/2017 06:11
MW-4D	480-117063-5	05061742.D	05/07/2017 06:38
MW-5	480-117063-6	05061743.D	05/07/2017 07:05
MW-5D	480-117063-7	05061744.D	05/07/2017 07:32
MW-6	480-117063-8	05061745.D	05/07/2017 07:59
MW-7	480-117063-9	05061746.D	05/07/2017 08:26
MW-8	480-117063-10	05061747.D	05/07/2017 08:53
MW-10	480-117063-12	05061748.D	05/07/2017 09:20
MW-3	480-117063-3	05061750.D	05/07/2017 10:15
MW-4	480-117063-4	05061751.D	05/07/2017 10:42
MW-11R	480-117063-13	05061752.D	05/07/2017 11:09
MW-12	480-117063-14	05061753.D	05/07/2017 11:36
MW-13	480-117063-15	05061754.D	05/07/2017 12:03
DUP-042517	480-117063-17	05061756.D	05/07/2017 12:57
MW-1 MS	480-117063-1 MS	05061757.D	05/07/2017 13:24
MW-1 MSD	480-117063-1 MSD	05061758.D	05/07/2017 13:51

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
SDG No.: _____
Lab File ID: 05081707.D Lab Sample ID: MB 490-428184/7
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP39 Date Analyzed: 05/08/2017 13:10
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 490-428184/3	05081703.D	05/08/2017 11:26
	LCSD 490-428184/4	05081704.D	05/08/2017 11:52
MW-2	480-117063-2	05081709.D	05/08/2017 14:02
MW-11R	480-117063-13	05081710.D	05/08/2017 14:28
MW-14	480-117063-16	05081711.D	05/08/2017 14:54
DUP-042517	480-117063-17	05081712.D	05/08/2017 15:20
MW-14 MS	480-117063-16 MS	05081725.D	05/08/2017 20:58
MW-14 MSD	480-117063-16 MSD	05081726.D	05/08/2017 21:23

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
SDG No.: _____
Lab File ID: 05091707.D Lab Sample ID: MB 490-428592/7
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP33 Date Analyzed: 05/09/2017 12:48
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 490-428592/3	05091703.D	05/09/2017 10:59
	LCSD 490-428592/4	05091704.D	05/09/2017 11:27
MW-9R	480-117063-11	05091713.D	05/09/2017 15:32

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

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Lab File ID: 11081607.D BFB Injection Date: 11/08/2016
 Instrument ID: HP33 BFB Injection Time: 22:54
 Analysis Batch No.: 385231

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	18.4
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	6.7
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	93.5
175	5.0 - 9.0 % of mass 174	6.5 (7.0) 1
176	95.0 - 101.0 % of mass 174	90.2 (96.5) 1
177	5.0 - 9.0 % of mass 176	6.0 (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
	STD0005 490-385231/2	11081608.D	11/08/2016	23:21
	STD001 490-385231/3	11081609.D	11/08/2016	23:48
	STD002 490-385231/4	11081610.D	11/09/2016	00:15
	STD005 490-385231/5	11081611.D	11/09/2016	00:41
	STD010 490-385231/6	11081612.D	11/09/2016	01:08
	ICIS 490-385231/7	11081613.D	11/09/2016	01:35
	STD050 490-385231/8	11081614.D	11/09/2016	02:02
	STD100 490-385231/9	11081615.D	11/09/2016	02:29
	STD200 490-385231/10	11081616.D	11/09/2016	02:55
	ICV 490-385231/13	11081619.D	11/09/2016	04:16

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

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
SDG No.: _____
Lab File ID: 05061732.D BFB Injection Date: 05/07/2017
Instrument ID: HP33 BFB Injection Time: 02:08
Analysis Batch No.: 428030

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	19.7
75	30.0 - 60.0 % of mass 95	52.4
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	0.2 (0.2) 1
174	50.0 - 120.00 % of mass 95	92.9
175	5.0 - 9.0 % of mass 174	6.7 (7.2) 1
176	95.0 - 101.0 % of mass 174	91.9 (98.9) 1
177	5.0 - 9.0 % of mass 176	5.7 (6.2) 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 490-428030/2	05061733.D	05/07/2017	02:35
	LCS 490-428030/3	05061734.D	05/07/2017	03:02
	LCSD 490-428030/4	05061735.D	05/07/2017	03:29
	MB 490-428030/7	05061738.D	05/07/2017	04:50
TRIP BLANK	480-117063-18	05061740.D	05/07/2017	05:44
MW-1	480-117063-1	05061741.D	05/07/2017	06:11
MW-4D	480-117063-5	05061742.D	05/07/2017	06:38
MW-5	480-117063-6	05061743.D	05/07/2017	07:05
MW-5D	480-117063-7	05061744.D	05/07/2017	07:32
MW-6	480-117063-8	05061745.D	05/07/2017	07:59
MW-7	480-117063-9	05061746.D	05/07/2017	08:26
MW-8	480-117063-10	05061747.D	05/07/2017	08:53
MW-10	480-117063-12	05061748.D	05/07/2017	09:20
MW-3	480-117063-3	05061750.D	05/07/2017	10:15
MW-4	480-117063-4	05061751.D	05/07/2017	10:42
MW-11R	480-117063-13	05061752.D	05/07/2017	11:09
MW-12	480-117063-14	05061753.D	05/07/2017	11:36
MW-13	480-117063-15	05061754.D	05/07/2017	12:03
DUP-042517	480-117063-17	05061756.D	05/07/2017	12:57
MW-1 MS	480-117063-1 MS	05061757.D	05/07/2017	13:24
MW-1 MSD	480-117063-1 MSD	05061758.D	05/07/2017	13:51

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

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Lab File ID: 05091701.D BFB Injection Date: 05/09/2017
 Instrument ID: HP33 BFB Injection Time: 10:04
 Analysis Batch No.: 428592

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	20.0
75	30.0 - 60.0 % of mass 95	51.4
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	0.8 (0.8) 1
174	50.0 - 120.00 % of mass 95	98.0
175	5.0 - 9.0 % of mass 174	7.1 (7.3) 1
176	95.0 - 101.0 % of mass 174	94.4 (96.3) 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 490-428592/2	05091702.D	05/09/2017	10:32
	LCS 490-428592/3	05091703.D	05/09/2017	10:59
	LCSD 490-428592/4	05091704.D	05/09/2017	11:27
	MB 490-428592/7	05091707.D	05/09/2017	12:48
MW-9R	480-117063-11	05091713.D	05/09/2017	15:32

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

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Lab File ID: 03161704.D BFB Injection Date: 03/16/2017
 Instrument ID: HP39 BFB Injection Time: 17:11
 Analysis Batch No.: 415044

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	16.3
75	30.0 - 60.0 % of mass 95	46.3
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	99.7
175	5.0 - 9.0 % of mass 174	7.4 (7.5) 1
176	95.0 - 101.0 % of mass 174	96.7 (97.0) 1
177	5.0 - 9.0 % of mass 176	6.5 (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 490-415044/5	03161705.D	03/16/2017	17:49
	STD 490-415044/6	03161706.D	03/16/2017	18:15
	STD 490-415044/7	03161707.D	03/16/2017	18:41
	STD 490-415044/8	03161708.D	03/16/2017	19:07
	STD 490-415044/9	03161709.D	03/16/2017	19:33
	STD 490-415044/10	03161710.D	03/16/2017	19:59
	ICIS 490-415044/11	03161711.D	03/16/2017	20:25
	STD 490-415044/12	03161712.D	03/16/2017	20:51
	STD 490-415044/13	03161713.D	03/16/2017	21:17
	STD 490-415044/14	03161714.D	03/16/2017	21:43
	ICV 490-415044/17	03161717.D	03/16/2017	23:01

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

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Lab File ID: 05081701.D BFB Injection Date: 05/08/2017
 Instrument ID: HP39 BFB Injection Time: 10:34
 Analysis Batch No.: 428184

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	15.6
75	30.0 - 60.0 % of mass 95	48.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.2
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	96.4
175	5.0 - 9.0 % of mass 174	7.5 (7.7) 1
176	95.0 - 101.0 % of mass 174	94.1 (97.6) 1
177	5.0 - 9.0 % of mass 176	6.5 (6.9) 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 490-428184/2	05081702.D	05/08/2017	11:00
	LCS 490-428184/3	05081703.D	05/08/2017	11:26
	LCSD 490-428184/4	05081704.D	05/08/2017	11:52
	MB 490-428184/7	05081707.D	05/08/2017	13:10
MW-2	480-117063-2	05081709.D	05/08/2017	14:02
MW-11R	480-117063-13	05081710.D	05/08/2017	14:28
MW-14	480-117063-16	05081711.D	05/08/2017	14:54
DUP-042517	480-117063-17	05081712.D	05/08/2017	15:20
MW-14 MS	480-117063-16 MS	05081725.D	05/08/2017	20:58
MW-14 MSD	480-117063-16 MSD	05081726.D	05/08/2017	21:23

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

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Sample No.: ICIS 490-385231/7 Date Analyzed: 11/09/2016 01:35
 Instrument ID: HP33 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): 11081613.D Heated Purge: (Y/N) N
 Calibration ID: 61912

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	784892	3.62	589353	5.94	290608	8.10	
UPPER LIMIT	1569784	4.12	1178706	6.44	581216	8.60	
LOWER LIMIT	392446	3.12	294677	5.44	145304	7.60	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 490-385231/13		831069	3.62	630326	5.93	302405	8.10
CCVIS 490-428030/2		676526	3.64	531917	5.94	238250	8.10
CCVIS 490-428592/2		891089	3.62	740567	5.93	349546	8.09

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Sample No.: CCVIS 490-428030/2 Date Analyzed: 05/07/2017 02:35
 Instrument ID: HP33 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): 05061733.D Heated Purge: (Y/N) N
 Calibration ID: 61912

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		676526	3.64	531917	5.94	238250	8.10
UPPER LIMIT		1353052	4.14	1063834	6.44	476500	8.60
LOWER LIMIT		338263	3.14	265959	5.44	119125	7.60
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 490-428030/3		689873	3.64	544220	5.94	248623	8.10
LCSD 490-428030/4		684730	3.62	537349	5.93	245309	8.10
MB 490-428030/7		663450	3.63	508709	5.94	215658	8.10
480-117063-18	TRIP BLANK	686944	3.63	527551	5.94	218789	8.10
480-117063-1	MW-1	654133	3.63	520047	5.94	214474	8.10
480-117063-5	MW-4D	676203	3.62	529516	5.93	214093	8.10
480-117063-6	MW-5	689444	3.62	539208	5.93	223766	8.10
480-117063-7	MW-5D	688358	3.62	533232	5.94	227135	8.10
480-117063-8	MW-6	688810	3.62	538319	5.94	219393	8.10
480-117063-9	MW-7	660693	3.62	519723	5.94	216955	8.10
480-117063-10	MW-8	656241	3.62	520153	5.94	221026	8.10
480-117063-12	MW-10	662701	3.62	512071	5.93	217302	8.10
480-117063-3	MW-3	650350	3.62	496985	5.93	204671	8.10
480-117063-4	MW-4	670977	3.62	529493	5.94	227511	8.10
480-117063-13	MW-11R	656358	3.62	532716	5.93	214764	8.09
480-117063-14	MW-12	643914	3.63	474992	5.94	196688	8.10
480-117063-15	MW-13	619355	3.62	468698	5.93	201329	8.09
480-117063-17	DUP-042517	615724	3.62	478322	5.93	192334	8.10
480-117063-1 MS	MW-1 MS	624802	3.62	505554	5.94	231653	8.10
480-117063-1 MSD	MW-1 MSD	637483	3.62	501346	5.94	226150	8.10

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4
 DCBd4 = 1,4-Dichlorobenzene-d4
 Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Sample No.: CCVIS 490-428592/2 Date Analyzed: 05/09/2017 10:32
 Instrument ID: HP33 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): 05091702.D Heated Purge: (Y/N) N
 Calibration ID: 61912

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	891089	3.62	740567	5.93	349546	8.09	
UPPER LIMIT	1782178	4.12	1481134	6.43	699092	8.59	
LOWER LIMIT	445545	3.12	370284	5.43	174773	7.59	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 490-428592/3		894197	3.62	720277	5.93	331251	8.09
LCSD 490-428592/4		933925	3.62	761802	5.93	360125	8.10
MB 490-428592/7		885048	3.62	724240	5.93	305249	8.10
480-117063-11	MW-9R	858224	3.62	694826	5.94	285755	8.10

FB = Fluorobenzene (IS)
 FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 CBNZd5 = Chlorobenzene-d5
 Area Limit = 50%-200% of internal standard area
 DCBd4 = 1,4-Dichlorobenzene-d4
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Sample No.: ICIS 490-415044/11 Date Analyzed: 03/16/2017 20:25
 Instrument ID: HP39 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): 03161711.D Heated Purge: (Y/N) N
 Calibration ID: 65271

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	1040717	4.38	822538	6.81	498340	8.97	
UPPER LIMIT	2081434	4.88	1645076	7.31	996680	9.47	
LOWER LIMIT	520359	3.88	411269	6.31	249170	8.47	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 490-415044/17		1021484	4.40	810008	6.82	461180	8.98
CCVIS 490-428184/2		1118071	4.35	910530	6.77	547334	8.93

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Sample No.: CCVIS 490-428184/2 Date Analyzed: 05/08/2017 11:00
 Instrument ID: HP39 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): 05081702.D Heated Purge: (Y/N) N
 Calibration ID: 65271

		FB		CBNZd5		DCBd4		
		AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD		1118071	4.35	910530	6.77	547334	8.93	
UPPER LIMIT		2236142	4.85	1821060	7.27	1094668	9.43	
LOWER LIMIT		559036	3.85	455265	6.27	273667	8.43	
LAB SAMPLE ID		CLIENT SAMPLE ID						
LCS 490-428184/3			1113915	4.35	902892	6.77	540176	8.93
LCSD 490-428184/4			1130636	4.36	904825	6.77	533621	8.93
MB 490-428184/7			1041857	4.37	836415	6.78	409065	8.95
480-117063-2	MW-2		1051613	4.37	836175	6.79	411759	8.95
480-117063-13	MW-11R		1058406	4.37	844321	6.79	411859	8.95
480-117063-16	MW-14		1037074	4.38	851173	6.79	416469	8.96
480-117063-17	DUP-042517		1047044	4.38	838440	6.79	415283	8.96
480-117063-16 MS	MW-14 MS		1089216	4.40	872133	6.81	521712	8.98
480-117063-16 MSD	MW-14 MSD		1082296	4.40	872365	6.81	506339	8.97

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4
 Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Nashville</u>	Job No.: <u>480-117063-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-1</u>	Lab Sample ID: <u>480-117063-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>05061741.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/26/2017 08:45</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>05/07/2017 06:11</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>428030</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.19
75-34-3	1,1-Dichloroethane	ND		1.0	0.24
75-35-4	1,1-Dichloroethene	ND		1.0	0.25
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	0.94
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.19
107-06-2	1,2-Dichloroethane	ND		1.0	0.20
78-87-5	1,2-Dichloropropane	ND		1.0	0.25
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.18
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.17
78-93-3	2-Butanone (MEK)	ND		50	2.6
591-78-6	2-Hexanone	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.81
67-64-1	Acetone	3.3	J	25	2.7
71-43-2	Benzene	ND		1.0	0.20
75-25-2	Bromoform	ND		1.0	0.29
74-83-9	Bromomethane	ND	*	1.0	0.35
75-15-0	Carbon disulfide	ND		1.0	0.22
56-23-5	Carbon tetrachloride	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.25
75-00-3	Chloroethane	ND		1.0	0.36
67-66-3	Chloroform	ND		1.0	0.23
74-87-3	Chloromethane	ND		1.0	0.36
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.21
110-82-7	Cyclohexane	ND		5.0	0.13
75-27-4	Bromodichloromethane	ND		1.0	0.17
75-71-8	Dichlorodifluoromethane	ND	*	1.0	0.17
100-41-4	Ethylbenzene	ND		1.0	0.19
106-93-4	1,2-Dibromoethane	ND		1.0	0.21
98-82-8	Isopropylbenzene	ND		1.0	0.33
79-20-9	Methyl acetate	ND		10	0.58

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Client Sample ID: MW-1 Lab Sample ID: 480-117063-1
 Matrix: Water Lab File ID: 05061741.D
 Analysis Method: 8260C Date Collected: 04/26/2017 08:45
 Sample wt/vol: 5 (mL) Date Analyzed: 05/07/2017 06:11
 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.: 428030 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.17
108-87-2	Methylcyclohexane	ND		5.0	0.090
75-09-2	Methylene Chloride	ND		5.0	1.0
127-18-4	Tetrachloroethene	ND		1.0	0.14
108-88-3	Toluene	ND		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.17
79-01-6	Trichloroethene	ND		1.0	0.20
75-69-4	Trichlorofluoromethane	ND		1.0	0.21
75-01-4	Vinyl chloride	ND		1.0	0.18
1330-20-7	Xylenes, Total	ND		3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.17
100-42-5	Styrene	ND		1.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
460-00-4	4-Bromofluorobenzene (Surr)	104		70-130
2037-26-5	Toluene-d8 (Surr)	94		70-130
1868-53-7	Dibromofluoromethane (Surr)	96		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\05061741.D
 Lims ID: 480-117063-A-1
 Client ID: MW-1
 Sample Type: Client
 Inject. Date: 07-May-2017 06:11:30 ALS Bottle#: 51 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-117063-A-1
 Misc. Info.: 490-0090567-010
 Operator ID: JJR Instrument ID: HP33
 Method: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 08-May-2017 10:06:22 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: wanguns

Date: 08-May-2017 10:06:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.629	3.635	-0.006	98	654133	30.0	
* 2 Chlorobenzene-d5	117	5.935	5.941	-0.006	86	520047	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.101	8.100	0.001	95	214474	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.203	3.203	0.000	97	157746	28.8	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.429	3.434	-0.005	0	182873	30.0	
\$ 7 Toluene-d8 (Surr)	98	4.737	4.736	0.000	99	646054	28.1	
\$ 8 4-Bromofluorobenzene (Surr	95	7.006	7.005	0.001	95	210504	31.3	
25 Acetone	58	1.999	2.005	-0.006	79	1573	3.32	
32 Acetonitrile	41	2.066	2.139	-0.073	26	618	NC	
125 2-Methylnaphthalene	142	11.739	11.720	0.019	82	5795	3.20	
126 1-Methylnaphthalene	142	11.903	11.896	0.007	93	7477	5.66	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VOA_ISSS150_W_00015

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061741.D

Injection Date: 07-May-2017 06:11:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: 480-117063-A-1

Lab Sample ID: 490-117063-1

Worklist Smp#: 10

Client ID: MW-1

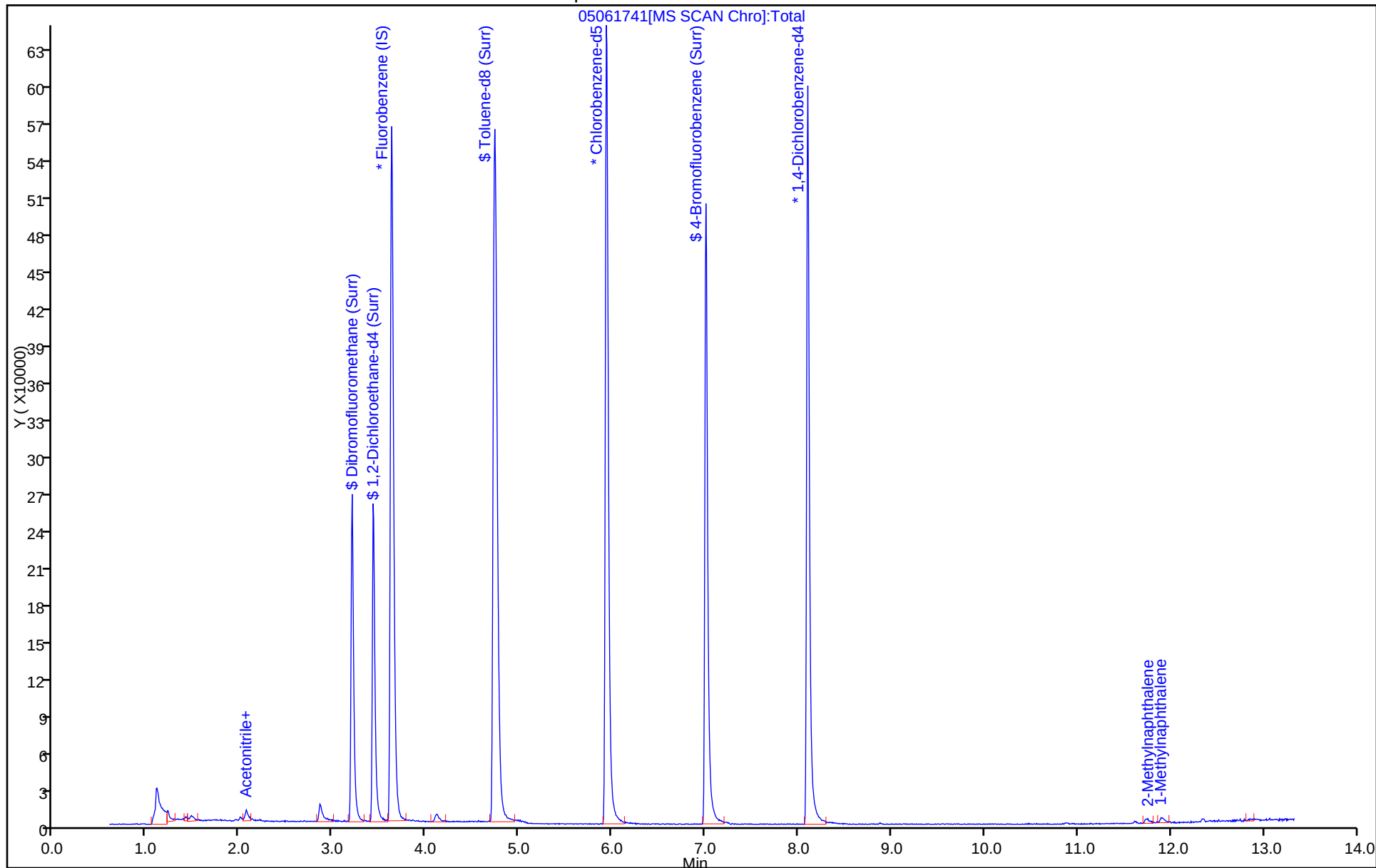
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 51

Method: 8260HP33

Limit Group: MSV 8260C ICAL



TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061741.D

Injection Date: 07-May-2017 06:11:30

Instrument ID: HP33

Lims ID: 480-117063-A-1

Lab Sample ID: 490-117063-1

Client ID: MW-1

Operator ID: JJR

ALS Bottle#: 51

Worklist Smp#: 10

Purge Vol: 5.000 mL

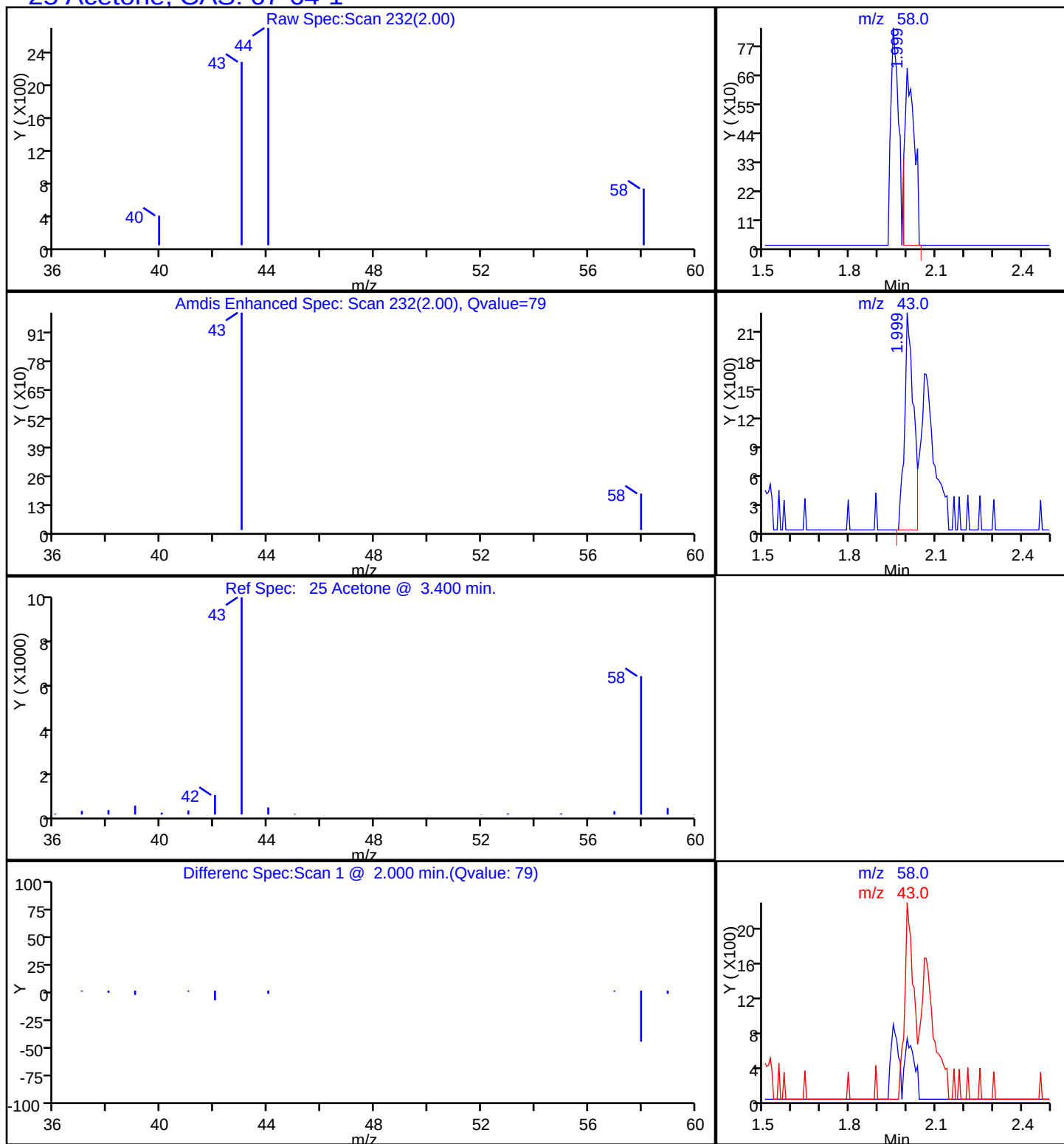
Dil. Factor: 1.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector MS SCAN

25 Acetone, CAS: 67-64-1

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Nashville</u>	Job No.: <u>480-117063-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-2</u>	Lab Sample ID: <u>480-117063-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>05081709.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/24/2017 17:10</u>
Sample wt/vol: <u>10 (mL)</u>	Date Analyzed: <u>05/08/2017 14:02</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>500</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>428184</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		500	95
79-34-5	1,1,2,2-Tetrachloroethane	ND		500	95
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		500	75
79-00-5	1,1,2-Trichloroethane	ND		500	95
75-34-3	1,1-Dichloroethane	ND		500	120
75-35-4	1,1-Dichloroethene	220	J	500	130
120-82-1	1,2,4-Trichlorobenzene	ND		500	100
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5000	470
95-50-1	1,2-Dichlorobenzene	ND		500	95
107-06-2	1,2-Dichloroethane	ND		500	100
78-87-5	1,2-Dichloropropane	ND		500	130
541-73-1	1,3-Dichlorobenzene	ND		500	90
106-46-7	1,4-Dichlorobenzene	ND	*	500	85
78-93-3	2-Butanone (MEK)	ND		25000	1300
591-78-6	2-Hexanone	ND		5000	640
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5000	410
67-64-1	Acetone	ND		13000	1300
71-43-2	Benzene	ND		500	100
75-25-2	Bromoform	ND		500	150
74-83-9	Bromomethane	ND		500	180
75-15-0	Carbon disulfide	ND		500	110
56-23-5	Carbon tetrachloride	ND		500	90
108-90-7	Chlorobenzene	ND		500	90
124-48-1	Dibromochloromethane	ND		500	130
75-00-3	Chloroethane	ND		500	180
67-66-3	Chloroform	ND		500	120
74-87-3	Chloromethane	ND		500	180
156-59-2	cis-1,2-Dichloroethene	76000		500	110
110-82-7	Cyclohexane	ND		2500	65
75-27-4	Bromodichloromethane	ND		500	85
75-71-8	Dichlorodifluoromethane	ND		500	85
100-41-4	Ethylbenzene	ND		500	95
106-93-4	1,2-Dibromoethane	ND		500	110
98-82-8	Isopropylbenzene	ND		500	170
79-20-9	Methyl acetate	ND		5000	290

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Client Sample ID: MW-2 Lab Sample ID: 480-117063-2
 Matrix: Water Lab File ID: 05081709.D
 Analysis Method: 8260C Date Collected: 04/24/2017 17:10
 Sample wt/vol: 10 (mL) Date Analyzed: 05/08/2017 14:02
 Soil Aliquot Vol: _____ Dilution Factor: 500
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 428184 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		500	85
108-87-2	Methylcyclohexane	ND		2500	45
75-09-2	Methylene Chloride	ND		2500	500
127-18-4	Tetrachloroethene	ND		500	70
108-88-3	Toluene	ND		500	85
156-60-5	trans-1,2-Dichloroethene	660		500	120
10061-02-6	trans-1,3-Dichloropropene	ND		500	85
79-01-6	Trichloroethene	ND		500	100
75-69-4	Trichlorofluoromethane	ND	*	500	110
75-01-4	Vinyl chloride	34000		500	90
1330-20-7	Xylenes, Total	ND		1500	290
10061-01-5	cis-1,3-Dichloropropene	ND		500	85
100-42-5	Styrene	ND		500	140

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-130
460-00-4	4-Bromofluorobenzene (Surr)	115		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130
1868-53-7	Dibromofluoromethane (Surr)	103		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP39\20170508-90599.b\05081709.D
 Lims ID: 480-117063-B-2
 Client ID: MW-2
 Sample Type: Client
 Inject. Date: 08-May-2017 14:02:30 ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 10.000 mL Dil. Factor: 500.0000
 Sample Info: 480-117063-B-2
 Misc. Info.: 490-0090599-009
 Operator ID: MJH HP-39 Instrument ID: HP39
 Method: \\ChromNA\Nashville\ChromData\HP39\20170508-90599.b\8260HP39.m
 Limit Group: MSV 8260C ICAL
 Method Label: 8260B Volatile Organics 8260/SA/NV05-90
 Last Update: 09-May-2017 12:51:58 Calib Date: 16-Mar-2017 21:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161714.D

Column 1 : Det: MS SCAN

Process Host: XAWRK030

First Level Reviewer: khanphomeea

Date: 09-May-2017 11:01:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.371	4.353	0.018	99	1051613	25.0	
* 2 Chlorobenzene-d5	117	6.787	6.768	0.019	83	836175	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.952	8.934	0.018	93	411759	25.0	
\$ 4 Dibromofluoromethane (Surr	111	3.927	3.909	0.018	94	255180	25.7	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.171	4.152	0.019	99	230846	25.9	
\$ 6 Toluene-d8 (Surr)	98	5.546	5.527	0.019	92	1027188	24.9	
\$ 7 4-Bromofluorobenzene (Surr	95	7.851	7.833	0.018	96	378688	28.9	
12 Vinyl chloride	62	1.652	1.646	0.006	98	931448	68.4	
22 1,1-Dichloroethene	96	2.449	2.443	0.006	94	4981	0.4345	
34 trans-1,2-Dichloroethene	61	2.948	2.917	0.031	90	20177	1.32	
42 cis-1,2-Dichloroethene	96	3.599	3.587	0.013	76	2116395	151.2	

Reagents:

VOA_ISSS_50_W_00040

Amount Added: 5.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP39\\20170508-90599.b\\05081709.D

Injection Date: 08-May-2017 14:02:30

Instrument ID: HP39

Operator ID: MJH HP-39

Lims ID: 480-117063-B-2

Lab Sample ID: 490-117063-2

Worklist Smp#: 9

Client ID: MW-2

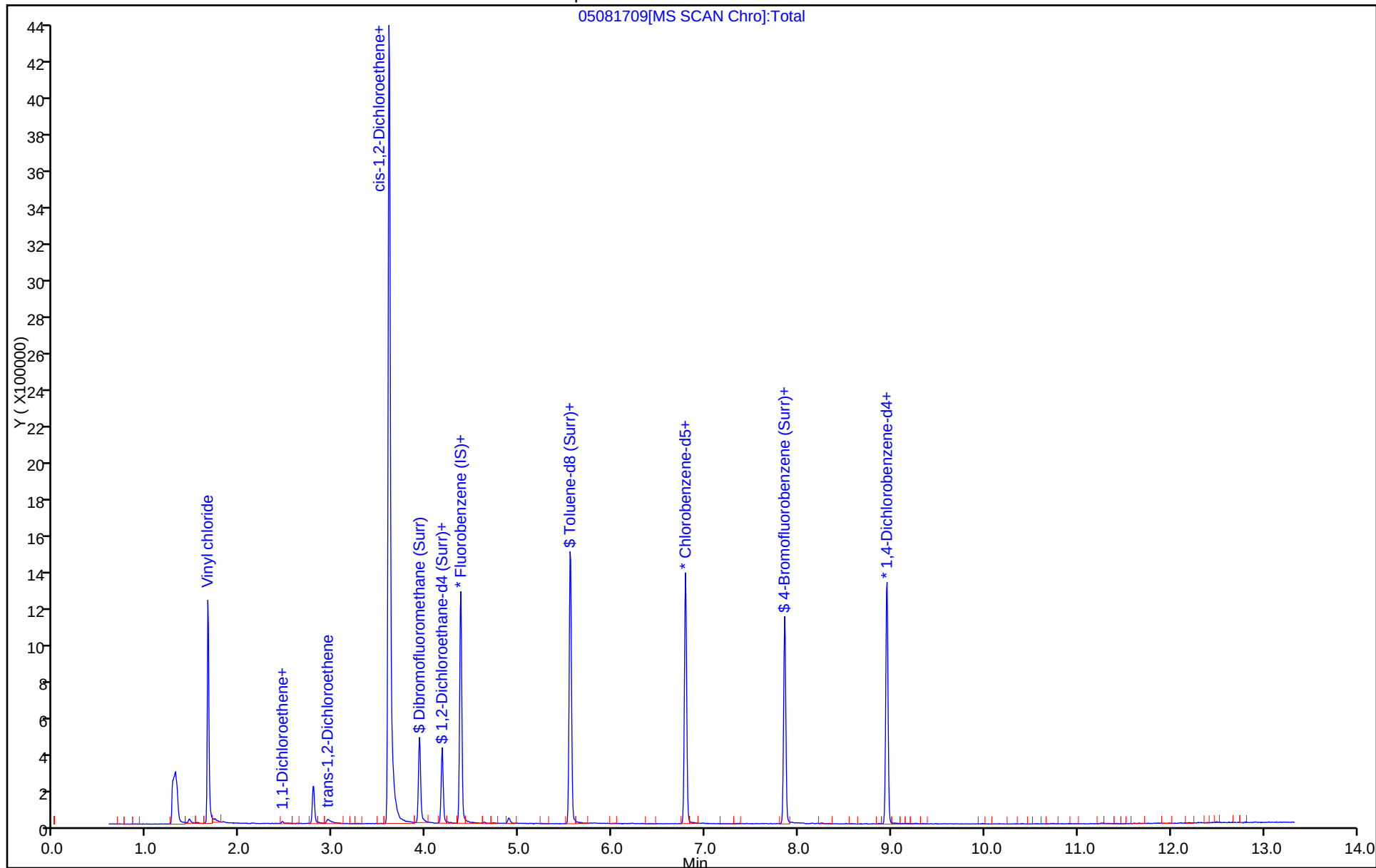
Purge Vol: 10.000 mL

Dil. Factor: 500.0000

ALS Bottle#: 9

Method: 8260HP39

Limit Group: MSV 8260C ICAL



TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP39\\20170508-90599.b\\05081709.D

Injection Date: 08-May-2017 14:02:30

Instrument ID: HP39

Lims ID: 480-117063-B-2

Lab Sample ID: 490-117063-2

Client ID: MW-2

Operator ID: MJH HP-39

ALS Bottle#: 9

Worklist Smp#: 9

Purge Vol: 10.000 mL

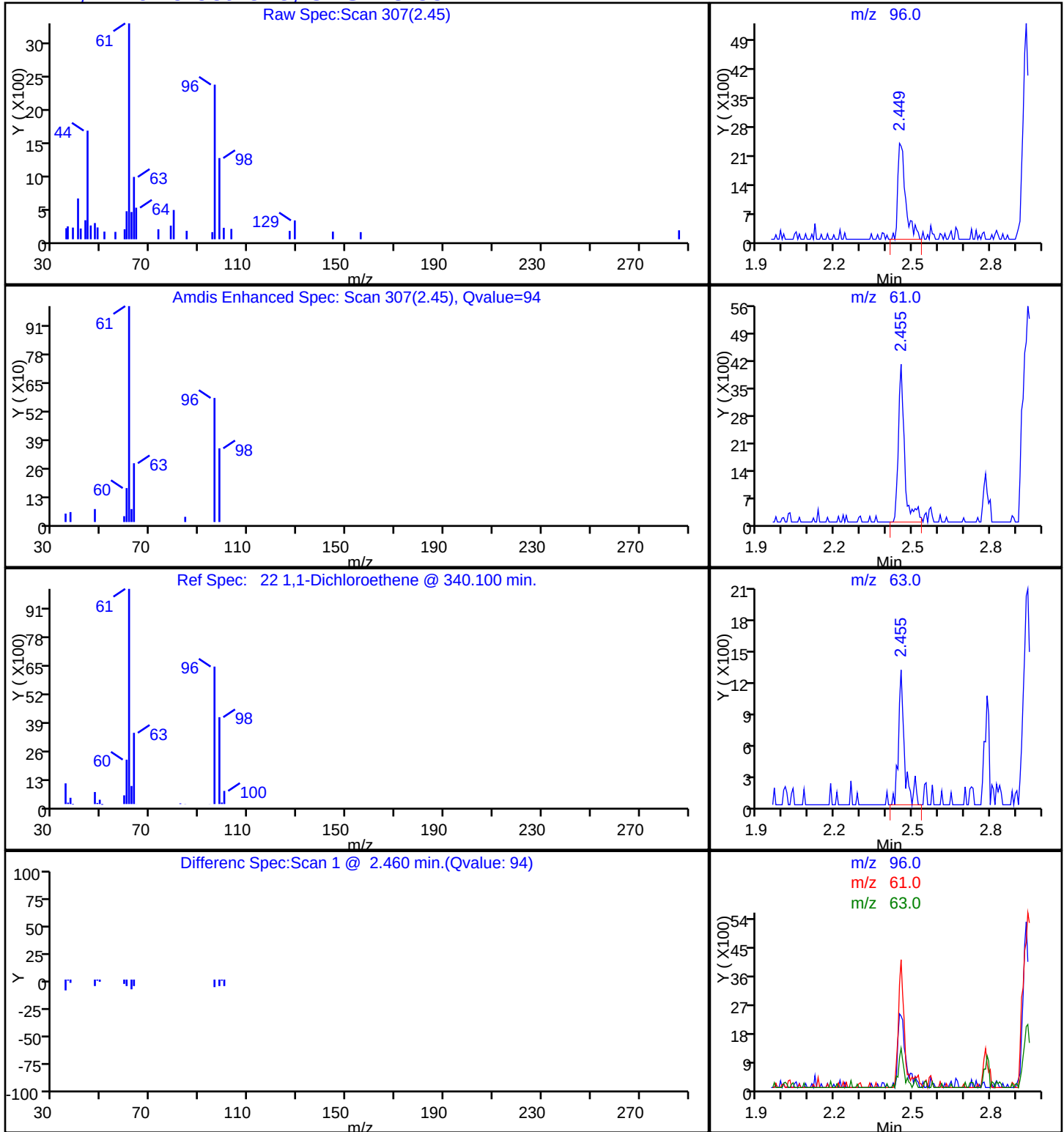
Dil. Factor: 500.0000

Method: 8260HP39

Limit Group: MSV 8260C ICAL

Column:

Detector MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP39\\20170508-90599.b\\05081709.D

Injection Date: 08-May-2017 14:02:30

Instrument ID: HP39

Lims ID: 480-117063-B-2

Lab Sample ID: 490-117063-2

Client ID: MW-2

Operator ID: MJH HP-39

ALS Bottle#: 9

Worklist Smp#: 9

Purge Vol: 10.000 mL

Dil. Factor: 500.0000

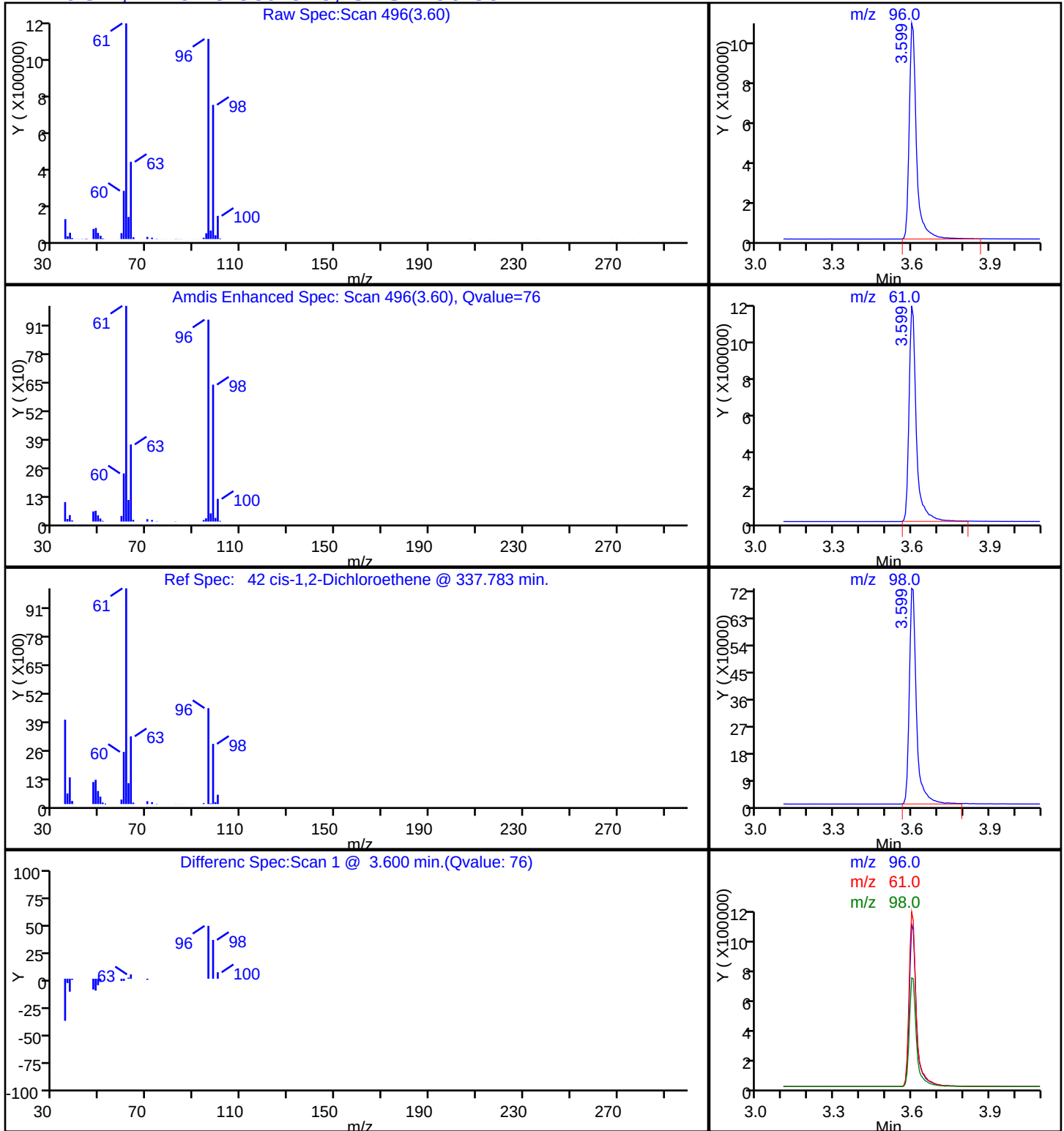
Method: 8260HP39

Limit Group: MSV 8260C ICAL

Column:

Detector

MS SCAN

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

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP39\\20170508-90599.b\\05081709.D

Injection Date: 08-May-2017 14:02:30

Instrument ID: HP39

Lims ID: 480-117063-B-2

Lab Sample ID: 490-117063-2

Client ID: MW-2

Operator ID: MJH HP-39

ALS Bottle#: 9

Worklist Smp#: 9

Purge Vol: 10.000 mL

Dil. Factor: 500.0000

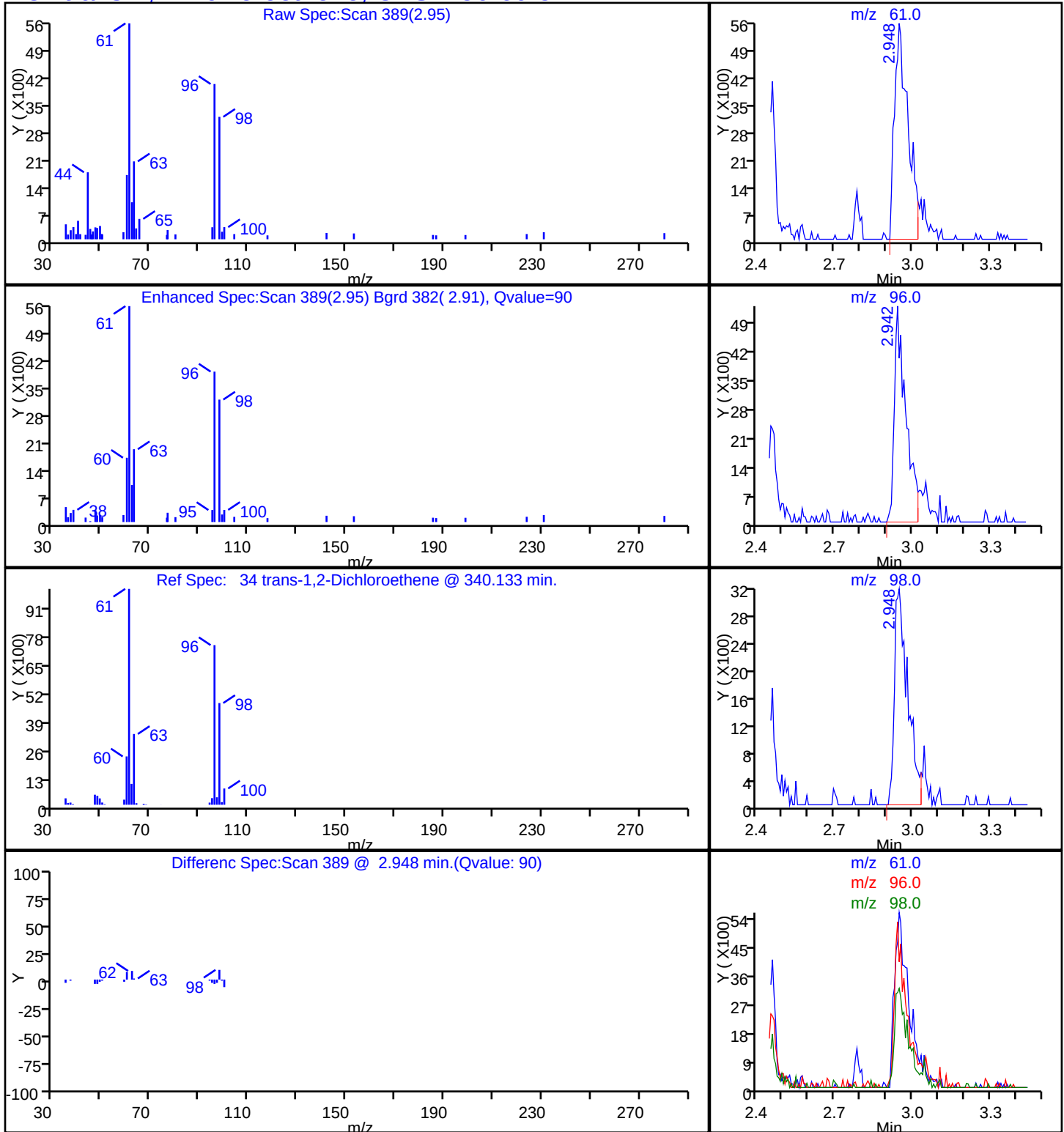
Method: 8260HP39

Limit Group: MSV 8260C ICAL

Column:

Detector

MS SCAN

34 trans-1,2-Dichloroethene, CAS: 156-60-5

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP39\\20170508-90599.b\\05081709.D

Injection Date: 08-May-2017 14:02:30

Instrument ID: HP39

Lims ID: 480-117063-B-2

Lab Sample ID: 490-117063-2

Client ID: MW-2

Operator ID: MJH HP-39

ALS Bottle#: 9

Worklist Smp#: 9

Purge Vol: 10.000 mL

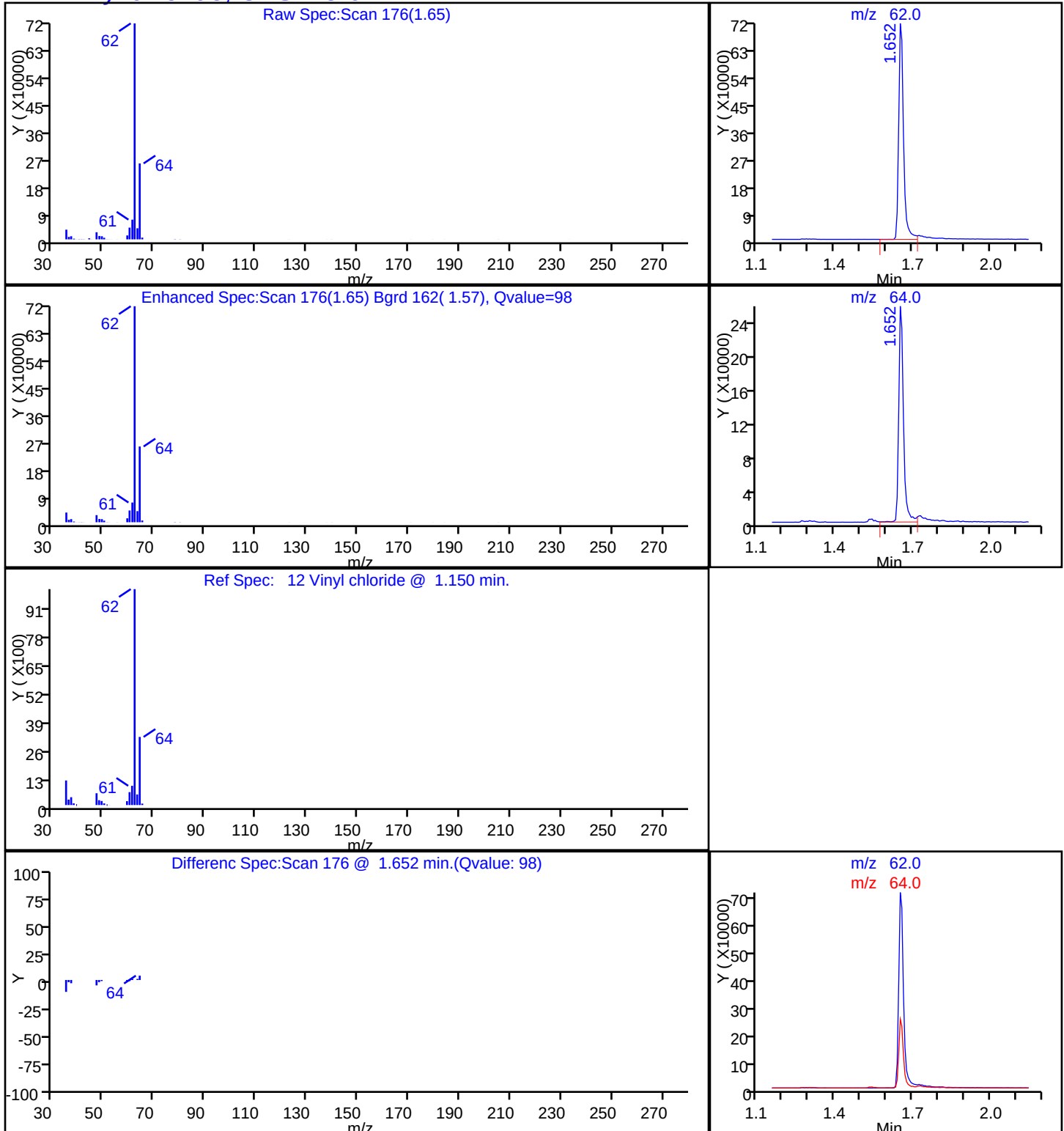
Dil. Factor: 500.0000

Method: 8260HP39

Limit Group: MSV 8260C ICAL

Column:

Detector MS SCAN

12 Vinyl chloride, CAS: 75-01-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Nashville</u>	Job No.: <u>480-117063-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-3</u>	Lab Sample ID: <u>480-117063-3</u>
Matrix: <u>Water</u>	Lab File ID: <u>05061750.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/26/2017 13:20</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>05/07/2017 10:15</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>20</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>428030</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		20	3.8
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	3.8
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	3.0
79-00-5	1,1,2-Trichloroethane	ND		20	3.8
75-34-3	1,1-Dichloroethane	ND		20	4.8
75-35-4	1,1-Dichloroethene	ND		20	5.0
120-82-1	1,2,4-Trichlorobenzene	ND		20	4.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		200	19
95-50-1	1,2-Dichlorobenzene	ND		20	3.8
107-06-2	1,2-Dichloroethane	ND		20	4.0
78-87-5	1,2-Dichloropropane	ND		20	5.0
541-73-1	1,3-Dichlorobenzene	ND		20	3.6
106-46-7	1,4-Dichlorobenzene	ND		20	3.4
78-93-3	2-Butanone (MEK)	ND		1000	53
591-78-6	2-Hexanone	ND		200	26
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		200	16
67-64-1	Acetone	ND		500	53
71-43-2	Benzene	ND		20	4.0
75-25-2	Bromoform	ND		20	5.8
74-83-9	Bromomethane	ND	*	20	7.0
75-15-0	Carbon disulfide	ND		20	4.4
56-23-5	Carbon tetrachloride	ND		20	3.6
108-90-7	Chlorobenzene	ND		20	3.6
124-48-1	Dibromochloromethane	ND		20	5.0
75-00-3	Chloroethane	ND		20	7.2
67-66-3	Chloroform	ND		20	4.6
74-87-3	Chloromethane	ND		20	7.2
156-59-2	cis-1,2-Dichloroethene	940		20	4.2
110-82-7	Cyclohexane	ND		100	2.6
75-27-4	Bromodichloromethane	ND		20	3.4
75-71-8	Dichlorodifluoromethane	ND	*	20	3.4
100-41-4	Ethylbenzene	ND		20	3.8
106-93-4	1,2-Dibromoethane	ND		20	4.2
98-82-8	Isopropylbenzene	ND		20	6.6
79-20-9	Methyl acetate	ND		200	12

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Client Sample ID: MW-3 Lab Sample ID: 480-117063-3
 Matrix: Water Lab File ID: 05061750.D
 Analysis Method: 8260C Date Collected: 04/26/2017 13:20
 Sample wt/vol: 5 (mL) Date Analyzed: 05/07/2017 10:15
 Soil Aliquot Vol: _____ Dilution Factor: 20
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 428030 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		20	3.4
108-87-2	Methylcyclohexane	ND		100	1.8
75-09-2	Methylene Chloride	ND		100	20
127-18-4	Tetrachloroethene	ND		20	2.8
108-88-3	Toluene	ND		20	3.4
156-60-5	trans-1,2-Dichloroethene	14	J	20	4.6
10061-02-6	trans-1,3-Dichloropropene	ND		20	3.4
79-01-6	Trichloroethene	4000		20	4.0
75-69-4	Trichlorofluoromethane	ND		20	4.2
75-01-4	Vinyl chloride	4.9	J	20	3.6
1330-20-7	Xylenes, Total	ND		60	12
10061-01-5	cis-1,3-Dichloropropene	ND		20	3.4
100-42-5	Styrene	ND		20	5.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
460-00-4	4-Bromofluorobenzene (Surr)	103		70-130
2037-26-5	Toluene-d8 (Surr)	95		70-130
1868-53-7	Dibromofluoromethane (Surr)	98		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\05061750.D
 Lims ID: 480-117063-A-3
 Client ID: MW-3
 Sample Type: Client
 Inject. Date: 07-May-2017 10:15:30 ALS Bottle#: 60 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 20.0000
 Sample Info: 480-117063-A-3
 Misc. Info.: 490-0090567-019
 Operator ID: JJR Instrument ID: HP33
 Method: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 08-May-2017 10:14:59 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: wanguns

Date: 08-May-2017 10:14:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.620	3.635	-0.015	98	650350	30.0	
* 2 Chlorobenzene-d5	117	5.932	5.941	-0.009	86	496985	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.097	8.100	-0.003	95	204671	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.206	3.203	0.003	97	159697	29.3	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.437	3.434	0.003	0	184132	30.4	
\$ 7 Toluene-d8 (Surr)	98	4.721	4.736	-0.015	99	628826	28.6	
\$ 8 4-Bromofluorobenzene (Surr	95	6.996	7.005	-0.009	93	198307	30.9	
14 Vinyl chloride	62	1.363	1.348	0.015	1	1584	0.2456	
24 1,1-Dichloroethene	96	1.953	1.950	0.003	13	938	0.1971	
25 Acetone	58	2.008	2.005	0.003	55	242	0.5137	
33 Methylene Chloride	84	2.233	2.224	0.009	94	1222	0.1971	
36 trans-1,2-Dichloroethene	61	2.342	2.339	0.003	91	5326	0.6927	
45 cis-1,2-Dichloroethene	96	2.926	2.929	-0.003	98	282846	46.9	
65 Trichloroethene	130	3.851	3.860	-0.009	97	1177733	198.4	

Reagents:

VOA_ISSS150_W_00015

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061750.D

Injection Date: 07-May-2017 10:15:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: 480-117063-A-3

Lab Sample ID: 490-117063-3

Worklist Smp#: 19

Client ID: MW-3

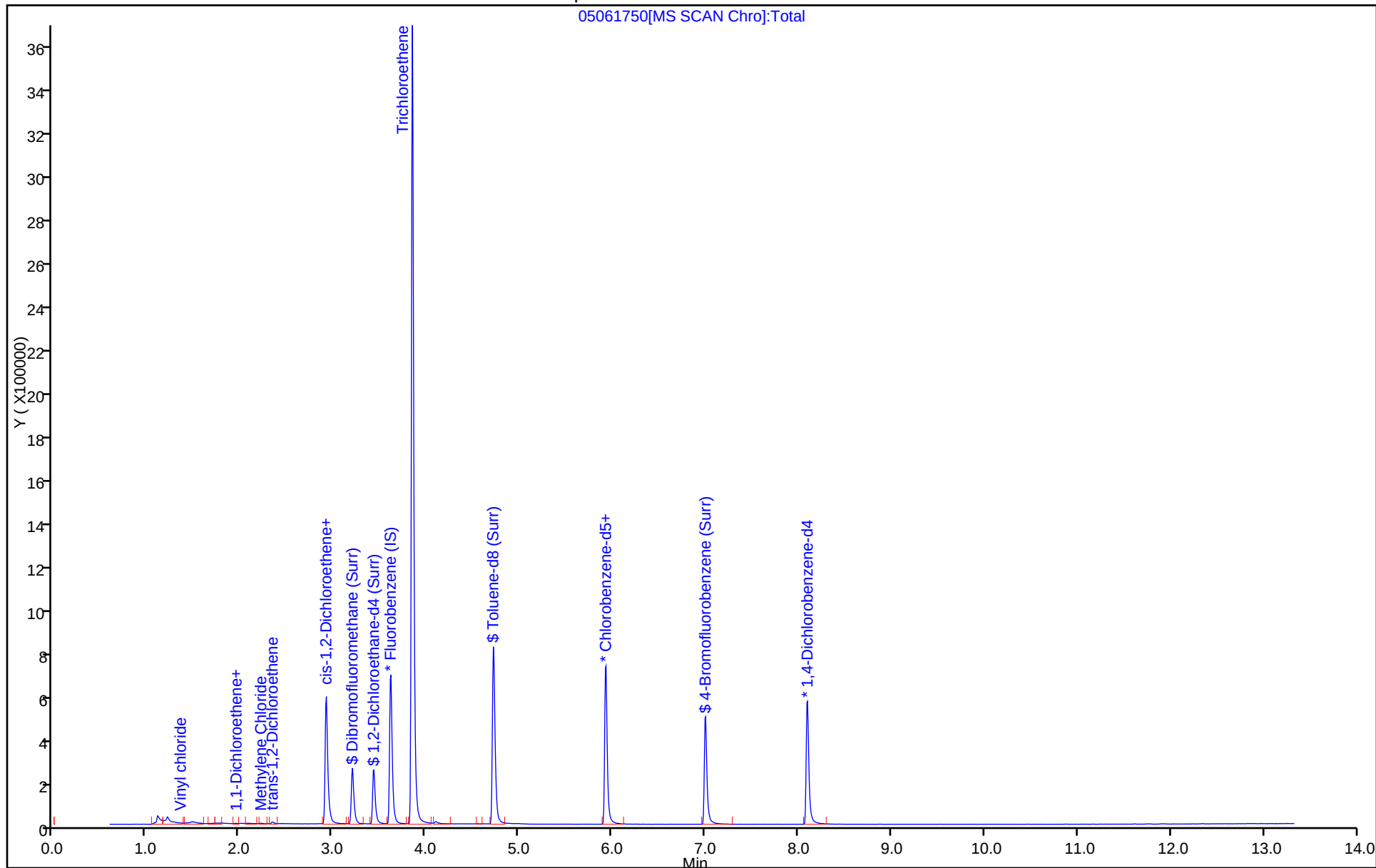
Purge Vol: 5.000 mL

Dil. Factor: 20.0000

ALS Bottle#: 60

Method: 8260HP33

Limit Group: MSV 8260C ICAL



TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061750.D

Injection Date: 07-May-2017 10:15:30

Instrument ID: HP33

Lims ID: 480-117063-A-3

Lab Sample ID: 490-117063-3

Client ID: MW-3

Operator ID: JJR

ALS Bottle#: 60

Worklist Smp#: 19

Purge Vol: 5.000 mL

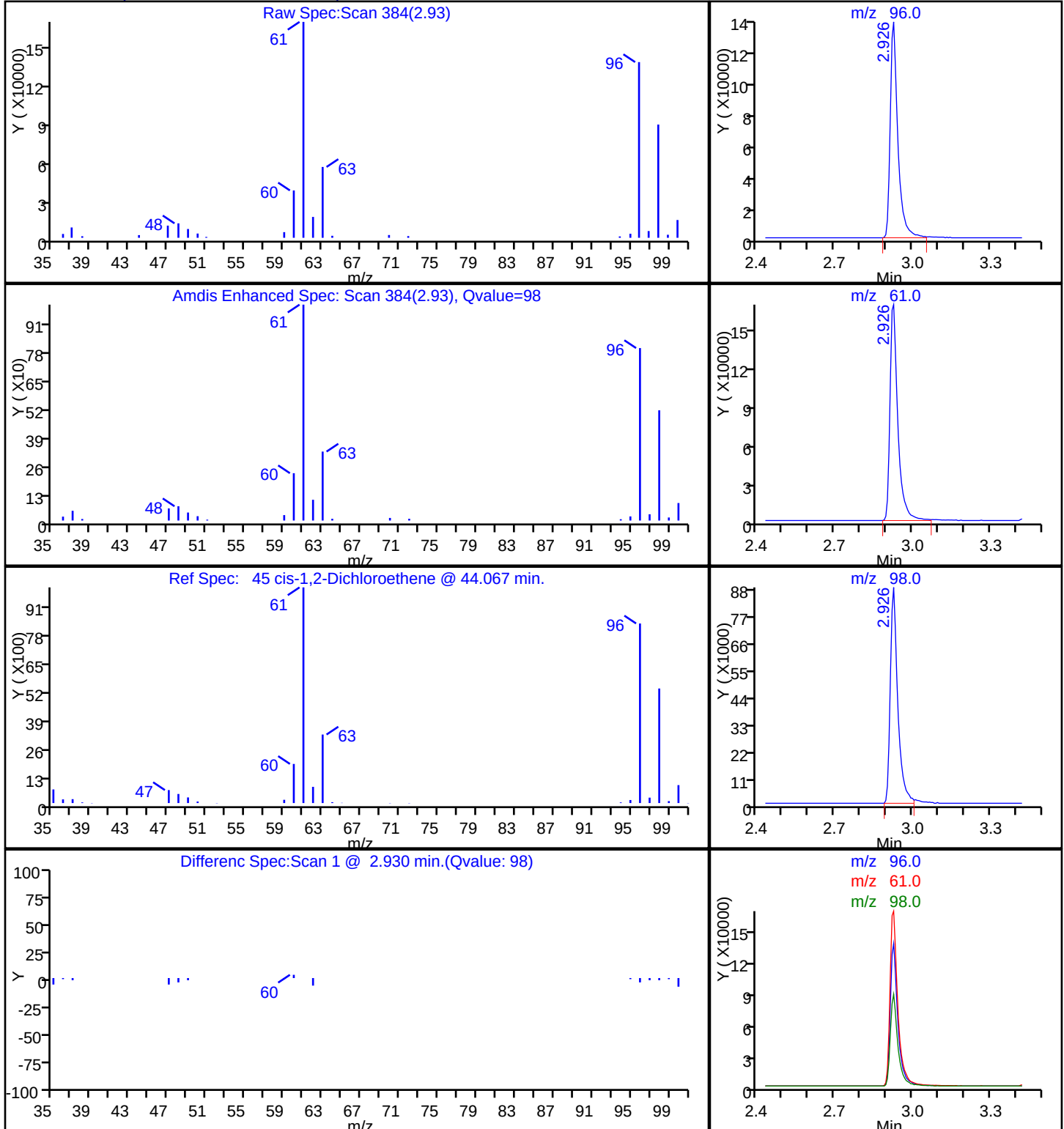
Dil. Factor: 20.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector MS SCAN

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

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061750.D

Injection Date: 07-May-2017 10:15:30

Instrument ID: HP33

Lims ID: 480-117063-A-3

Lab Sample ID: 490-117063-3

Client ID: MW-3

Operator ID: JJR

ALS Bottle#: 60

Worklist Smp#: 19

Purge Vol: 5.000 mL

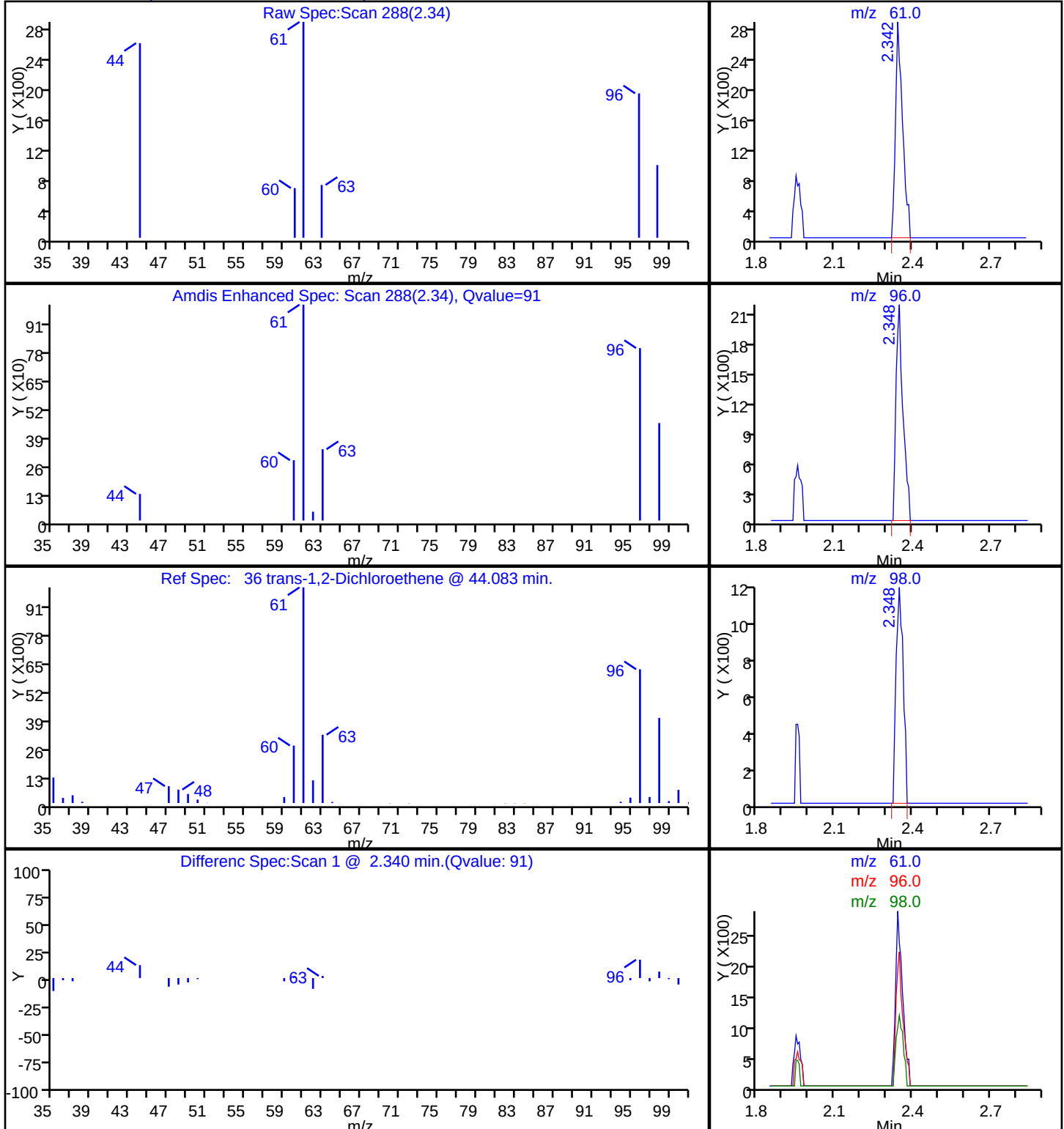
Dil. Factor: 20.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector MS SCAN

36 trans-1,2-Dichloroethene, CAS: 156-60-5

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061750.D

Injection Date: 07-May-2017 10:15:30

Instrument ID: HP33

Lims ID: 480-117063-A-3

Lab Sample ID: 490-117063-3

Client ID: MW-3

Operator ID: JJR

ALS Bottle#: 60

Worklist Smp#: 19

Purge Vol: 5.000 mL

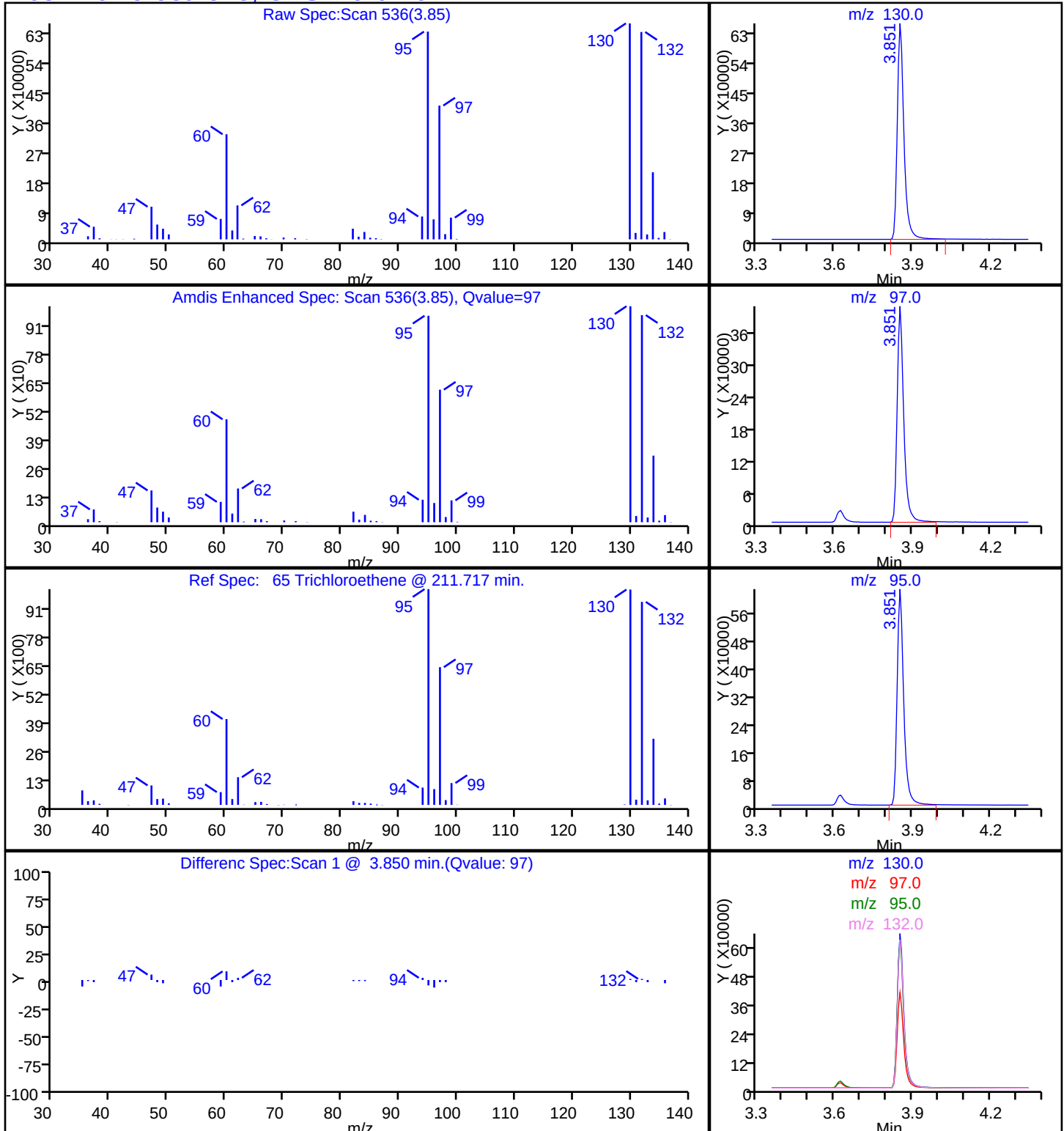
Dil. Factor: 20.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector MS SCAN

65 Trichloroethene, CAS: 79-01-6

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061750.D

Injection Date: 07-May-2017 10:15:30

Instrument ID: HP33

Lims ID: 480-117063-A-3

Lab Sample ID: 490-117063-3

Client ID: MW-3

Operator ID: JJR

ALS Bottle#: 60

Worklist Smp#: 19

Purge Vol: 5.000 mL

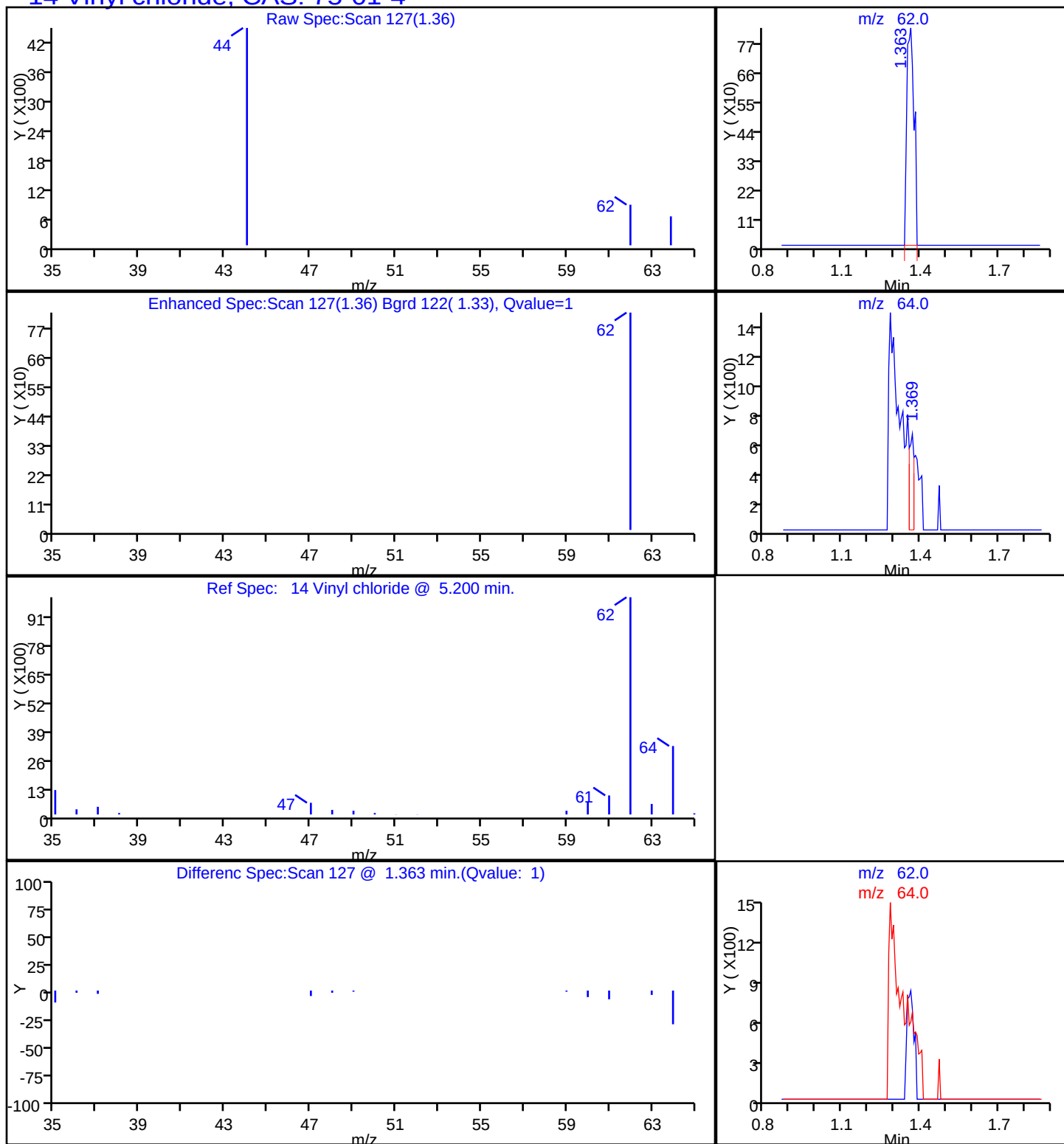
Dil. Factor: 20.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector MS SCAN

14 Vinyl chloride, CAS: 75-01-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Nashville</u>	Job No.: <u>480-117063-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-4</u>	Lab Sample ID: <u>480-117063-4</u>
Matrix: <u>Water</u>	Lab File ID: <u>05061751.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/25/2017 13:05</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>05/07/2017 10:42</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>250</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>428030</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		250	48
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	48
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		250	38
79-00-5	1,1,2-Trichloroethane	ND		250	48
75-34-3	1,1-Dichloroethane	ND		250	60
75-35-4	1,1-Dichloroethene	ND		250	63
120-82-1	1,2,4-Trichlorobenzene	ND		250	50
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2500	240
95-50-1	1,2-Dichlorobenzene	ND		250	48
107-06-2	1,2-Dichloroethane	ND		250	50
78-87-5	1,2-Dichloropropane	ND		250	63
541-73-1	1,3-Dichlorobenzene	ND		250	45
106-46-7	1,4-Dichlorobenzene	ND		250	43
78-93-3	2-Butanone (MEK)	ND		13000	660
591-78-6	2-Hexanone	ND		2500	320
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		2500	200
67-64-1	Acetone	ND		6300	670
71-43-2	Benzene	ND		250	50
75-25-2	Bromoform	ND		250	73
74-83-9	Bromomethane	ND	*	250	88
75-15-0	Carbon disulfide	ND		250	55
56-23-5	Carbon tetrachloride	ND		250	45
108-90-7	Chlorobenzene	ND		250	45
124-48-1	Dibromochloromethane	ND		250	63
75-00-3	Chloroethane	ND		250	90
67-66-3	Chloroform	ND		250	58
74-87-3	Chloromethane	ND		250	90
156-59-2	cis-1,2-Dichloroethene	1100		250	53
110-82-7	Cyclohexane	ND		1300	33
75-27-4	Bromodichloromethane	ND		250	43
75-71-8	Dichlorodifluoromethane	ND	*	250	43
100-41-4	Ethylbenzene	ND		250	48
106-93-4	1,2-Dibromoethane	ND		250	53
98-82-8	Isopropylbenzene	ND		250	83
79-20-9	Methyl acetate	ND		2500	150

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Client Sample ID: MW-4 Lab Sample ID: 480-117063-4
 Matrix: Water Lab File ID: 05061751.D
 Analysis Method: 8260C Date Collected: 04/25/2017 13:05
 Sample wt/vol: 5 (mL) Date Analyzed: 05/07/2017 10:42
 Soil Aliquot Vol: _____ Dilution Factor: 250
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 428030 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		250	43
108-87-2	Methylcyclohexane	ND		1300	23
75-09-2	Methylene Chloride	ND		1300	250
127-18-4	Tetrachloroethene	ND		250	35
108-88-3	Toluene	ND		250	43
156-60-5	trans-1,2-Dichloroethene	ND		250	58
10061-02-6	trans-1,3-Dichloropropene	ND		250	43
79-01-6	Trichloroethene	38000		250	50
75-69-4	Trichlorofluoromethane	ND		250	53
75-01-4	Vinyl chloride	ND		250	45
1330-20-7	Xylenes, Total	ND		750	150
10061-01-5	cis-1,3-Dichloropropene	ND		250	43
100-42-5	Styrene	ND		250	70

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-130
460-00-4	4-Bromofluorobenzene (Surr)	102		70-130
2037-26-5	Toluene-d8 (Surr)	93		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\05061751.D
 Lims ID: 480-117063-A-4
 Client ID: MW-4
 Sample Type: Client
 Inject. Date: 07-May-2017 10:42:30 ALS Bottle#: 61 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 250.0000
 Sample Info: 480-117063-A-4
 Misc. Info.: 490-0090567-020
 Operator ID: JJR Instrument ID: HP33
 Method: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 08-May-2017 10:14:59 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: wanguns

Date: 08-May-2017 10:16:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.623	3.635	-0.012	98	670977	30.0	
* 2 Chlorobenzene-d5	117	5.935	5.941	-0.006	86	529493	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.101	8.100	0.001	95	227511	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.197	3.203	-0.006	97	162983	29.0	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.429	3.434	-0.006	0	192265	30.8	
\$ 7 Toluene-d8 (Surr)	98	4.736	4.736	0.000	99	656218	28.0	
\$ 8 4-Bromofluorobenzene (Surr	95	7.006	7.005	0.001	95	217592	30.5	
33 Methylene Chloride	84	2.218	2.224	-0.006	88	1868	0.2920	
45 cis-1,2-Dichloroethene	96	2.924	2.929	-0.005	97	26415	4.25	
65 Trichloroethene	130	3.848	3.860	-0.012	97	934342	152.6	

Reagents:

VOA_ISSS150_W_00015

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061751.D

Injection Date: 07-May-2017 10:42:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: 480-117063-A-4

Lab Sample ID: 490-117063-4

Worklist Smp#: 20

Client ID: MW-4

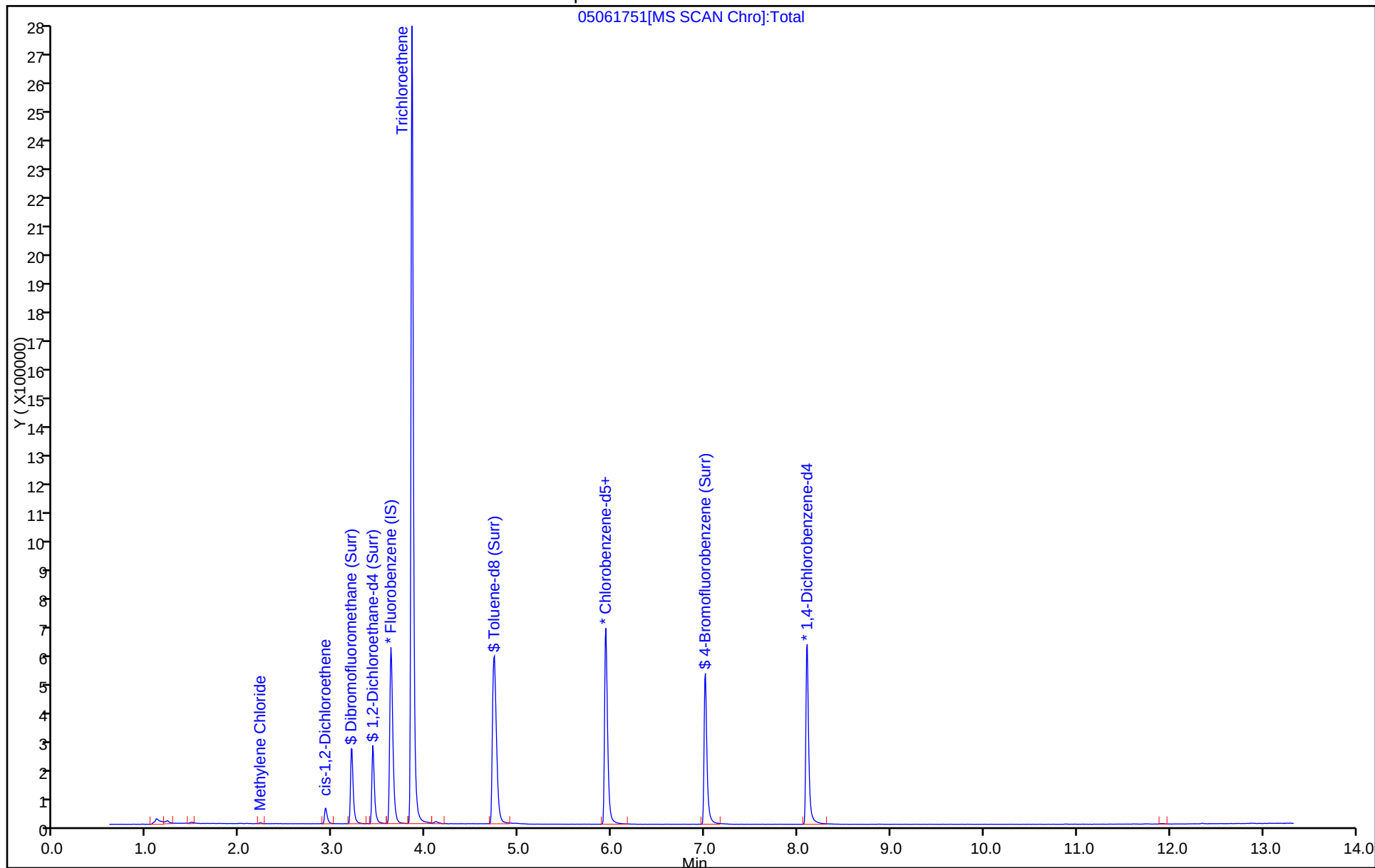
Purge Vol: 5.000 mL

Dil. Factor: 250.0000

ALS Bottle#: 61

Method: 8260HP33

Limit Group: MSV 8260C ICAL



TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061751.D

Injection Date: 07-May-2017 10:42:30

Instrument ID: HP33

Lims ID: 480-117063-A-4

Lab Sample ID: 490-117063-4

Client ID: MW-4

Operator ID: JJR

ALS Bottle#: 61

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 250.0000

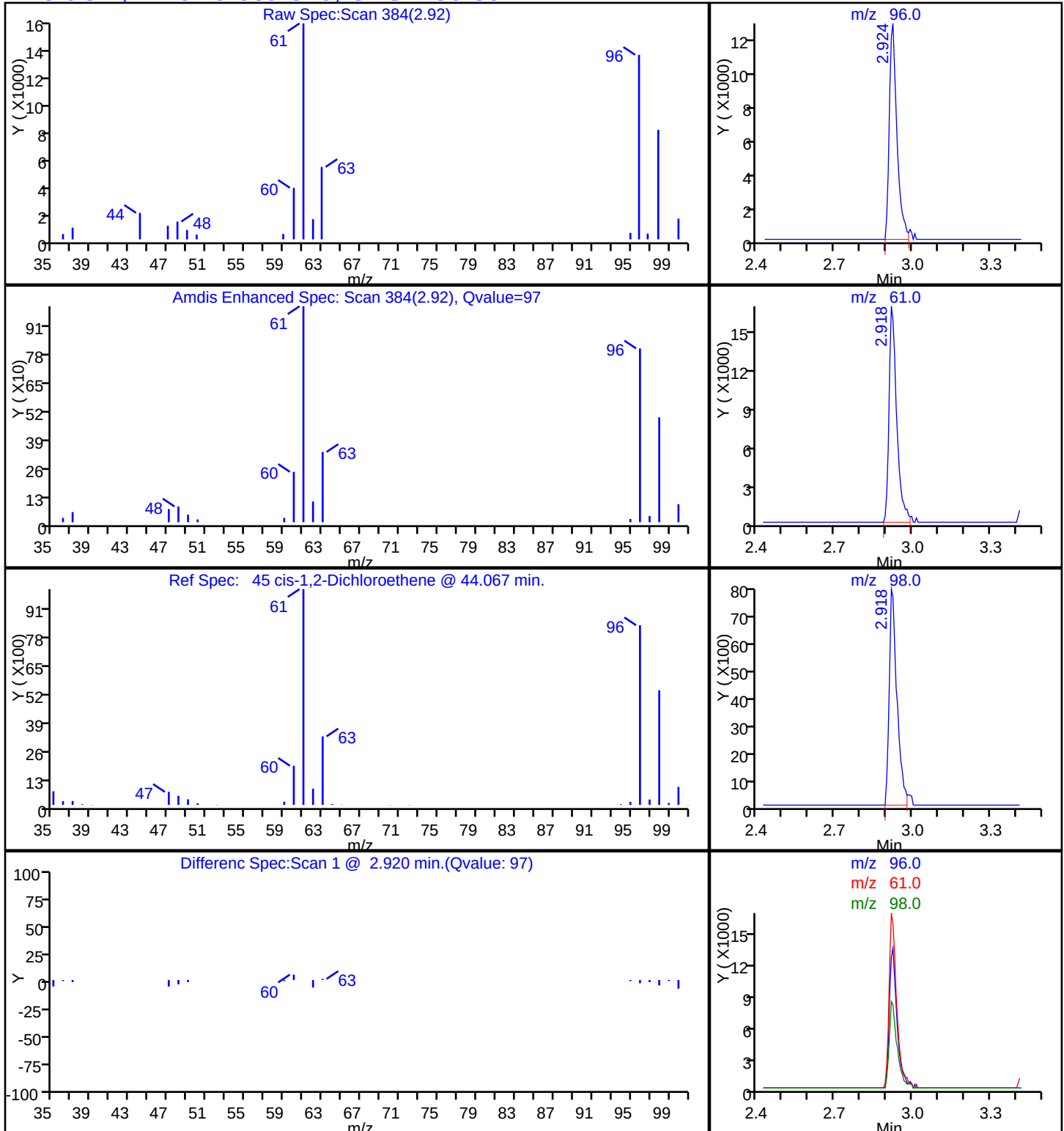
Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector

MS SCAN

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

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061751.D

Injection Date: 07-May-2017 10:42:30

Instrument ID: HP33

Lims ID: 480-117063-A-4

Lab Sample ID: 490-117063-4

Client ID: MW-4

Operator ID: JJR

ALS Bottle#: 61

Worklist Smp#: 20

Purge Vol: 5.000 mL

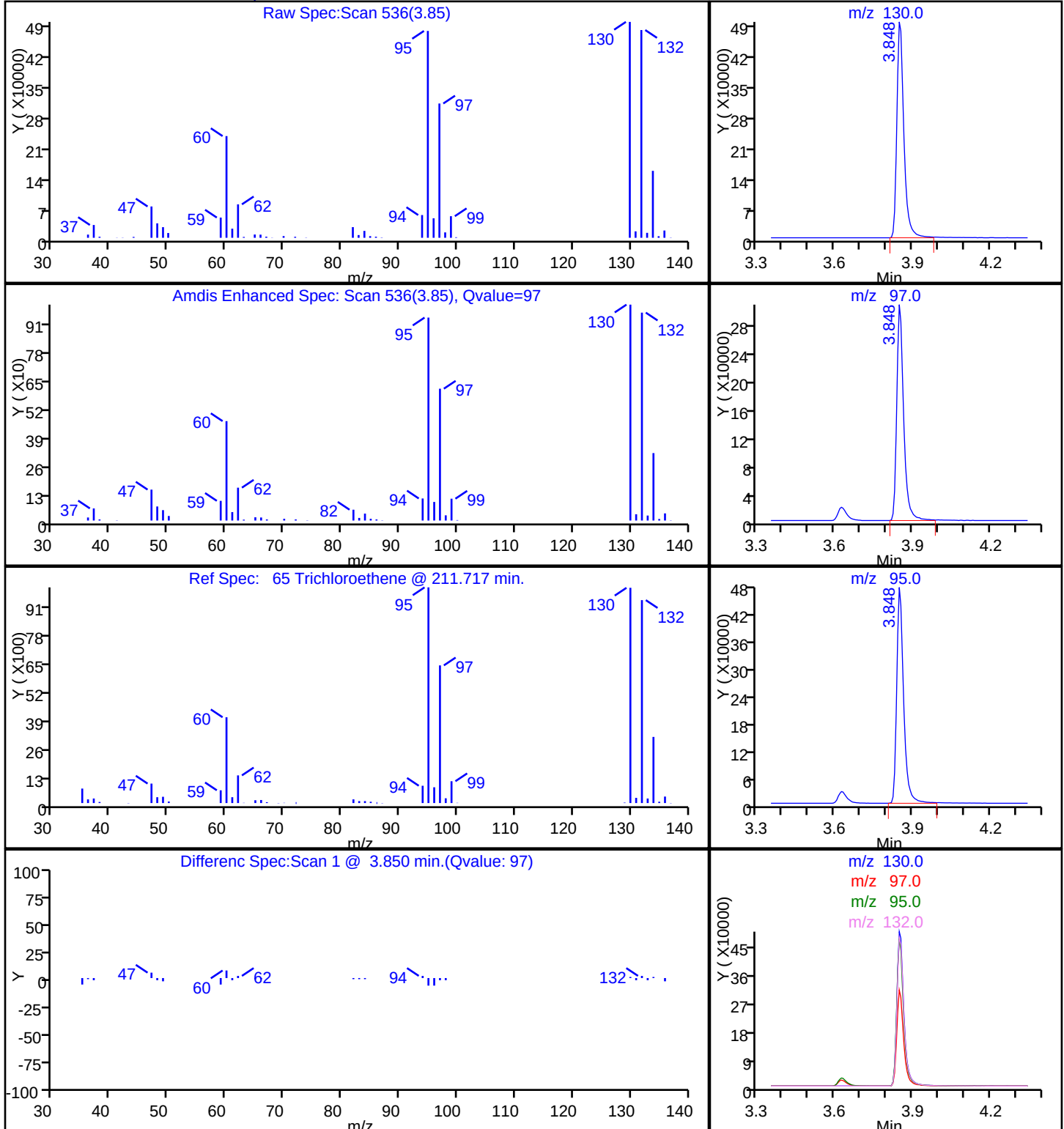
Dil. Factor: 250.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector: MS SCAN

65 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Nashville</u>	Job No.: <u>480-117063-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-4D</u>	Lab Sample ID: <u>480-117063-5</u>
Matrix: <u>Water</u>	Lab File ID: <u>05061742.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/25/2017 14:15</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>05/07/2017 06:38</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>428030</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.19
75-34-3	1,1-Dichloroethane	ND		1.0	0.24
75-35-4	1,1-Dichloroethene	ND		1.0	0.25
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	0.94
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.19
107-06-2	1,2-Dichloroethane	ND		1.0	0.20
78-87-5	1,2-Dichloropropane	ND		1.0	0.25
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.18
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.17
78-93-3	2-Butanone (MEK)	ND		50	2.6
591-78-6	2-Hexanone	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.81
67-64-1	Acetone	7.8	J	25	2.7
71-43-2	Benzene	ND		1.0	0.20
75-25-2	Bromoform	ND		1.0	0.29
74-83-9	Bromomethane	ND	*	1.0	0.35
75-15-0	Carbon disulfide	ND		1.0	0.22
56-23-5	Carbon tetrachloride	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.25
75-00-3	Chloroethane	ND		1.0	0.36
67-66-3	Chloroform	ND		1.0	0.23
74-87-3	Chloromethane	ND		1.0	0.36
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.21
110-82-7	Cyclohexane	ND		5.0	0.13
75-27-4	Bromodichloromethane	ND		1.0	0.17
75-71-8	Dichlorodifluoromethane	ND	*	1.0	0.17
100-41-4	Ethylbenzene	ND		1.0	0.19
106-93-4	1,2-Dibromoethane	ND		1.0	0.21
98-82-8	Isopropylbenzene	ND		1.0	0.33
79-20-9	Methyl acetate	ND		10	0.58

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Client Sample ID: MW-4D Lab Sample ID: 480-117063-5
 Matrix: Water Lab File ID: 05061742.D
 Analysis Method: 8260C Date Collected: 04/25/2017 14:15
 Sample wt/vol: 5 (mL) Date Analyzed: 05/07/2017 06:38
 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.: 428030 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.17
108-87-2	Methylcyclohexane	ND		5.0	0.090
75-09-2	Methylene Chloride	ND		5.0	1.0
127-18-4	Tetrachloroethene	ND		1.0	0.14
108-88-3	Toluene	ND		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.17
79-01-6	Trichloroethene	ND		1.0	0.20
75-69-4	Trichlorofluoromethane	ND		1.0	0.21
75-01-4	Vinyl chloride	ND		1.0	0.18
1330-20-7	Xylenes, Total	ND		3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.17
100-42-5	Styrene	ND		1.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130
460-00-4	4-Bromofluorobenzene (Surr)	105		70-130
2037-26-5	Toluene-d8 (Surr)	91		70-130
1868-53-7	Dibromofluoromethane (Surr)	95		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\05061742.D
 Lims ID: 480-117063-A-5
 Client ID: MW-4D
 Sample Type: Client
 Inject. Date: 07-May-2017 06:38:30 ALS Bottle#: 52 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-117063-A-5
 Misc. Info.: 490-0090567-011
 Operator ID: JJR Instrument ID: HP33
 Method: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 08-May-2017 10:06:22 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: wanguns

Date: 08-May-2017 10:07:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.619	3.635	-0.016	98	676203	30.0	
* 2 Chlorobenzene-d5	117	5.931	5.941	-0.010	86	529516	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.096	8.100	-0.004	95	214093	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.211	3.203	0.008	97	161549	28.5	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.436	3.434	0.002	0	184240	29.3	
\$ 7 Toluene-d8 (Surr)	98	4.726	4.736	-0.010	99	641572	27.4	
\$ 8 4-Bromofluorobenzene (Surr	95	7.001	7.005	-0.004	95	210660	31.4	
25 Acetone	58	2.013	2.005	0.008	89	3807	7.77	

Reagents:

VOA_ISSS150_W_00015

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061742.D

Injection Date: 07-May-2017 06:38:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: 480-117063-A-5

Lab Sample ID: 490-117063-5

Worklist Smp#: 11

Client ID: MW-4D

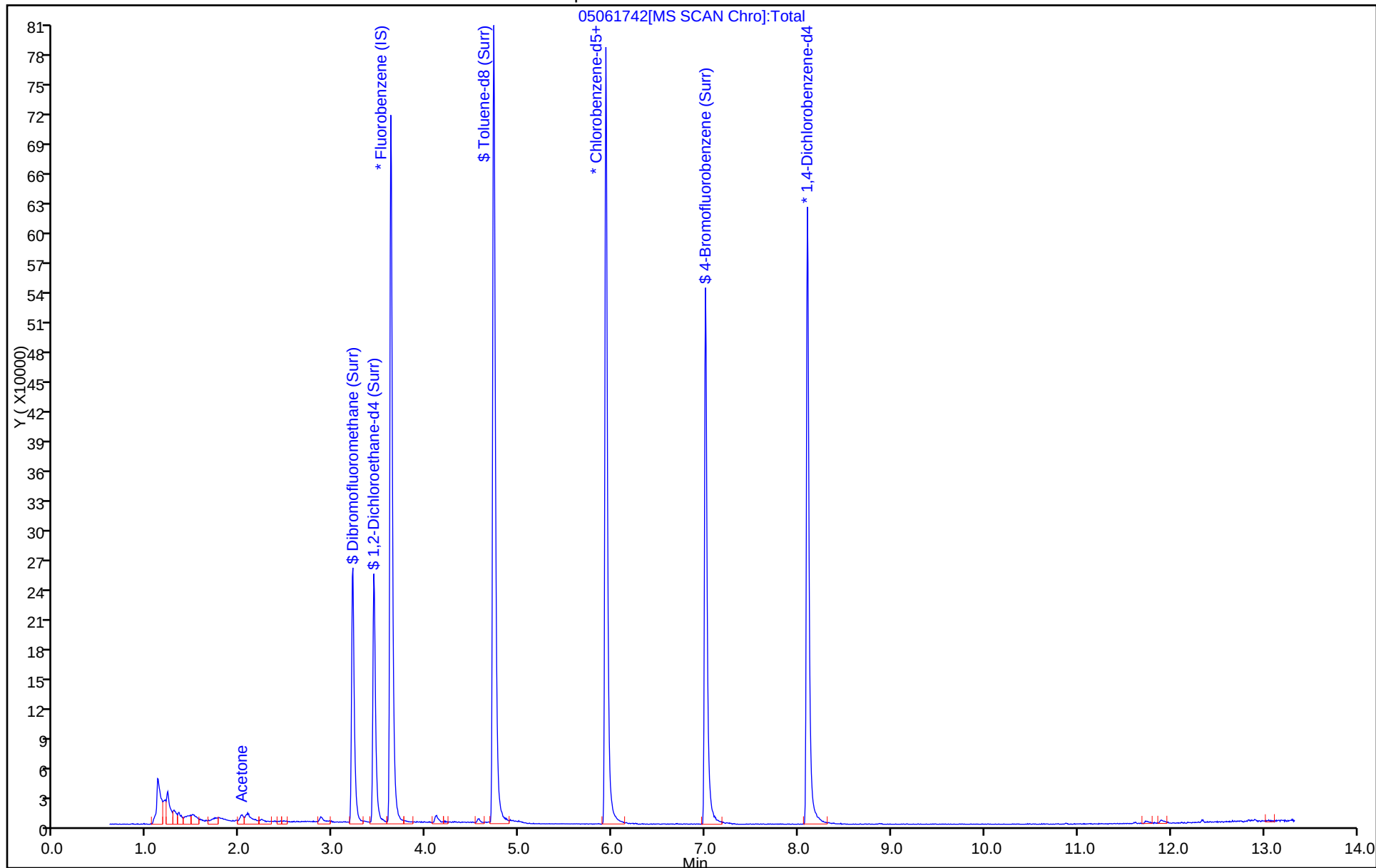
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 52

Method: 8260HP33

Limit Group: MSV 8260C ICAL



TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061742.D

Injection Date: 07-May-2017 06:38:30

Instrument ID: HP33

Lims ID: 480-117063-A-5

Lab Sample ID: 490-117063-5

Client ID: MW-4D

Operator ID: JJR

ALS Bottle#: 52

Worklist Smp#: 11

Purge Vol: 5.000 mL

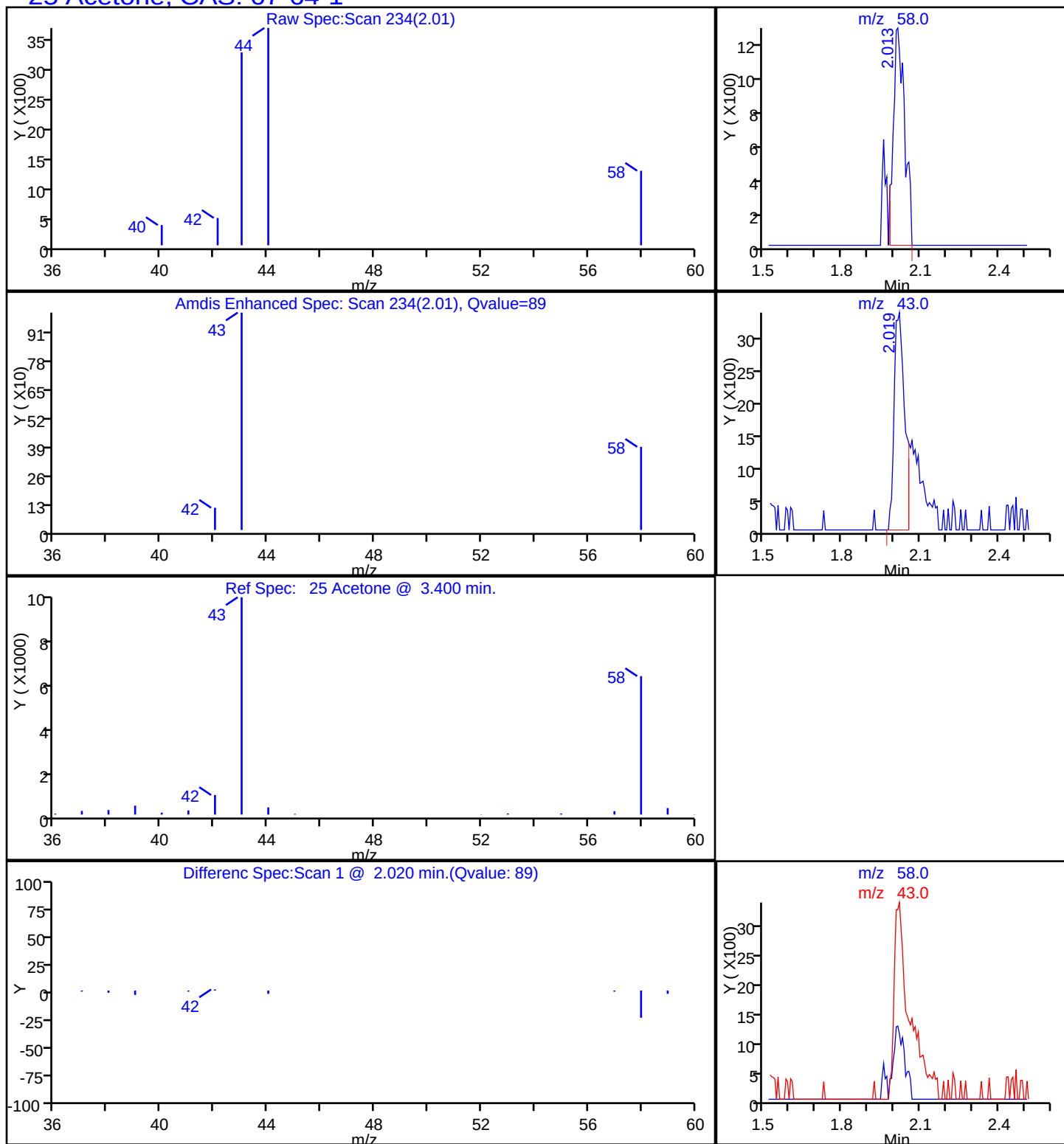
Dil. Factor: 1.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector MS SCAN

25 Acetone, CAS: 67-64-1

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Nashville</u>	Job No.: <u>480-117063-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-5</u>	Lab Sample ID: <u>480-117063-6</u>
Matrix: <u>Water</u>	Lab File ID: <u>05061743.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/25/2017 11:05</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>05/07/2017 07:05</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>428030</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.19
75-34-3	1,1-Dichloroethane	ND		1.0	0.24
75-35-4	1,1-Dichloroethene	ND		1.0	0.25
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	0.94
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.19
107-06-2	1,2-Dichloroethane	ND		1.0	0.20
78-87-5	1,2-Dichloropropane	ND		1.0	0.25
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.18
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.17
78-93-3	2-Butanone (MEK)	ND		50	2.6
591-78-6	2-Hexanone	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.81
67-64-1	Acetone	3.1	J	25	2.7
71-43-2	Benzene	ND		1.0	0.20
75-25-2	Bromoform	ND		1.0	0.29
74-83-9	Bromomethane	ND	*	1.0	0.35
75-15-0	Carbon disulfide	ND		1.0	0.22
56-23-5	Carbon tetrachloride	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.25
75-00-3	Chloroethane	ND		1.0	0.36
67-66-3	Chloroform	ND		1.0	0.23
74-87-3	Chloromethane	ND		1.0	0.36
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.21
110-82-7	Cyclohexane	ND		5.0	0.13
75-27-4	Bromodichloromethane	ND		1.0	0.17
75-71-8	Dichlorodifluoromethane	ND	*	1.0	0.17
100-41-4	Ethylbenzene	ND		1.0	0.19
106-93-4	1,2-Dibromoethane	ND		1.0	0.21
98-82-8	Isopropylbenzene	ND		1.0	0.33
79-20-9	Methyl acetate	ND		10	0.58

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Client Sample ID: MW-5 Lab Sample ID: 480-117063-6
 Matrix: Water Lab File ID: 05061743.D
 Analysis Method: 8260C Date Collected: 04/25/2017 11:05
 Sample wt/vol: 5 (mL) Date Analyzed: 05/07/2017 07:05
 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.: 428030 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.17
108-87-2	Methylcyclohexane	ND		5.0	0.090
75-09-2	Methylene Chloride	ND		5.0	1.0
127-18-4	Tetrachloroethene	ND		1.0	0.14
108-88-3	Toluene	ND		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.17
79-01-6	Trichloroethene	ND		1.0	0.20
75-69-4	Trichlorofluoromethane	ND		1.0	0.21
75-01-4	Vinyl chloride	ND		1.0	0.18
1330-20-7	Xylenes, Total	ND		3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.17
100-42-5	Styrene	ND		1.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
460-00-4	4-Bromofluorobenzene (Surr)	103		70-130
2037-26-5	Toluene-d8 (Surr)	93		70-130
1868-53-7	Dibromofluoromethane (Surr)	98		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\05061743.D
 Lims ID: 480-117063-A-6
 Client ID: MW-5
 Sample Type: Client
 Inject. Date: 07-May-2017 07:05:30 ALS Bottle#: 53 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-117063-A-6
 Misc. Info.: 490-0090567-012
 Operator ID: JJR Instrument ID: HP33
 Method: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 08-May-2017 10:06:22 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: wanguns

Date: 08-May-2017 10:08:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.623	3.635	-0.012	99	689444	30.0	
* 2 Chlorobenzene-d5	117	5.929	5.941	-0.012	86	539208	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.101	8.100	0.001	95	223766	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.210	3.203	0.007	97	169257	29.3	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.435	3.434	0.001	0	193860	30.2	
\$ 7 Toluene-d8 (Surr)	98	4.724	4.736	-0.012	99	662169	27.8	
\$ 8 4-Bromofluorobenzene (Surr	95	7.000	7.005	-0.005	94	216279	30.8	
25 Acetone	58	2.023	2.005	0.018	85	1571	3.15	
45 cis-1,2-Dichloroethene	96	2.924	2.929	-0.005	91	1267	0.1983	

Reagents:

VOA_ISSS150_W_00015

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061743.D

Injection Date: 07-May-2017 07:05:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: 480-117063-A-6

Lab Sample ID: 490-117063-6

Worklist Smp#: 12

Client ID: MW-5

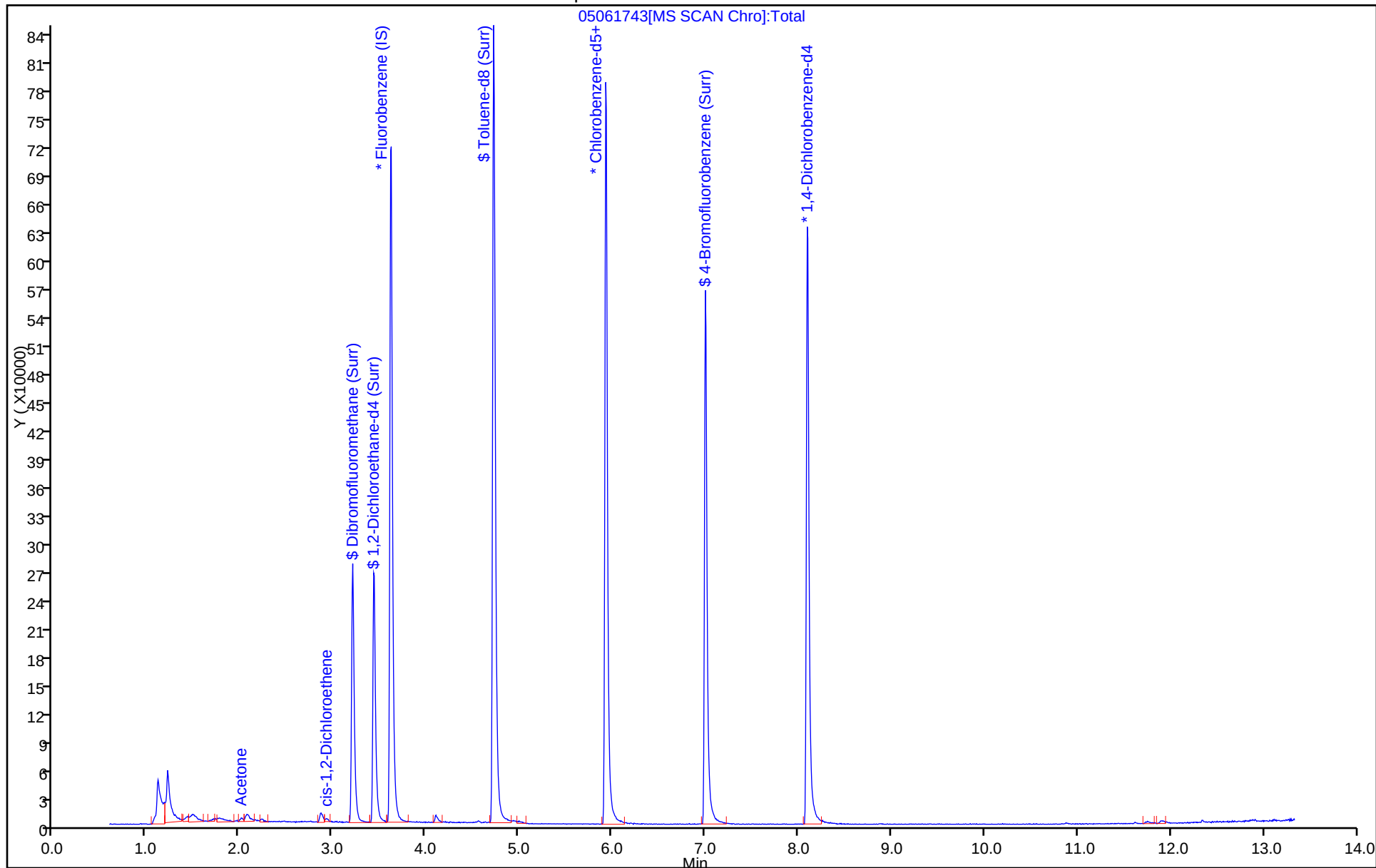
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 53

Method: 8260HP33

Limit Group: MSV 8260C ICAL



TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061743.D

Injection Date: 07-May-2017 07:05:30

Instrument ID: HP33

Lims ID: 480-117063-A-6

Lab Sample ID: 490-117063-6

Client ID: MW-5

Operator ID: JJR

ALS Bottle#: 53

Worklist Smp#: 12

Purge Vol: 5.000 mL

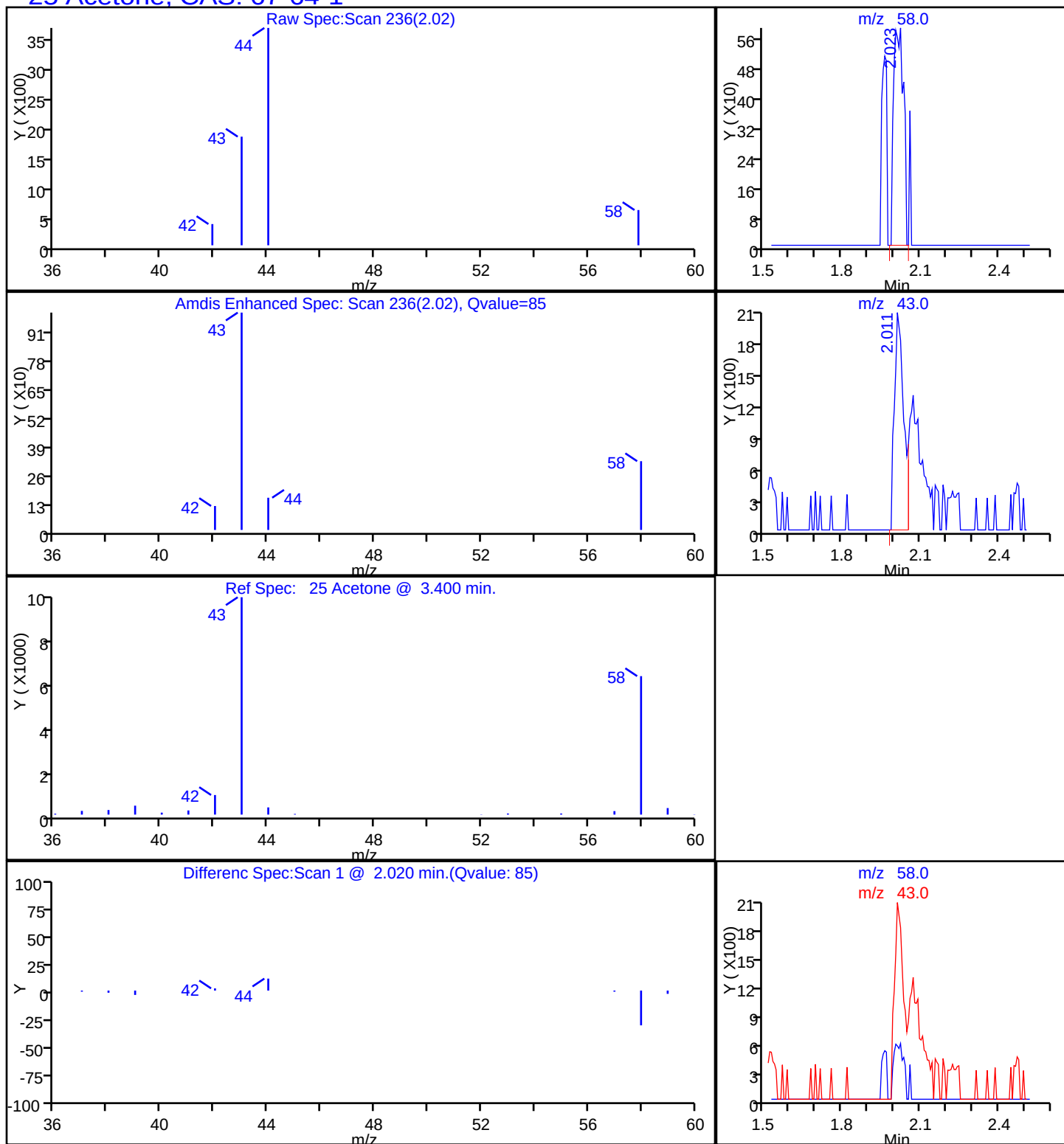
Dil. Factor: 1.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector MS SCAN

25 Acetone, CAS: 67-64-1

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Nashville</u>	Job No.: <u>480-117063-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-5D</u>	Lab Sample ID: <u>480-117063-7</u>
Matrix: <u>Water</u>	Lab File ID: <u>05061744.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/25/2017 10:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>05/07/2017 07:32</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>428030</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.19
75-34-3	1,1-Dichloroethane	ND		1.0	0.24
75-35-4	1,1-Dichloroethene	ND		1.0	0.25
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	0.94
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.19
107-06-2	1,2-Dichloroethane	ND		1.0	0.20
78-87-5	1,2-Dichloropropane	ND		1.0	0.25
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.18
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.17
78-93-3	2-Butanone (MEK)	ND		50	2.6
591-78-6	2-Hexanone	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.81
67-64-1	Acetone	6.8	J	25	2.7
71-43-2	Benzene	ND		1.0	0.20
75-25-2	Bromoform	ND		1.0	0.29
74-83-9	Bromomethane	ND	*	1.0	0.35
75-15-0	Carbon disulfide	ND		1.0	0.22
56-23-5	Carbon tetrachloride	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.25
75-00-3	Chloroethane	ND		1.0	0.36
67-66-3	Chloroform	ND		1.0	0.23
74-87-3	Chloromethane	ND		1.0	0.36
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.21
110-82-7	Cyclohexane	ND		5.0	0.13
75-27-4	Bromodichloromethane	ND		1.0	0.17
75-71-8	Dichlorodifluoromethane	ND	*	1.0	0.17
100-41-4	Ethylbenzene	ND		1.0	0.19
106-93-4	1,2-Dibromoethane	ND		1.0	0.21
98-82-8	Isopropylbenzene	ND		1.0	0.33
79-20-9	Methyl acetate	ND		10	0.58

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1

SDG No.: _____

Client Sample ID: MW-5D Lab Sample ID: 480-117063-7

Matrix: Water Lab File ID: 05061744.D

Analysis Method: 8260C Date Collected: 04/25/2017 10:00

Sample wt/vol: 5 (mL) Date Analyzed: 05/07/2017 07:32

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.: 428030 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.17
108-87-2	Methylcyclohexane	ND		5.0	0.090
75-09-2	Methylene Chloride	ND		5.0	1.0
127-18-4	Tetrachloroethene	ND		1.0	0.14
108-88-3	Toluene	ND		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.17
79-01-6	Trichloroethene	ND		1.0	0.20
75-69-4	Trichlorofluoromethane	ND		1.0	0.21
75-01-4	Vinyl chloride	ND		1.0	0.18
1330-20-7	Xylenes, Total	ND		3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.17
100-42-5	Styrene	ND		1.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	94		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\05061744.D
 Lims ID: 480-117063-A-7
 Client ID: MW-5D
 Sample Type: Client
 Inject. Date: 07-May-2017 07:32:30 ALS Bottle#: 54 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-117063-A-7
 Misc. Info.: 490-0090567-013
 Operator ID: JJR Instrument ID: HP33
 Method: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 08-May-2017 10:06:22 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: wanguns

Date: 08-May-2017 10:08:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.623	3.635	-0.012	98	688358	30.0	
* 2 Chlorobenzene-d5	117	5.935	5.941	-0.006	86	533232	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.101	8.100	0.001	96	227135	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.204	3.203	0.001	97	168455	29.2	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.435	3.434	0.001	0	194725	30.4	
\$ 7 Toluene-d8 (Surr)	98	4.731	4.736	-0.005	99	666848	28.3	
\$ 8 4-Bromofluorobenzene (Surr	95	7.006	7.005	0.001	95	215612	30.3	
25 Acetone	58	1.999	2.005	-0.006	87	3412	6.84	

Reagents:

VOA_ISSS150_W_00015

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061744.D

Injection Date: 07-May-2017 07:32:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: 480-117063-A-7

Lab Sample ID: 490-117063-7

Worklist Smp#: 13

Client ID: MW-5D

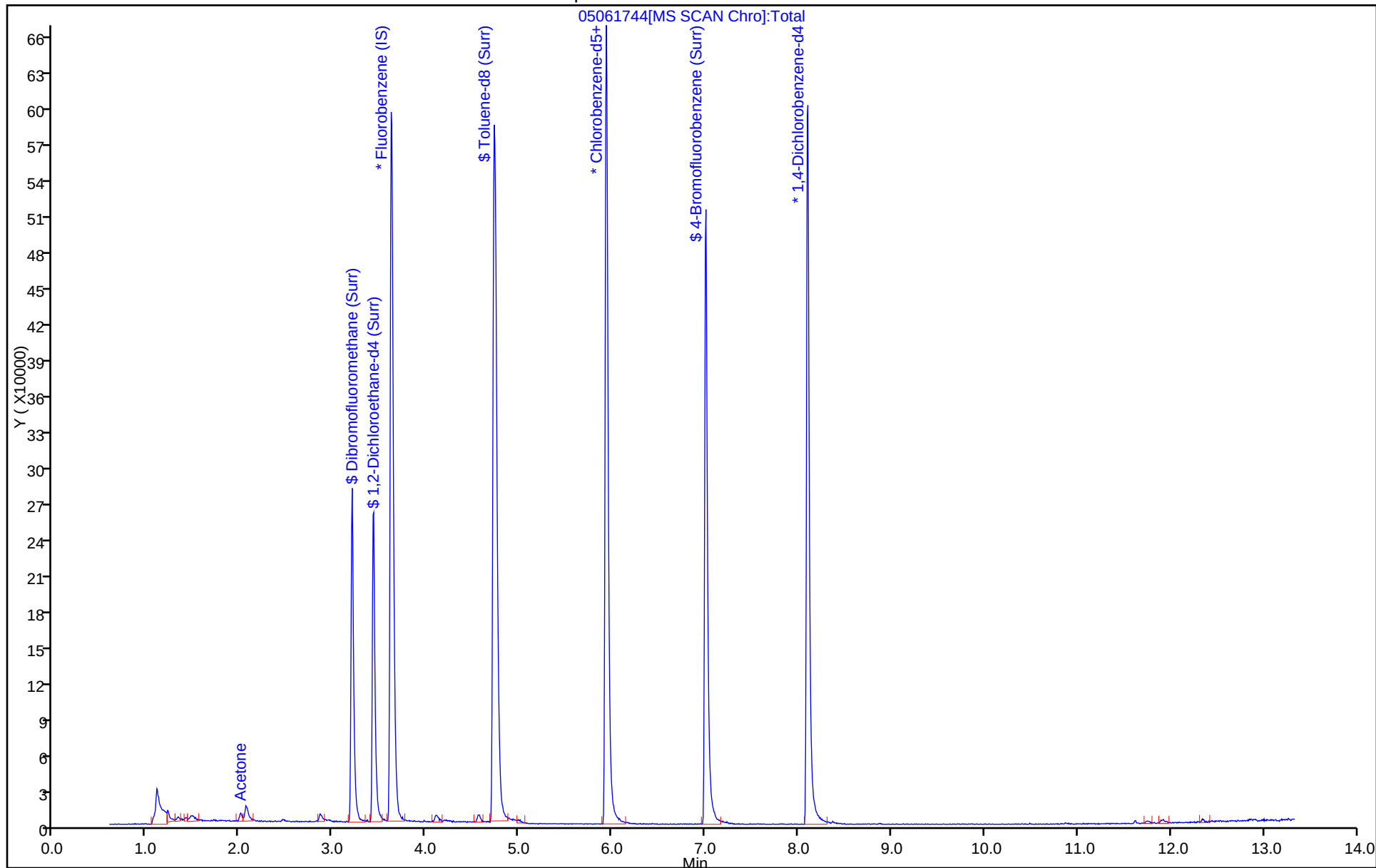
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 54

Method: 8260HP33

Limit Group: MSV 8260C ICAL



TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061744.D

Injection Date: 07-May-2017 07:32:30

Instrument ID: HP33

Lims ID: 480-117063-A-7

Lab Sample ID: 490-117063-7

Client ID: MW-5D

Operator ID: JJR

ALS Bottle#: 54

Worklist Smp#: 13

Purge Vol: 5.000 mL

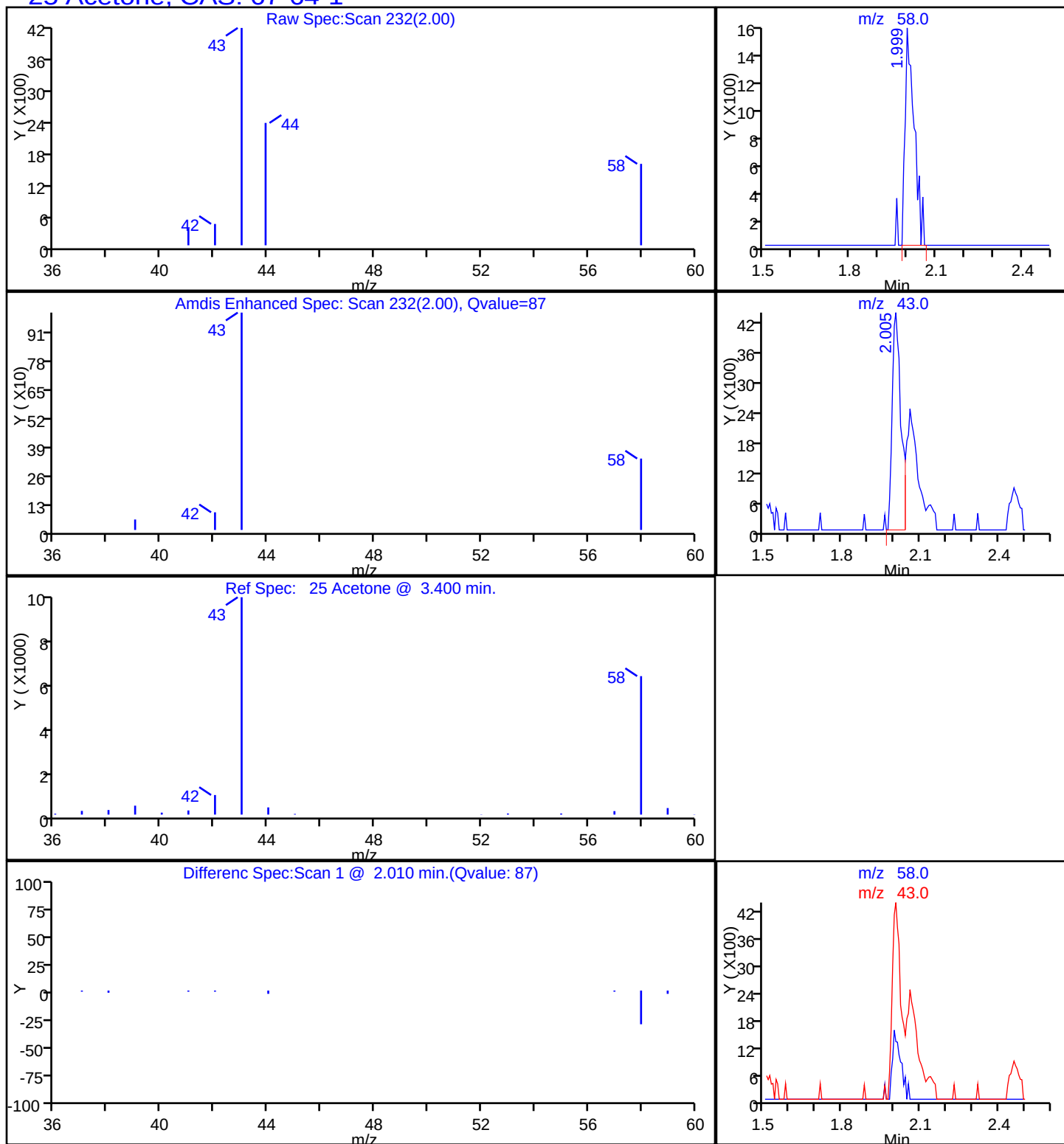
Dil. Factor: 1.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector MS SCAN

25 Acetone, CAS: 67-64-1

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Nashville</u>	Job No.: <u>480-117063-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-6</u>	Lab Sample ID: <u>480-117063-8</u>
Matrix: <u>Water</u>	Lab File ID: <u>05061745.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/24/2017 12:05</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>05/07/2017 07:59</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>428030</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.19
75-34-3	1,1-Dichloroethane	ND		1.0	0.24
75-35-4	1,1-Dichloroethene	ND		1.0	0.25
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	0.94
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.19
107-06-2	1,2-Dichloroethane	ND		1.0	0.20
78-87-5	1,2-Dichloropropane	ND		1.0	0.25
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.18
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.17
78-93-3	2-Butanone (MEK)	ND		50	2.6
591-78-6	2-Hexanone	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.81
67-64-1	Acetone	6.2	J	25	2.7
71-43-2	Benzene	ND		1.0	0.20
75-25-2	Bromoform	ND		1.0	0.29
74-83-9	Bromomethane	ND	*	1.0	0.35
75-15-0	Carbon disulfide	ND		1.0	0.22
56-23-5	Carbon tetrachloride	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.25
75-00-3	Chloroethane	ND		1.0	0.36
67-66-3	Chloroform	ND		1.0	0.23
74-87-3	Chloromethane	ND		1.0	0.36
156-59-2	cis-1,2-Dichloroethene	0.26	J	1.0	0.21
110-82-7	Cyclohexane	ND		5.0	0.13
75-27-4	Bromodichloromethane	ND		1.0	0.17
75-71-8	Dichlorodifluoromethane	ND	*	1.0	0.17
100-41-4	Ethylbenzene	ND		1.0	0.19
106-93-4	1,2-Dibromoethane	ND		1.0	0.21
98-82-8	Isopropylbenzene	ND		1.0	0.33
79-20-9	Methyl acetate	ND		10	0.58

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Client Sample ID: MW-6 Lab Sample ID: 480-117063-8
 Matrix: Water Lab File ID: 05061745.D
 Analysis Method: 8260C Date Collected: 04/24/2017 12:05
 Sample wt/vol: 5 (mL) Date Analyzed: 05/07/2017 07:59
 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.: 428030 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.17
108-87-2	Methylcyclohexane	ND		5.0	0.090
75-09-2	Methylene Chloride	ND		5.0	1.0
127-18-4	Tetrachloroethene	ND		1.0	0.14
108-88-3	Toluene	ND		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.17
79-01-6	Trichloroethene	ND		1.0	0.20
75-69-4	Trichlorofluoromethane	ND		1.0	0.21
75-01-4	Vinyl chloride	2.5		1.0	0.18
1330-20-7	Xylenes, Total	ND		3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.17
100-42-5	Styrene	ND		1.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130
460-00-4	4-Bromofluorobenzene (Surr)	103		70-130
2037-26-5	Toluene-d8 (Surr)	93		70-130
1868-53-7	Dibromofluoromethane (Surr)	95		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\05061745.D
 Lims ID: 480-117063-A-8
 Client ID: MW-6
 Sample Type: Client
 Inject. Date: 07-May-2017 07:59:30 ALS Bottle#: 55 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-117063-A-8
 Misc. Info.: 490-0090567-014
 Operator ID: JJR Instrument ID: HP33
 Method: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 08-May-2017 10:06:22 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: wanguns

Date: 08-May-2017 10:09:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.623	3.635	-0.012	98	688810	30.0	
* 2 Chlorobenzene-d5	117	5.935	5.941	-0.006	86	538319	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.101	8.100	0.001	95	219393	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.197	3.203	-0.006	97	163710	28.4	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.429	3.434	-0.005	0	188014	29.3	
\$ 7 Toluene-d8 (Surr)	98	4.730	4.736	-0.006	99	661253	27.8	
\$ 8 4-Bromofluorobenzene (Surr	95	7.006	7.005	0.001	94	213502	31.0	
14 Vinyl chloride	62	1.348	1.348	0.000	98	17327	2.54	
25 Acetone	58	1.999	2.005	-0.006	84	3074	6.16	
45 cis-1,2-Dichloroethene	96	2.924	2.929	-0.005	92	1670	0.2617	

Reagents:

VOA_ISSS150_W_00015

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061745.D

Injection Date: 07-May-2017 07:59:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: 480-117063-A-8

Lab Sample ID: 490-117063-8

Worklist Smp#: 14

Client ID: MW-6

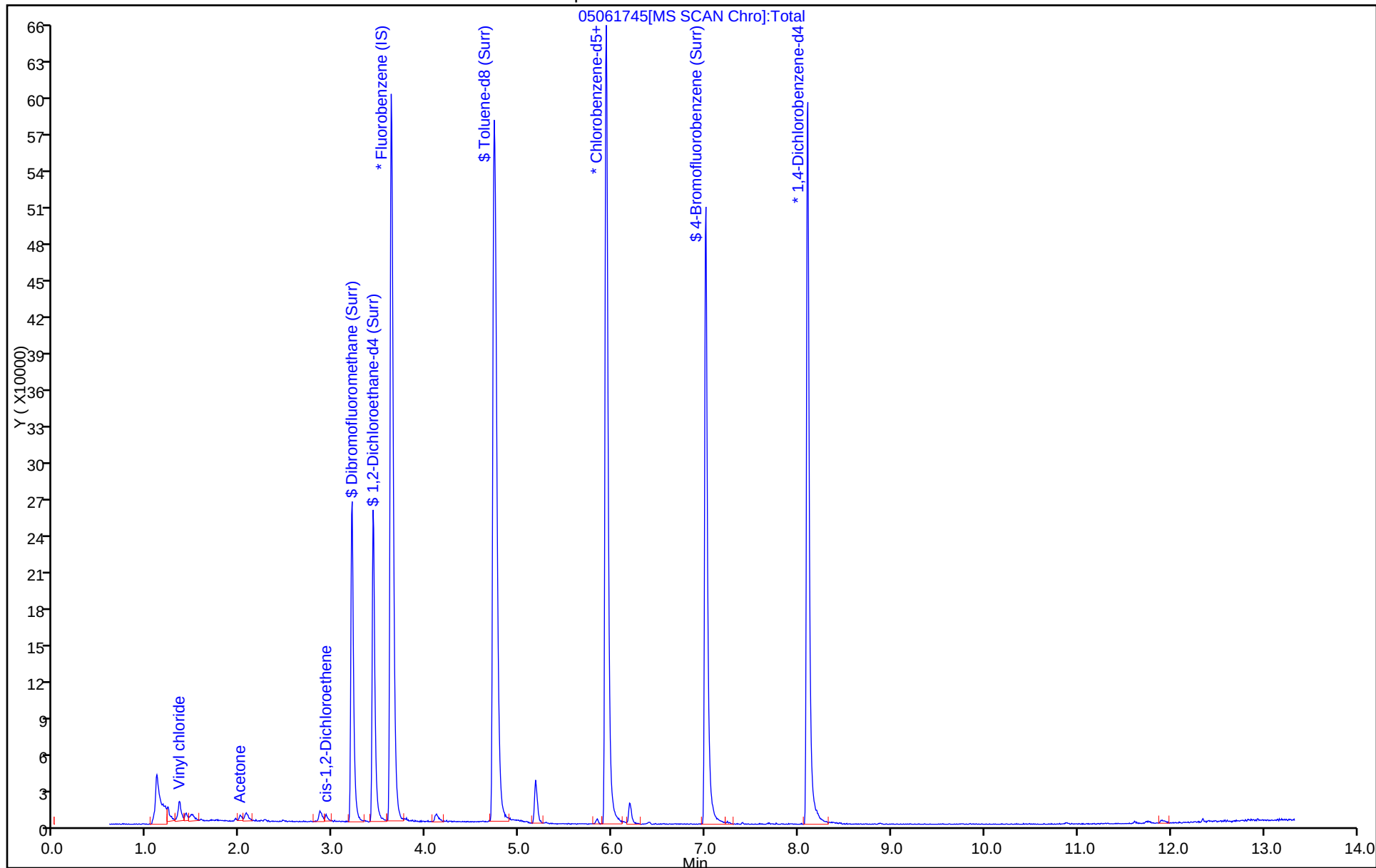
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 55

Method: 8260HP33

Limit Group: MSV 8260C ICAL



TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061745.D

Injection Date: 07-May-2017 07:59:30

Instrument ID: HP33

Lims ID: 480-117063-A-8

Lab Sample ID: 490-117063-8

Client ID: MW-6

Operator ID: JJR

ALS Bottle#: 55

Worklist Smp#: 14

Purge Vol: 5.000 mL

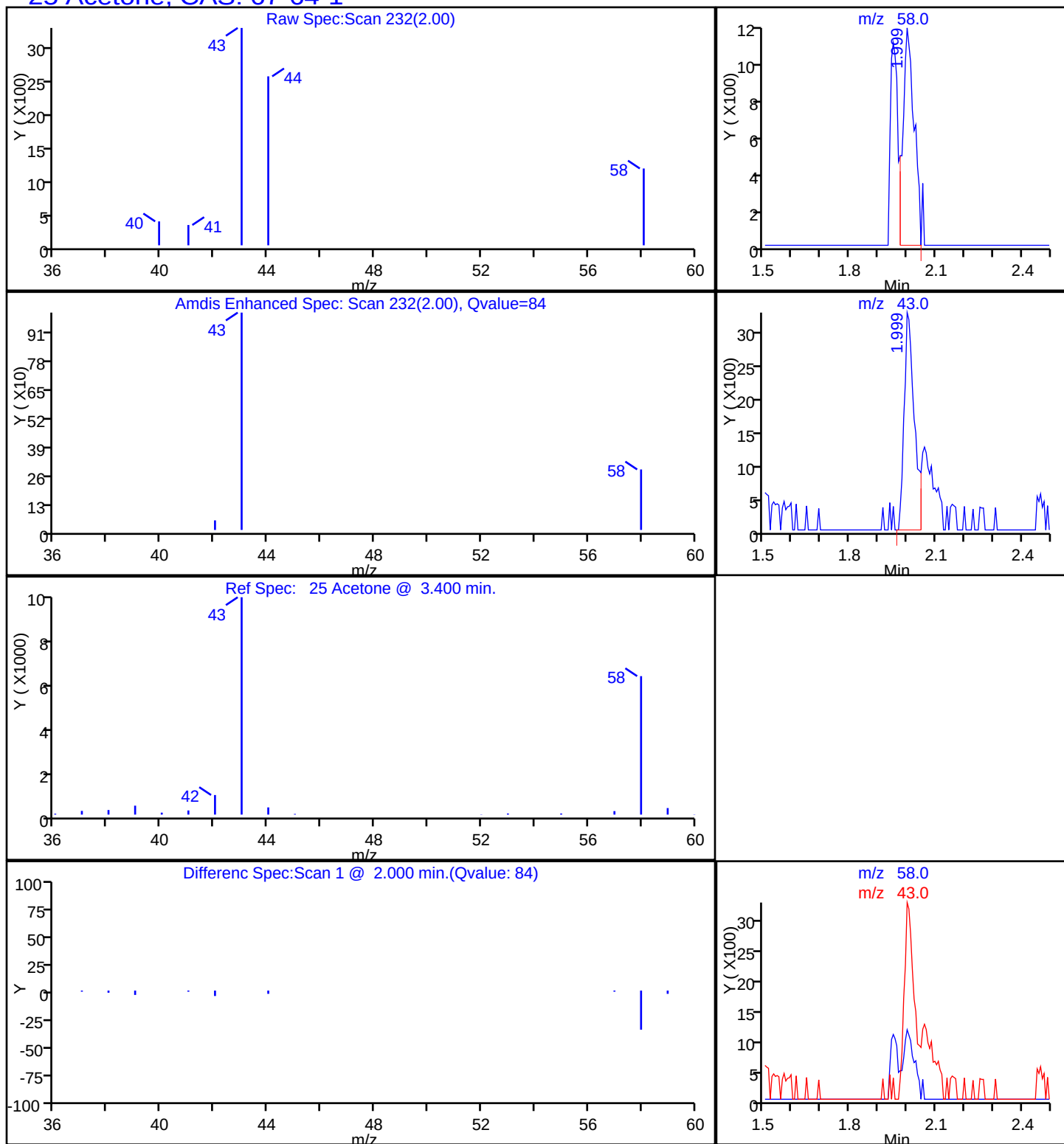
Dil. Factor: 1.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector MS SCAN

25 Acetone, CAS: 67-64-1

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061745.D

Injection Date: 07-May-2017 07:59:30

Instrument ID: HP33

Lims ID: 480-117063-A-8

Lab Sample ID: 490-117063-8

Client ID: MW-6

Operator ID: JJR

ALS Bottle#: 55

Worklist Smp#: 14

Purge Vol: 5.000 mL

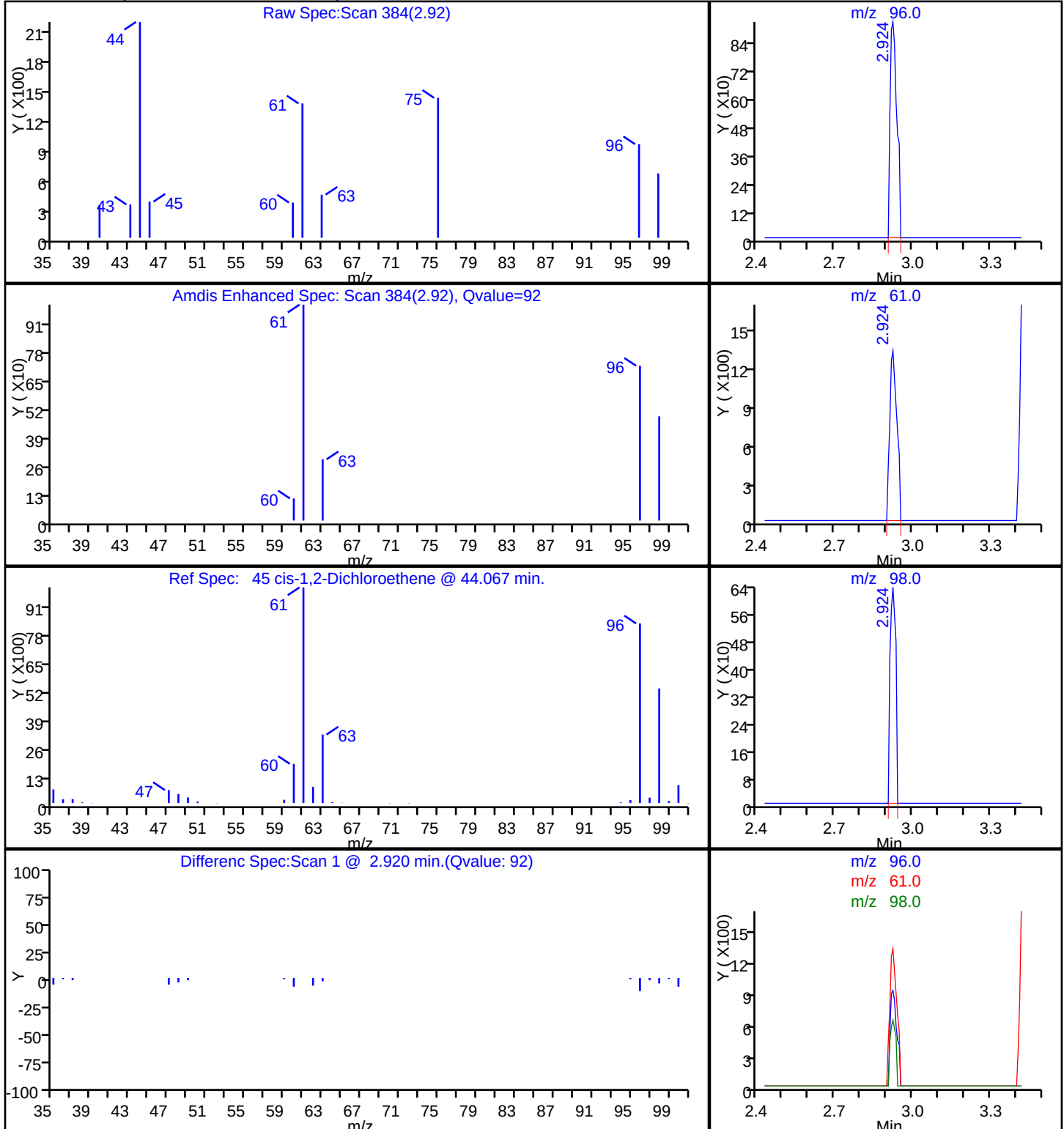
Dil. Factor: 1.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector MS SCAN

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

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061745.D

Injection Date: 07-May-2017 07:59:30

Instrument ID: HP33

Lims ID: 480-117063-A-8

Lab Sample ID: 490-117063-8

Client ID: MW-6

Operator ID: JJR

ALS Bottle#: 55

Worklist Smp#: 14

Purge Vol: 5.000 mL

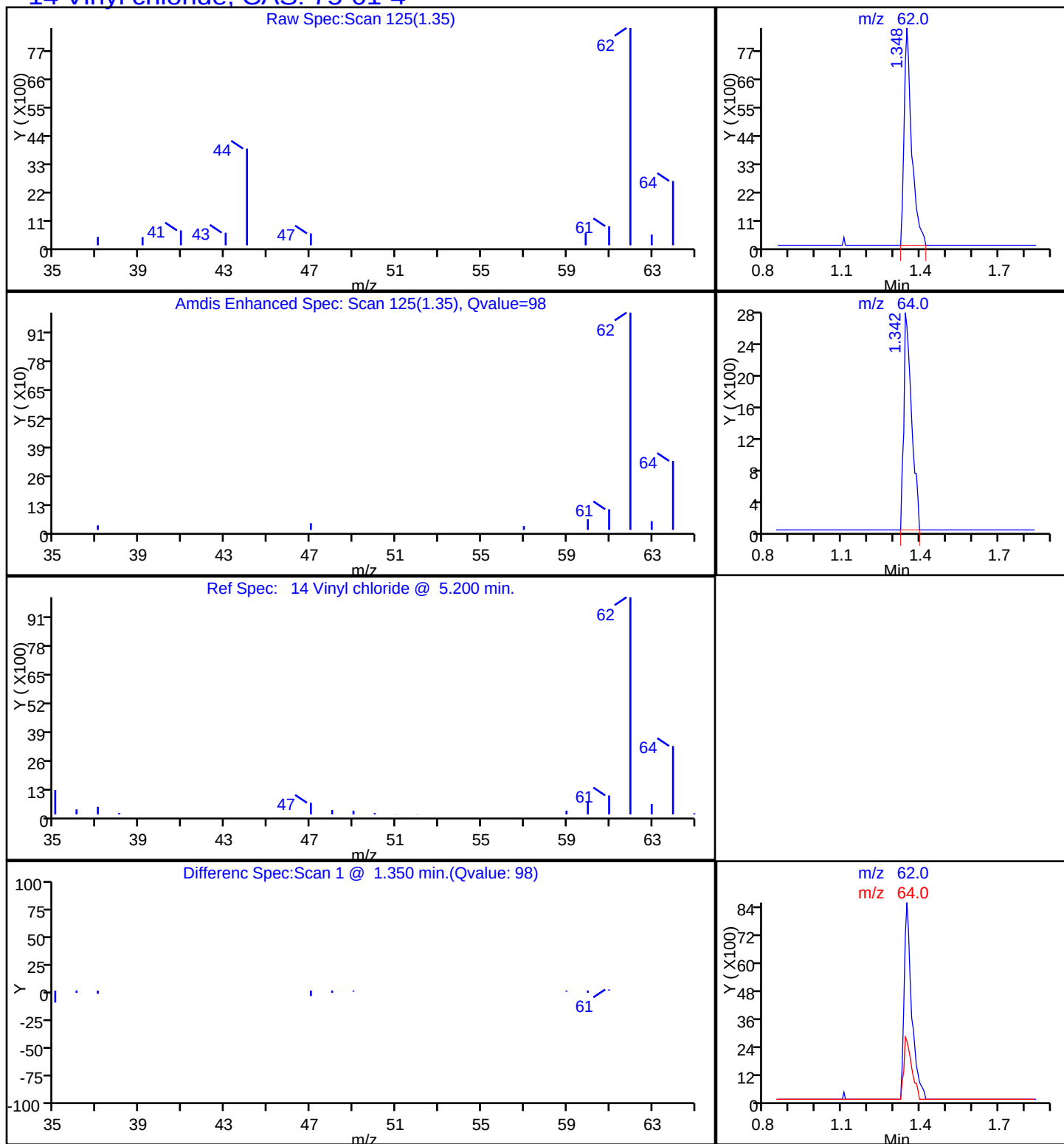
Dil. Factor: 1.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector MS SCAN

14 Vinyl chloride, CAS: 75-01-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Nashville</u>	Job No.: <u>480-117063-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-7</u>	Lab Sample ID: <u>480-117063-9</u>
Matrix: <u>Water</u>	Lab File ID: <u>05061746.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/25/2017 17:25</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>05/07/2017 08:26</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>428030</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.19
75-34-3	1,1-Dichloroethane	ND		1.0	0.24
75-35-4	1,1-Dichloroethene	ND		1.0	0.25
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	0.94
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.19
107-06-2	1,2-Dichloroethane	ND		1.0	0.20
78-87-5	1,2-Dichloropropane	ND		1.0	0.25
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.18
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.17
78-93-3	2-Butanone (MEK)	ND		50	2.6
591-78-6	2-Hexanone	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.81
67-64-1	Acetone	4.8	J	25	2.7
71-43-2	Benzene	ND		1.0	0.20
75-25-2	Bromoform	ND		1.0	0.29
74-83-9	Bromomethane	ND	*	1.0	0.35
75-15-0	Carbon disulfide	ND		1.0	0.22
56-23-5	Carbon tetrachloride	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.25
75-00-3	Chloroethane	ND		1.0	0.36
67-66-3	Chloroform	ND		1.0	0.23
74-87-3	Chloromethane	ND		1.0	0.36
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.21
110-82-7	Cyclohexane	ND		5.0	0.13
75-27-4	Bromodichloromethane	ND		1.0	0.17
75-71-8	Dichlorodifluoromethane	ND	*	1.0	0.17
100-41-4	Ethylbenzene	ND		1.0	0.19
106-93-4	1,2-Dibromoethane	ND		1.0	0.21
98-82-8	Isopropylbenzene	ND		1.0	0.33
79-20-9	Methyl acetate	ND		10	0.58

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Client Sample ID: MW-7 Lab Sample ID: 480-117063-9
 Matrix: Water Lab File ID: 05061746.D
 Analysis Method: 8260C Date Collected: 04/25/2017 17:25
 Sample wt/vol: 5 (mL) Date Analyzed: 05/07/2017 08:26
 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.: 428030 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.17
108-87-2	Methylcyclohexane	ND		5.0	0.090
75-09-2	Methylene Chloride	ND		5.0	1.0
127-18-4	Tetrachloroethene	ND		1.0	0.14
108-88-3	Toluene	ND		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.17
79-01-6	Trichloroethene	ND		1.0	0.20
75-69-4	Trichlorofluoromethane	ND		1.0	0.21
75-01-4	Vinyl chloride	ND		1.0	0.18
1330-20-7	Xylenes, Total	ND		3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.17
100-42-5	Styrene	ND		1.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
460-00-4	4-Bromofluorobenzene (Surr)	102		70-130
2037-26-5	Toluene-d8 (Surr)	94		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\05061746.D
 Lims ID: 480-117063-A-9
 Client ID: MW-7
 Sample Type: Client
 Inject. Date: 07-May-2017 08:26:30 ALS Bottle#: 56 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-117063-A-9
 Misc. Info.: 490-0090567-015
 Operator ID: JJR Instrument ID: HP33
 Method: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 08-May-2017 10:06:22 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: wanguns

Date: 08-May-2017 10:10:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.623	3.635	-0.012	98	660693	30.0	
* 2 Chlorobenzene-d5	117	5.935	5.941	-0.006	86	519723	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.100	8.100	0.000	95	216955	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.203	3.203	0.000	97	161152	29.1	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.428	3.434	-0.006	0	182491	29.7	
\$ 7 Toluene-d8 (Surr)	98	4.730	4.736	-0.006	99	647361	28.1	
\$ 8 4-Bromofluorobenzene (Surr	95	7.005	7.005	0.000	95	207476	30.5	
25 Acetone	58	2.005	2.005	0.000	90	2275	4.75	

Reagents:

VOA_ISSS150_W_00015

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061746.D

Injection Date: 07-May-2017 08:26:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: 480-117063-A-9

Lab Sample ID: 490-117063-9

Worklist Smp#: 15

Client ID: MW-7

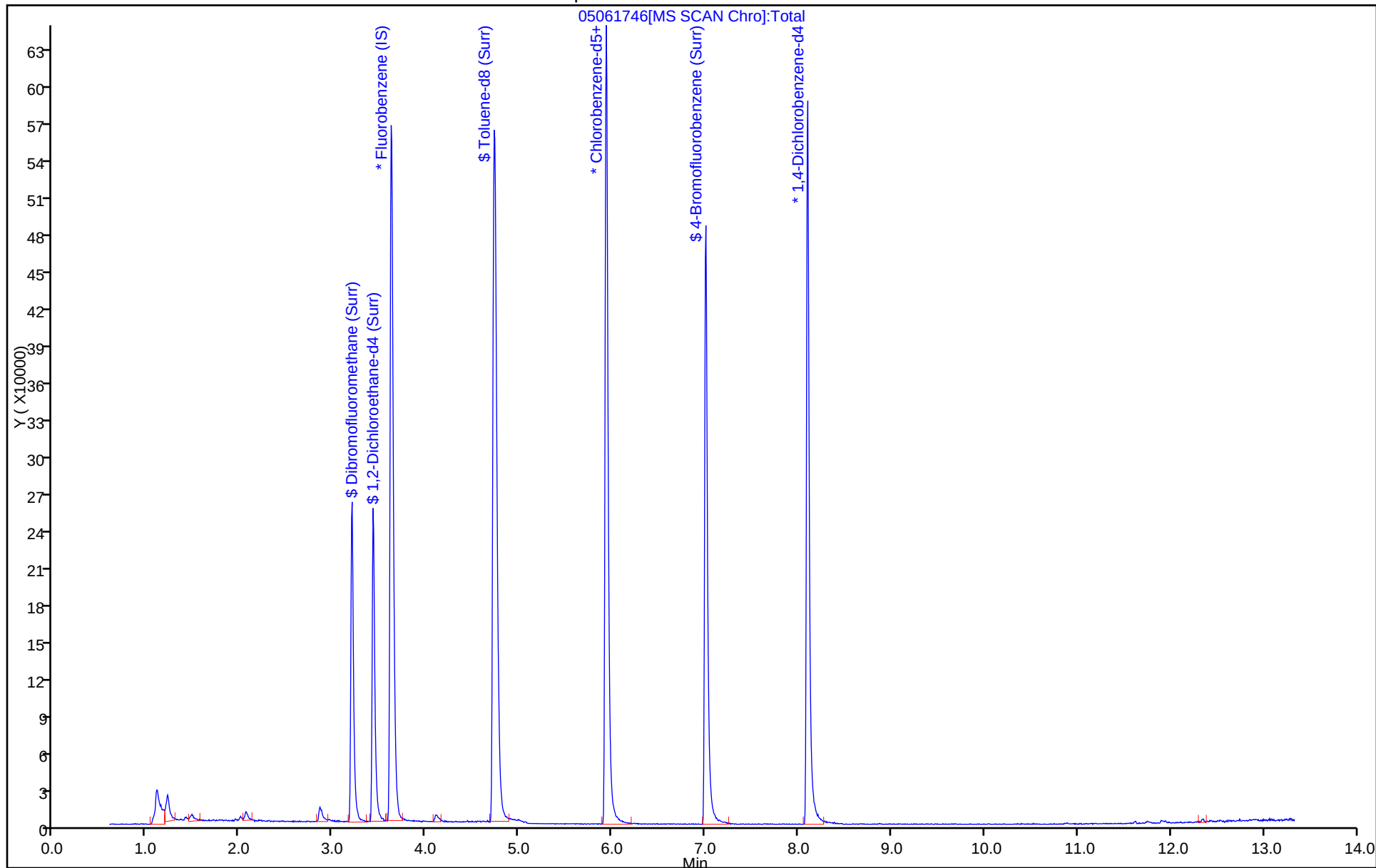
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 56

Method: 8260HP33

Limit Group: MSV 8260C ICAL



TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061746.D

Injection Date: 07-May-2017 08:26:30

Instrument ID: HP33

Lims ID: 480-117063-A-9

Lab Sample ID: 490-117063-9

Client ID: MW-7

Operator ID: JJR

ALS Bottle#: 56

Worklist Smp#: 15

Purge Vol: 5.000 mL

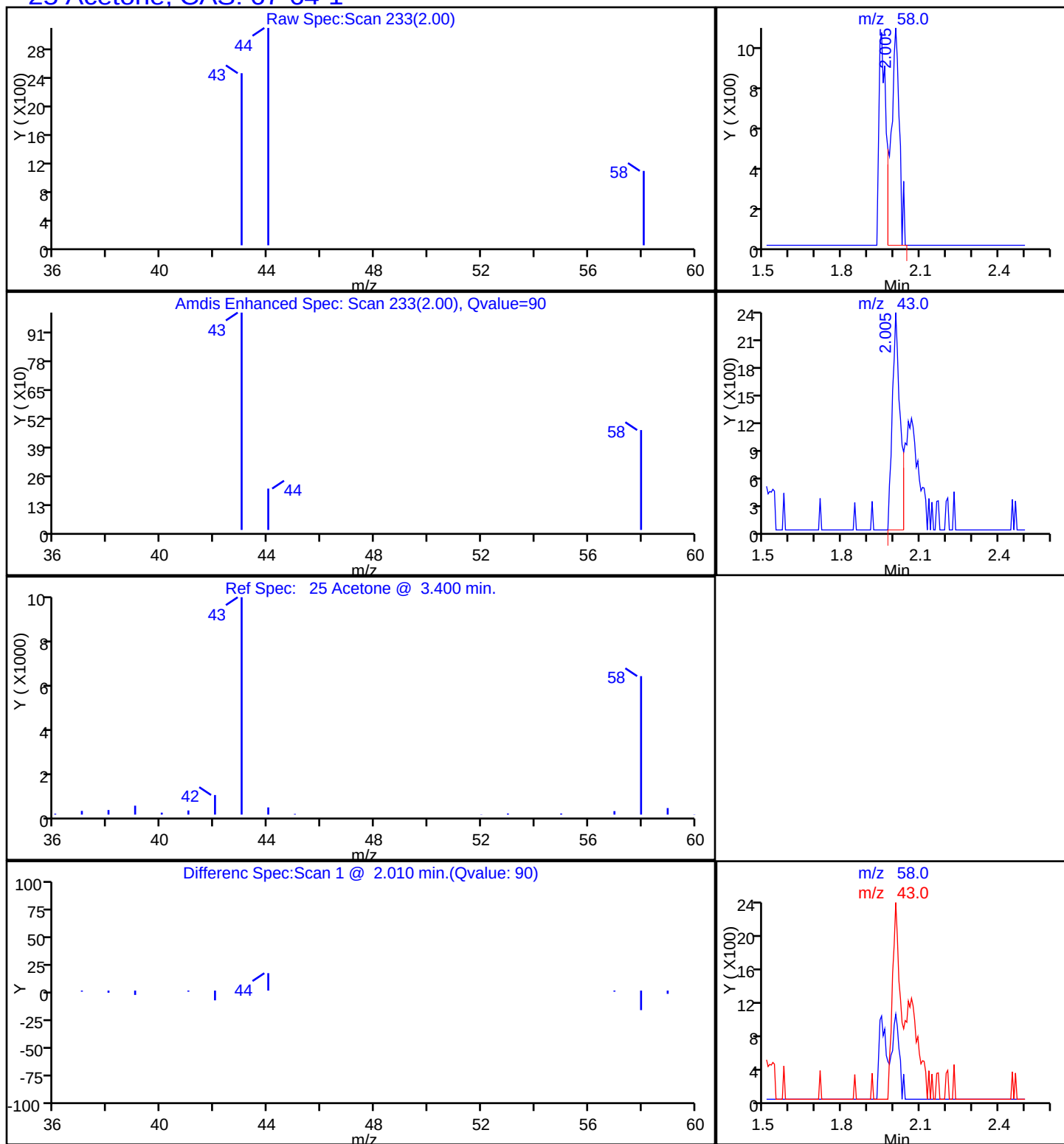
Dil. Factor: 1.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector MS SCAN

25 Acetone, CAS: 67-64-1

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Nashville</u>	Job No.: <u>480-117063-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-8</u>	Lab Sample ID: <u>480-117063-10</u>
Matrix: <u>Water</u>	Lab File ID: <u>05061747.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/26/2017 10:05</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>05/07/2017 08:53</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>428030</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.19
75-34-3	1,1-Dichloroethane	ND		1.0	0.24
75-35-4	1,1-Dichloroethene	ND		1.0	0.25
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	0.94
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.19
107-06-2	1,2-Dichloroethane	ND		1.0	0.20
78-87-5	1,2-Dichloropropane	ND		1.0	0.25
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.18
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.17
78-93-3	2-Butanone (MEK)	ND		50	2.6
591-78-6	2-Hexanone	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.81
67-64-1	Acetone	4.0	J	25	2.7
71-43-2	Benzene	ND		1.0	0.20
75-25-2	Bromoform	ND		1.0	0.29
74-83-9	Bromomethane	ND	*	1.0	0.35
75-15-0	Carbon disulfide	ND		1.0	0.22
56-23-5	Carbon tetrachloride	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.25
75-00-3	Chloroethane	ND		1.0	0.36
67-66-3	Chloroform	ND		1.0	0.23
74-87-3	Chloromethane	ND		1.0	0.36
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.21
110-82-7	Cyclohexane	ND		5.0	0.13
75-27-4	Bromodichloromethane	ND		1.0	0.17
75-71-8	Dichlorodifluoromethane	ND	*	1.0	0.17
100-41-4	Ethylbenzene	ND		1.0	0.19
106-93-4	1,2-Dibromoethane	ND		1.0	0.21
98-82-8	Isopropylbenzene	ND		1.0	0.33
79-20-9	Methyl acetate	ND		10	0.58

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Client Sample ID: MW-8 Lab Sample ID: 480-117063-10
 Matrix: Water Lab File ID: 05061747.D
 Analysis Method: 8260C Date Collected: 04/26/2017 10:05
 Sample wt/vol: 5 (mL) Date Analyzed: 05/07/2017 08:53
 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.: 428030 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.17
108-87-2	Methylcyclohexane	ND		5.0	0.090
75-09-2	Methylene Chloride	ND		5.0	1.0
127-18-4	Tetrachloroethene	ND		1.0	0.14
108-88-3	Toluene	ND		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.17
79-01-6	Trichloroethene	ND		1.0	0.20
75-69-4	Trichlorofluoromethane	ND		1.0	0.21
75-01-4	Vinyl chloride	ND		1.0	0.18
1330-20-7	Xylenes, Total	ND		3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.17
100-42-5	Styrene	ND		1.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-130
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	92		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\05061747.D
 Lims ID: 480-117063-A-10
 Client ID: MW-8
 Sample Type: Client
 Inject. Date: 07-May-2017 08:53:30 ALS Bottle#: 57 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-117063-A-10
 Misc. Info.: 490-0090567-016
 Operator ID: JJR Instrument ID: HP33
 Method: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 08-May-2017 10:06:22 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: wanguns

Date: 08-May-2017 10:11:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.623	3.635	-0.012	99	656241	30.0	
* 2 Chlorobenzene-d5	117	5.935	5.941	-0.006	86	520153	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.101	8.100	0.001	95	221026	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.203	3.203	0.000	97	159269	29.0	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.429	3.434	-0.006	0	186026	30.5	
\$ 7 Toluene-d8 (Surr)	98	4.736	4.736	0.000	99	638284	27.7	
\$ 8 4-Bromofluorobenzene (Surr	95	7.006	7.005	0.001	95	208488	30.1	
25 Acetone	58	2.005	2.005	0.000	89	1883	3.96	

Reagents:

VOA_ISSS150_W_00015

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061747.D

Injection Date: 07-May-2017 08:53:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: 480-117063-A-10

Lab Sample ID: 490-117063-10

Worklist Smp#: 16

Client ID: MW-8

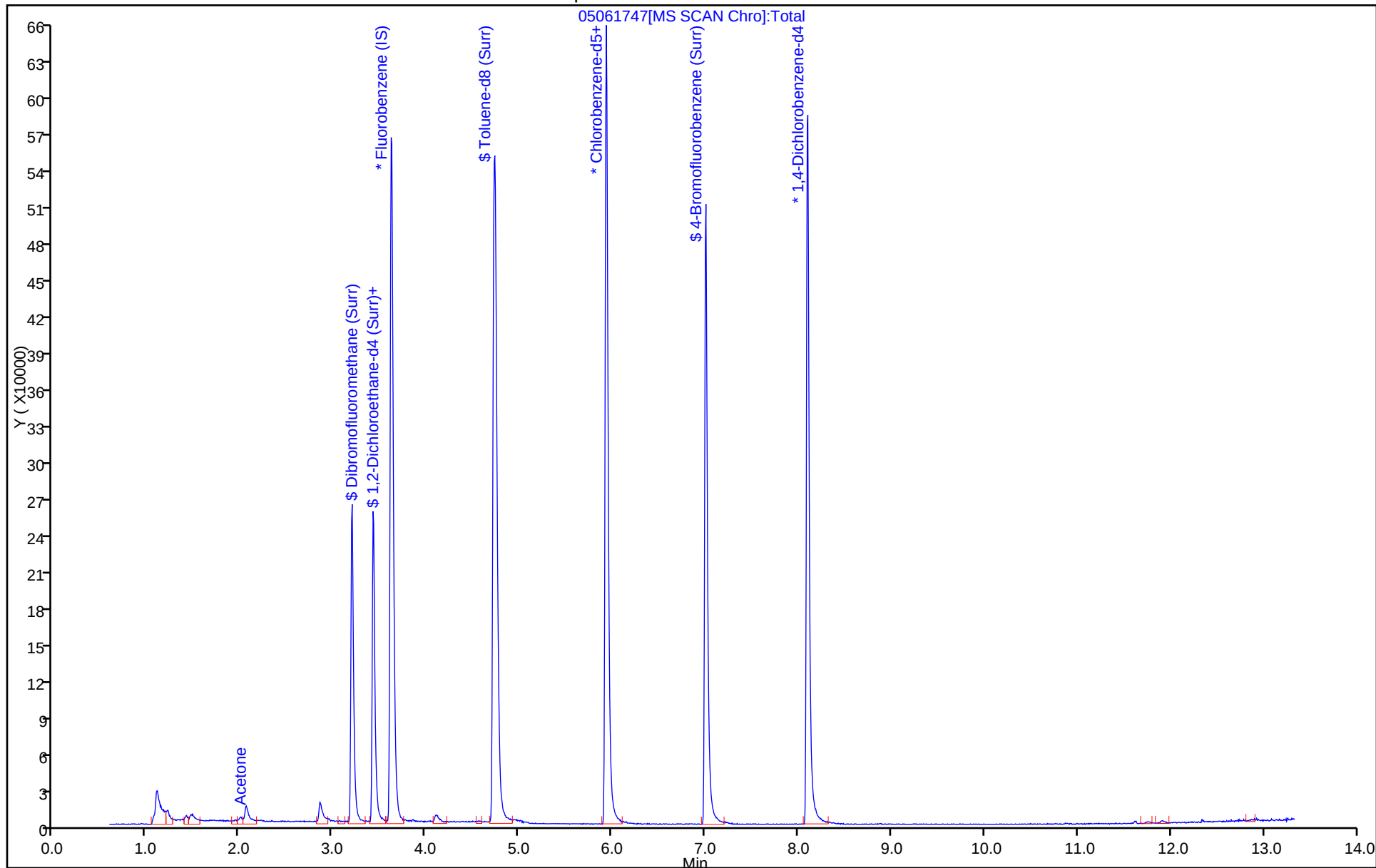
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 57

Method: 8260HP33

Limit Group: MSV 8260C ICAL



TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061747.D

Injection Date: 07-May-2017 08:53:30

Instrument ID: HP33

Lims ID: 480-117063-A-10

Lab Sample ID: 490-117063-10

Client ID: MW-8

Operator ID: JJR

ALS Bottle#: 57

Worklist Smp#: 16

Purge Vol: 5.000 mL

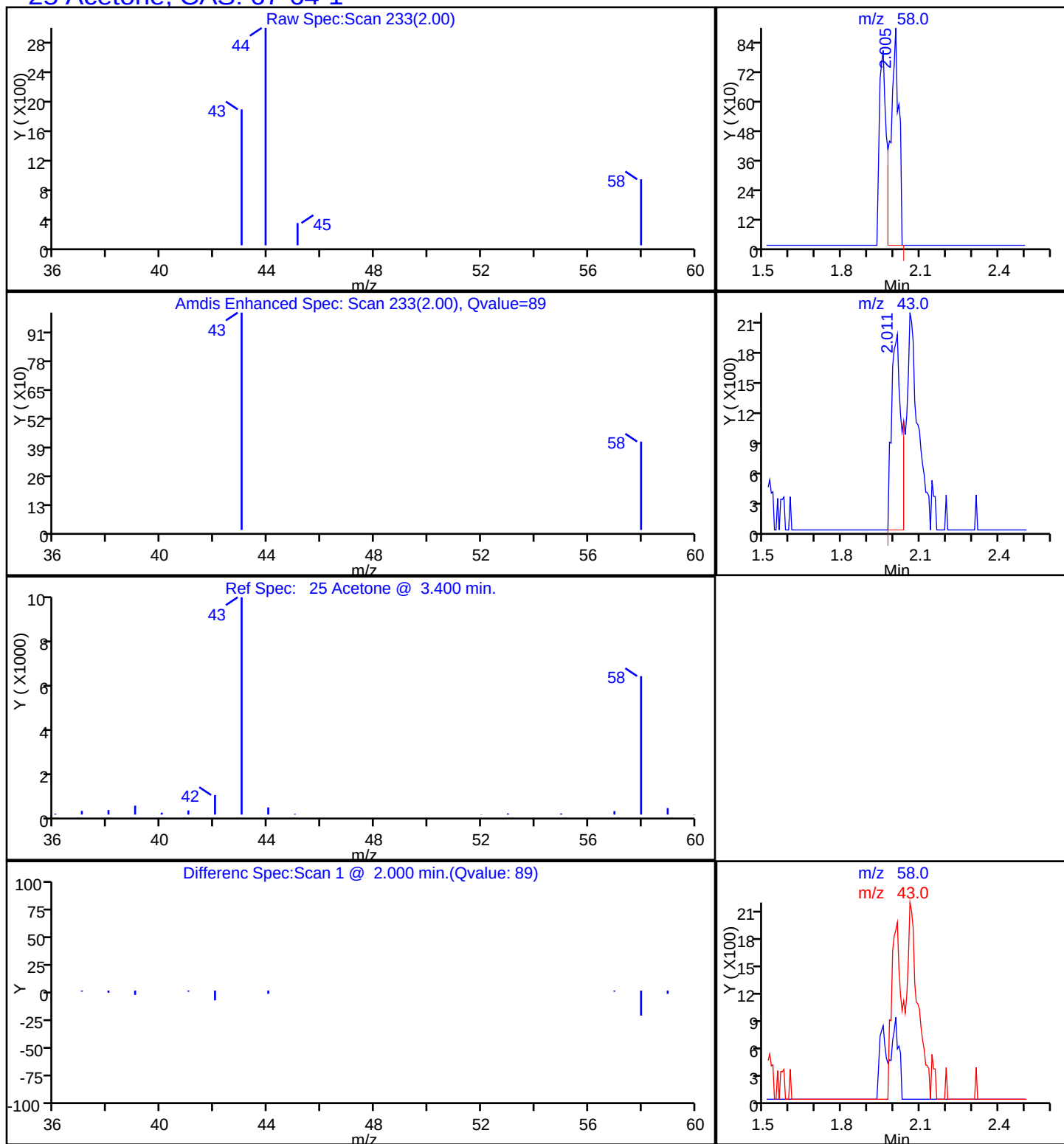
Dil. Factor: 1.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector MS SCAN

25 Acetone, CAS: 67-64-1

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Nashville</u>	Job No.: <u>480-117063-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-9R</u>	Lab Sample ID: <u>480-117063-11</u>
Matrix: <u>Water</u>	Lab File ID: <u>05091713.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/27/2017 09:45</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>05/09/2017 15:32</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>25</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>428592</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		25	4.8
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	4.8
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25	3.8
79-00-5	1,1,2-Trichloroethane	ND		25	4.8
75-34-3	1,1-Dichloroethane	ND		25	6.0
75-35-4	1,1-Dichloroethene	11	J	25	6.3
120-82-1	1,2,4-Trichlorobenzene	ND		25	5.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		250	24
95-50-1	1,2-Dichlorobenzene	ND		25	4.8
107-06-2	1,2-Dichloroethane	ND		25	5.0
78-87-5	1,2-Dichloropropane	ND		25	6.3
541-73-1	1,3-Dichlorobenzene	ND		25	4.5
106-46-7	1,4-Dichlorobenzene	ND		25	4.3
78-93-3	2-Butanone (MEK)	ND		1300	66
591-78-6	2-Hexanone	ND		250	32
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	20
67-64-1	Acetone	ND		630	67
71-43-2	Benzene	ND		25	5.0
75-25-2	Bromoform	ND		25	7.3
74-83-9	Bromomethane	ND		25	8.8
75-15-0	Carbon disulfide	ND		25	5.5
56-23-5	Carbon tetrachloride	ND		25	4.5
108-90-7	Chlorobenzene	ND		25	4.5
124-48-1	Dibromochloromethane	ND		25	6.3
75-00-3	Chloroethane	ND		25	9.0
67-66-3	Chloroform	ND		25	5.8
74-87-3	Chloromethane	ND		25	9.0
156-59-2	cis-1,2-Dichloroethene	3800		25	5.3
110-82-7	Cyclohexane	ND		130	3.3
75-27-4	Bromodichloromethane	ND		25	4.3
75-71-8	Dichlorodifluoromethane	ND	*	25	4.3
100-41-4	Ethylbenzene	ND		25	4.8
106-93-4	1,2-Dibromoethane	ND		25	5.3
98-82-8	Isopropylbenzene	ND		25	8.3
79-20-9	Methyl acetate	ND		250	15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Client Sample ID: MW-9R Lab Sample ID: 480-117063-11
 Matrix: Water Lab File ID: 05091713.D
 Analysis Method: 8260C Date Collected: 04/27/2017 09:45
 Sample wt/vol: 5 (mL) Date Analyzed: 05/09/2017 15:32
 Soil Aliquot Vol: _____ Dilution Factor: 25
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 428592 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		25	4.3
108-87-2	Methylcyclohexane	ND		130	2.3
75-09-2	Methylene Chloride	ND		130	25
127-18-4	Tetrachloroethene	ND		25	3.5
108-88-3	Toluene	ND		25	4.3
156-60-5	trans-1,2-Dichloroethene	33		25	5.8
10061-02-6	trans-1,3-Dichloropropene	ND		25	4.3
79-01-6	Trichloroethene	2600		25	5.0
75-69-4	Trichlorofluoromethane	ND	*	25	5.3
75-01-4	Vinyl chloride	400		25	4.5
1330-20-7	Xylenes, Total	ND		75	15
10061-01-5	cis-1,3-Dichloropropene	ND		25	4.3
100-42-5	Styrene	ND		25	7.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
460-00-4	4-Bromofluorobenzene (Surr)	103		70-130
2037-26-5	Toluene-d8 (Surr)	90		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20170509-90669.b\05091713.D
 Lims ID: 480-117063-A-11
 Client ID: MW-9R
 Sample Type: Client
 Inject. Date: 09-May-2017 15:32:30 ALS Bottle#: 13 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 25.0000
 Sample Info: 480-117063-A-11
 Misc. Info.: 490-0090669-013
 Operator ID: JJR Instrument ID: HP33
 Method: \\ChromNA\Nashville\ChromData\HP33\20170509-90669.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 10-May-2017 10:47:49 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: chumongkolratn

Date: 10-May-2017 10:47:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.617	3.623	-0.006	98	858224	30.0	
* 2 Chlorobenzene-d5	117	5.935	5.929	0.007	86	694826	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.101	8.094	0.007	95	285755	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.204	3.209	-0.005	97	210228	29.2	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.435	3.434	0.001	0	240601	30.1	
\$ 7 Toluene-d8 (Surr)	98	4.725	4.724	0.001	99	834743	27.1	
\$ 8 4-Bromofluorobenzene (Surr	95	7.000	6.999	0.001	95	276966	30.9	
14 Vinyl chloride	62	1.361	1.360	0.001	98	135800	16.0	
24 1,1-Dichloroethene	96	1.957	1.956	0.001	95	2878	0.4582	
33 Methylene Chloride	84	2.230	2.230	0.000	87	4477	0.5471	
36 trans-1,2-Dichloroethene	61	2.346	2.345	0.001	93	13366	1.32	
45 cis-1,2-Dichloroethene	96	2.924	2.929	-0.005	98	1201264	151.1	
65 Trichloroethene	130	3.855	3.854	0.001	96	816560	104.2	

Reagents:

VOA_ISSS150_W_00015

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170509-90669.b\\05091713.D

Injection Date: 09-May-2017 15:32:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: 480-117063-A-11

Lab Sample ID: 490-117063-11

Worklist Smp#: 13

Client ID: MW-9R

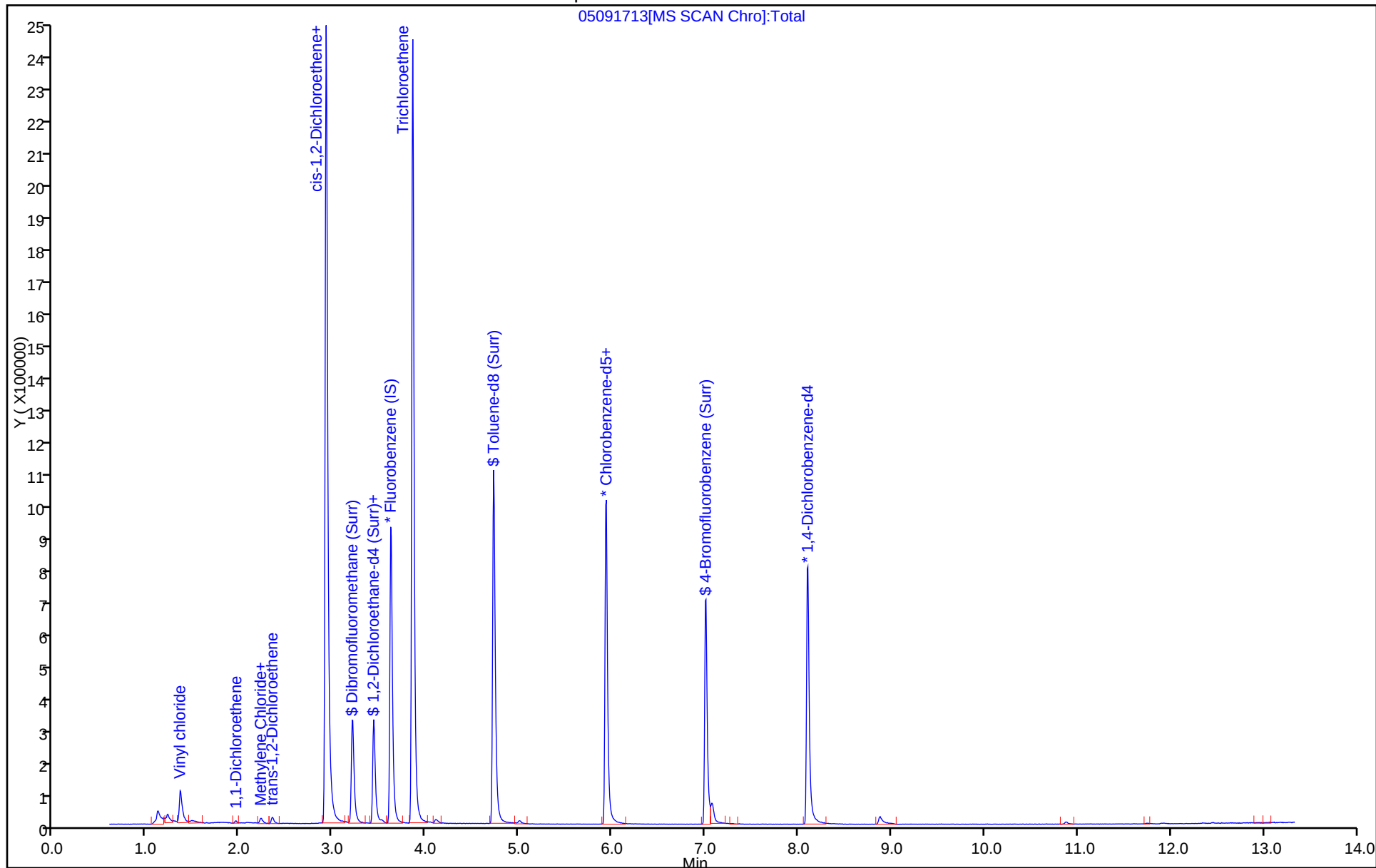
Purge Vol: 5.000 mL

Dil. Factor: 25.0000

ALS Bottle#: 13

Method: 8260HP33

Limit Group: MSV 8260C ICAL



TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170509-90669.b\\05091713.D

Injection Date: 09-May-2017 15:32:30

Instrument ID: HP33

Lims ID: 480-117063-A-11

Lab Sample ID: 490-117063-11

Client ID: MW-9R

Operator ID: JJR

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 5.000 mL

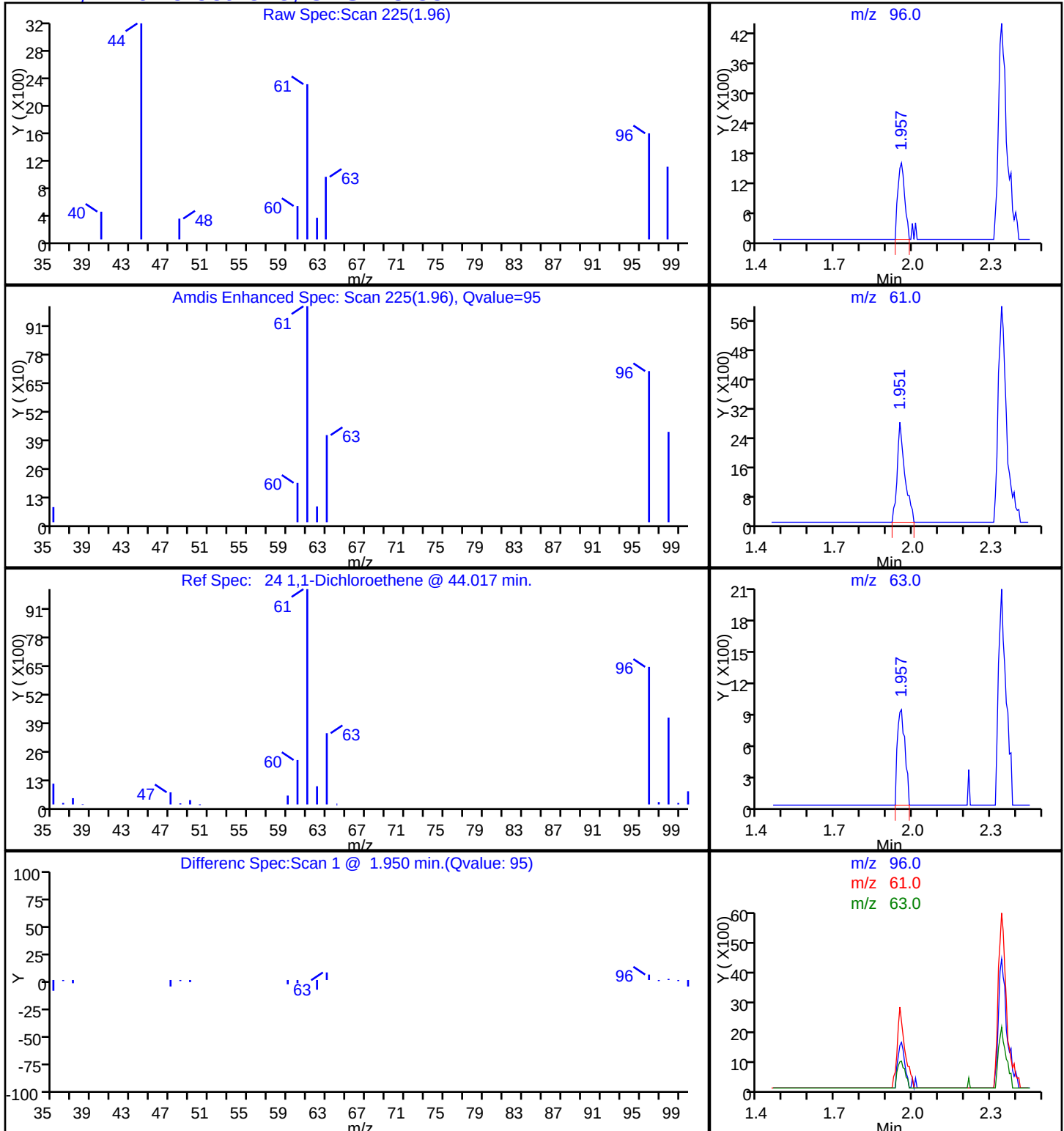
Dil. Factor: 25.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector MS SCAN

24 1,1-Dichloroethene, CAS: 75-35-4

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170509-90669.b\\05091713.D

Injection Date: 09-May-2017 15:32:30

Instrument ID: HP33

Lims ID: 480-117063-A-11

Lab Sample ID: 490-117063-11

Client ID: MW-9R

Operator ID: JJR

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 25.0000

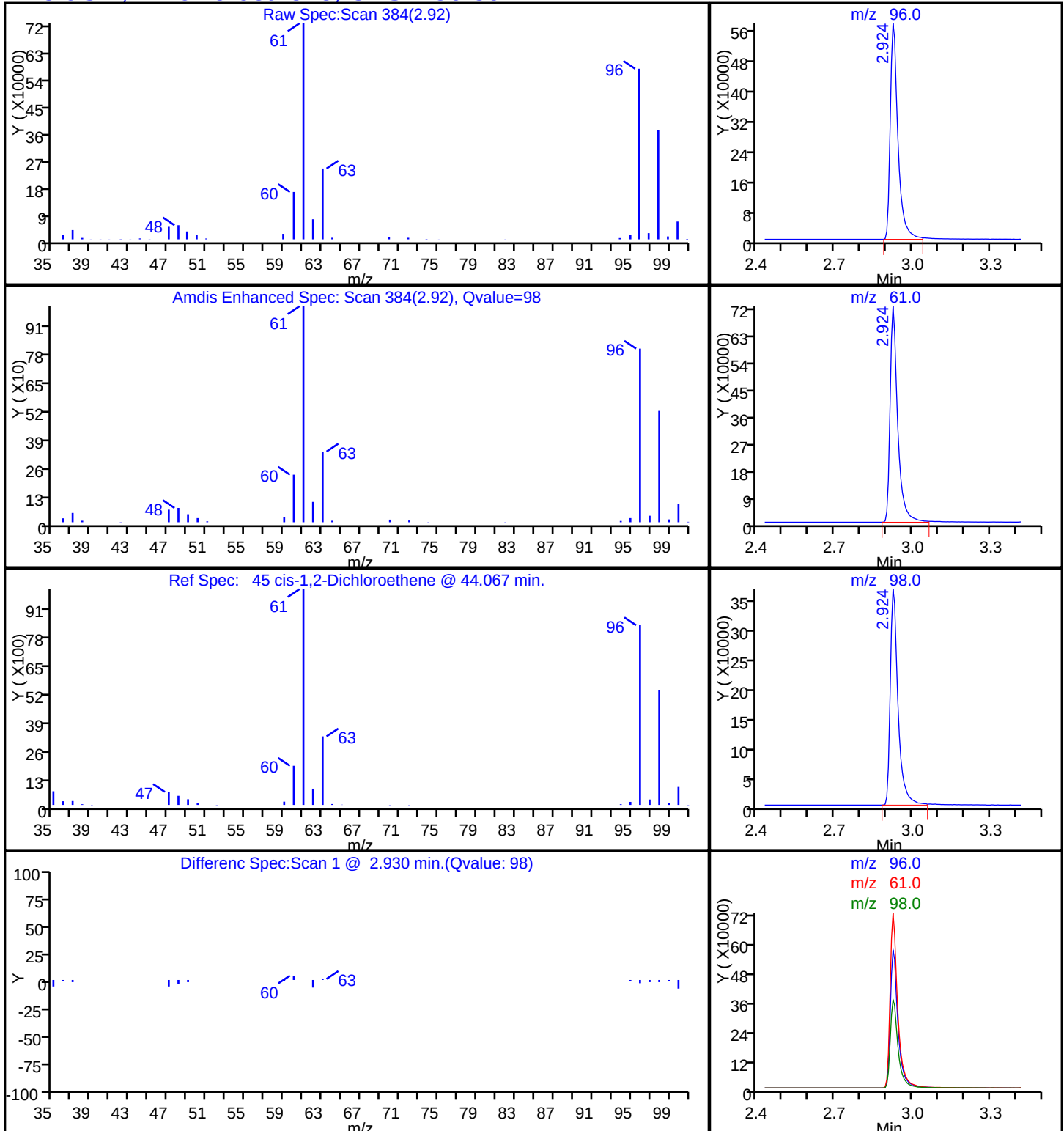
Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector

MS SCAN

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

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170509-90669.b\\05091713.D

Injection Date: 09-May-2017 15:32:30

Instrument ID: HP33

Lims ID: 480-117063-A-11

Lab Sample ID: 490-117063-11

Client ID: MW-9R

Operator ID: JJR

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 5.000 mL

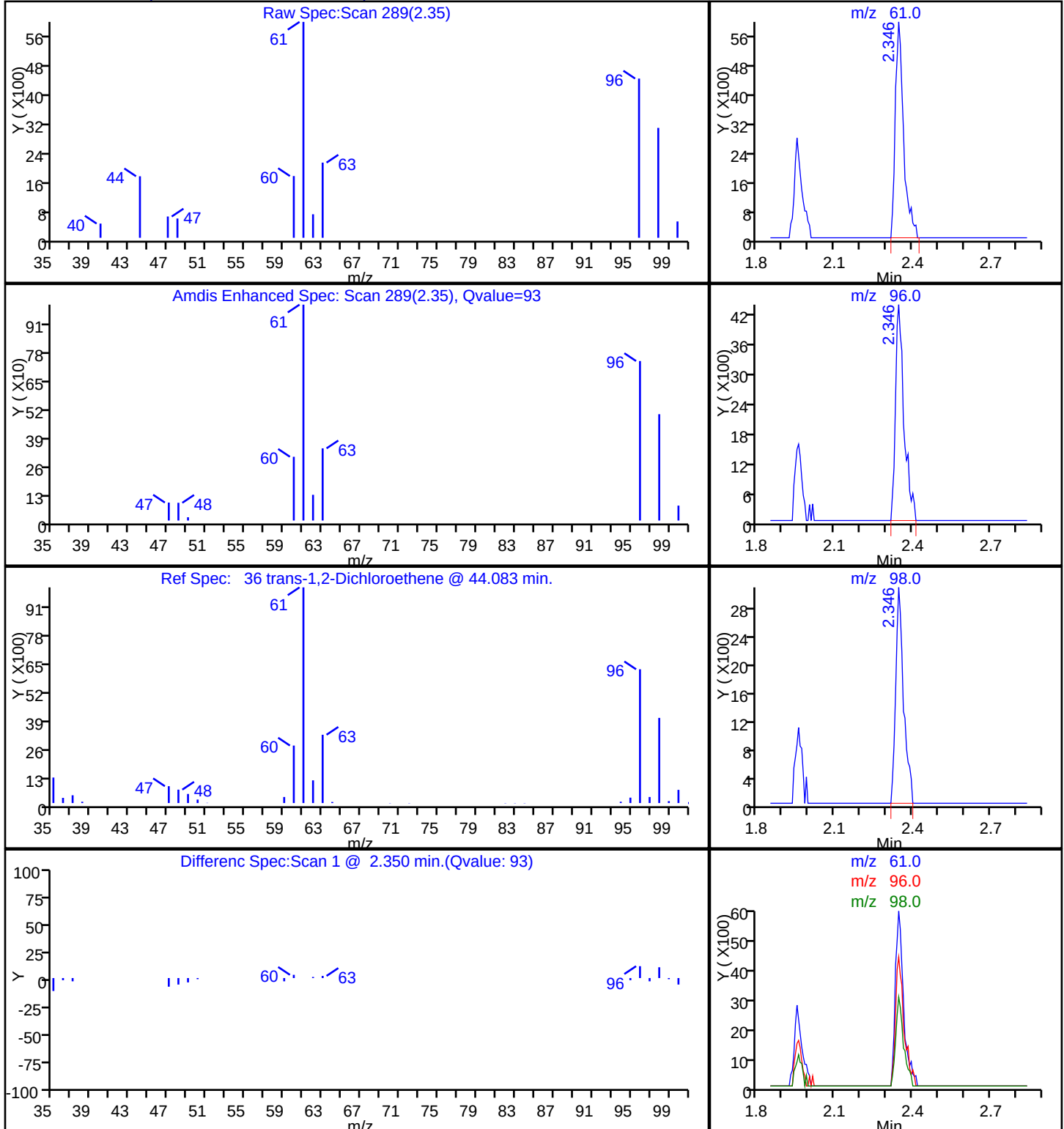
Dil. Factor: 25.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector MS SCAN

36 trans-1,2-Dichloroethene, CAS: 156-60-5

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170509-90669.b\\05091713.D

Injection Date: 09-May-2017 15:32:30

Instrument ID: HP33

Lims ID: 480-117063-A-11

Lab Sample ID: 490-117063-11

Client ID: MW-9R

Operator ID: JJR

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 5.000 mL

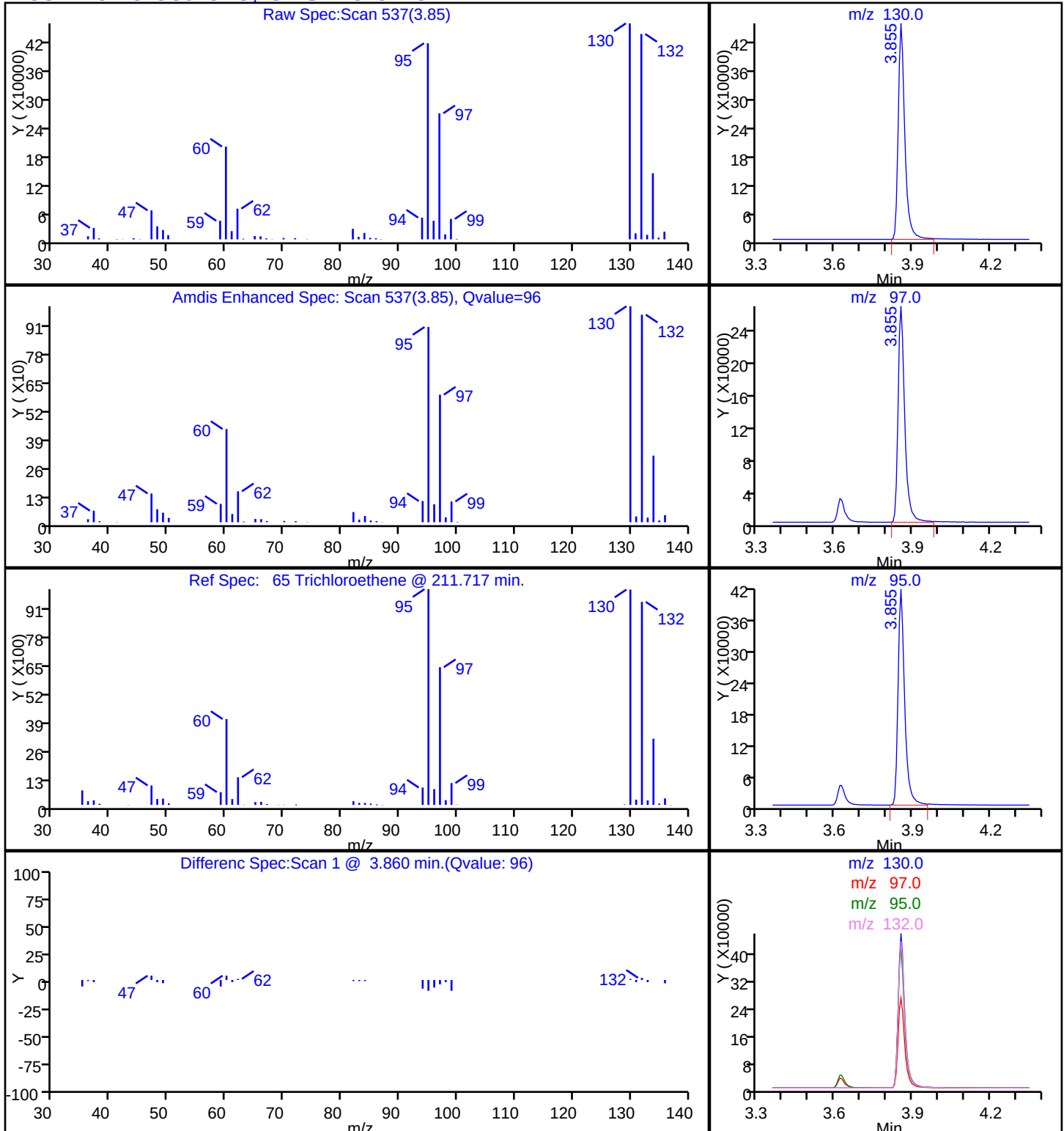
Dil. Factor: 25.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector: MS SCAN

65 Trichloroethene, CAS: 79-01-6

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170509-90669.b\\05091713.D

Injection Date: 09-May-2017 15:32:30

Instrument ID: HP33

Lims ID: 480-117063-A-11

Lab Sample ID: 490-117063-11

Client ID: MW-9R

Operator ID: JJR

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 5.000 mL

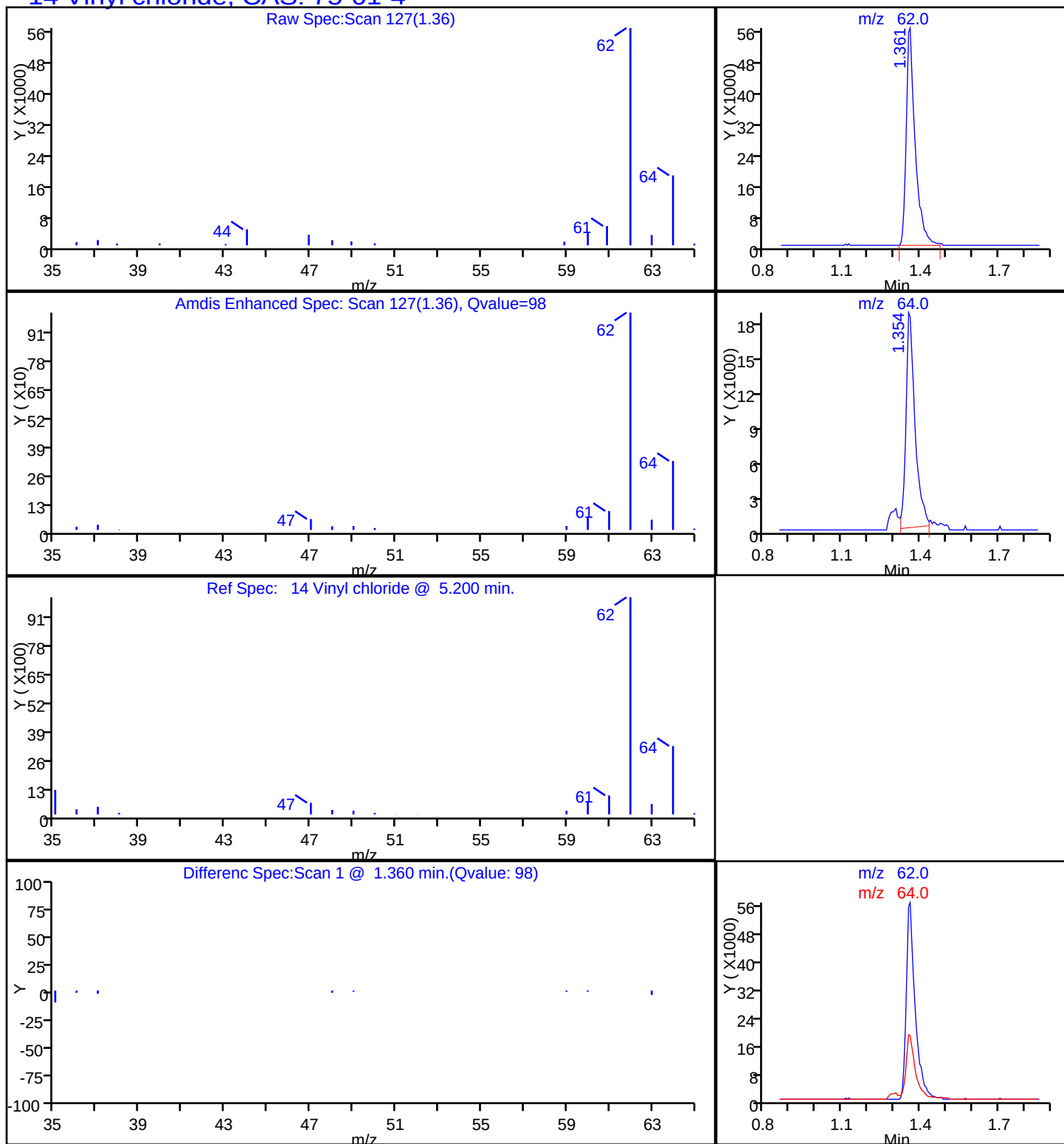
Dil. Factor: 25.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector MS SCAN

14 Vinyl chloride, CAS: 75-01-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Nashville</u>	Job No.: <u>480-117063-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-10</u>	Lab Sample ID: <u>480-117063-12</u>
Matrix: <u>Water</u>	Lab File ID: <u>05061748.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/24/2017 15:50</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>05/07/2017 09:20</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>428030</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.19
75-34-3	1,1-Dichloroethane	ND		1.0	0.24
75-35-4	1,1-Dichloroethene	ND		1.0	0.25
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	0.94
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.19
107-06-2	1,2-Dichloroethane	ND		1.0	0.20
78-87-5	1,2-Dichloropropane	ND		1.0	0.25
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.18
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.17
78-93-3	2-Butanone (MEK)	ND		50	2.6
591-78-6	2-Hexanone	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.81
67-64-1	Acetone	ND		25	2.7
71-43-2	Benzene	ND		1.0	0.20
75-25-2	Bromoform	ND		1.0	0.29
74-83-9	Bromomethane	ND	*	1.0	0.35
75-15-0	Carbon disulfide	ND		1.0	0.22
56-23-5	Carbon tetrachloride	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.25
75-00-3	Chloroethane	ND		1.0	0.36
67-66-3	Chloroform	ND		1.0	0.23
74-87-3	Chloromethane	ND		1.0	0.36
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.21
110-82-7	Cyclohexane	ND		5.0	0.13
75-27-4	Bromodichloromethane	ND		1.0	0.17
75-71-8	Dichlorodifluoromethane	ND	*	1.0	0.17
100-41-4	Ethylbenzene	ND		1.0	0.19
106-93-4	1,2-Dibromoethane	ND		1.0	0.21
98-82-8	Isopropylbenzene	ND		1.0	0.33
79-20-9	Methyl acetate	ND		10	0.58

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Client Sample ID: MW-10 Lab Sample ID: 480-117063-12
 Matrix: Water Lab File ID: 05061748.D
 Analysis Method: 8260C Date Collected: 04/24/2017 15:50
 Sample wt/vol: 5 (mL) Date Analyzed: 05/07/2017 09:20
 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.: 428030 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.17
108-87-2	Methylcyclohexane	ND		5.0	0.090
75-09-2	Methylene Chloride	ND		5.0	1.0
127-18-4	Tetrachloroethene	ND		1.0	0.14
108-88-3	Toluene	ND		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.17
79-01-6	Trichloroethene	ND		1.0	0.20
75-69-4	Trichlorofluoromethane	ND		1.0	0.21
75-01-4	Vinyl chloride	ND		1.0	0.18
1330-20-7	Xylenes, Total	ND		3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.17
100-42-5	Styrene	ND		1.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-130
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	94		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\05061748.D
 Lims ID: 480-117063-A-12
 Client ID: MW-10
 Sample Type: Client
 Inject. Date: 07-May-2017 09:20:30 ALS Bottle#: 58 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-117063-A-12
 Misc. Info.: 490-0090567-017
 Operator ID: JJR Instrument ID: HP33
 Method: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 08-May-2017 10:06:22 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: wanguns

Date: 08-May-2017 10:11:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.620	3.635	-0.015	99	662701	30.0	
* 2 Chlorobenzene-d5	117	5.932	5.941	-0.009	86	512071	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.097	8.100	-0.003	95	217302	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.206	3.203	0.003	97	166830	30.1	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.437	3.434	0.003	0	189356	30.7	
\$ 7 Toluene-d8 (Surr)	98	4.721	4.736	-0.015	99	640383	28.3	
\$ 8 4-Bromofluorobenzene (Surr	95	7.002	7.005	-0.003	95	204222	29.9	
25 Acetone	58	2.014	2.005	0.009	91	1183	2.46	

Reagents:

VOA_ISSS150_W_00015

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061748.D

Injection Date: 07-May-2017 09:20:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: 480-117063-A-12

Lab Sample ID: 490-117063-12

Worklist Smp#: 17

Client ID: MW-10

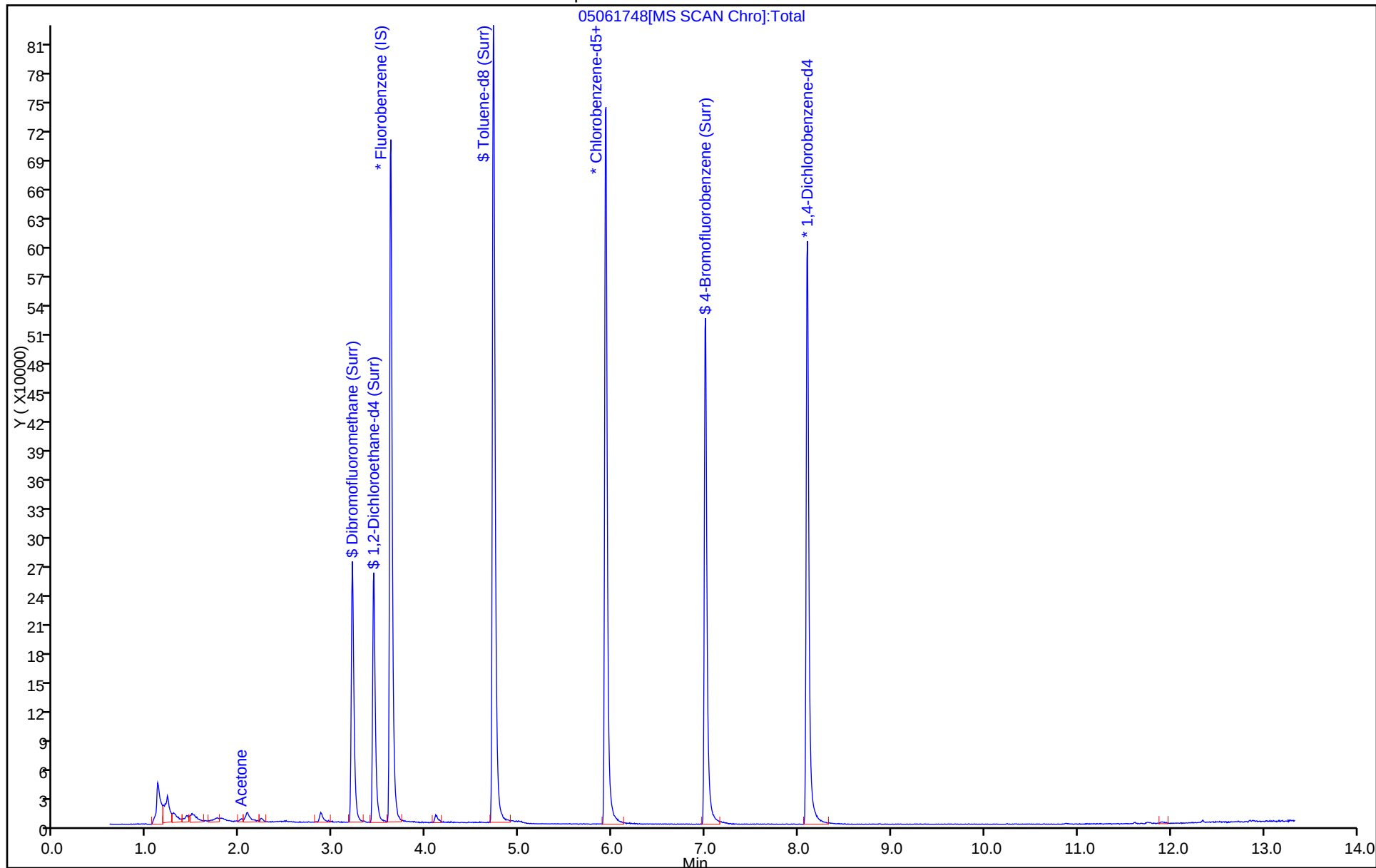
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 58

Method: 8260HP33

Limit Group: MSV 8260C ICAL



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Nashville</u>	Job No.: <u>480-117063-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-11R</u>	Lab Sample ID: <u>480-117063-13</u>
Matrix: <u>Water</u>	Lab File ID: <u>05061752.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/24/2017 13:55</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>05/07/2017 11:09</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>5</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>428030</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	0.95
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	0.95
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	0.75
79-00-5	1,1,2-Trichloroethane	ND		5.0	0.95
75-34-3	1,1-Dichloroethane	ND		5.0	1.2
75-35-4	1,1-Dichloroethene	15		5.0	1.3
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	1.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		50	4.7
95-50-1	1,2-Dichlorobenzene	ND		5.0	0.95
107-06-2	1,2-Dichloroethane	ND		5.0	1.0
78-87-5	1,2-Dichloropropane	ND		5.0	1.3
541-73-1	1,3-Dichlorobenzene	ND		5.0	0.90
106-46-7	1,4-Dichlorobenzene	ND		5.0	0.85
78-93-3	2-Butanone (MEK)	ND		250	13
591-78-6	2-Hexanone	ND		50	6.4
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	4.1
67-64-1	Acetone	ND		130	13
71-43-2	Benzene	ND		5.0	1.0
75-25-2	Bromoform	ND		5.0	1.5
74-83-9	Bromomethane	ND	*	5.0	1.8
75-15-0	Carbon disulfide	ND		5.0	1.1
56-23-5	Carbon tetrachloride	ND		5.0	0.90
108-90-7	Chlorobenzene	ND		5.0	0.90
124-48-1	Dibromochloromethane	ND		5.0	1.3
75-00-3	Chloroethane	ND		5.0	1.8
67-66-3	Chloroform	ND		5.0	1.2
74-87-3	Chloromethane	ND		5.0	1.8
110-82-7	Cyclohexane	ND		25	0.65
75-27-4	Bromodichloromethane	ND		5.0	0.85
75-71-8	Dichlorodifluoromethane	ND	*	5.0	0.85
100-41-4	Ethylbenzene	ND		5.0	0.95
106-93-4	1,2-Dibromoethane	ND		5.0	1.1
98-82-8	Isopropylbenzene	ND		5.0	1.7
79-20-9	Methyl acetate	ND		50	2.9
1634-04-4	Methyl tert-butyl ether	ND		5.0	0.85

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Nashville</u>	Job No.: <u>480-117063-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-11R</u>	Lab Sample ID: <u>480-117063-13</u>
Matrix: <u>Water</u>	Lab File ID: <u>05061752.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/24/2017 13:55</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>05/07/2017 11:09</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>5</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>428030</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-87-2	Methylcyclohexane	ND		25	0.45
75-09-2	Methylene Chloride	ND		25	5.0
127-18-4	Tetrachloroethene	3.3	J	5.0	0.70
108-88-3	Toluene	ND		5.0	0.85
156-60-5	trans-1,2-Dichloroethene	43		5.0	1.2
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	0.85
75-69-4	Trichlorofluoromethane	ND		5.0	1.1
75-01-4	Vinyl chloride	16		5.0	0.90
1330-20-7	Xylenes, Total	ND		15	2.9
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	0.85
100-42-5	Styrene	ND		5.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-130
460-00-4	4-Bromofluorobenzene (Surr)	103		70-130
2037-26-5	Toluene-d8 (Surr)	91		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\05061752.D
 Lims ID: 480-117063-A-13
 Client ID: MW-11R
 Sample Type: Client
 Inject. Date: 07-May-2017 11:09:30 ALS Bottle#: 62 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-117063-A-13
 Misc. Info.: 490-0090567-021
 Operator ID: JJR Instrument ID: HP33
 Method: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 08-May-2017 10:19:38 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: wanguns

Date: 08-May-2017 10:23:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.617	3.635	-0.019	98	656358	30.0	
* 2 Chlorobenzene-d5	117	5.928	5.941	-0.013	86	532716	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.094	8.100	-0.006	95	214764	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.209	3.203	0.006	97	162854	29.6	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.434	3.434	0.000	0	188496	30.9	
\$ 7 Toluene-d8 (Surr)	98	4.724	4.736	-0.012	99	642607	27.3	
\$ 8 4-Bromofluorobenzene (Surr	95	6.999	7.005	-0.006	95	208331	30.9	
14 Vinyl chloride	62	1.360	1.348	0.012	98	21018	3.23	
24 1,1-Dichloroethene	96	1.956	1.950	0.006	97	14016	2.92	
25 Acetone	58	2.010	2.005	0.005	85	676	1.42	
33 Methylene Chloride	84	2.223	2.224	-0.001	89	1845	0.2948	
36 trans-1,2-Dichloroethene	61	2.345	2.339	0.006	95	67244	8.67	
45 cis-1,2-Dichloroethene	96	2.923	2.929	-0.006	96	6683918	1099.0	E
65 Trichloroethene	130	3.860	3.860	0.000	84	11462962	1913.5	EM
78 Toluene	91	4.772	4.791	-0.019	92	3136	0.1180	
82 Tetrachloroethene	166	5.198	5.205	-0.007	95	4558	0.6593	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

Reagents:

VOA_ISSS150_W_00015

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061752.D

Injection Date: 07-May-2017 11:09:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: 480-117063-A-13

Lab Sample ID: 490-117063-13

Worklist Smp#: 21

Client ID: MW-11R

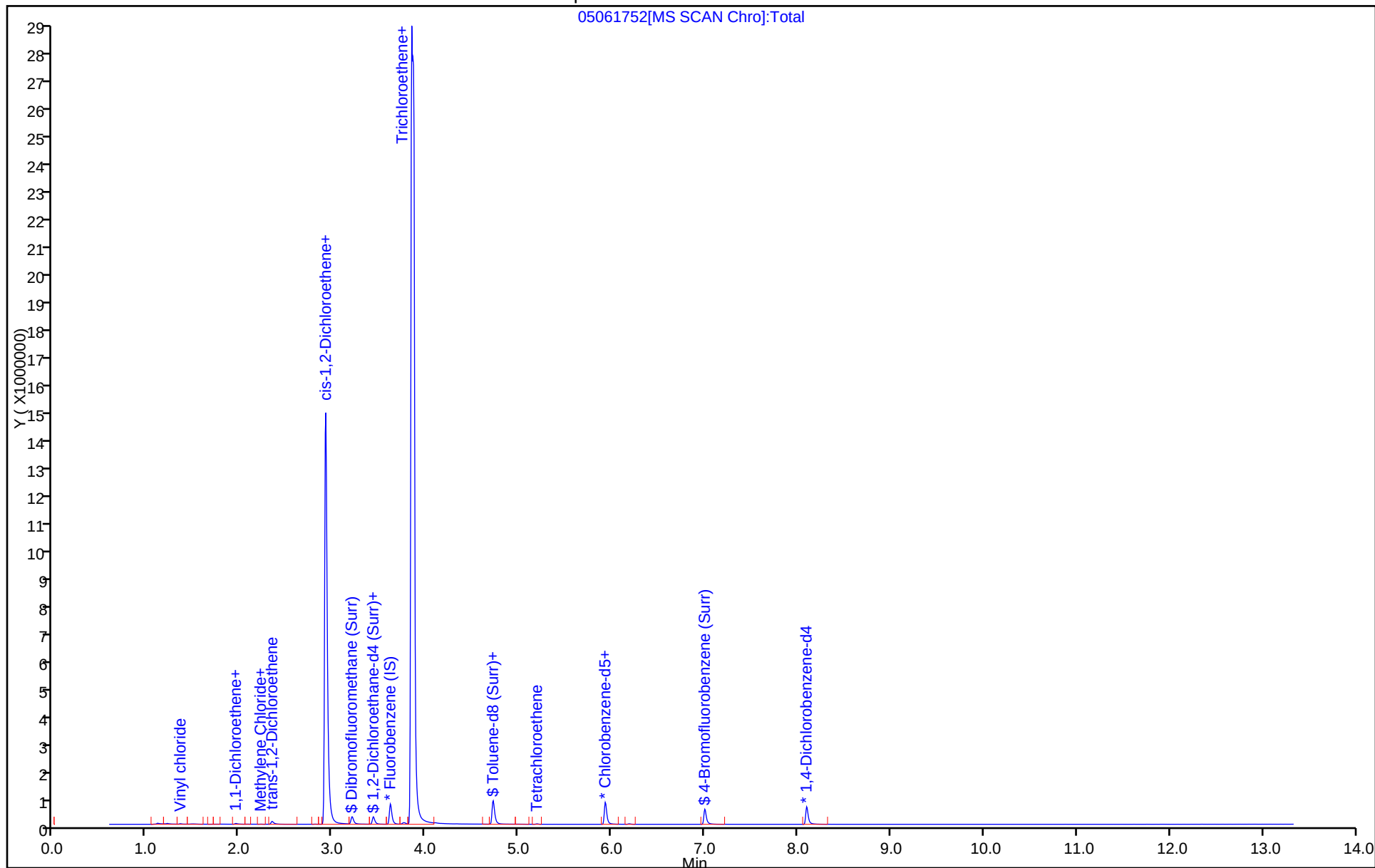
Purge Vol: 5.000 mL

Dil. Factor: 5.0000

ALS Bottle#: 62

Method: 8260HP33

Limit Group: MSV 8260C ICAL



TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061752.D

Injection Date: 07-May-2017 11:09:30

Instrument ID: HP33

Lims ID: 480-117063-A-13

Lab Sample ID: 490-117063-13

Client ID: MW-11R

Operator ID: JJR

ALS Bottle#: 62

Worklist Smp#: 21

Purge Vol: 5.000 mL

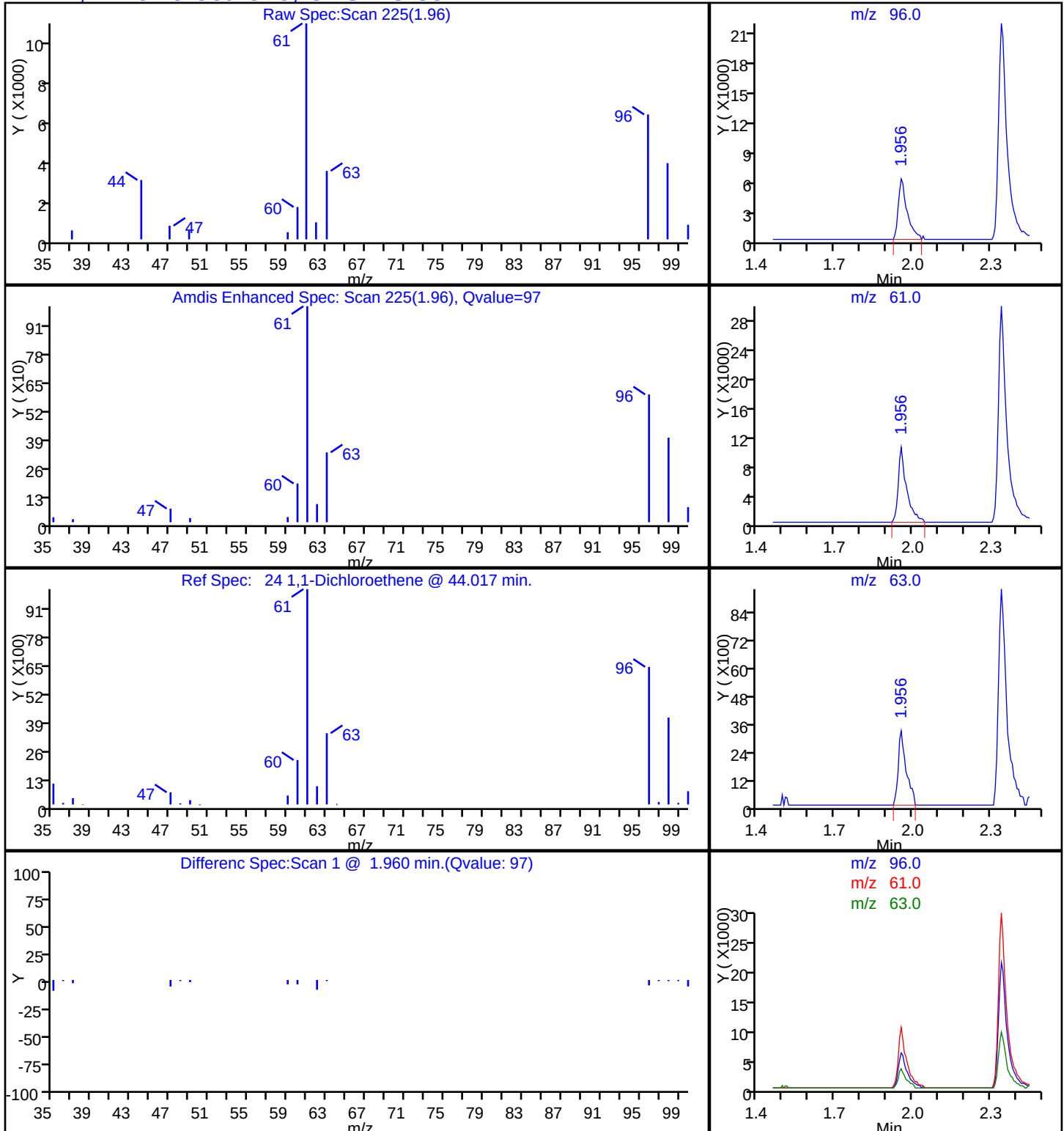
Dil. Factor: 5.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector MS SCAN

24 1,1-Dichloroethene, CAS: 75-35-4

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061752.D

Injection Date: 07-May-2017 11:09:30

Instrument ID: HP33

Lims ID: 480-117063-A-13

Lab Sample ID: 490-117063-13

Client ID: MW-11R

Operator ID: JJR

ALS Bottle#: 62

Worklist Smp#: 21

Purge Vol: 5.000 mL

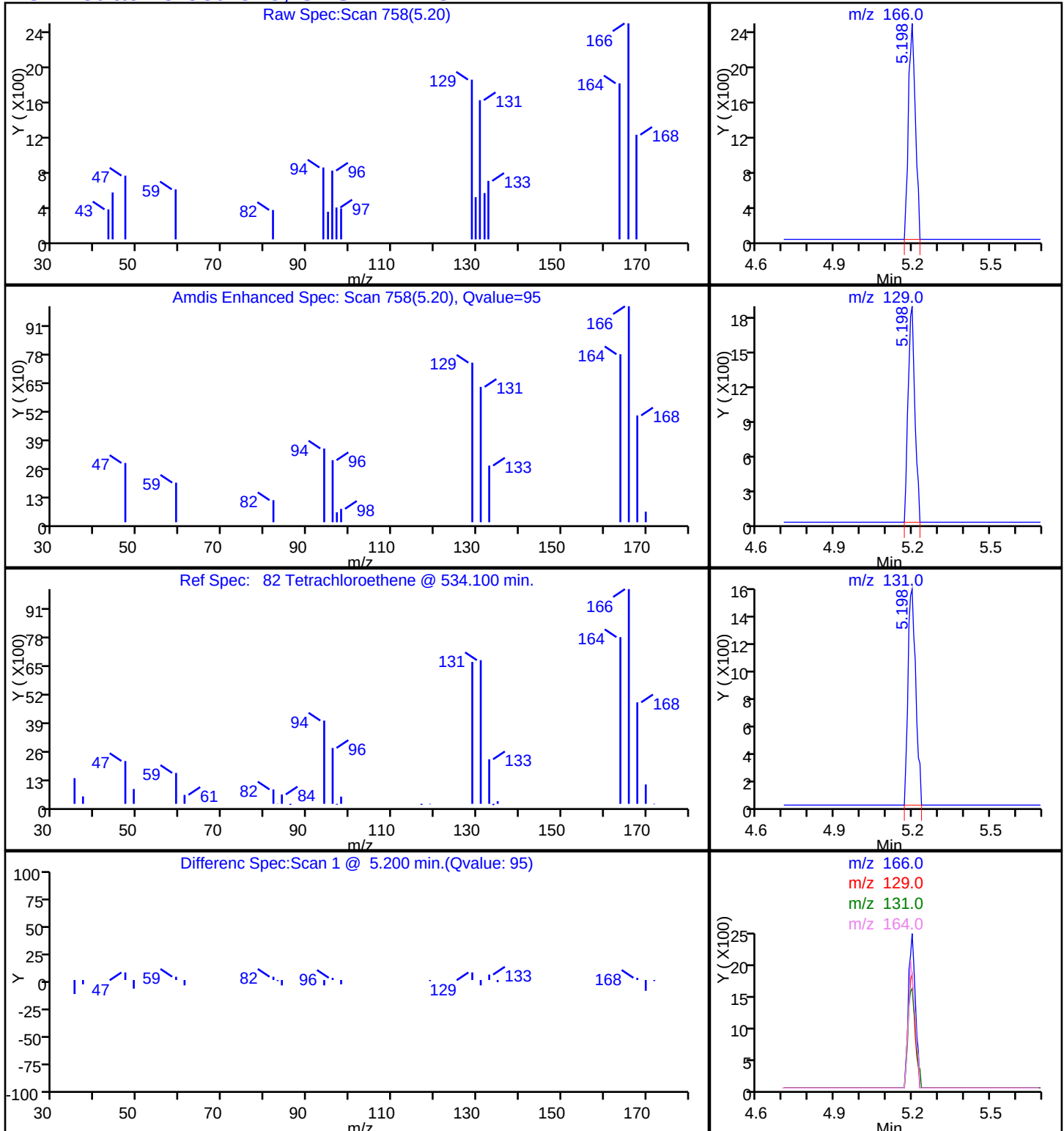
Dil. Factor: 5.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector MS SCAN

82 Tetrachloroethene, CAS: 127-18-4

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061752.D

Injection Date: 07-May-2017 11:09:30

Instrument ID: HP33

Lims ID: 480-117063-A-13

Lab Sample ID: 490-117063-13

Client ID: MW-11R

Operator ID: JJR

ALS Bottle#: 62

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

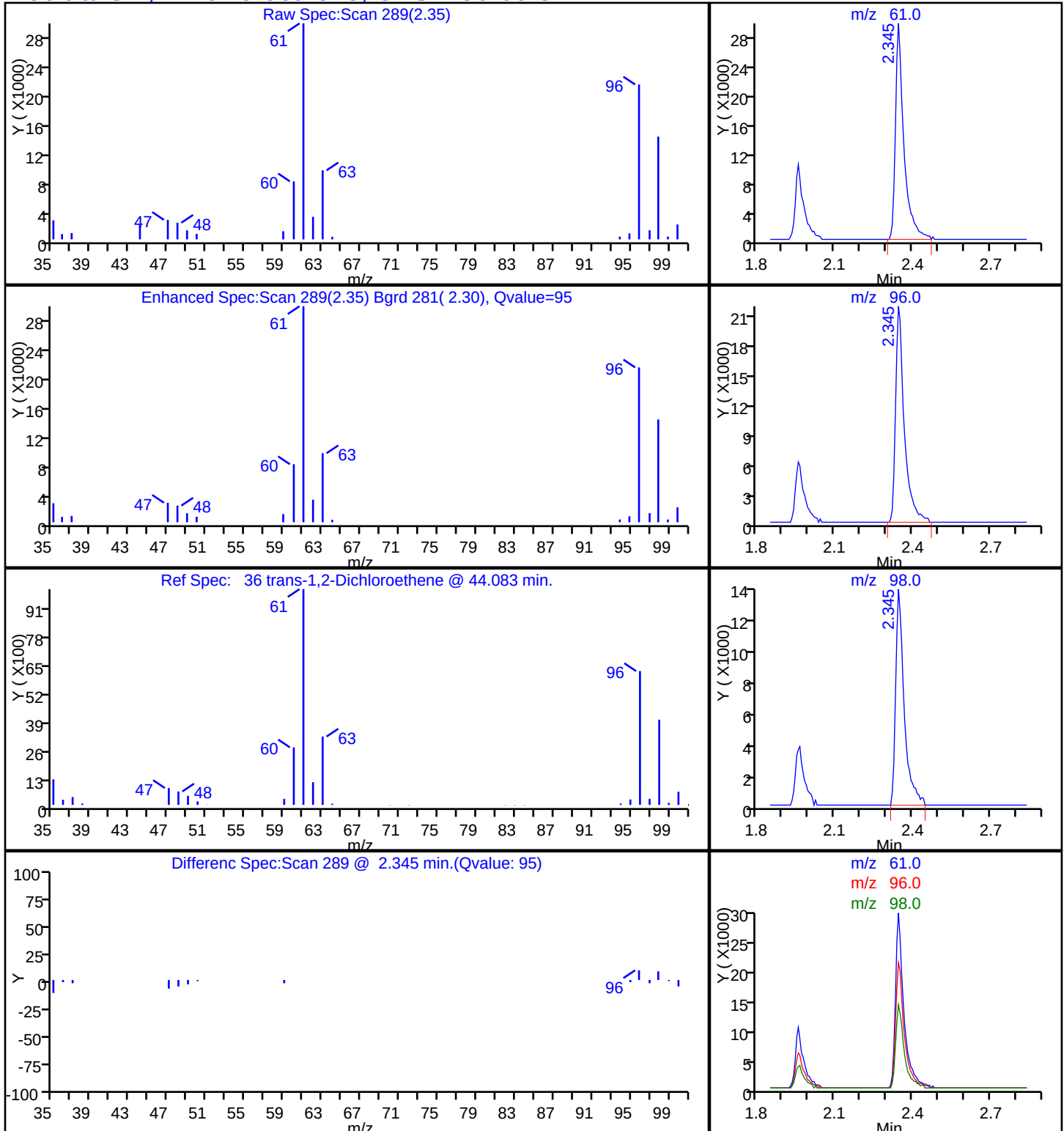
Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector

MS SCAN

36 trans-1,2-Dichloroethene, CAS: 156-60-5

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061752.D

Injection Date: 07-May-2017 11:09:30

Instrument ID: HP33

Lims ID: 480-117063-A-13

Lab Sample ID: 490-117063-13

Client ID: MW-11R

Operator ID: JJR

ALS Bottle#: 62

Worklist Smp#: 21

Purge Vol: 5.000 mL

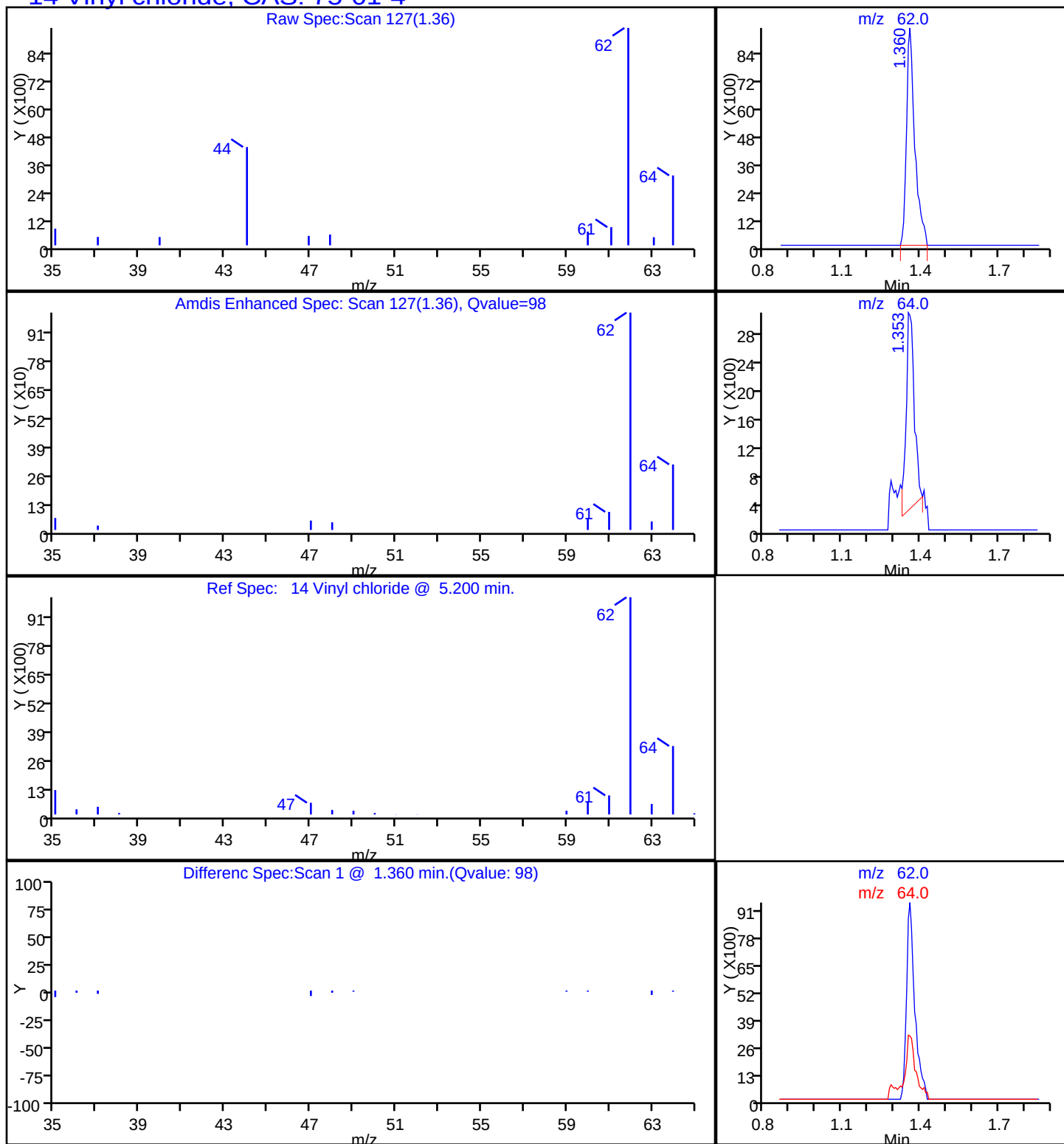
Dil. Factor: 5.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector MS SCAN

14 Vinyl chloride, CAS: 75-01-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Client Sample ID: MW-11R Lab Sample ID: 480-117063-13
 Matrix: Water Lab File ID: 05081710.D
 Analysis Method: 8260C Date Collected: 04/24/2017 13:55
 Sample wt/vol: 10 (mL) Date Analyzed: 05/08/2017 14:28
 Soil Aliquot Vol.: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 428184 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-59-2	cis-1,2-Dichloroethene	5400		100	21
79-01-6	Trichloroethene	17000		100	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-130
460-00-4	4-Bromofluorobenzene (Surr)	113		70-130
2037-26-5	Toluene-d8 (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP39\20170508-90599.b\05081710.D
 Lims ID: 480-117063-B-13
 Client ID: MW-11R
 Sample Type: Client
 Inject. Date: 08-May-2017 14:28:30 ALS Bottle#: 10 Worklist Smp#: 10
 Purge Vol: 10.000 mL Dil. Factor: 100.0000
 Sample Info: 480-117063-B-13
 Misc. Info.: 490-0090599-010
 Operator ID: MJH HP-39 Instrument ID: HP39
 Method: \\ChromNA\Nashville\ChromData\HP39\20170508-90599.b\8260HP39.m
 Limit Group: MSV 8260C ICAL
 Method Label: 8260B Volatile Organics 8260/SA/NV05-90
 Last Update: 09-May-2017 11:02:54 Calib Date: 16-Mar-2017 21:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161714.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK030

First Level Reviewer: khanphomeea Date: 09-May-2017 11:02:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.371	4.353	0.018	99	1058406	25.0	
* 2 Chlorobenzene-d5	117	6.793	6.768	0.025	84	844321	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.952	8.934	0.018	93	411859	25.0	
\$ 4 Dibromofluoromethane (Surr	111	3.927	3.909	0.018	95	251286	25.1	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.177	4.152	0.025	98	232784	25.9	
\$ 6 Toluene-d8 (Surr)	98	5.552	5.533	0.019	92	1011253	24.3	
\$ 7 4-Bromofluorobenzene (Surr	95	7.851	7.833	0.018	97	370084	28.2	
34 trans-1,2-Dichloroethene	61	2.936	2.917	0.019	91	11149	0.7252	
42 cis-1,2-Dichloroethene	96	3.605	3.587	0.018	77	766691	54.4	
62 Trichloroethene	130	4.627	4.609	0.018	97	2490936	172.5	

Reagents:

VOA_ISSS_50_W_00040 Amount Added: 5.00 Units: uL Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP39\\20170508-90599.b\\05081710.D

Injection Date: 08-May-2017 14:28:30

Instrument ID: HP39

Operator ID: MJH HP-39

Lims ID: 480-117063-B-13

Lab Sample ID: 490-117063-13

Worklist Smp#: 10

Client ID: MW-11R

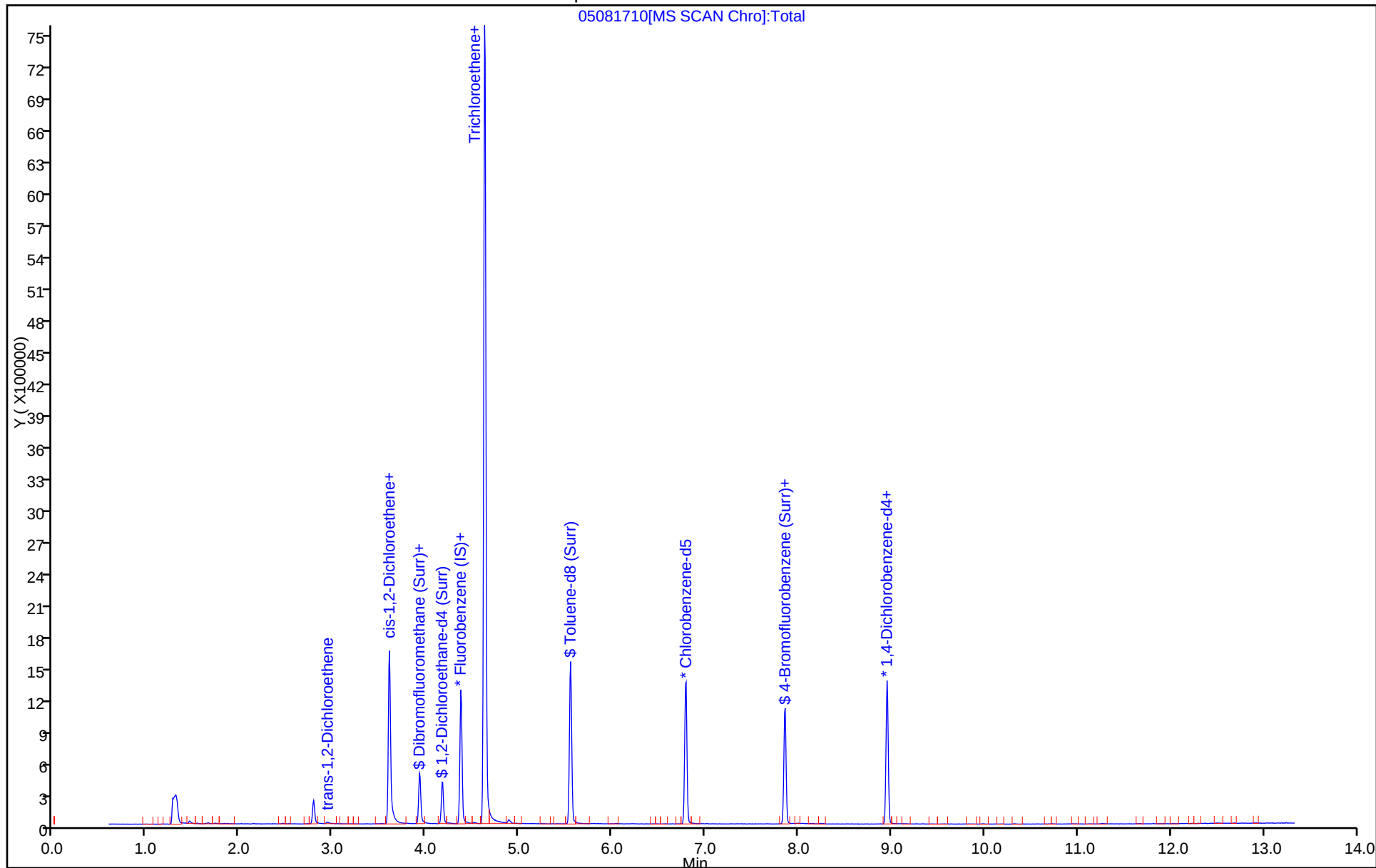
Purge Vol: 10.000 mL

Dil. Factor: 100.0000

ALS Bottle#: 10

Method: 8260HP39

Limit Group: MSV 8260C ICAL



TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP39\\20170508-90599.b\\05081710.D

Injection Date: 08-May-2017 14:28:30

Instrument ID: HP39

Lims ID: 480-117063-B-13

Lab Sample ID: 490-117063-13

Client ID: MW-11R

Operator ID: MJH HP-39

ALS Bottle#: 10

Worklist Smp#: 10

Purge Vol: 10.000 mL

Dil. Factor: 100.0000

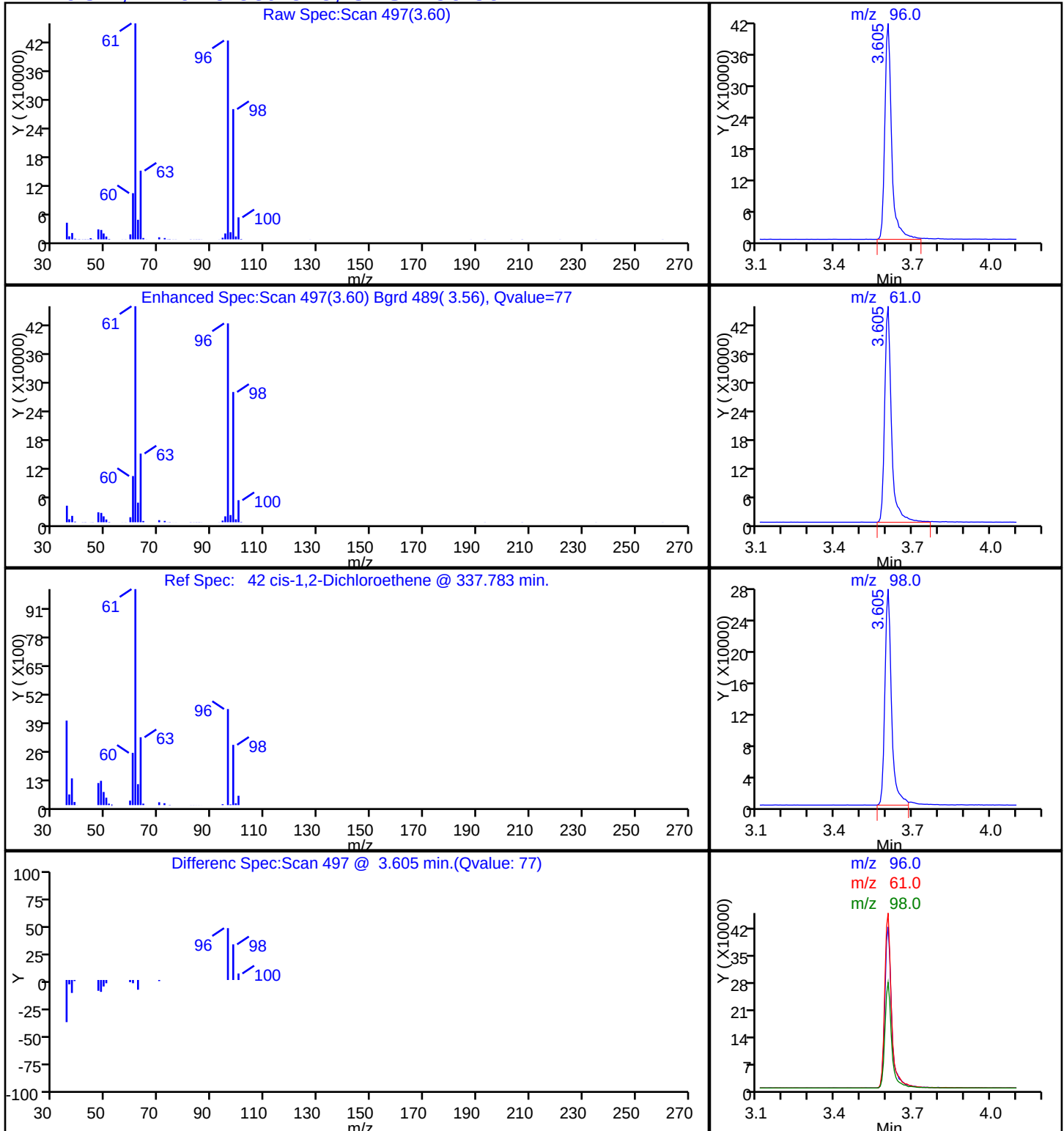
Method: 8260HP39

Limit Group: MSV 8260C ICAL

Column:

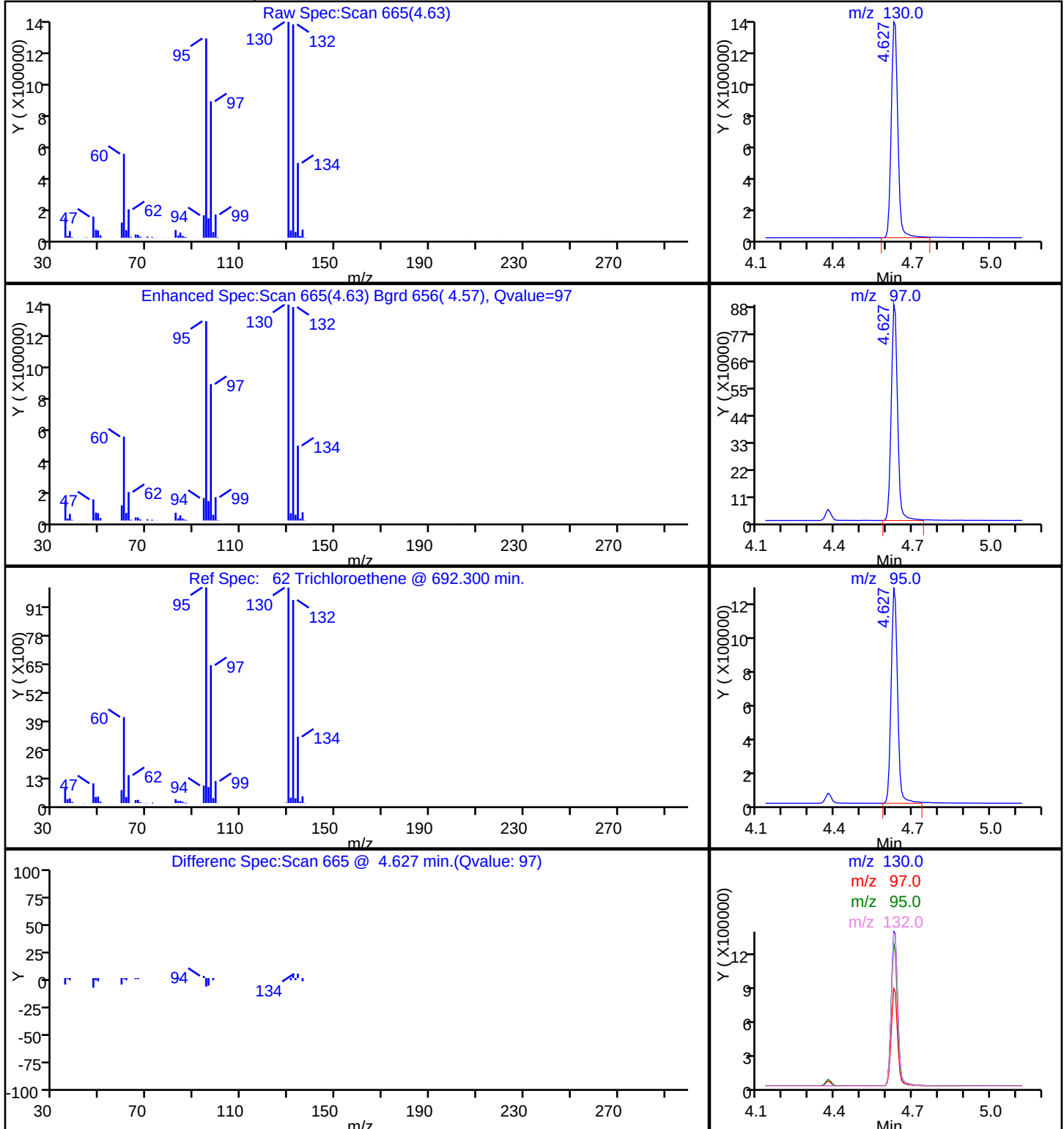
Detector

MS SCAN

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

TestAmerica Nashville

Data File: \\ChromNA\Nashville\ChromData\HP39\20170508-90599.b\05081710.D
Injection Date: 08-May-2017 14:28:30 Instrument ID: HP39
Lims ID: 480-117063-B-13 Lab Sample ID: 490-117063-13
Client ID: MW-11R
Operator ID: MJH HP-39 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 10.000 mL Dil. Factor: 100.0000
Method: 8260HP39 Limit Group: MSV 8260C ICAL
Column: Detector MS SCAN

62 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Nashville</u>	Job No.: <u>480-117063-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-12</u>	Lab Sample ID: <u>480-117063-14</u>
Matrix: <u>Water</u>	Lab File ID: <u>05061753.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/25/2017 15:55</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>05/07/2017 11:36</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>25</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>428030</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		25	4.8
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	4.8
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25	3.8
79-00-5	1,1,2-Trichloroethane	ND		25	4.8
75-34-3	1,1-Dichloroethane	ND		25	6.0
75-35-4	1,1-Dichloroethene	ND		25	6.3
120-82-1	1,2,4-Trichlorobenzene	ND		25	5.0
96-12-8	1,2-Dibromo-3-Chloropropane	ND		250	24
95-50-1	1,2-Dichlorobenzene	ND		25	4.8
107-06-2	1,2-Dichloroethane	ND		25	5.0
78-87-5	1,2-Dichloropropane	ND		25	6.3
541-73-1	1,3-Dichlorobenzene	ND		25	4.5
106-46-7	1,4-Dichlorobenzene	ND		25	4.3
78-93-3	2-Butanone (MEK)	ND		1300	66
591-78-6	2-Hexanone	ND		250	32
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	20
67-64-1	Acetone	ND		630	67
71-43-2	Benzene	ND		25	5.0
75-25-2	Bromoform	ND		25	7.3
74-83-9	Bromomethane	ND	*	25	8.8
75-15-0	Carbon disulfide	ND		25	5.5
56-23-5	Carbon tetrachloride	ND		25	4.5
108-90-7	Chlorobenzene	ND		25	4.5
124-48-1	Dibromochloromethane	ND		25	6.3
75-00-3	Chloroethane	ND		25	9.0
67-66-3	Chloroform	ND		25	5.8
74-87-3	Chloromethane	ND		25	9.0
156-59-2	cis-1,2-Dichloroethene	140		25	5.3
110-82-7	Cyclohexane	ND		130	3.3
75-27-4	Bromodichloromethane	ND		25	4.3
75-71-8	Dichlorodifluoromethane	ND	*	25	4.3
100-41-4	Ethylbenzene	ND		25	4.8
106-93-4	1,2-Dibromoethane	ND		25	5.3
98-82-8	Isopropylbenzene	ND		25	8.3
79-20-9	Methyl acetate	ND		250	15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Client Sample ID: MW-12 Lab Sample ID: 480-117063-14
 Matrix: Water Lab File ID: 05061753.D
 Analysis Method: 8260C Date Collected: 04/25/2017 15:55
 Sample wt/vol: 5 (mL) Date Analyzed: 05/07/2017 11:36
 Soil Aliquot Vol: _____ Dilution Factor: 25
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 428030 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		25	4.3
108-87-2	Methylcyclohexane	ND		130	2.3
75-09-2	Methylene Chloride	ND		130	25
127-18-4	Tetrachloroethene	ND		25	3.5
108-88-3	Toluene	ND		25	4.3
156-60-5	trans-1,2-Dichloroethene	ND		25	5.8
10061-02-6	trans-1,3-Dichloropropene	ND		25	4.3
79-01-6	Trichloroethene	4100		25	5.0
75-69-4	Trichlorofluoromethane	ND		25	5.3
75-01-4	Vinyl chloride	ND		25	4.5
1330-20-7	Xylenes, Total	ND		75	15
10061-01-5	cis-1,3-Dichloropropene	ND		25	4.3
100-42-5	Styrene	ND		25	7.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
460-00-4	4-Bromofluorobenzene (Surr)	104		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130
1868-53-7	Dibromofluoromethane (Surr)	96		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\05061753.D
 Lims ID: 480-117063-A-14
 Client ID: MW-12
 Sample Type: Client
 Inject. Date: 07-May-2017 11:36:30 ALS Bottle#: 63 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 25.0000
 Sample Info: 480-117063-A-14
 Misc. Info.: 490-0090567-022
 Operator ID: JJR Instrument ID: HP33
 Method: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 08-May-2017 10:19:38 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: wanguns

Date: 08-May-2017 10:25:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.626	3.635	-0.009	98	643914	30.0	
* 2 Chlorobenzene-d5	117	5.937	5.941	-0.004	86	474992	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.097	8.100	-0.003	95	196688	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.200	3.203	-0.003	96	155764	28.9	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.431	3.434	-0.003	0	180216	30.1	
\$ 7 Toluene-d8 (Surr)	98	4.733	4.736	-0.003	99	604118	28.7	
\$ 8 4-Bromofluorobenzene (Surr	95	7.002	7.005	-0.003	95	192746	31.2	
33 Methylene Chloride	84	2.214	2.224	-0.010	93	1269	0.2067	
45 cis-1,2-Dichloroethene	96	2.920	2.929	-0.009	98	32897	5.51	
65 Trichloroethene	130	3.851	3.860	-0.009	97	953521	162.2	

Reagents:

VOA_ISSS150_W_00015

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061753.D

Injection Date: 07-May-2017 11:36:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: 480-117063-A-14

Lab Sample ID: 490-117063-14

Worklist Smp#: 22

Client ID: MW-12

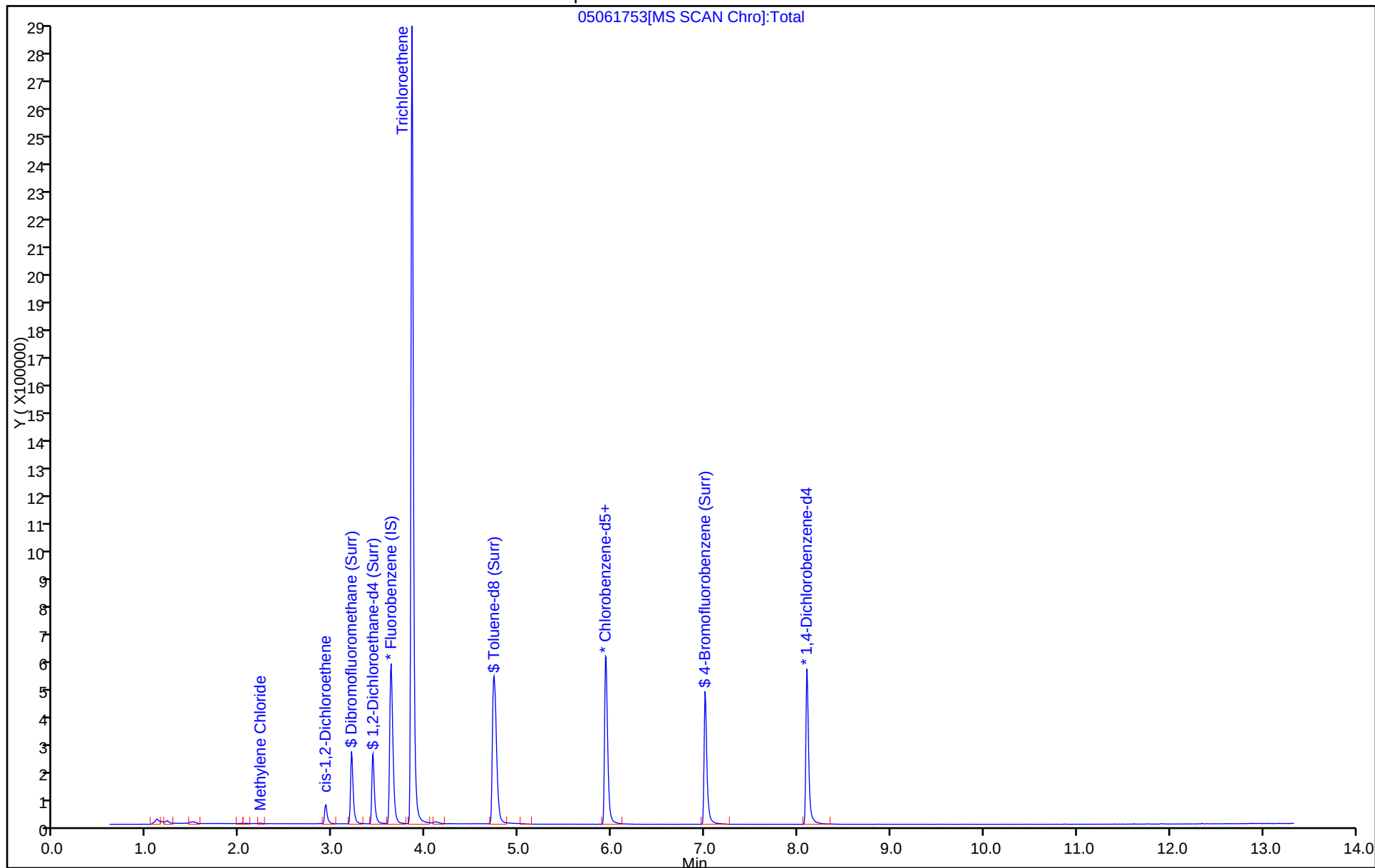
Purge Vol: 5.000 mL

Dil. Factor: 25.0000

ALS Bottle#: 63

Method: 8260HP33

Limit Group: MSV 8260C ICAL



TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061753.D

Injection Date: 07-May-2017 11:36:30

Instrument ID: HP33

Lims ID: 480-117063-A-14

Lab Sample ID: 490-117063-14

Client ID: MW-12

Operator ID: JJR

ALS Bottle#: 63

Worklist Smp#: 22

Purge Vol: 5.000 mL

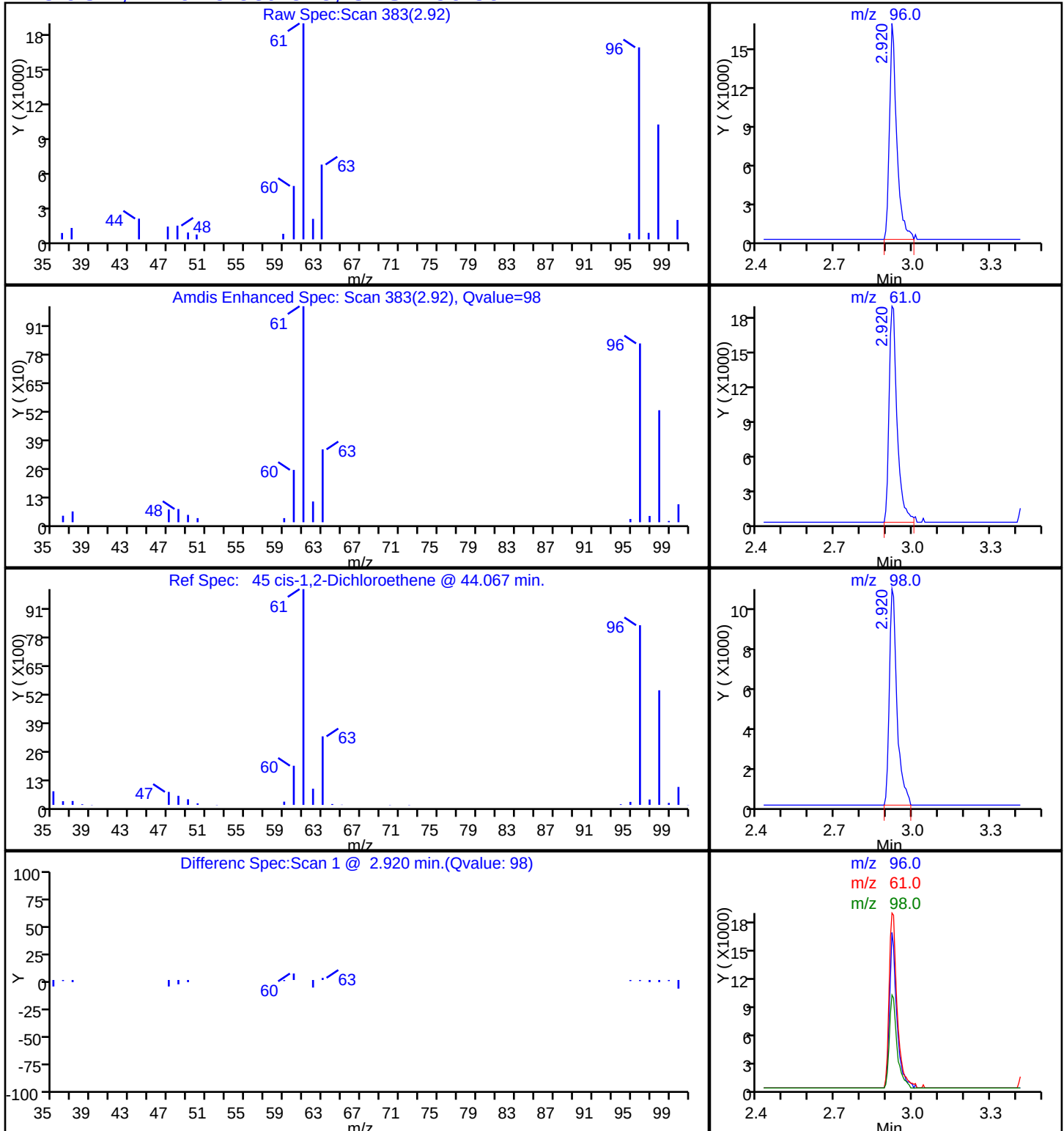
Dil. Factor: 25.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector MS SCAN

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

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061753.D

Injection Date: 07-May-2017 11:36:30

Instrument ID: HP33

Lims ID: 480-117063-A-14

Lab Sample ID: 490-117063-14

Client ID: MW-12

Operator ID: JJR

ALS Bottle#: 63

Worklist Smp#: 22

Purge Vol: 5.000 mL

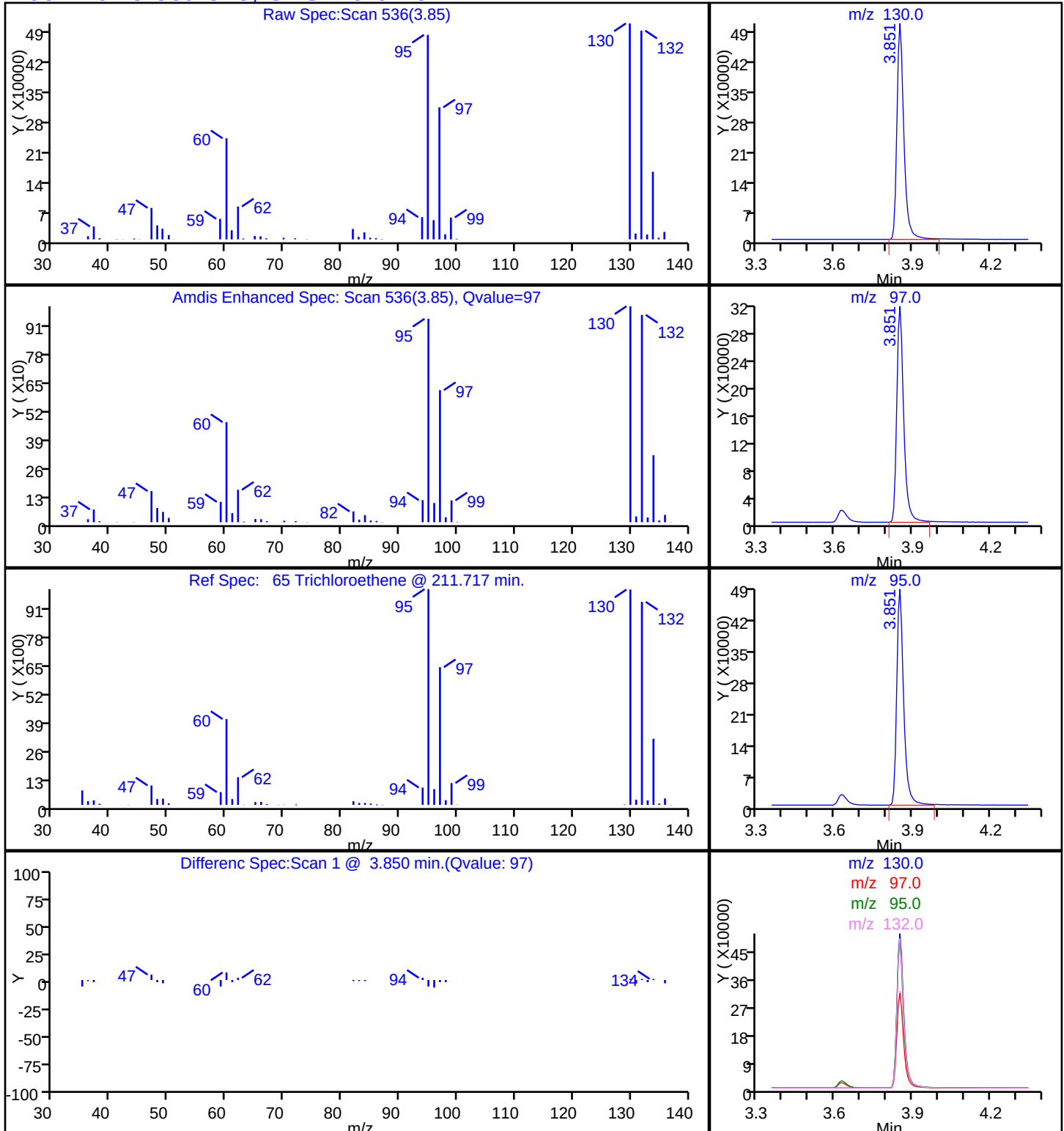
Dil. Factor: 25.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector: MS SCAN

65 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Nashville</u>	Job No.: <u>480-117063-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-13</u>	Lab Sample ID: <u>480-117063-15</u>
Matrix: <u>Water</u>	Lab File ID: <u>05061754.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/26/2017 14:45</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>05/07/2017 12:03</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>200</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>428030</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		200	38
79-34-5	1,1,2,2-Tetrachloroethane	ND		200	38
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		200	30
79-00-5	1,1,2-Trichloroethane	ND		200	38
75-34-3	1,1-Dichloroethane	ND		200	48
75-35-4	1,1-Dichloroethene	ND		200	50
120-82-1	1,2,4-Trichlorobenzene	ND		200	40
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2000	190
95-50-1	1,2-Dichlorobenzene	ND		200	38
107-06-2	1,2-Dichloroethane	ND		200	40
78-87-5	1,2-Dichloropropane	ND		200	50
541-73-1	1,3-Dichlorobenzene	ND		200	36
106-46-7	1,4-Dichlorobenzene	ND		200	34
78-93-3	2-Butanone (MEK)	ND		10000	530
591-78-6	2-Hexanone	ND		2000	260
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		2000	160
67-64-1	Acetone	ND		5000	530
71-43-2	Benzene	ND		200	40
75-25-2	Bromoform	ND		200	58
74-83-9	Bromomethane	ND	*	200	70
75-15-0	Carbon disulfide	ND		200	44
56-23-5	Carbon tetrachloride	ND		200	36
108-90-7	Chlorobenzene	ND		200	36
124-48-1	Dibromochloromethane	ND		200	50
75-00-3	Chloroethane	ND		200	72
67-66-3	Chloroform	ND		200	46
74-87-3	Chloromethane	ND		200	72
156-59-2	cis-1,2-Dichloroethene	1200		200	42
110-82-7	Cyclohexane	ND		1000	26
75-27-4	Bromodichloromethane	ND		200	34
75-71-8	Dichlorodifluoromethane	ND	*	200	34
100-41-4	Ethylbenzene	ND		200	38
106-93-4	1,2-Dibromoethane	ND		200	42
98-82-8	Isopropylbenzene	ND		200	66
79-20-9	Methyl acetate	ND		2000	120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Client Sample ID: MW-13 Lab Sample ID: 480-117063-15
 Matrix: Water Lab File ID: 05061754.D
 Analysis Method: 8260C Date Collected: 04/26/2017 14:45
 Sample wt/vol: 5 (mL) Date Analyzed: 05/07/2017 12:03
 Soil Aliquot Vol: _____ Dilution Factor: 200
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 428030 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		200	34
108-87-2	Methylcyclohexane	ND		1000	18
75-09-2	Methylene Chloride	ND		1000	200
127-18-4	Tetrachloroethene	ND		200	28
108-88-3	Toluene	ND		200	34
156-60-5	trans-1,2-Dichloroethene	ND		200	46
10061-02-6	trans-1,3-Dichloropropene	ND		200	34
79-01-6	Trichloroethene	21000		200	40
75-69-4	Trichlorofluoromethane	ND		200	42
75-01-4	Vinyl chloride	ND		200	36
1330-20-7	Xylenes, Total	ND		600	120
10061-01-5	cis-1,3-Dichloropropene	ND		200	34
100-42-5	Styrene	ND		200	56

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
460-00-4	4-Bromofluorobenzene (Surr)	102		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130
1868-53-7	Dibromofluoromethane (Surr)	98		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\05061754.D
 Lims ID: 480-117063-A-15
 Client ID: MW-13
 Sample Type: Client
 Inject. Date: 07-May-2017 12:03:30 ALS Bottle#: 64 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 200.0000
 Sample Info: 480-117063-A-15
 Misc. Info.: 490-0090567-023
 Operator ID: JJR Instrument ID: HP33
 Method: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 08-May-2017 10:19:38 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: wanguns

Date: 08-May-2017 10:26:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.616	3.635	-0.019	98	619355	30.0	
* 2 Chlorobenzene-d5	117	5.928	5.941	-0.013	86	468698	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.094	8.100	-0.006	95	201329	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.203	3.203	0.000	97	151847	29.3	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.434	3.434	0.000	0	175240	30.4	
\$ 7 Toluene-d8 (Surr)	98	4.724	4.736	-0.012	99	595397	28.7	
\$ 8 4-Bromofluorobenzene (Surr	95	6.999	7.005	-0.006	94	192839	30.5	
33 Methylene Chloride	84	2.223	2.224	-0.001	86	1223	0.2071	
45 cis-1,2-Dichloroethene	96	2.923	2.929	-0.006	97	33263	5.80	
65 Trichloroethene	130	3.854	3.860	-0.006	97	596547	105.5	

Reagents:

VOA_ISSS150_W_00015

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061754.D

Injection Date: 07-May-2017 12:03:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: 480-117063-A-15

Lab Sample ID: 490-117063-15

Worklist Smp#: 23

Client ID: MW-13

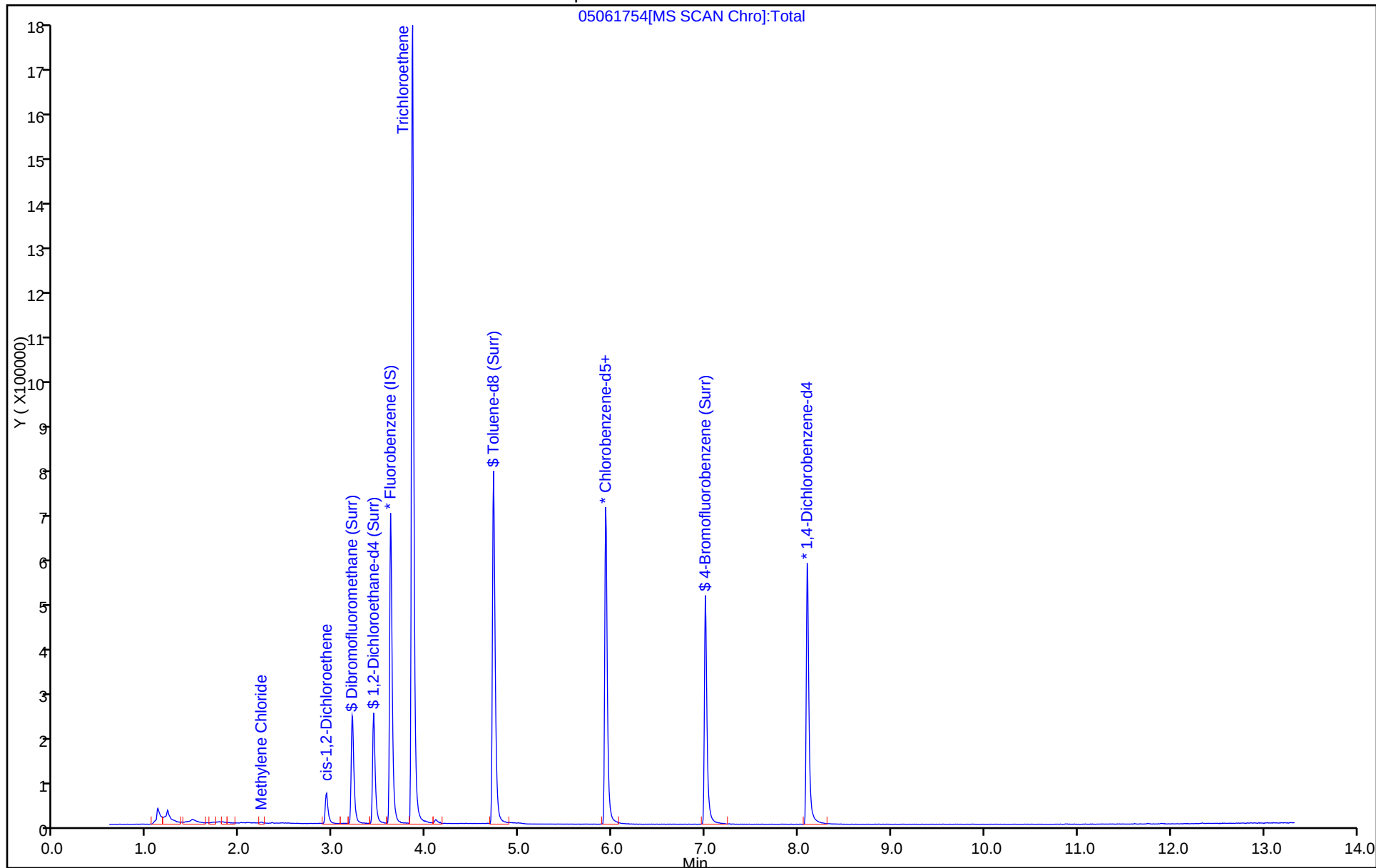
Purge Vol: 5.000 mL

Dil. Factor: 200.0000

ALS Bottle#: 64

Method: 8260HP33

Limit Group: MSV 8260C ICAL



TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061754.D

Injection Date: 07-May-2017 12:03:30

Instrument ID: HP33

Lims ID: 480-117063-A-15

Lab Sample ID: 490-117063-15

Client ID: MW-13

Operator ID: JJR

ALS Bottle#: 64

Worklist Smp#: 23

Purge Vol: 5.000 mL

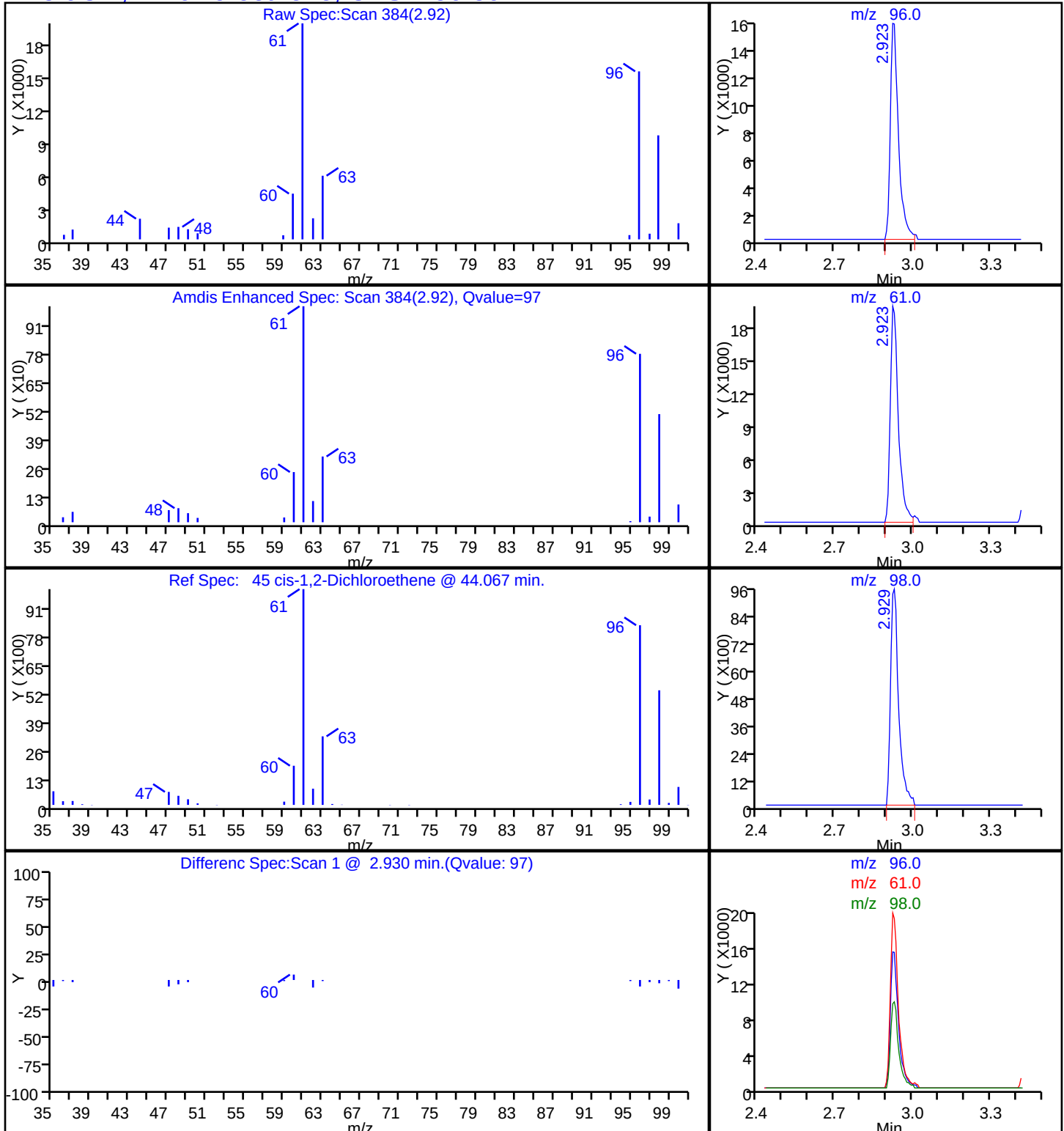
Dil. Factor: 200.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector MS SCAN

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

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061754.D

Injection Date: 07-May-2017 12:03:30

Instrument ID: HP33

Lims ID: 480-117063-A-15

Lab Sample ID: 490-117063-15

Client ID: MW-13

Operator ID: JJR

ALS Bottle#: 64

Worklist Smp#: 23

Purge Vol: 5.000 mL

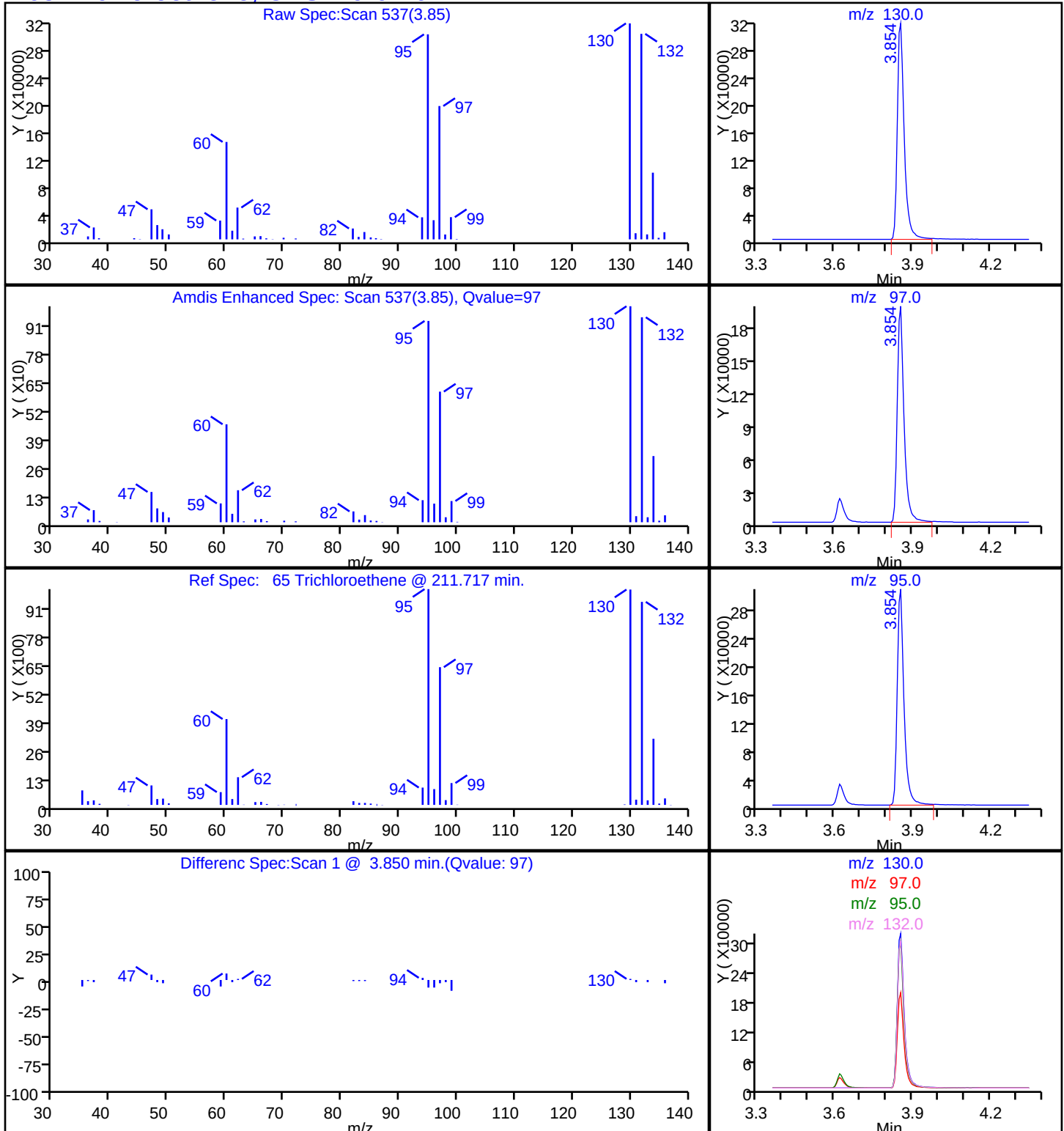
Dil. Factor: 200.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector: MS SCAN

65 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Nashville</u>	Job No.: <u>480-117063-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-14</u>	Lab Sample ID: <u>480-117063-16</u>
Matrix: <u>Water</u>	Lab File ID: <u>05081711.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/26/2017 16:30</u>
Sample wt/vol: <u>10 (mL)</u>	Date Analyzed: <u>05/08/2017 14:54</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>50</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>428184</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		50	9.5
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	9.5
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	7.5
79-00-5	1,1,2-Trichloroethane	ND		50	9.5
75-34-3	1,1-Dichloroethane	ND		50	12
75-35-4	1,1-Dichloroethene	ND		50	13
120-82-1	1,2,4-Trichlorobenzene	ND		50	10
96-12-8	1,2-Dibromo-3-Chloropropane	ND		500	47
95-50-1	1,2-Dichlorobenzene	ND		50	9.5
107-06-2	1,2-Dichloroethane	ND		50	10
78-87-5	1,2-Dichloropropane	ND		50	13
541-73-1	1,3-Dichlorobenzene	ND		50	9.0
106-46-7	1,4-Dichlorobenzene	ND	*	50	8.5
78-93-3	2-Butanone (MEK)	ND		2500	130
591-78-6	2-Hexanone	ND		500	64
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		500	41
67-64-1	Acetone	ND		1300	130
71-43-2	Benzene	ND		50	10
75-25-2	Bromoform	ND		50	15
74-83-9	Bromomethane	ND		50	18
75-15-0	Carbon disulfide	ND		50	11
56-23-5	Carbon tetrachloride	ND		50	9.0
108-90-7	Chlorobenzene	ND		50	9.0
124-48-1	Dibromochloromethane	ND		50	13
75-00-3	Chloroethane	ND		50	18
67-66-3	Chloroform	ND		50	12
74-87-3	Chloromethane	ND		50	18
156-59-2	cis-1,2-Dichloroethene	1900		50	11
110-82-7	Cyclohexane	ND		250	6.5
75-27-4	Bromodichloromethane	ND		50	8.5
75-71-8	Dichlorodifluoromethane	ND		50	8.5
100-41-4	Ethylbenzene	ND		50	9.5
106-93-4	1,2-Dibromoethane	ND		50	11
98-82-8	Isopropylbenzene	ND		50	17
79-20-9	Methyl acetate	ND		500	29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Client Sample ID: MW-14 Lab Sample ID: 480-117063-16
 Matrix: Water Lab File ID: 05081711.D
 Analysis Method: 8260C Date Collected: 04/26/2017 16:30
 Sample wt/vol: 10 (mL) Date Analyzed: 05/08/2017 14:54
 Soil Aliquot Vol: _____ Dilution Factor: 50
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 428184 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		50	8.5
108-87-2	Methylcyclohexane	ND		250	4.5
75-09-2	Methylene Chloride	ND		250	50
127-18-4	Tetrachloroethene	ND		50	7.0
108-88-3	Toluene	ND		50	8.5
156-60-5	trans-1,2-Dichloroethene	18	J	50	12
10061-02-6	trans-1,3-Dichloropropene	ND		50	8.5
79-01-6	Trichloroethene	8400		50	10
75-69-4	Trichlorofluoromethane	ND	*	50	11
75-01-4	Vinyl chloride	ND		50	9.0
1330-20-7	Xylenes, Total	ND		150	29
10061-01-5	cis-1,3-Dichloropropene	ND		50	8.5
100-42-5	Styrene	ND		50	14

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-130
460-00-4	4-Bromofluorobenzene (Surr)	111		70-130
2037-26-5	Toluene-d8 (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	104		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP39\20170508-90599.b\05081711.D
 Lims ID: 480-117063-B-16
 Client ID: MW-14
 Sample Type: Client
 Inject. Date: 08-May-2017 14:54:30 ALS Bottle#: 11 Worklist Smp#: 11
 Purge Vol: 10.000 mL Dil. Factor: 50.0000
 Sample Info: 480-117063-B-16
 Misc. Info.: 490-0090599-011
 Operator ID: MJH HP-39 Instrument ID: HP39
 Method: \\ChromNA\Nashville\ChromData\HP39\20170508-90599.b\8260HP39.m
 Limit Group: MSV 8260C ICAL
 Method Label: 8260B Volatile Organics 8260/SA/NV05-90
 Last Update: 09-May-2017 12:51:58 Calib Date: 16-Mar-2017 21:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161714.D

Column 1 : Det: MS SCAN

Process Host: XAWRK030

First Level Reviewer: khanphomeea

Date: 09-May-2017 11:04:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.378	4.353	0.025	99	1037074	25.0	
* 2 Chlorobenzene-d5	117	6.793	6.768	0.025	83	851173	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.958	8.934	0.024	93	416469	25.0	
\$ 4 Dibromofluoromethane (Surr	111	3.933	3.909	0.024	95	255419	26.0	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.177	4.152	0.025	98	227646	25.9	
\$ 6 Toluene-d8 (Surr)	98	5.552	5.527	0.025	92	1015682	24.2	
\$ 7 4-Bromofluorobenzene (Surr	95	7.857	7.833	0.024	96	369172	27.8	
34 trans-1,2-Dichloroethene	61	2.942	2.917	0.025	88	5316	0.3529	
42 cis-1,2-Dichloroethene	96	3.605	3.587	0.019	77	524209	38.0	
62 Trichloroethene	130	4.633	4.609	0.024	96	2385407	168.6	
100 4-Ethyltoluene	105	8.149	8.131	0.018	1	1101	NC	
110 Dicyclopentadiene	66	8.952	8.934	0.018	30	5694	NC	
131 Propene TIC	41	1.981	2.005	-0.024	0	321	NR	
126 Dicyclopentadiene TIC	66	7.857	7.863	-0.006	0	183	NR	
S 136 1,2-Dichloroethene, Total	1				0		38.3	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

Reagents:

VOA_ISSS_50_W_00040

Amount Added: 5.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP39\\20170508-90599.b\\05081711.D

Injection Date: 08-May-2017 14:54:30

Instrument ID: HP39

Operator ID: MJH HP-39

Lims ID: 480-117063-B-16

Lab Sample ID: 490-117063-16

Worklist Smp#: 11

Client ID: MW-14

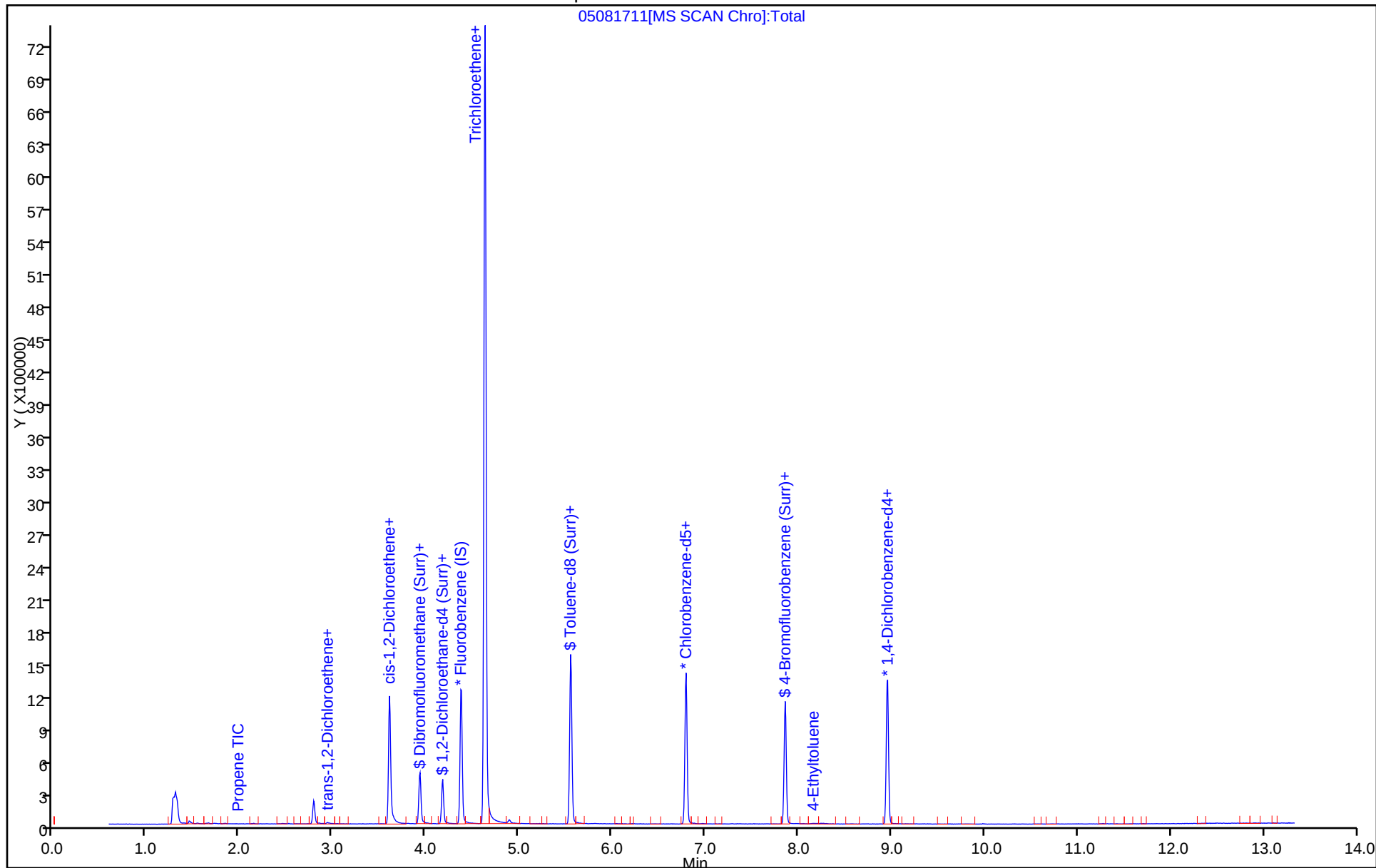
Purge Vol: 10.000 mL

Dil. Factor: 50.0000

ALS Bottle#: 11

Method: 8260HP39

Limit Group: MSV 8260C ICAL



TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP39\\20170508-90599.b\\05081711.D

Injection Date: 08-May-2017 14:54:30

Instrument ID: HP39

Lims ID: 480-117063-B-16

Lab Sample ID: 490-117063-16

Client ID: MW-14

Operator ID: MJH HP-39

ALS Bottle#: 11

Worklist Smp#: 11

Purge Vol: 10.000 mL

Dil. Factor: 50.0000

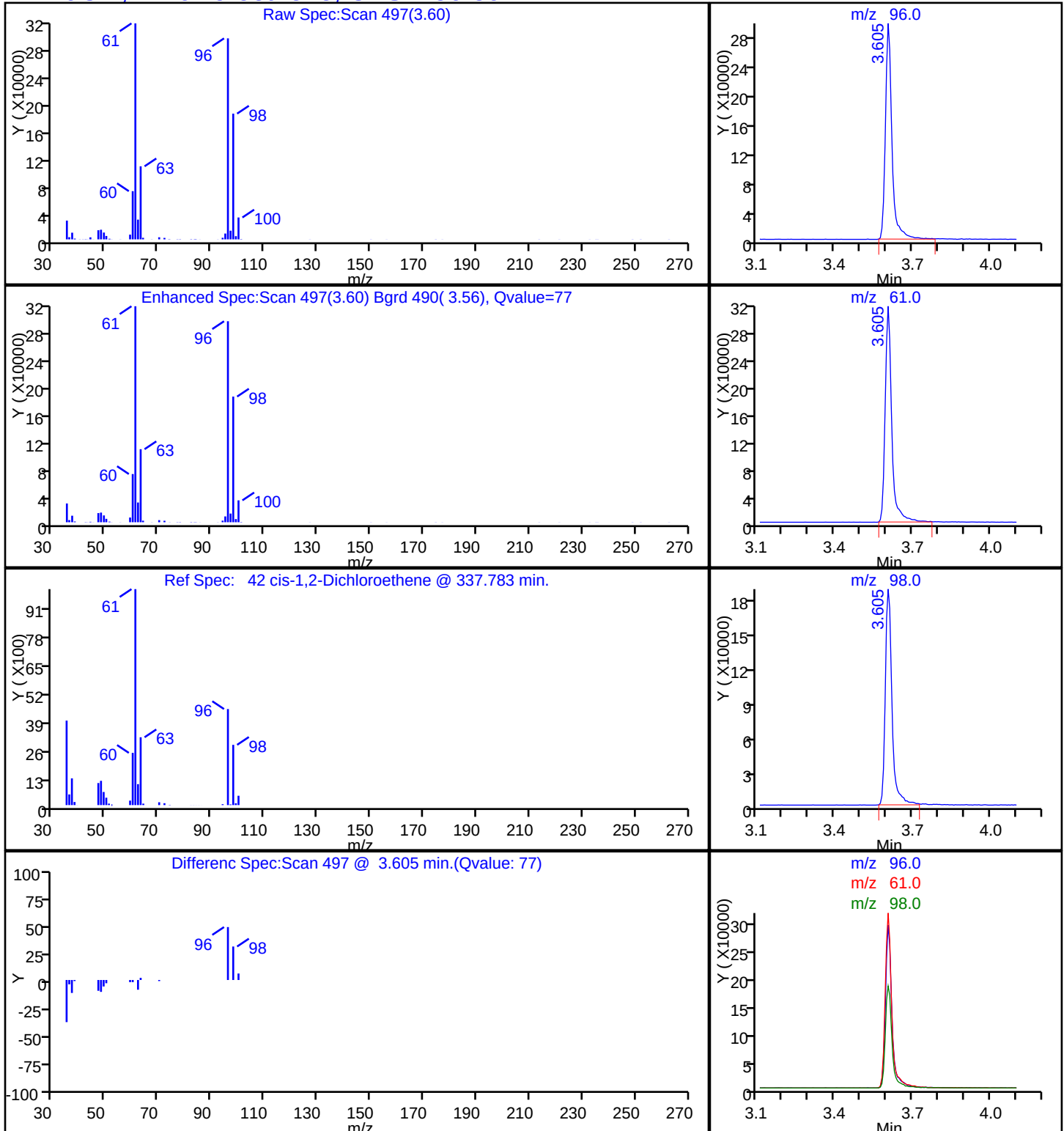
Method: 8260HP39

Limit Group: MSV 8260C ICAL

Column:

Detector

MS SCAN

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

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP39\\20170508-90599.b\\05081711.D

Injection Date: 08-May-2017 14:54:30

Instrument ID: HP39

Lims ID: 480-117063-B-16

Lab Sample ID: 490-117063-16

Client ID: MW-14

Operator ID: MJH HP-39

ALS Bottle#: 11

Worklist Smp#: 11

Purge Vol: 10.000 mL

Dil. Factor: 50.0000

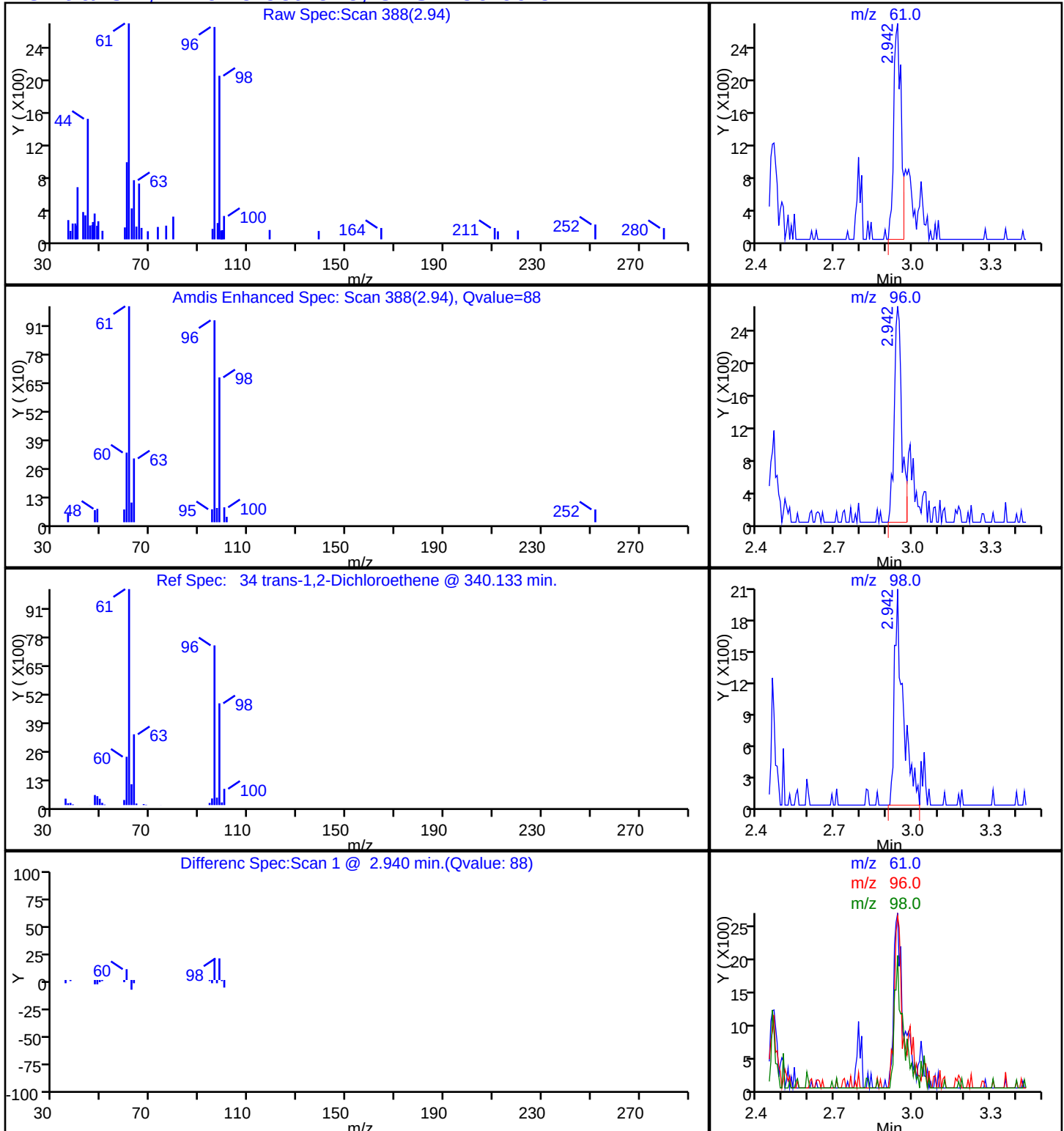
Method: 8260HP39

Limit Group: MSV 8260C ICAL

Column:

Detector

MS SCAN

34 trans-1,2-Dichloroethene, CAS: 156-60-5

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP39\\20170508-90599.b\\05081711.D

Injection Date: 08-May-2017 14:54:30

Instrument ID: HP39

Lims ID: 480-117063-B-16

Lab Sample ID: 490-117063-16

Client ID: MW-14

Operator ID: MJH HP-39

ALS Bottle#: 11

Worklist Smp#: 11

Purge Vol: 10.000 mL

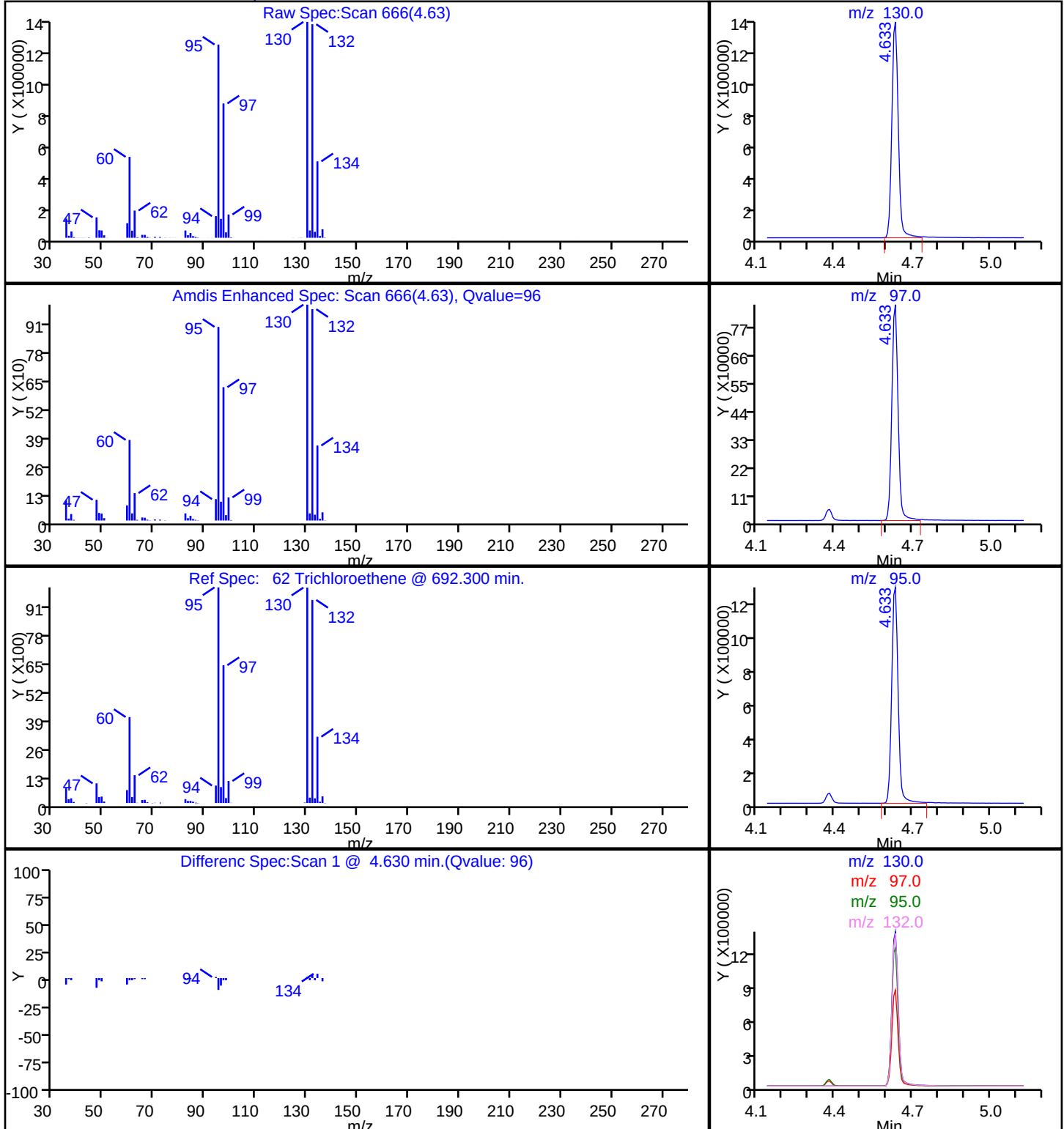
Dil. Factor: 50.0000

Method: 8260HP39

Limit Group: MSV 8260C ICAL

Column:

Detector: MS SCAN

62 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Nashville</u>	Job No.: <u>480-117063-1</u>
SDG No.: _____	
Client Sample ID: <u>DUP-042517</u>	Lab Sample ID: <u>480-117063-17</u>
Matrix: <u>Water</u>	Lab File ID: <u>05061756.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/25/2017 00:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>05/07/2017 12:57</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>50</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>428030</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		50	9.5
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	9.5
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	7.5
79-00-5	1,1,2-Trichloroethane	ND		50	9.5
75-34-3	1,1-Dichloroethane	ND		50	12
75-35-4	1,1-Dichloroethene	ND		50	13
120-82-1	1,2,4-Trichlorobenzene	ND		50	10
96-12-8	1,2-Dibromo-3-Chloropropane	ND		500	47
95-50-1	1,2-Dichlorobenzene	ND		50	9.5
107-06-2	1,2-Dichloroethane	ND		50	10
78-87-5	1,2-Dichloropropane	ND		50	13
541-73-1	1,3-Dichlorobenzene	ND		50	9.0
106-46-7	1,4-Dichlorobenzene	ND		50	8.5
78-93-3	2-Butanone (MEK)	ND		2500	130
591-78-6	2-Hexanone	ND		500	64
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		500	41
67-64-1	Acetone	ND		1300	130
71-43-2	Benzene	ND		50	10
75-25-2	Bromoform	ND		50	15
74-83-9	Bromomethane	ND	*	50	18
75-15-0	Carbon disulfide	ND		50	11
56-23-5	Carbon tetrachloride	ND		50	9.0
108-90-7	Chlorobenzene	ND		50	9.0
124-48-1	Dibromochloromethane	ND		50	13
75-00-3	Chloroethane	ND		50	18
67-66-3	Chloroform	ND		50	12
74-87-3	Chloromethane	ND		50	18
156-59-2	cis-1,2-Dichloroethene	1100		50	11
110-82-7	Cyclohexane	ND		250	6.5
75-27-4	Bromodichloromethane	ND		50	8.5
75-71-8	Dichlorodifluoromethane	ND	*	50	8.5
100-41-4	Ethylbenzene	ND		50	9.5
106-93-4	1,2-Dibromoethane	ND		50	11
98-82-8	Isopropylbenzene	ND		50	17
79-20-9	Methyl acetate	ND		500	29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Client Sample ID: DUP-042517 Lab Sample ID: 480-117063-17
 Matrix: Water Lab File ID: 05061756.D
 Analysis Method: 8260C Date Collected: 04/25/2017 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 05/07/2017 12:57
 Soil Aliquot Vol: _____ Dilution Factor: 50
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 428030 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		50	8.5
108-87-2	Methylcyclohexane	ND		250	4.5
75-09-2	Methylene Chloride	ND		250	50
127-18-4	Tetrachloroethene	ND		50	7.0
108-88-3	Toluene	ND		50	8.5
156-60-5	trans-1,2-Dichloroethene	ND		50	12
10061-02-6	trans-1,3-Dichloropropene	ND		50	8.5
75-69-4	Trichlorofluoromethane	ND		50	11
75-01-4	Vinyl chloride	ND		50	9.0
1330-20-7	Xylenes, Total	ND		150	29
10061-01-5	cis-1,3-Dichloropropene	ND		50	8.5
100-42-5	Styrene	ND		50	14

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-130
460-00-4	4-Bromofluorobenzene (Surr)	103		70-130
2037-26-5	Toluene-d8 (Surr)	94		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\05061756.D
 Lims ID: 480-117063-A-17
 Client ID: DUP-042517
 Sample Type: Client
 Inject. Date: 07-May-2017 12:57:30 ALS Bottle#: 66 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 50.0000
 Sample Info: 480-117063-A-17
 Misc. Info.: 490-0090567-025
 Operator ID: JJR Instrument ID: HP33
 Method: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 08-May-2017 10:29:41 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: wanguns

Date: 08-May-2017 10:29:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.622	3.635	-0.013	98	615724	30.0	
* 2 Chlorobenzene-d5	117	5.934	5.941	-0.007	86	478322	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.100	8.100	0.000	95	192334	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.202	3.203	-0.001	97	149745	29.0	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.428	3.434	-0.006	0	174977	30.5	
\$ 7 Toluene-d8 (Surr)	98	4.735	4.736	-0.001	99	597792	28.2	
\$ 8 4-Bromofluorobenzene (Surr	95	7.005	7.005	0.000	94	186788	30.9	
14 Vinyl chloride	62	1.347	1.348	-0.001	89	1040	0.1704	
33 Methylene Chloride	84	2.217	2.224	-0.007	92	1234	0.2102	
45 cis-1,2-Dichloroethene	96	2.923	2.929	-0.006	97	130121	22.8	
65 Trichloroethene	130	3.853	3.860	-0.007	96	4606511	819.7	E

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

VOA_ISSS150_W_00015

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061756.D

Injection Date: 07-May-2017 12:57:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: 480-117063-A-17

Lab Sample ID: 490-117063-17

Worklist Smp#: 25

Client ID: DUP-042517

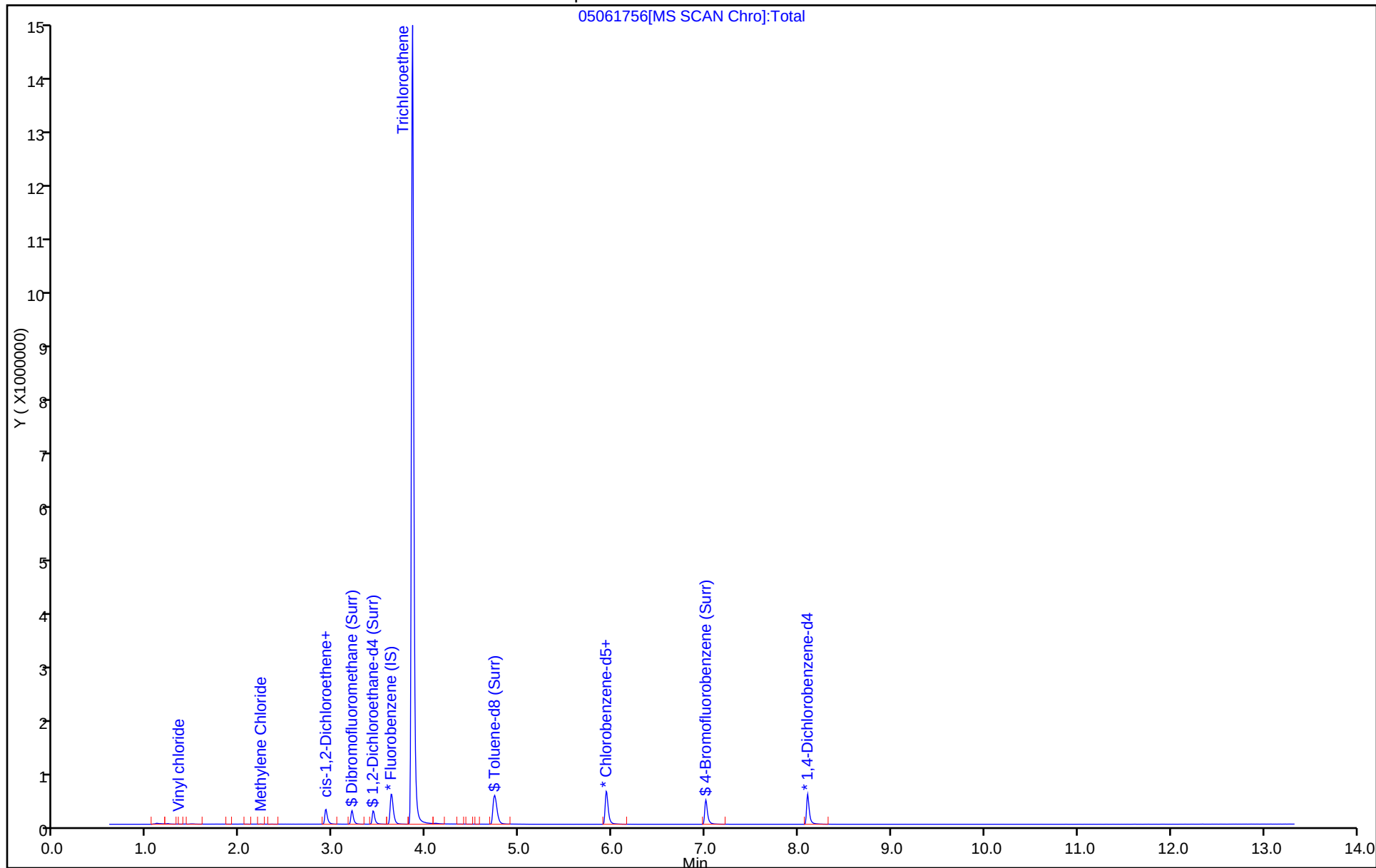
Purge Vol: 5.000 mL

Dil. Factor: 50.0000

ALS Bottle#: 66

Method: 8260HP33

Limit Group: MSV 8260C ICAL



TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061756.D

Injection Date: 07-May-2017 12:57:30

Instrument ID: HP33

Lims ID: 480-117063-A-17

Lab Sample ID: 490-117063-17

Client ID: DUP-042517

Operator ID: JJR

ALS Bottle#: 66

Worklist Smp#: 25

Purge Vol: 5.000 mL

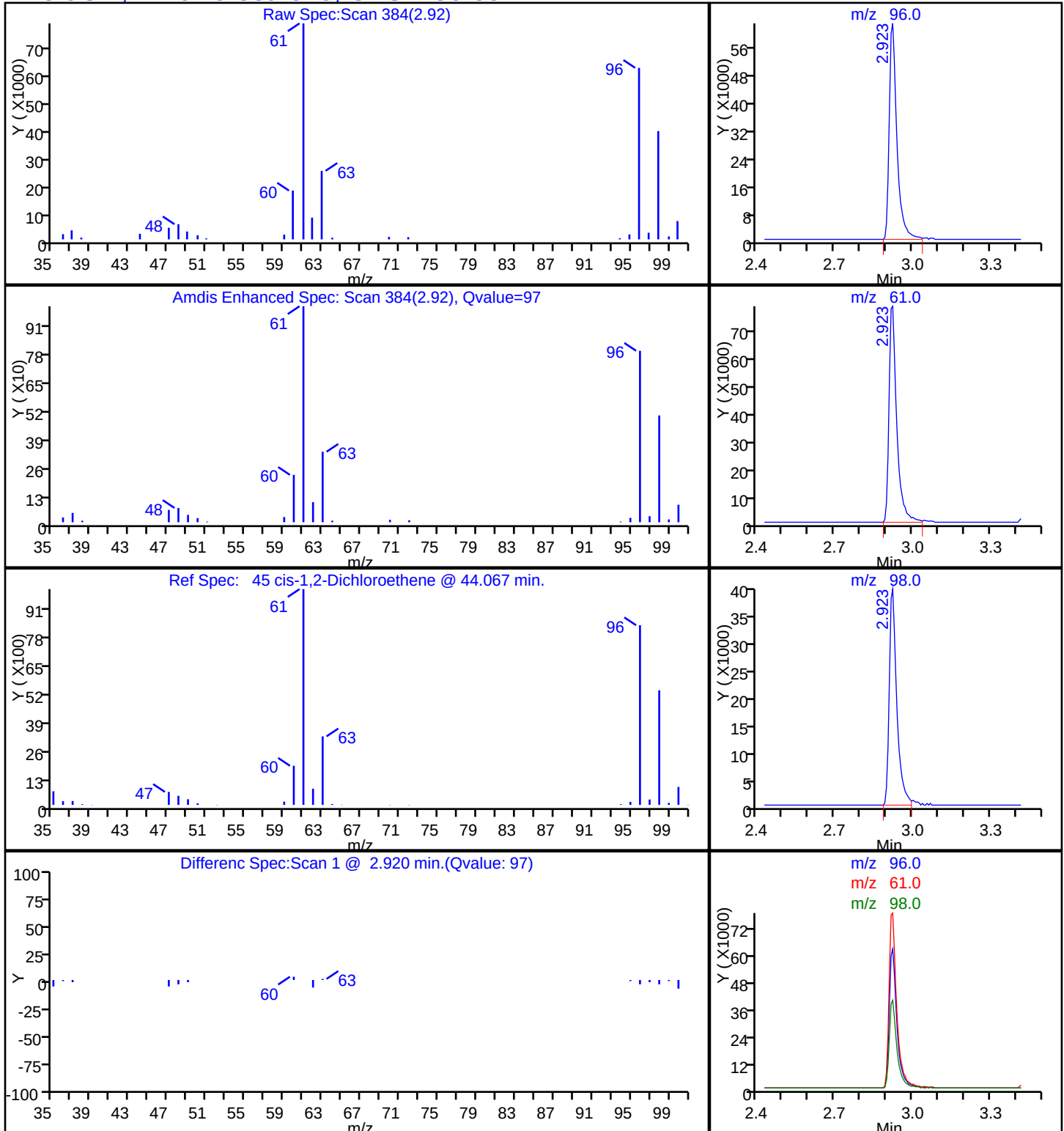
Dil. Factor: 50.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector MS SCAN

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Client Sample ID: DUP-042517 Lab Sample ID: 480-117063-17
 Matrix: Water Lab File ID: 05081712.D
 Analysis Method: 8260C Date Collected: 04/25/2017 00:00
 Sample wt/vol: 10 (mL) Date Analyzed: 05/08/2017 15:20
 Soil Aliquot Vol: _____ Dilution Factor: 500
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 428184 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	38000		500	100

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-130
460-00-4	4-Bromofluorobenzene (Surr)	111		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	101		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP39\20170508-90599.b\05081712.D
 Lims ID: 480-117063-B-17
 Client ID: DUP-042517
 Sample Type: Client
 Inject. Date: 08-May-2017 15:20:30 ALS Bottle#: 12 Worklist Smp#: 12
 Purge Vol: 10.000 mL Dil. Factor: 500.0000
 Sample Info: 480-117063-B-17
 Misc. Info.: 490-0090599-012
 Operator ID: MJH HP-39 Instrument ID: HP39
 Method: \\ChromNA\Nashville\ChromData\HP39\20170508-90599.b\8260HP39.m
 Limit Group: MSV 8260C ICAL
 Method Label: 8260B Volatile Organics 8260/SA/NV05-90
 Last Update: 09-May-2017 11:06:01 Calib Date: 16-Mar-2017 21:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161714.D

Column 1 : Det: MS SCAN

Process Host: XAWRK030

First Level Reviewer: khanphomeea

Date: 09-May-2017 11:06:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.377	4.353	0.024	99	1047044	25.0	
* 2 Chlorobenzene-d5	117	6.793	6.768	0.025	84	838440	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.958	8.934	0.024	93	415283	25.0	
\$ 4 Dibromofluoromethane (Surr	111	3.933	3.909	0.024	94	250166	25.3	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.177	4.152	0.025	98	232995	26.2	
\$ 6 Toluene-d8 (Surr)	98	5.558	5.533	0.025	92	1011380	24.5	
\$ 7 4-Bromofluorobenzene (Surr	95	7.857	7.833	0.024	95	368383	27.8	
42 cis-1,2-Dichloroethene	96	3.605	3.587	0.018	76	33610	2.41	
62 Trichloroethene	130	4.633	4.609	0.024	96	1080151	75.6	

Reagents:

VOA_ISSS_50_W_00040

Amount Added: 5.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP39\\20170508-90599.b\\05081712.D

Injection Date: 08-May-2017 15:20:30

Instrument ID: HP39

Operator ID: MJH HP-39

Lims ID: 480-117063-B-17

Lab Sample ID: 490-117063-17

Worklist Smp#: 12

Client ID: DUP-042517

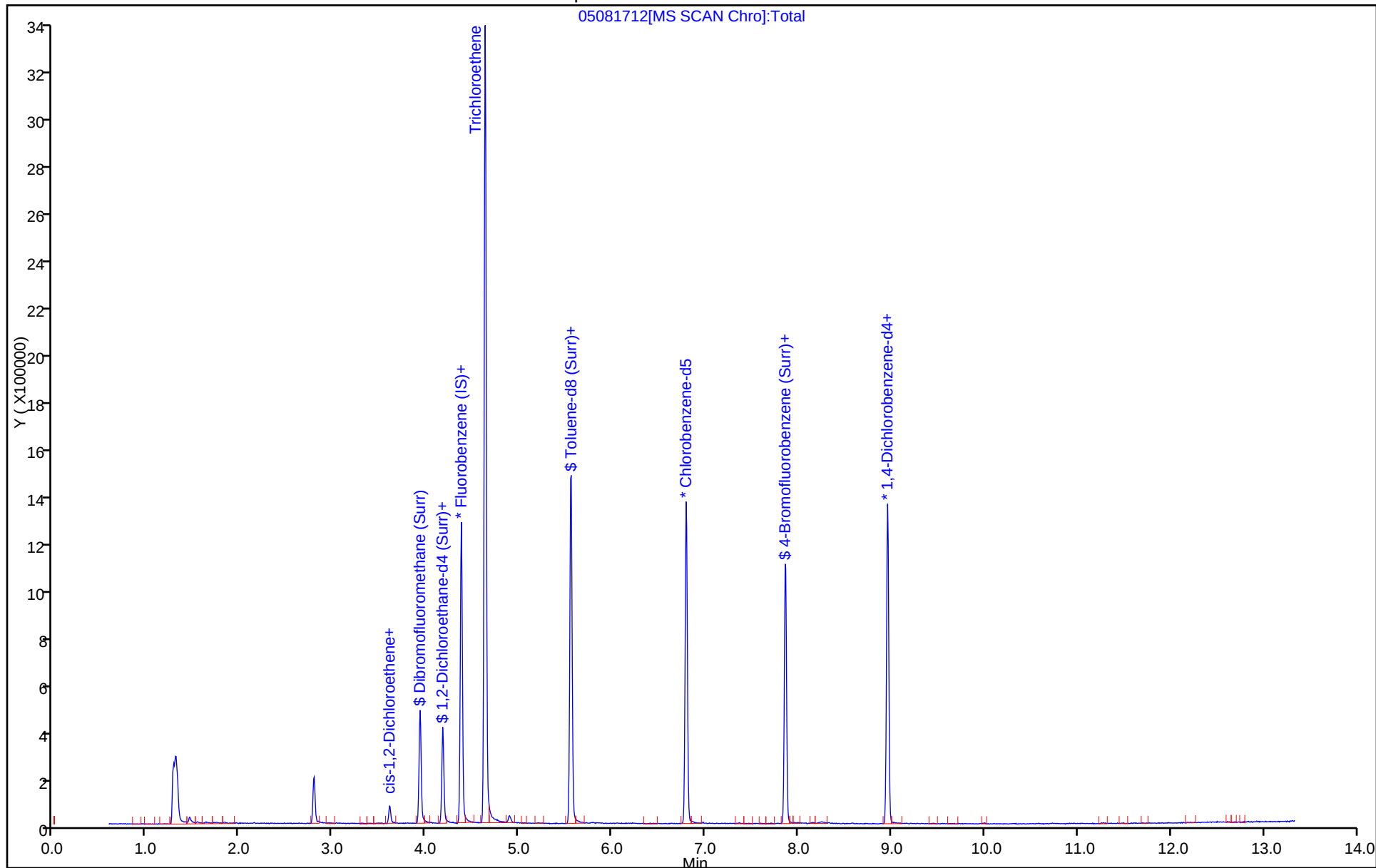
Purge Vol: 10.000 mL

Dil. Factor: 500.0000

ALS Bottle#: 12

Method: 8260HP39

Limit Group: MSV 8260C ICAL



TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP39\\20170508-90599.b\\05081712.D

Injection Date: 08-May-2017 15:20:30

Instrument ID: HP39

Lims ID: 480-117063-B-17

Lab Sample ID: 490-117063-17

Client ID: DUP-042517

Operator ID: MJH HP-39

ALS Bottle#: 12

Worklist Smp#: 12

Purge Vol: 10.000 mL

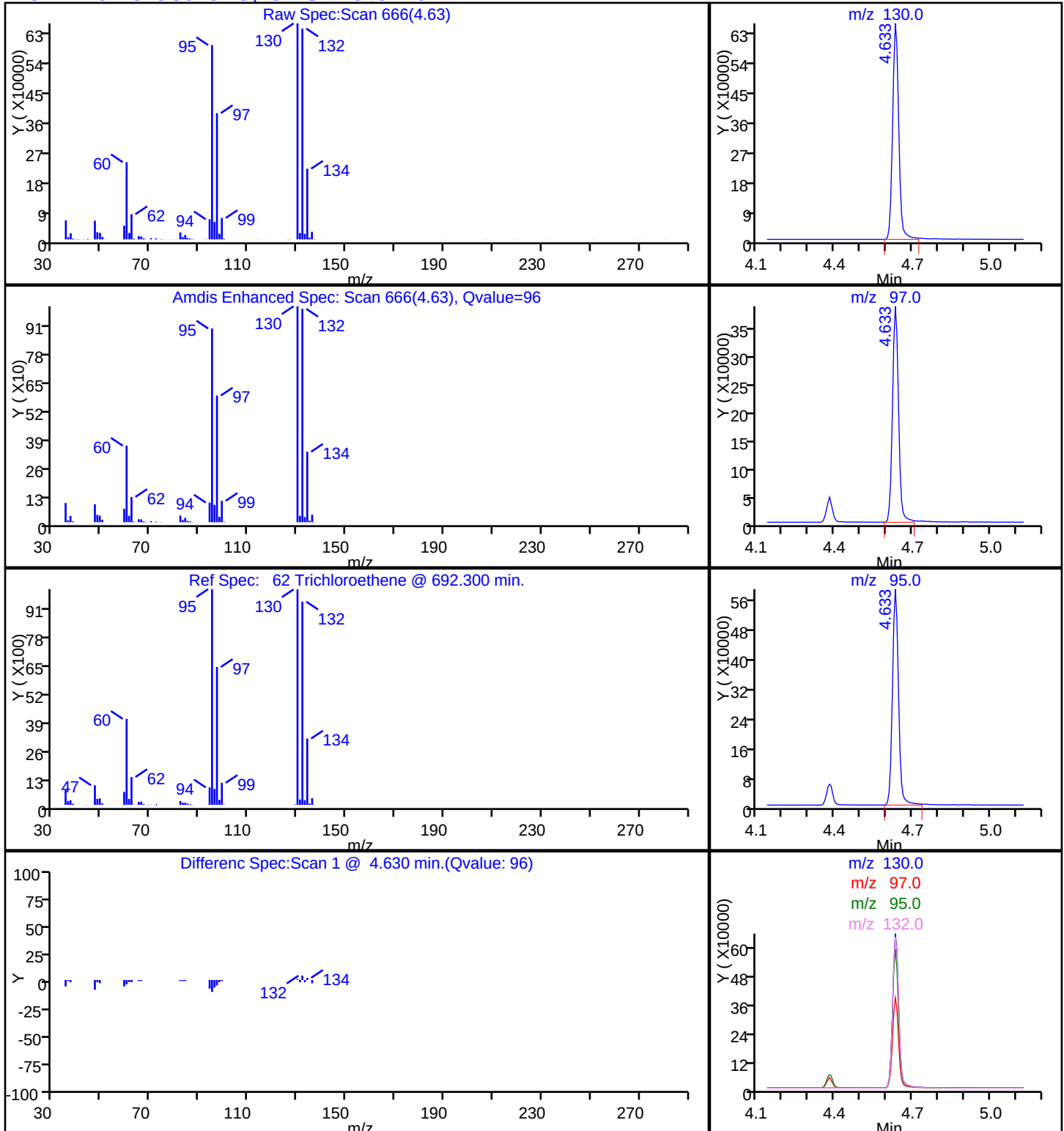
Dil. Factor: 500.0000

Method: 8260HP39

Limit Group: MSV 8260C ICAL

Column:

Detector: MS SCAN

62 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Nashville</u>	Job No.: <u>480-117063-1</u>
SDG No.: _____	
Client Sample ID: <u>TRIP BLANK</u>	Lab Sample ID: <u>480-117063-18</u>
Matrix: <u>Water</u>	Lab File ID: <u>05061740.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/25/2017 00:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>05/07/2017 05:44</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>428030</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.19
75-34-3	1,1-Dichloroethane	ND		1.0	0.24
75-35-4	1,1-Dichloroethene	ND		1.0	0.25
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	0.94
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.19
107-06-2	1,2-Dichloroethane	ND		1.0	0.20
78-87-5	1,2-Dichloropropane	ND		1.0	0.25
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.18
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.17
78-93-3	2-Butanone (MEK)	ND		50	2.6
591-78-6	2-Hexanone	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.81
67-64-1	Acetone	ND		25	2.7
71-43-2	Benzene	ND		1.0	0.20
75-25-2	Bromoform	ND		1.0	0.29
74-83-9	Bromomethane	ND	*	1.0	0.35
75-15-0	Carbon disulfide	ND		1.0	0.22
56-23-5	Carbon tetrachloride	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.25
75-00-3	Chloroethane	ND		1.0	0.36
67-66-3	Chloroform	ND		1.0	0.23
74-87-3	Chloromethane	ND		1.0	0.36
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.21
110-82-7	Cyclohexane	ND		5.0	0.13
75-27-4	Bromodichloromethane	ND		1.0	0.17
75-71-8	Dichlorodifluoromethane	ND	*	1.0	0.17
100-41-4	Ethylbenzene	ND		1.0	0.19
106-93-4	1,2-Dibromoethane	ND		1.0	0.21
98-82-8	Isopropylbenzene	ND		1.0	0.33
79-20-9	Methyl acetate	ND		10	0.58

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Client Sample ID: TRIP BLANK Lab Sample ID: 480-117063-18
 Matrix: Water Lab File ID: 05061740.D
 Analysis Method: 8260C Date Collected: 04/25/2017 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 05/07/2017 05:44
 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.: 428030 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.17
108-87-2	Methylcyclohexane	ND		5.0	0.090
75-09-2	Methylene Chloride	ND		5.0	1.0
127-18-4	Tetrachloroethene	ND		1.0	0.14
108-88-3	Toluene	ND		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.17
79-01-6	Trichloroethene	ND		1.0	0.20
75-69-4	Trichlorofluoromethane	ND		1.0	0.21
75-01-4	Vinyl chloride	ND		1.0	0.18
1330-20-7	Xylenes, Total	ND		3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.17
100-42-5	Styrene	ND		1.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
460-00-4	4-Bromofluorobenzene (Surr)	105		70-130
2037-26-5	Toluene-d8 (Surr)	94		70-130
1868-53-7	Dibromofluoromethane (Surr)	96		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\05061740.D
 Lims ID: 480-117063-A-18
 Client ID: TRIP BLANK
 Sample Type: Client
 Inject. Date: 07-May-2017 05:44:30 ALS Bottle#: 50 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-117063-A-18
 Misc. Info.: 490-0090567-009
 Operator ID: JJR Instrument ID: HP33
 Method: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 08-May-2017 10:03:27 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: wanguns

Date: 08-May-2017 10:04:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.626	3.635	-0.009	98	686944	30.0	
* 2 Chlorobenzene-d5	117	5.938	5.941	-0.003	86	527551	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.103	8.100	0.003	95	218789	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.206	3.203	0.003	97	166253	28.9	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.431	3.434	-0.003	0	192566	30.1	
\$ 7 Toluene-d8 (Surr)	98	4.733	4.736	-0.003	99	655538	28.1	
\$ 8 4-Bromofluorobenzene (Surr	95	7.002	7.005	-0.003	92	216118	31.5	
25 Acetone	58	2.002	2.005	-0.003	47	608	1.22	

Reagents:

VOA_ISSS150_W_00015

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061740.D

Injection Date: 07-May-2017 05:44:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: 480-117063-A-18

Lab Sample ID: 490-117063-18

Worklist Smp#: 9

Client ID: TRIP BLANK

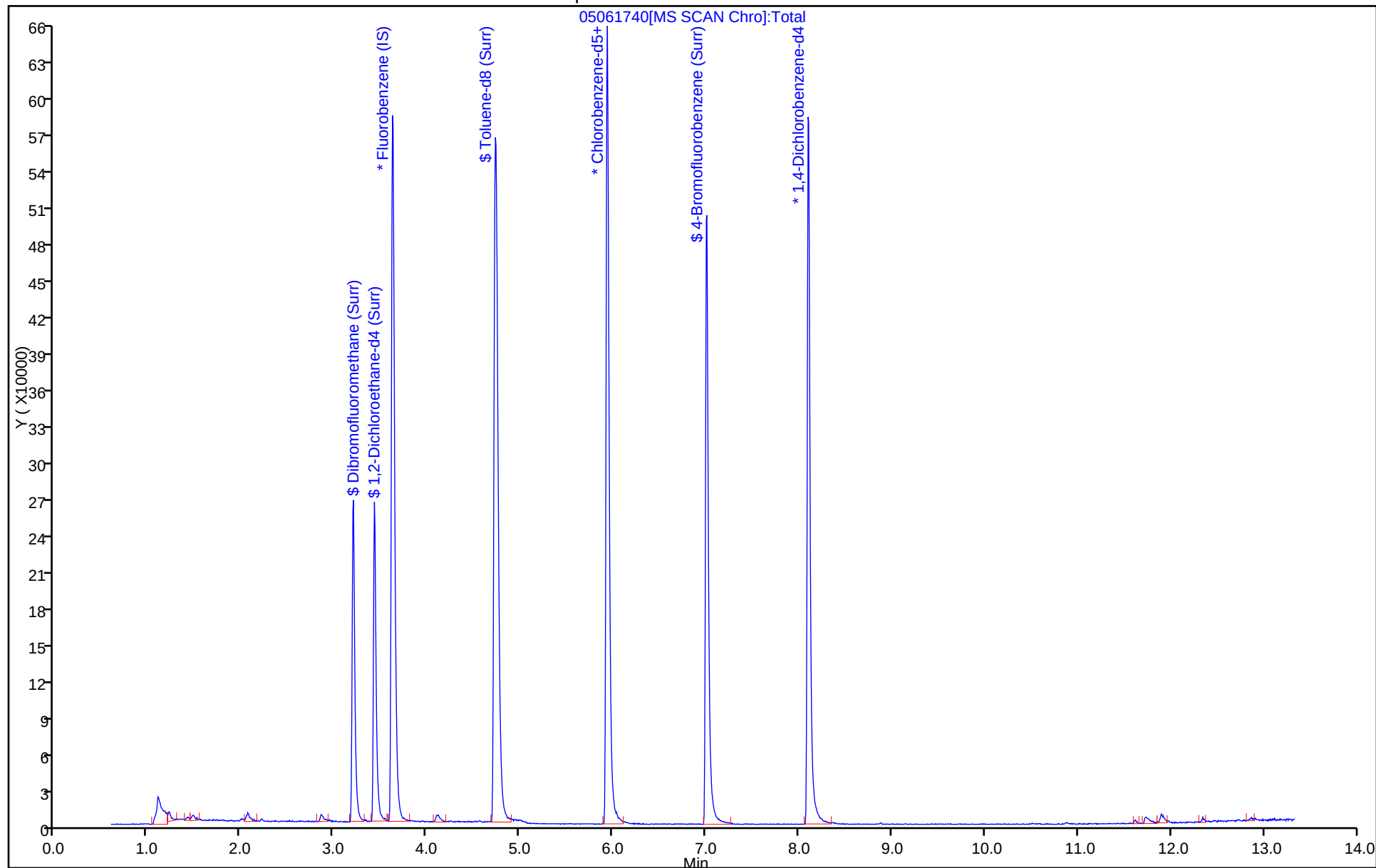
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 50

Method: 8260HP33

Limit Group: MSV 8260C ICAL



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 480-117063-1 Analy Batch No.: 385231

SDG No.: _____

Instrument ID: HP33 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/08/2016 23:21 Calibration End Date: 11/09/2016 02:55 Calibration ID: 61912

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0005 490-385231/2	11081608.D
Level 2	STD001 490-385231/3	11081609.D
Level 3	STD002 490-385231/4	11081610.D
Level 4	STD005 490-385231/5	11081611.D
Level 5	STD010 490-385231/6	11081612.D
Level 6	ICIS 490-385231/7	11081613.D
Level 7	STD050 490-385231/8	11081614.D
Level 8	STD100 490-385231/9	11081615.D
Level 9	STD200 490-385231/10	11081616.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	+++++ 0.1606	0.1321 0.1568	0.1445 0.1663	0.1556 0.1502	0.1489	Ave		0.1519			0.1000	6.9		20.0			
Chloromethane	+++++ 0.2421	0.3421 +++++	0.2767 +++++	0.2463 +++++	0.2341	Ave		0.2683			0.1000	16.5		20.0			
Vinyl chloride	0.2368 0.3131	0.2959 0.3151	0.2901 0.3271	0.2964 0.3050	0.2977	Ave		0.2975			0.1000	8.6		20.0			
Butadiene	0.2339 0.3289	0.2801 0.3270	0.2952 0.3297	0.3048 0.3064	0.3030	Ave		0.3010			0.1000	10.0		20.0			
Bromomethane	0.2839 0.1266	0.2168 0.1198	0.1795 0.1074	0.1452 +++++	0.1337	Lin2	0.0847	0.1231			0.1000				0.9910		0.9900
Chloroethane	0.1540 0.2032	0.1923 0.1984	0.2009 0.1910	0.2056 +++++	0.2027	Ave		0.1935			0.1000	8.7		20.0			
Dichlorofluoromethane	0.3393 0.4724	0.4477 0.4748	0.4436 0.4923	0.4521 0.4446	0.4664	Ave		0.4481			0.1000	9.8		20.0			
Trichlorofluoromethane	0.2624 0.3675	0.3301 0.3656	0.3403 0.3701	0.3557 0.3276	0.3450	Ave		0.3405			0.1000	9.8		20.0			
Ethanol	+++++ 0.0010	0.0019 0.0011	0.0014 +++++	0.0010 +++++	0.0011	Lin1	0.0245	0.0011			0.0010				0.9940		0.9900
Ethyl ether	0.1630 0.2293	0.2234 0.2317	0.2129 0.2542	0.2248 0.2371	0.2293	Ave		0.2229			0.1000	11.3		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.2461	0.2210 0.2429	0.2285 0.2555	0.2338 0.2413	0.2314	Ave		0.2376			0.1000	4.6		20.0			
Acrolein	+++++ 0.0112	0.0101 0.0130	0.0117 +++++	0.0115 +++++	0.0094	Ave		0.0112			0.0100	11.2		20.0			
1,1-Dichloroethene	0.1644 0.2357	0.1957 0.2344	0.2192 0.2459	0.2272 0.2313	0.2224	Ave		0.2196			0.1000	11.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 480-117063-1 Analy Batch No.: 385231

SDG No.: _____

Instrument ID: HP33 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/08/2016 23:21 Calibration End Date: 11/09/2016 02:55 Calibration ID: 61912

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	++++ 0.0213	0.0247 0.0204	0.0220 0.0225	0.0208 0.0211	0.0211	Ave		0.0217			0.0100	6.3		20.0			
Iodomethane	++++ 0.2907	++++ 0.3054	0.1942 0.3304	0.2365 0.2899	0.2618	Ave		0.2727			0.1000	16.8		20.0			
Isopropyl alcohol	++++ 0.0108	++++ 0.0116	0.0129 0.0128	0.0111 0.0142	0.0113	Ave		0.0121			0.0010	10.1		20.0			
Carbon disulfide	0.7060 0.6971	0.7030 0.6882	0.7006 0.7020	0.6925 0.6570	0.6813	Ave		0.6920			0.1000	2.2		20.0			
3-Chloro-1-propene	++++ 0.2621	0.2024 0.2635	0.2029 0.3071	0.2162 0.2682	0.2221	Ave		0.2431			0.1000	15.5		20.0			
Methyl acetate	0.1724 0.1792	0.1742 0.1788	0.1814 0.1917	0.1741 0.1732	0.1701	Ave		0.1772			0.1000	3.7		20.0			
Methylene Chloride	++++ 0.2748	0.3349 0.2669	0.3039 0.2840	0.2808 0.2664	0.2767	Ave		0.2861			0.0100	8.0		20.0			
2-Methyl-2-propanol	++++ 0.0183	0.0176 0.0188	0.0179 0.0233	0.0183 0.0220	0.0173	Ave		0.0192			0.0010	11.6		20.0			
Methyl tert-butyl ether	0.5190 0.7229	0.6505 0.7201	0.7013 0.7930	0.7022 0.7353	0.7152	Ave		0.6955			0.1000	10.9		20.0			
trans-1,2-Dichloroethene	0.2487 0.3825	0.3382 0.3754	0.3574 0.3961	0.3572 0.3704	0.3661	Ave		0.3547			0.1000	12.1		20.0			
Acrylonitrile	0.0607 0.0910	0.0854 0.0932	0.0845 ++++	0.0887 ++++	0.0906	Ave		0.0849			0.0100	13.1		20.0			
n-Hexane	0.3504 0.4542	0.4184 0.4431	0.4361 0.4699	0.4327 0.4347	0.4149	Ave		0.4283			0.1000	7.9		20.0			
Isopropyl ether	0.8150 0.9450	0.9629 0.9281	0.8783 1.0016	0.9202 0.9043	0.9218	Ave		0.9197			0.1000	5.7		20.0			
1,1-Dichloroethane	0.3728 0.4903	0.4460 0.4865	0.4531 0.5159	0.4742 0.4762	0.4772	Ave		0.4658			0.2000	8.7		20.0			
Vinyl acetate	0.0248 0.0599	0.0473 0.0596	0.0511 0.0680	0.0553 0.0639	0.0577	Lin2	-0.036	0.0620		*	0.1000				0.9970		0.9900
2-Chloro-1,3-butadiene	0.3282 0.4403	0.4182 0.4549	0.4249 0.4832	0.4175 0.4499	0.4136	Ave		0.4256			0.1000	10.1		20.0			
Tert-butyl ethyl ether	0.6326 0.8432	0.7771 0.8432	0.8047 0.9097	0.8277 0.8452	0.8380	Ave		0.8135			0.1000	9.4		20.0			
2,2-Dichloropropane	0.2679 0.3782	0.3475 0.3751	0.3561 0.4005	0.3702 0.3771	0.3596	Ave		0.3591			0.1000	10.4		20.0			
cis-1,2-Dichloroethene	0.2115 0.2954	0.2537 0.2920	0.2679 0.3135	0.2836 0.2964	0.2879	Ave		0.2780			0.1000	10.9		20.0			
Ethyl acetate	++++ 0.0282	0.0219 0.0282	0.0246 0.0321	0.0271 0.0301	0.0261	Ave		0.0273			0.0100	11.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 480-117063-1 Analy Batch No.: 385231

SDG No.: _____

Instrument ID: HP33 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/08/2016 23:21 Calibration End Date: 11/09/2016 02:55 Calibration ID: 61912

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)	0.0208 0.0268	0.0246 0.0282	0.0255 0.0314	0.0266 0.0292	0.0256	Ave		0.0265			0.0100	11.3		20.0			
Propionitrile	++++ 0.0337	0.0280 0.0337	0.0314 0.0374	0.0309 0.0343	0.0313	Ave		0.0326			0.0100	8.7		20.0			
Chlorobromomethane	0.1191 0.1751	0.1475 0.1625	0.1633 0.1716	0.1649 0.1568	0.1671	Ave		0.1587			0.1000	10.6		20.0			
Methacrylonitrile	0.1313 0.1590	0.1467 0.1568	0.1495 0.1680	0.1526 0.1395	0.1555	Ave		0.1510			0.1000	7.2		20.0			
Tetrahydrofuran	0.0712 0.0932	0.1009 0.0944	0.0953 0.1041	0.0948 0.0937	0.0910	Ave		0.0932			0.0500	9.9		20.0			
Chloroform	0.3351 0.4504	0.4333 0.4340	0.4192 0.4694	0.4367 0.4346	0.4359	Ave		0.4276			0.2000	8.7		20.0			
Cyclohexane	0.4000 0.5401	0.4752 0.5336	0.4956 0.5638	0.4914 0.5205	0.4816	Ave		0.5002			0.1000	9.6		20.0			
1,1,1-Trichloroethane	0.2680 0.3880	0.3461 0.3812	0.3564 0.4095	0.3611 0.3842	0.3604	Ave		0.3616			0.1000	11.1		20.0			
Carbon tetrachloride	0.2127 0.3171	0.2716 0.3308	0.2899 0.3538	0.3035 0.3343	0.2966	Ave		0.3011			0.1000	13.8		20.0			
1,1-Dichloropropene	0.2567 0.3648	0.3365 0.3675	0.3316 0.3921	0.3549 0.3692	0.3440	Ave		0.3464			0.1000	11.1		20.0			
Isobutyl alcohol	++++ 0.0177	0.0140 0.0179	0.0155 0.0189	0.0164 0.0169	0.0164	Ave		0.0167			0.0010	9.1		20.0			
Benzene	0.9244 1.1160	1.0481 1.1014	1.0299 1.1616	1.0860 1.0317	1.0837	Ave		1.0647			0.5000	6.3		20.0			
t-Amyl alcohol	0.0125 0.0169	0.0154 0.0176	0.0166 0.0201	0.0160 0.0192	0.0166	Ave		0.0168			0.0010	13.2		20.0			
Tert-amyl methyl ether	0.6209 0.8596	0.7848 0.8659	0.8022 0.9649	0.8166 0.8790	0.8258	Ave		0.8244			0.1000	11.3		20.0			
1,2-Dichloroethane	0.2359 0.3406	0.3229 0.3376	0.3252 0.3643	0.3367 0.3397	0.3333	Ave		0.3262			0.1000	11.0		20.0			
n-Heptane	0.3590 0.4678	0.4448 0.4625	0.4320 0.5090	0.4462 0.4735	0.4481	Ave		0.4492			0.1000	9.0		20.0			
n-Butanol	0.0045 0.0051	0.0052 0.0055	0.0040 0.0064	0.0044 0.0060	0.0046	Ave		0.0051			0.0010	15.6		20.0			
Trichloroethene	++++ 0.2805	0.2431 0.2826	0.2577 0.3052	0.2644 0.2850	0.2720	Ave		0.2738			0.2000	6.9		20.0			
Ethyl acrylate	0.5457 0.7523	0.6711 0.7495	0.6933 0.8187	0.7099 0.7514	0.6969	Ave		0.7099			0.1000	10.7		20.0			
Methylcyclohexane	0.3996 0.5433	0.4765 0.5349	0.5051 0.5739	0.5030 0.5333	0.4898	Ave		0.5066			0.1000	9.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 480-117063-1 Analy Batch No.: 385231
SDG No.: _____
Instrument ID: HP33 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 11/08/2016 23:21 Calibration End Date: 11/09/2016 02:55 Calibration ID: 61912

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	0.2080 0.2854	0.2608 0.2813	0.2705 0.3049	0.2780 0.2882	0.2746	Ave		0.2724			0.1000	9.9		20.0			
Methyl methacrylate	++++ 0.2487	++++ 0.2424	0.4479 0.2637	0.3114 0.2420	0.2598	Lin2	0.8212	0.2361			0.1000				0.9960		0.9900
Dibromomethane	++++ 0.1462	0.1185 0.1444	0.1386 0.1606	0.1420 0.1518	0.1422	Ave		0.1430			0.0500	8.5		20.0			
1,4-Dioxane	++++ 0.0022	++++ 0.0025	0.0029 0.0028	0.0020 0.0028	0.0019	Ave		0.0024			0.0010	17.5		20.0			
Bromodichloromethane	0.2129 0.3161	0.2462 0.3213	0.2609 0.3564	0.2870 0.3388	0.3011	Ave		0.2934			0.2000	15.8		20.0			
2-Nitropropane	0.1627 0.1217	0.1276 0.1285	0.1240 0.1465	0.1111 0.1372	0.1116	Ave		0.1301			0.0100	12.8		20.0			
2-Chloroethyl vinyl ether	++++ 0.2125	0.1753 0.2168	0.1898 0.2446	0.2021 0.2235	0.2089	Ave		0.2092			0.1000	10.1		20.0			
cis-1,3-Dichloropropene	++++ 0.5654	0.5028 0.5771	0.4882 0.6295	0.5235 0.5773	0.5499	Ave		0.5517			0.2000	8.3		20.0			
4-Methyl-2-pentanone (MIBK)	++++ 0.1273	0.1094 0.1256	0.1131 0.1397	0.1095 0.1244	0.1150	Ave		0.1205			0.0500	8.8		20.0			
Toluene	1.2977 1.5685	1.5252 1.5110	1.5326 1.5878	1.5628 1.3612	1.5276	Ave		1.4972			0.4000	6.6		20.0			
trans-1,3-Dichloropropene	++++ 0.4810	0.3945 0.4938	0.4167 0.5502	0.4308 0.5105	0.4474	Ave		0.4656			0.0100	11.2		20.0			
Ethyl methacrylate	0.3185 0.4459	0.3868 0.4559	0.4027 0.5117	0.4296 0.4695	0.4397	Ave		0.4289			0.1000	12.8		20.0			
1,1,2-Trichloroethane	++++ 0.2881	0.2407 0.2819	0.2783 0.3142	0.2844 0.2900	0.2830	Ave		0.2826			0.1000	7.2		20.0			
Tetrachloroethene	0.2839 0.4142	0.3903 0.4000	0.3867 0.4372	0.3958 0.4010	0.3949	Ave		0.3893			0.2000	10.9		20.0			
1,3-Dichloropropane	0.3609 0.5095	0.4759 0.4991	0.4724 0.5568	0.4974 0.5206	0.4962	Ave		0.4876			0.1000	11.0		20.0			
2-Hexanone	++++ 0.0986	0.0755 0.1011	0.0881 0.1189	0.0934 0.1125	0.0964	Ave		0.0981			0.0500	13.8		20.0			
n-Butyl acetate	0.3238 0.3374	0.3875 0.3551	0.2697 0.4311	0.3120 0.4169	0.3608	Ave		0.3549			0.1000	14.5		20.0			
Dibromochloromethane	++++ 0.2247	0.1639 0.2377	0.1876 0.2743	0.1939 0.2625	0.2103	Ave		0.2194			0.1000	17.3		20.0			
1,2-Dibromoethane	++++ 0.2772	0.2191 0.2760	0.2448 0.3078	0.2547 0.2887	0.2650	Ave		0.2667			0.1000	10.3		20.0			
1-Chlorohexane	0.3345 0.3787	0.3551 0.3850	0.3309 0.4249	0.3414 0.4081	0.3395	Ave		0.3665			0.1000	9.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 480-117063-1 Analy Batch No.: 385231
SDG No.: _____
Instrument ID: HP33 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 11/08/2016 23:21 Calibration End Date: 11/09/2016 02:55 Calibration ID: 61912

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	0.7289 0.9847	0.8909 0.9575	0.9351 1.0278	0.9642 0.9367	0.9700	Ave		0.9329			0.5000	9.1		20.0			
Ethylbenzene	1.2488 1.7073	1.5101 1.6693	1.5615 1.7749	1.5878 1.5209	1.5996	Ave		1.5756			0.1000	9.5		20.0			
1,1,1,2-Tetrachloroethane	++++ 0.3377	0.2575 0.3350	0.2686 0.3745	0.3037 0.3498	0.3180	Ave		0.3181			0.1000	12.6		20.0			
m-Xylene & p-Xylene	0.9313 1.3167	1.1242 1.2909	1.1995 1.3889	1.2204 1.2472	1.2209	Ave		1.2156			0.1000	10.7		20.0			
o-Xylene	0.9007 1.3394	1.1245 1.3106	1.1601 1.4168	1.2465 1.2658	1.2696	Ave		1.2260			0.3000	12.3		20.0			
Styrene	++++ 1.0981	0.7963 1.0915	0.9119 1.1837	1.0080 1.0634	1.0392	Ave		1.0240			0.3000	11.8		20.0			
Bromoform	0.0725 0.1803	0.1220 0.1954	0.1303 ++++	0.1522 ++++	0.1621	Lin2	-0.054	0.1746			0.0100				0.9920		0.9900
Isopropylbenzene	1.0901 1.7500	1.3817 1.7009	1.4785 1.7674	1.5913 1.5051	1.6360	Ave		1.5446			0.1000	13.8		20.0			
Cyclohexanone	0.0076 0.0064	0.0066 0.0066	0.0063 0.0078	0.0060 0.0073	0.0058	Ave		0.0067			0.0010	10.5		20.0			
Bromobenzene	0.9563 1.2575	1.1639 1.2304	1.1475 1.3751	1.2261 1.2583	1.2153	Ave		1.2034			0.1000	9.4		20.0			
1,1,2,2-Tetrachloroethane	++++ 0.6532	0.5913 0.6526	0.5910 0.7334	0.6289 0.6759	0.6349	Ave		0.6452			0.3000	7.2		20.0			
N-Propylbenzene	3.0061 4.2098	3.6323 4.1086	3.7590 4.3476	3.9873 3.6041	3.9908	Ave		3.8495			0.1000	10.5		20.0			
1,2,3-Trichloropropane	++++ 0.2088	0.1861 0.2137	0.1965 0.2417	0.2097 0.2191	0.2103	Ave		0.2108			0.1000	7.7		20.0			
trans-1,4-Dichloro-2-butene	++++ 0.1772	++++ 0.1866	++++ 0.2210	0.1596 0.2074	0.1607	Ave		0.1854			0.1000	13.4		20.0			
2-Chlorotoluene	2.0691 2.6408	2.6252 2.7059	2.5502 2.8862	2.6649 2.5938	2.5513	Ave		2.5875			0.1000	8.5		20.0			
1,3,5-Trimethylbenzene	2.2884 3.0186	2.7250 3.0695	2.9995 3.2842	3.1347 2.8554	3.0785	Ave		2.9393			0.1000	9.9		20.0			
4-Chlorotoluene	1.7737 2.5902	2.3004 2.5552	2.1334 2.7840	2.3852 2.4187	2.5365	Ave		2.3864			0.1000	12.4		20.0			
tert-Butylbenzene	1.8909 2.6135	2.2484 2.5764	2.2945 2.7618	2.4204 2.3790	2.4903	Ave		2.4084			0.1000	10.5		20.0			
1,2,4-Trimethylbenzene	1.9132 2.9081	2.4451 2.8976	2.5781 3.1363	2.7634 2.7352	2.8026	Ave		2.6866			0.1000	13.1		20.0			
sec-Butylbenzene	2.6857 3.9138	3.4049 3.8608	3.5065 4.0360	3.6926 3.3082	3.7267	Ave		3.5706			0.1000	11.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 480-117063-1 Analy Batch No.: 385231
SDG No.: _____
Instrument ID: HP33 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 11/08/2016 23:21 Calibration End Date: 11/09/2016 02:55 Calibration ID: 61912

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								
4-Isopropyltoluene	2.1141 3.3789	2.7799 3.2827	2.8116 3.4483	3.1399 2.9280	3.1711	Ave		3.0061			0.1000	13.6		20.0			
1,3-Dichlorobenzene	1.1597 1.5860	1.4436 1.5523	1.4828 1.6861	1.5732 1.4985	1.5489	Ave		1.5035			0.6000	9.7		20.0			
1,4-Dichlorobenzene	1.2916 1.5612	1.5751 1.5446	1.5669 1.6779	1.5421 1.5382	1.5356	Ave		1.5370			0.5000	6.6		20.0			
1,2,3-Trimethylbenzene	2.0586 2.8975	2.6757 2.8751	2.6439 3.1054	2.8827 2.7187	2.8583	Ave		2.7462			0.1000	10.7		20.0			
Benzyl chloride	++++ 0.5255	++++ 0.5668	0.3803 0.6517	0.4376 0.6152	0.4778	Ave		0.5222			0.0100	18.6		20.0			
n-Butylbenzene	1.9631 2.8564	2.4178 2.8155	2.4299 2.9596	2.5888 2.5783	2.6797	Ave		2.5877			0.1000	11.6		20.0			
1,2-Dichlorobenzene	1.0300 1.4324	1.2587 1.3940	1.3076 1.5163	1.4091 1.3740	1.4277	Ave		1.3500			0.4000	10.4		20.0			
1,2-Dibromo-3-Chloropropane	++++ 0.1000	++++ 0.1117	++++ 0.1328	0.0866 0.1250	0.0891	Ave		0.1075			0.0100	17.6		20.0			
1,3,5-Trichlorobenzene	++++ 1.0035	0.8299 0.9975	0.8760 1.0984	0.9244 0.9841	0.9620	Ave		0.9595			0.1000	8.7		20.0			
1,2,4-Trichlorobenzene	0.2581 0.6749	0.4409 0.7091	0.5695 0.7842	0.5890 0.7145	0.6397	Lin2	-0.231	0.6977			0.2000				0.9950		0.9900
Hexachlorobutadiene	++++ 0.4670	0.3898 0.4669	0.4141 0.5060	0.4335 0.4555	0.4286	Ave		0.4452			0.1000	8.1		20.0			
Naphthalene	++++ 1.1768	0.8743 1.2423	0.9818 1.4124	0.9893 1.3154	1.0908	Ave		1.1354			0.0100	16.2		20.0			
1,2,3-Trichlorobenzene	++++ 0.4949	0.3528 0.5004	0.4037 0.5525	0.4287 0.5114	0.4600	Ave		0.4630			0.1000	14.0		20.0			
2-Methylnaphthalene	++++ 0.2321	++++ 0.2383	++++ 0.2950	++++ 0.3007	0.1992	Ave		0.2530			0.0100	17.2		20.0			
1-Methylnaphthalene	++++ 0.1868	++++ 0.1812	++++ 0.2235	0.1335 0.2226	0.1605	Ave		0.1847			0.1000	19.0		20.0			
Dibromofluoromethane (Surr)	0.2530 0.2522	0.2521 0.2541	0.2517 0.2493	0.2488 0.2499	0.2508	Ave		0.2513				0.7		20.0			
1,2-Dichloroethane-d4 (Surr)	0.2769 0.2827	0.2720 0.3083	0.2737 0.2746	0.2706 0.2787	0.2757	Ave		0.2792				4.1		20.0			
Toluene-d8 (Surr)	1.3564 1.3254	1.3359 1.3025	1.3690 1.3000	1.3335 1.2689	1.3566	Ave		1.3276				2.4		20.0			
4-Bromofluorobenzene (Surr)	0.9443 0.9351	0.9507 0.9461	0.9435 0.9583	0.9343 0.9313	0.9290	Ave		0.9414				1.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 480-117063-1 Analy Batch No.: 385231

SDG No.: _____

Instrument ID: HP33 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/08/2016 23:21 Calibration End Date: 11/09/2016 02:55 Calibration ID: 61912

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0005 490-385231/2	11081608.D
Level 2	STD001 490-385231/3	11081609.D
Level 3	STD002 490-385231/4	11081610.D
Level 4	STD005 490-385231/5	11081611.D
Level 5	STD010 490-385231/6	11081612.D
Level 6	ICIS 490-385231/7	11081613.D
Level 7	STD050 490-385231/8	11081614.D
Level 8	STD100 490-385231/9	11081615.D
Level 9	STD200 490-385231/10	11081616.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	++++ 84040	3395 209564	7560 474249	20398 869901	38063	++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Chloromethane	FB	Ave	++++ 126676	8791 ++++	14480 ++++	32272 ++++	59851	++++ 20.0	1.00 ++++	2.00 ++++	5.00 ++++	10.0
Vinyl chloride	FB	Ave	3081 163816	7603 421032	15179 933052	38842 1766802	76103	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Butadiene	FB	Ave	3043 172076	7196 437001	15449 940434	39949 1775132	77478	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Bromomethane	FB	Lin2	3693 66258	5572 160047	9394 306395	19032 ++++	34195	0.500 20.0	1.00 50.0	2.00 100	5.00 ++++	10.0
Chloroethane	FB	Ave	2004 106343	4942 265120	10515 544933	26938 ++++	51829	0.500 20.0	1.00 50.0	2.00 100	5.00 ++++	10.0
Dichlorofluoromethane	FB	Ave	4414 247211	11504 634519	23210 1404134	59250 2575826	119241	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Trichlorofluoromethane	FB	Ave	3413 192321	8483 488606	17807 1055781	46610 1897860	88214	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Ethanol	FB	Lin1	++++ 21863	1953 61077	2998 ++++	5390 ++++	10950	++++ 800	40.0 2000	80.0 ++++	200 ++++	400
Ethyl ether	FB	Ave	2121 119971	5741 309589	11138 725078	29461 1373734	58631	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	++++ 128756	5678 324626	11957 728916	30638 1398148	59162	++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Acrolein	FB	Ave	++++ 14676	650 43274	1529 ++++	3784 ++++	6021	++++ 50.0	2.50 125	5.00 ++++	12.5 ++++	25.0
1,1-Dichloroethene	FB	Ave	2139 123345	5028 313173	11472 701528	29775 1340114	56851	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Acetone	FB	Ave	++++ 55821	3170 136168	5752 320922	13648 610646	26924	++++ 100	5.00 250	10.0 500	25.0 1000	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 480-117063-1 Analy Batch No.: 385231

SDG No.: _____

Instrument ID: HP33 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/08/2016 23:21 Calibration End Date: 11/09/2016 02:55 Calibration ID: 61912

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	Ave	++++ 152108	++++ 408092	10162 942518	30994 1679675	66938	++++ 20.0	++++ 50.0	2.00 100	5.00 200	10.0
Isopropyl alcohol	FB	Ave	++++ 56704	++++ 155335	6774 366284	14551 822524	28943	++++ 200	++++ 500	20.0 1000	50.0 2000	100
Carbon disulfide	FB	Ave	9184 364790	18065 919694	36663 2002314	90751 3806039	174181	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
3-Chloro-1-propene	FB	Ave	++++ 137151	5200 352154	10616 876024	28337 1553559	56782	++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Methyl acetate	FB	Ave	11215 468728	22377 1194704	47456 2733739	114105 5016512	217470	2.50 100	5.00 250	10.0 500	25.0 1000	50.0
Methylene Chloride	FB	Ave	++++ 143774	8606 356730	15903 810197	36799 1543291	70739	++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0
2-Methyl-2-propanol	FB	Ave	++++ 95807	4518 251838	9356 665663	23925 1273095	44206	++++ 200	10.0 500	20.0 1000	50.0 2000	100
Methyl tert-butyl ether	FB	Ave	6752 378285	16714 962245	36697 2261883	92025 4259734	182861	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
trans-1,2-Dichloroethene	FB	Ave	3235 200126	8689 501643	18702 1129900	46815 2145632	93602	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Acrylonitrile	FB	Ave	7897 476325	21945 1245364	44192 ++++	116190 ++++	231648	5.00 200	10.0 500	20.0 ++++	50.0 ++++	100
n-Hexane	FB	Ave	4558 237650	10751 592086	22821 1340445	56710 2518354	106083	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Isopropyl ether	FB	Ave	10603 494470	24741 1240197	45957 2857077	120599 5238795	235680	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,1-Dichloroethane	FB	Ave	4850 256533	11460 650170	23712 1471502	62147 2758642	122007	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Vinyl acetate	FB	Lin2	646 62659	2429 159240	5349 387758	14489 740231	29484	1.00 40.0	2.00 100	4.00 200	10.0 400	20.0
2-Chloro-1,3-butadiene	FB	Ave	4270 230385	10747 607960	22235 1378233	54709 2606530	105735	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Tert-butyl ethyl ether	FB	Ave	8229 441218	19969 1126740	42106 2594711	108465 4896691	214249	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
2,2-Dichloropropane	FB	Ave	3485 197889	8930 501321	18635 1142477	48515 2184598	91931	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
cis-1,2-Dichloroethene	FB	Ave	2751 154566	6520 390173	14016 894285	37164 1716911	73618	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Ethyl acetate	FB	Ave	++++ 29546	1127 75484	2571 182857	7110 348916	13338	++++ 40.0	2.00 100	4.00 200	10.0 400	20.0
2-Butanone (MEK)	FB	Ave	1355 70090	3165 188259	6669 447615	17462 844907	32666	2.50 100	5.00 250	10.0 500	25.0 1000	50.0
Propionitrile	FB	Ave	++++ 176305	7184 450650	16428 1067996	40437 1988652	80132	++++ 200	10.0 500	20.0 1000	50.0 2000	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 480-117063-1 Analy Batch No.: 385231

SDG No.: _____

Instrument ID: HP33 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/08/2016 23:21 Calibration End Date: 11/09/2016 02:55 Calibration ID: 61912

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
Chlorobromomethane	FB	Ave	1550 91623	3791 217089	8544 489375	21613 908470	42724	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Methacrylonitrile	FB	Ave	17086 832051	37696 2095243	78205 4791208	199954 8081076	397587	5.00 200	10.0 500	20.0 1000	50.0 2000	100
Tetrahydrofuran	FB	Ave	1853 97541	5184 252182	9978 594147	24857 1085853	46538	1.00 40.0	2.00 100	4.00 200	10.0 400	20.0
Chloroform	FB	Ave	4359 235691	11134 580000	21938 1338979	57224 2517634	111440	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Cyclohexane	FB	Ave	5204 282618	12211 713061	25935 1608230	64397 3015775	123133	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,1,1-Trichloroethane	FB	Ave	3486 203023	8892 509405	18648 1168176	47318 2225591	92135	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Carbon tetrachloride	FB	Ave	2767 165924	6979 442021	15172 1009078	39770 1936484	75828	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,1-Dichloropropene	FB	Ave	3339 190870	8646 491136	17354 1118557	46511 2138805	87952	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Isobutyl alcohol	FB	Ave	++++ 231111	8990 596514	20252 1349955	53599 2451257	104599	++++ 500	25.0 1250	50.0 2500	125 5000	250
Benzene	FB	Ave	12025 583967	26931 1471786	53890 3313461	142319 5977115	277072	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
t-Amyl alcohol	FB	Ave	1621 88274	3965 235617	8675 574428	20936 1112835	42408	5.00 200	10.0 500	20.0 1000	50.0 2000	100
Tert-amyl methyl ether	FB	Ave	8077 449773	20166 1157187	41975 2752331	107013 5092406	211137	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2-Dichloroethane	FB	Ave	3069 178214	8297 451209	17016 1039154	44119 1967846	85210	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
n-Heptane	FB	Ave	4670 244763	11429 618098	22606 1452008	58481 2743469	114557	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
n-Butanol	FB	Ave	1453 67167	3335 182576	5220 455549	14376 866042	29295	12.5 500	25.0 1250	50.0 2500	125 5000	250
Trichloroethene	FB	Ave	++++ 146769	6246 377591	13485 870506	34653 1651103	69551	++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Ethyl acrylate	FB	Ave	7099 393667	17243 1001557	36278 2335355	93039 4353056	178180	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Methylcyclohexane	FB	Ave	5198 284267	12243 714802	26433 1636857	65916 3089902	125232	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2-Dichloropropane	FB	Ave	2706 149326	6702 375913	14157 869659	36436 1669558	70211	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Methyl methacrylate	FB	Lin2	++++ 260242	++++ 647828	46876 1504445	81608 2803692	132847	++++ 40.0	++++ 100	4.00 200	10.0 400	20.0
Dibromomethane	FB	Ave	++++ 76515	3044 192947	7250 458184	18607 879223	36351	++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 480-117063-1 Analy Batch No.: 385231

SDG No.: _____

Instrument ID: HP33 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/08/2016 23:21 Calibration End Date: 11/09/2016 02:55 Calibration ID: 61912

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	Ave	++++ 23466	++++ 67666	++++ 168142	5194 319168	9798	++++ 400	++++ 1000	++++ 2000	100 4000	200
Bromodichloromethane	FB	Ave	2769 165400	6326 429300	13654 1016474	37606 1962918	76978	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
2-Nitropropane	FB	Ave	4234 127327	6559 343384	12974 835674	29126 1589203	57052	1.00 40.0	2.00 100	4.00 200	10.0 400	20.0
2-Chloroethyl vinyl ether	CBNZ d5	Ave	++++ 83497	3291 220948	7159 539520	19560 1027953	39504	++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0
cis-1,3-Dichloropropene	CBNZ d5	Ave	++++ 222150	9437 588097	18412 1388366	50667 2654985	103979	++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	++++ 250078	10267 639817	21329 1540938	52998 2860590	108776	++++ 100	5.00 250	10.0 500	25.0 1000	50.0
Toluene	CBNZ d5	Ave	12204 616265	28627 1539883	57804 3502013	151242 6259674	288870	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	++++ 188985	7405 503235	15718 1213445	41689 2347498	84599	++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Ethyl methacrylate	CBNZ d5	Ave	2995 175198	7260 464621	15187 1128570	41577 2159045	83144	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	++++ 113182	4518 287247	10498 693009	27528 1333556	53515	++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Tetrachloroethene	CBNZ d5	Ave	2670 162756	7326 407596	14586 964312	38302 1843971	74685	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,3-Dichloropropane	CBNZ d5	Ave	3394 200189	8933 508662	17818 1227929	48135 2393989	93838	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
2-Hexanone	CBNZ d5	Ave	++++ 193744	7090 514932	16613 1311520	45187 2587711	91109	++++ 100	5.00 250	10.0 500	25.0 1000	50.0
n-Butyl acetate	FB	Ave	4212 176567	9958 474512	14115 1229803	40891 2415086	92257	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Dibromochloromethane	CBNZ d5	Ave	++++ 88302	3076 242285	7077 604877	18763 1207154	39765	++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2-Dibromoethane	CBNZ d5	Ave	++++ 108922	4112 281259	9234 678868	24653 1327743	50117	++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1-Chlorohexane	FB	Ave	4352 198165	9124 514554	17315 1212019	44741 2364098	86808	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Chlorobenzene	CBNZ d5	Ave	6855 386875	16722 975832	35270 2266825	93313 4307823	183435	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Ethylbenzene	CBNZ d5	Ave	11744 670816	28343 1701166	58892 3914634	153666 6994297	302494	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	++++ 132679	4833 341364	10131 825867	29391 1608672	60134	++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0
m-Xylene & p-Xylene	CBNZ d5	Ave	8758 517321	21101 1315585	45241 3063137	118104 5735637	230881	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 480-117063-1 Analy Batch No.: 385231

SDG No.: _____

Instrument ID: HP33 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/08/2016 23:21 Calibration End Date: 11/09/2016 02:55 Calibration ID: 61912

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	CBNZ d5	Ave	8471 526252	21106 1335674	43755 3124743	120636 5821104	240091	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Styrene	CBNZ d5	Ave	++++ 431447	14946 1112308	34395 2610557	97547 4890171	196515	++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Bromoform	CBNZ d5	Lin2	682 70859	2290 199171	4915 ++++	14733 ++++	30651	0.500 20.0	1.00 50.0	2.00 ++++	5.00 ++++	10.0
Isopropylbenzene	CBNZ d5	Ave	10252 687590	25934 1733403	55762 3898113	153997 6921546	309365	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Cyclohexanone	FB	Ave	988 33296	1703 88071	3301 221877	7810 424252	14850	5.00 200	10.0 500	20.0 1000	50.0 2000	100
Bromobenzene	DCBd 4	Ave	4116 243631	9937 608730	20736 1454969	56711 2811901	111886	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	++++ 126555	5048 322875	10680 775990	29087 1510538	58449	++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0
N-Propylbenzene	DCBd 4	Ave	12938 815603	31011 2032686	67925 4600098	184427 8054335	367402	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	++++ 40461	1589 105745	3551 255703	9701 489690	19358	++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	++++ 34332	++++ 92305	++++ 233879	7380 463562	14790	++++ 20.0	++++ 50.0	++++ 100	5.00 200	10.0
2-Chlorotoluene	DCBd 4	Ave	8905 511623	22413 1338703	46082 3053853	123261 5796477	234874	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	9849 584827	23265 1518575	54201 3474957	144993 6381183	283409	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
4-Chlorotoluene	DCBd 4	Ave	7634 501819	19640 1264142	38550 2945701	110326 5405316	233511	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
tert-Butylbenzene	DCBd 4	Ave	8138 506340	19196 1274638	41462 2922197	111951 5316587	229260	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	8234 563413	20875 1433555	46587 3318426	127816 6112548	258009	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
sec-Butylbenzene	DCBd 4	Ave	11559 758264	29070 1910084	63363 4270397	170797 7392928	343088	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
4-Isopropyltoluene	DCBd 4	Ave	9099 654625	23734 1624082	50805 3648576	145232 6543413	291932	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	4991 307270	12325 767995	26794 1784015	72769 3348793	142590	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,4-Dichlorobenzene	DCBd 4	Ave	5559 302459	13448 764179	28313 1775376	71326 3437594	141368	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	8860 561363	22844 1422416	47776 3285780	133338 6075608	263141	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Benzyl chloride	CBNZ d5	Ave	++++ 206480	++++ 577670	14344 1437416	42354 2829317	90361	++++ 20.0	++++ 50.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 480-117063-1 Analy Batch No.: 385231

SDG No.: _____

Instrument ID: HP33 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/08/2016 23:21 Calibration End Date: 11/09/2016 02:55 Calibration ID: 61912

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	DCBd 4	Ave	8449 553388	20642 1392949	43908 3131472	119742 5761895	246694	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	4433 277515	10746 689670	23628 1604363	65175 3070671	131436	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	++++ 19376	++++ 55277	++++ 140495	4005 279361	8204	++++ 20.0	++++ 50.0	++++ 100	5.00 200	10.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	++++ 194409	7085 493505	15829 1162159	42758 2199193	88559	++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2,4-Trichlorobenzene	DCBd 4	Lin2	1111 130754	3764 350818	10291 829698	27243 1596836	58895	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Hexachlorobutadiene	DCBd 4	Ave	++++ 90479	3328 230982	7482 535347	20049 1017876	39462	++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0
Naphthalene	DCBd 4	Ave	++++ 227992	7464 614628	17742 1494407	45757 2939533	100417	++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	++++ 95877	3012 247548	7295 584551	19828 1142759	42348	++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0
2-Methylnaphthalene	DCBd 4	Ave	++++ 44972	++++ 117900	++++ 312099	++++ 671960	18335	++++ 20.0	++++ 50.0	++++ 100	++++ 200	10.0
1-Methylnaphthalene	DCBd 4	Ave	++++ 36182	++++ 89638	++++ 236434	6175 497560	14774	++++ 20.0	++++ 50.0	++++ 100	5.00 200	10.0
Dibromofluoromethane (Surr)	FB	Ave	197514 197943	194355 203703	197572 213292	195628 217125	192351	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	216148 221899	209637 247175	214838 234975	212761 242177	211465	30.0 30.0	30.0 30.0	30.0 30.0	30.0 30.0	30.0
Toluene-d8 (Surr)	CBNZ d5	Ave	765384 781120	752197 796411	774513 860177	774318 875278	769631	30.0 30.0	30.0 30.0	30.0 30.0	30.0 30.0	30.0
4-Bromofluorobenzene (Surr)	DCBd 4	Ave	243853 271751	243493 280831	255744 304187	259297 312187	256572	30.0 30.0	30.0 30.0	30.0 30.0	30.0 30.0	30.0

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: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081608.D
 Lims ID: std0005
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 08-Nov-2016 23:21:30 ALS Bottle#: 8 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD0005
 Operator ID: JJR Instrument ID: HP33
 Sublist: chrom-8260HP33*sub22
 Method: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 12-Nov-2016 12:38:25 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: redmondj Date: 09-Nov-2016 13:42:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.616	3.617	-0.001	98	780547	30.0	30.0	
* 2 Chlorobenzene-d5	117	5.934	5.935	-0.001	87	564271	30.0	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.100	8.101	-0.001	95	258233	30.0	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.203	3.203	0.000	98	197514	30.0	30.2	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.434	3.435	-0.001	0	216148	30.0	29.8	
\$ 7 Toluene-d8 (Surr)	98	4.724	4.724	0.000	99	765384	30.0	30.7	
\$ 8 4-Bromofluorobenzene (Surr	95	7.005	7.006	-0.001	93	243853	30.0	30.1	
12 Dichlorodifluoromethane	85	1.219	1.201	0.018	1	1208	0.5000	0.3057	M
13 Chloromethane	50	1.305	1.304	0.001	40	7499	0.5000	1.07	M
14 Vinyl chloride	62	1.353	1.347	0.006	95	3081	0.5000	0.3981	
15 Butadiene	54	1.359	1.359	0.000	91	3043	0.5000	0.3886	
16 Bromomethane	96	1.530	1.517	0.013	91	3693	0.5000	0.4652	
17 Chloroethane	64	1.566	1.566	0.000	42	2004	0.5000	0.3980	
18 Dichlorofluoromethane	67	1.670	1.669	0.001	93	4414	0.5000	0.3786	
19 Trichlorofluoromethane	101	1.676	1.669	0.007	31	3413	0.5000	0.3853	
21 Ethyl ether	59	1.816	1.815	0.001	74	2121	0.5000	0.3658	
22 1,1,2-Trichloro-1,2,2-trif	101	1.925	1.919	0.006	85	2026	0.5000	0.3278	
24 1,1-Dichloroethene	96	1.943	1.943	0.000	91	2139	0.5000	0.3744	
25 Acetone	58	2.010	2.004	0.006	84	2584	2.50	4.57	
26 Iodomethane	142	2.041	2.047	-0.006	16	1413	0.5000	0.1991	
27 Isopropyl alcohol	45	2.065	2.065	0.000	1	1969	5.00	6.24	
28 Carbon disulfide	76	2.071	2.071	0.000	97	9184	0.5000	0.5101	
30 3-Chloro-1-propene	76	2.144	2.132	0.012	21	1854	0.5000	0.2932	
31 Methyl acetate	43	2.150	2.144	0.006	99	11215	2.50	2.43	
32 Acetonitrile	41	2.175	2.180	-0.005	70	4452	NC	NC	M
33 Methylene Chloride	84	2.223	2.217	0.006	95	5731	0.5000	0.7700	
34 2-Methyl-2-propanol	59	2.272	2.266	0.006	91	1574	5.00	3.15	
35 Methyl tert-butyl ether	73	2.327	2.320	0.007	96	6752	0.5000	0.3731	
36 trans-1,2-Dichloroethene	61	2.339	2.333	0.006	92	3235	0.5000	0.3506	
37 Acrylonitrile	53	2.387	2.381	0.006	98	7897	5.00	3.58	
38 Hexane	57	2.442	2.436	0.006	92	4558	0.5000	0.4091	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Isopropyl ether	45	2.570	2.570	0.000	87	10603	0.5000	0.4431	
40 1,1-Dichloroethane	63	2.588	2.582	0.006	5	4850	0.5000	0.4002	
41 Vinyl acetate	86	2.600	2.588	0.012	97	646	1.00	0.9869	
42 2-Chloro-1,3-butadiene	53	2.625	2.618	0.007	91	4270	0.5000	0.3856	
43 Tert-butyl ethyl ether	59	2.777	2.771	0.006	88	8229	0.5000	0.3888	
44 2,2-Dichloropropane	77	2.905	2.904	0.001	92	3485	0.5000	0.3730	
45 cis-1,2-Dichloroethene	96	2.923	2.923	0.000	89	2751	0.5000	0.3804	
46 Ethyl acetate	70	2.935	2.935	0.000	89	402	1.00	0.5661	
47 2-Butanone (MEK)	72	2.947	2.935	0.012	96	1355	2.50	1.96	
48 Propionitrile	54	3.032	3.014	0.018	1	2814	5.00	3.32	
49 Chlorobromomethane	130	3.075	3.069	0.006	41	1550	0.5000	0.3755	
50 Methacrylonitrile	41	3.087	3.075	0.012	94	17086	5.00	4.35	
51 Tetrahydrofuran	42	3.087	3.081	0.006	25	1853	1.00	0.7642	
52 Chloroform	83	3.105	3.099	0.006	95	4359	0.5000	0.3918	
53 Cyclohexane	56	3.197	3.190	0.007	32	5204	0.5000	0.3999	
54 1,1,1-Trichloroethane	97	3.203	3.196	0.007	35	3486	0.5000	0.3705	
56 Carbon tetrachloride	117	3.276	3.282	-0.006	95	2767	0.5000	0.3532	
57 1,1-Dichloropropene	75	3.300	3.300	0.000	91	3339	0.5000	0.3705	
58 Isobutyl alcohol	43	3.403	3.397	0.006	41	3509	12.5	8.08	
59 Benzene	78	3.434	3.428	0.006	69	12025	0.5000	0.4341	
60 t-Amyl alcohol	59	3.446	3.440	0.006	34	1621	5.00	3.72	
61 Tert-amyl methyl ether	73	3.476	3.470	0.006	94	8077	0.5000	0.3766	
62 1,2-Dichloroethane	62	3.489	3.482	0.007	1	3069	0.5000	0.3616	
63 n-Heptane	43	3.531	3.525	0.006	87	4670	0.5000	0.3996	
64 n-Butanol	56	3.860	3.835	0.025	0	1453	12.5	11.0	M
65 Trichloroethene	130	3.860	3.853	0.007	90	2380	0.5000	0.3341	
66 Ethyl acrylate	55	3.939	3.933	0.007	88	7099	0.5000	0.3844	
67 Methylcyclohexane	83	3.939	3.939	0.000	89	5198	0.5000	0.3944	
68 1,2-Dichloropropane	63	4.042	4.036	0.006	86	2706	0.5000	0.3818	
69 Methyl methacrylate	41	4.097	4.085	0.012	89	34712	1.00	2.17	
70 Dibromomethane	93	4.127	4.127	0.000	75	1038	0.5000	0.2789	
73 Dichlorobromomethane	83	4.231	4.225	0.006	82	2769	0.5000	0.3627	
75 2-Chloroethyl vinyl ether	63	4.462	4.444	0.018	1	1152	0.5000	0.2928	
74 2-Nitropropane	43	4.450	4.444	0.006	84	4234	1.00	1.25	M
76 cis-1,3-Dichloropropene	75	4.565	4.559	0.006	91	3469	0.5000	0.3343	
77 4-Methyl-2-pentanone (MIBK)	58	4.675	4.669	0.006	94	3747	2.50	1.65	
78 Toluene	91	4.778	4.778	0.000	92	12204	0.5000	0.4334	
79 trans-1,3-Dichloropropene	75	5.016	5.009	0.007	93	2855	0.5000	0.3260	
80 Ethyl methacrylate	69	5.034	5.028	0.006	30	2995	0.5000	0.3712	
81 1,1,2-Trichloroethane	97	5.149	5.149	0.000	88	1615	0.5000	0.3039	
82 Tetrachloroethene	166	5.198	5.198	0.000	92	2670	0.5000	0.3646	
83 1,3-Dichloropropane	76	5.295	5.295	0.000	36	3394	0.5000	0.3700	
84 2-Hexanone	58	5.356	5.338	0.018	93	2542	2.50	1.38	
85 n-Butyl acetate	43	5.429	5.411	0.018	45	4212	0.5000	0.4561	
86 Chlorodibromomethane	127	5.466	5.453	0.013	1	1019	0.5000	0.2470	
87 Ethylene Dibromide	107	5.563	5.563	0.000	35	1474	0.5000	0.2939	
88 1-Chlorohexane	91	5.928	5.916	0.012	28	4352	0.5000	0.4564	
89 Chlorobenzene	112	5.958	5.958	0.000	94	6855	0.5000	0.3907	
90 Ethylbenzene	91	6.025	6.025	0.000	98	11744	0.5000	0.3963	
91 1,1,1,2-Tetrachloroethane	131	6.038	6.037	0.001	85	1834	0.5000	0.3065	
92 m-Xylene & p-Xylene	91	6.141	6.129	0.012	0	8758	0.5000	0.3831	
93 o-Xylene	91	6.500	6.488	0.012	92	8471	0.5000	0.3673	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
94 Styrene	104	6.530	6.518	0.012	94	5990	0.5000	0.3110	
95 Bromoform	173	6.719	6.707	0.012	0	682	0.5000	0.5143	M
96 Isopropylbenzene	105	6.816	6.810	0.006	94	10252	0.5000	0.3529	
97 Cyclohexanone	55	7.005	6.974	0.031	1	988	5.00	5.66	
98 Bromobenzene	77	7.139	7.132	0.007	92	4116	0.5000	0.3974	
99 1,1,2,2-Tetrachloroethane	83	7.181	7.169	0.012	1	1776	0.5000	0.3198	
100 N-Propylbenzene	91	7.206	7.199	0.007	98	12938	0.5000	0.3905	
101 1,2,3-Trichloropropane	110	7.212	7.212	0.000	1	367	0.5000	0.2023	
103 2-Chlorotoluene	91	7.315	7.303	0.012	95	8905	0.5000	0.3998	
104 4-Ethyltoluene	105	7.321	7.309	0.012	95	10133	NC	NC	
105 1,3,5-Trimethylbenzene	105	7.388	7.376	0.012	28	9849	0.5000	0.3893	
106 4-Chlorotoluene	91	7.431	7.418	0.013	92	7634	0.5000	0.3716	
107 tert-Butylbenzene	119	7.668	7.668	0.000	95	8138	0.5000	0.3926	
108 1,2,4-Trimethylbenzene	105	7.741	7.735	0.006	92	8234	0.5000	0.3561	
110 sec-Butylbenzene	105	7.887	7.881	0.006	97	11559	0.5000	0.3761	
112 4-Isopropyltoluene	119	8.033	8.027	0.006	96	9099	0.5000	0.3516	
111 1,3-Dichlorobenzene	146	8.039	8.027	0.012	65	4991	0.5000	0.3857	
113 Dicyclopentadiene	66	8.082	8.081	0.001	34	15604	NC	NC	
114 1,4-Dichlorobenzene	146	8.130	8.124	0.006	1	5559	0.5000	0.4202	
115 1,2,3-Trimethylbenzene	105	8.149	8.142	0.007	1	8860	0.5000	0.3748	
116 Benzyl chloride	91	8.282	8.264	0.018	0	2642	0.5000	0.2690	M
117 n-Butylbenzene	91	8.441	8.428	0.013	97	8449	0.5000	0.3793	
118 1,2-Dichlorobenzene	146	8.495	8.483	0.012	95	4433	0.5000	0.3815	
120 1,3,5-Trichlorobenzene	180	9.444	9.432	0.012	91	2602	0.5000	0.3151	
121 1,2,4-Trichlorobenzene	180	10.174	10.150	0.024	1	1111	0.5000	0.5168	
122 Hexachlorobutadiene	225	10.302	10.302	0.000	1	1241	0.5000	0.3239	
123 Naphthalene	128	10.485	10.454	0.031	1	2450	0.5000	0.2507	
124 1,2,3-Trichlorobenzene	180	10.764	10.752	0.012	1	627	0.5000	0.1573	
S 148 Xylenes, Total	1				0			0.7504	
S 149 1,2-Dichloroethene, Total	1				0			0.7309	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

V1_Mega_I_00057

Amount Added: 0.50

Units: uL

V1_gases_I_00184

Amount Added: 0.50

Units: uL

VOA_ISSS150_W_00014

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20161109-82377.b\\11081608.D

Injection Date: 08-Nov-2016 23:21:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: std0005

Worklist Smp#: 2

Client ID:

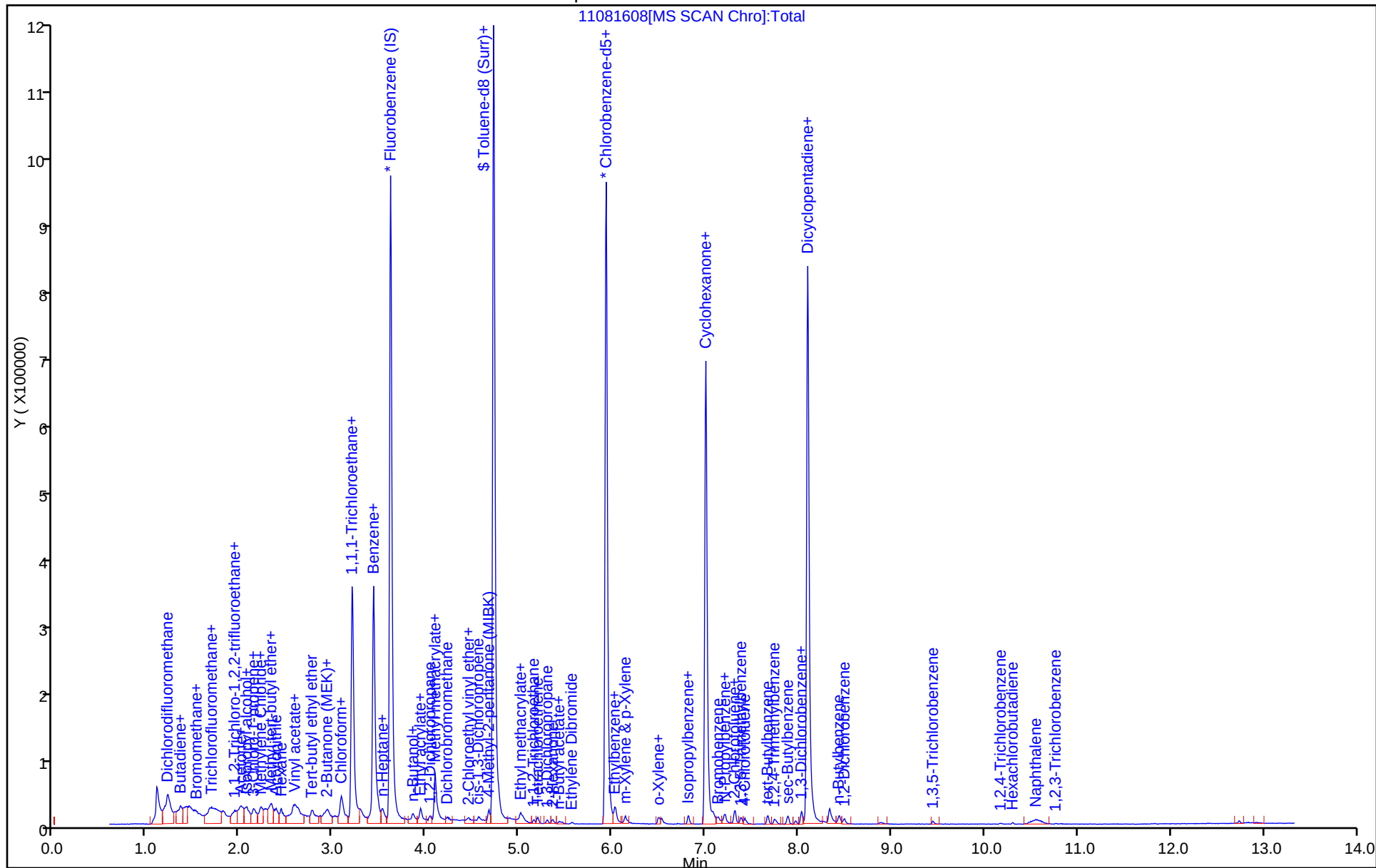
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 8260HP33

Limit Group: MSV 8260C ICAL



TestAmerica Nashville

Data File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081608.D

Injection Date: 08-Nov-2016 23:21:30

Instrument ID: HP33

Lims ID: std0005

Client ID:

Operator ID: JJR

ALS Bottle#:

8

Worklist Smp#: 2

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector MS SCAN

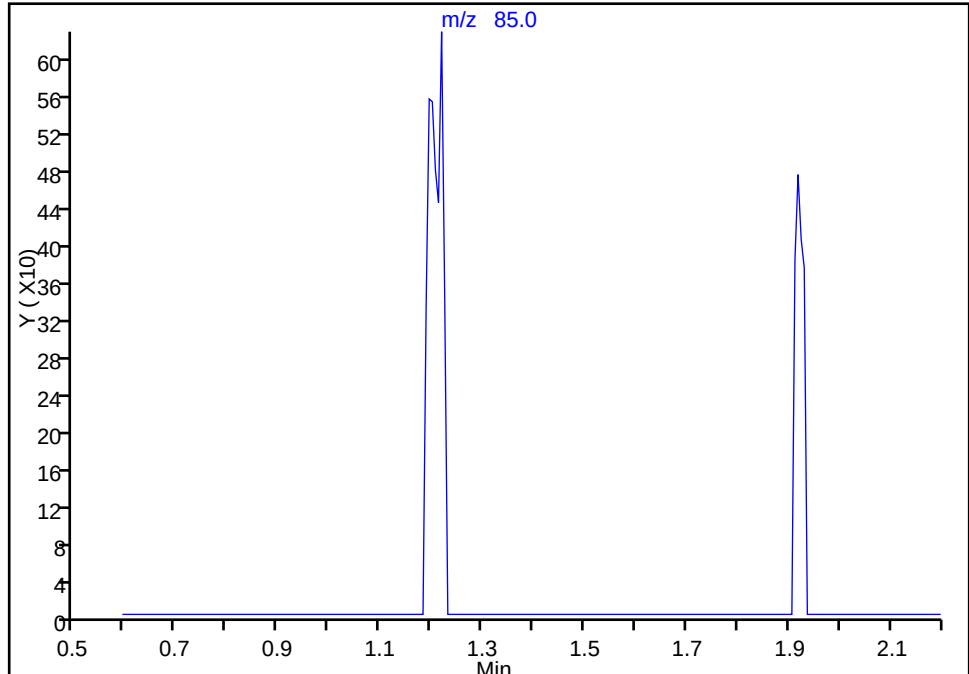
12 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

Not Detected

Expected RT: 1.20

Processing Integration Results



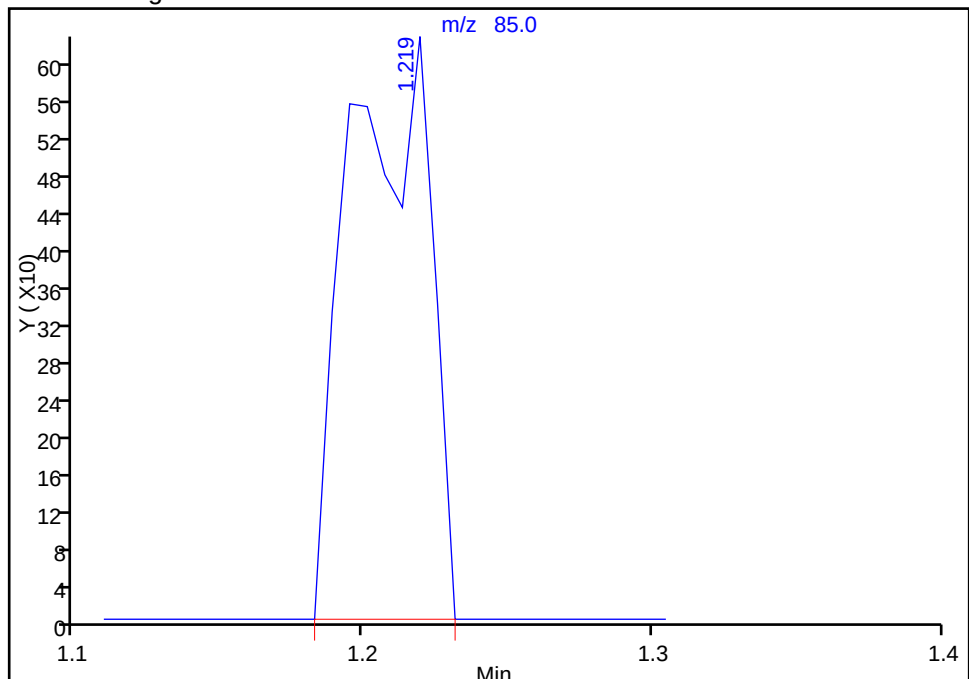
RT: 1.22

Area: 1208

Amount: 0.305713

Amount Units: ug/l

Manual Integration Results



Reviewer: redmondj, 09-Nov-2016 11:57:30

Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

TestAmerica Nashville

Data File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081608.D

Injection Date: 08-Nov-2016 23:21:30

Instrument ID: HP33

Lims ID: std0005

Client ID:

Operator ID: JJR

ALS Bottle#:

8

Worklist Smp#: 2

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector

MS SCAN

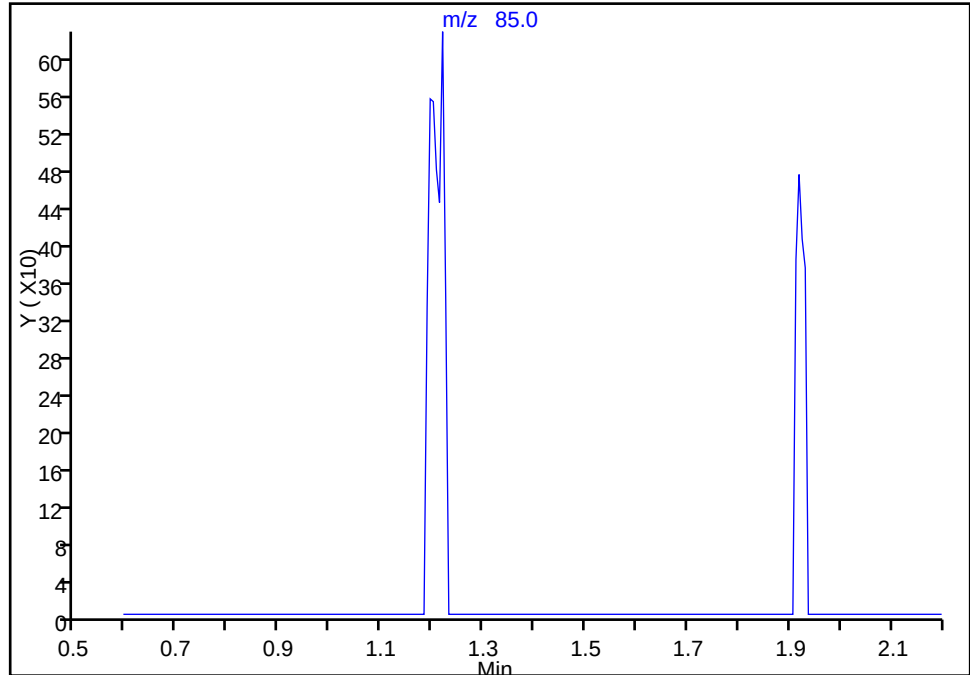
12 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

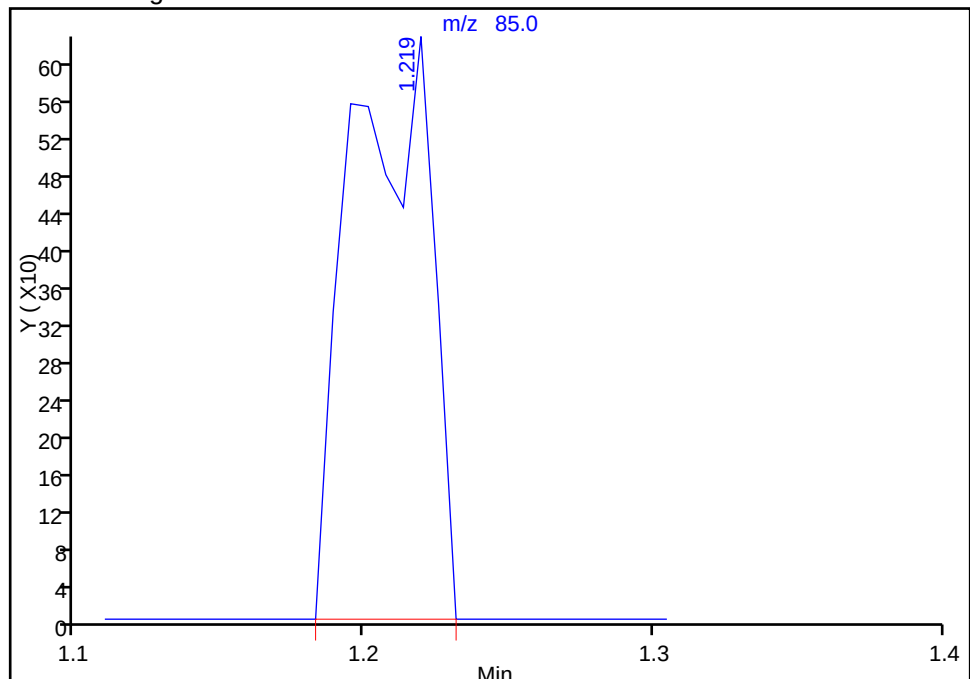
Not Detected

Expected RT: 1.20

Processing Integration Results



Manual Integration Results



RT: 1.22

Area: 1208

Amount: 0.305713

Amount Units: ug/l

Reviewer: redmondj, 09-Nov-2016 11:58:08

Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Nashville

Data File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081608.D

Injection Date: 08-Nov-2016 23:21:30

Instrument ID: HP33

Lims ID: std0005

Client ID:

Operator ID: JJR

ALS Bottle#:

8

Worklist Smp#: 2

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector: MS SCAN

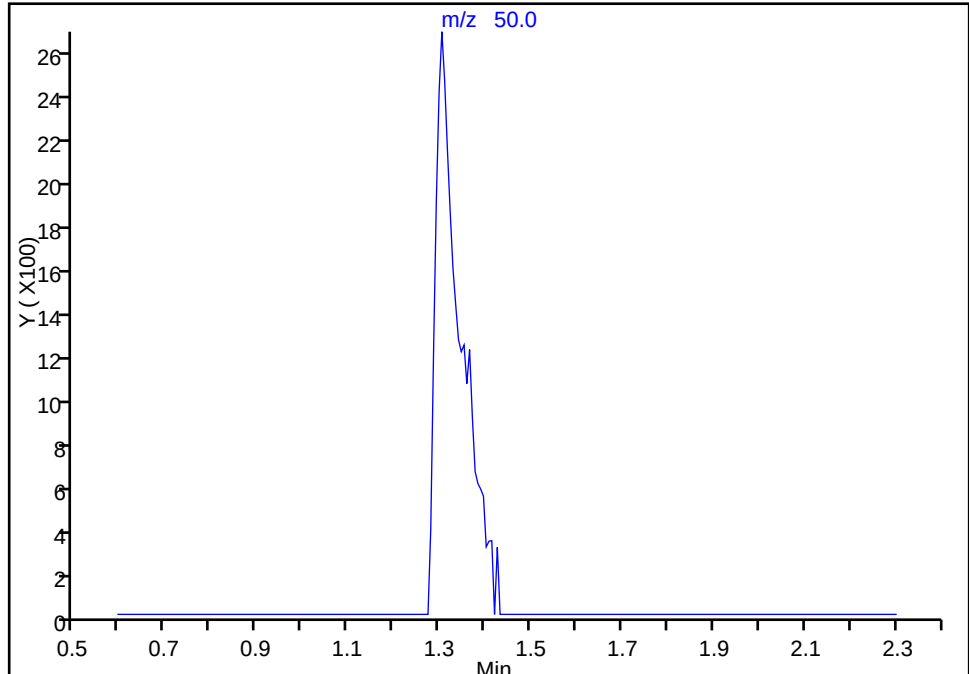
13 Chloromethane, CAS: 74-87-3

Signal: 1

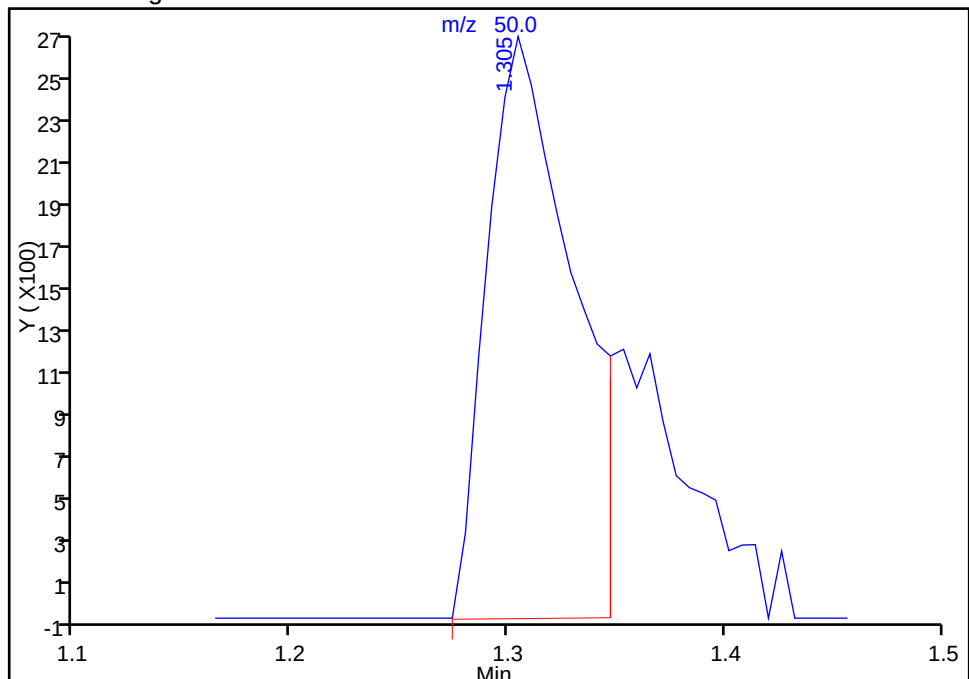
Not Detected

Expected RT: 1.30

Processing Integration Results



Manual Integration Results



RT: 1.30

Area: 7499

Amount: 1.074424

Amount Units: ug/l

Reviewer: redmondj, 09-Nov-2016 11:57:30

Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

TestAmerica Nashville

Data File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081608.D

Injection Date: 08-Nov-2016 23:21:30

Instrument ID: HP33

Lims ID: std0005

Client ID:

Operator ID: JJR

ALS Bottle#:

8

Worklist Smp#: 2

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector MS SCAN

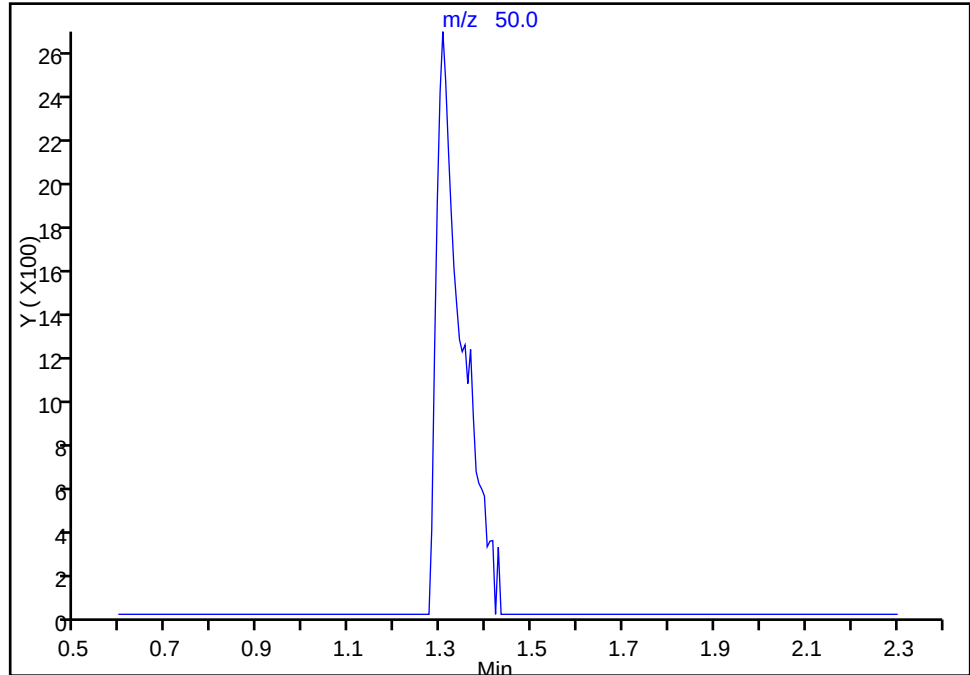
13 Chloromethane, CAS: 74-87-3

Signal: 1

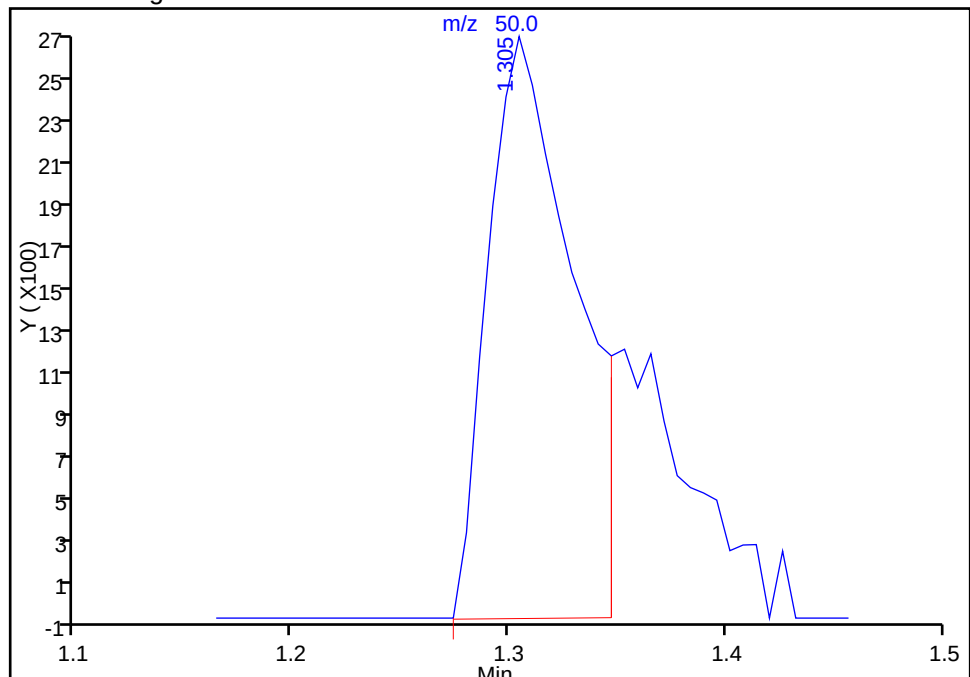
Not Detected

Expected RT: 1.30

Processing Integration Results



Manual Integration Results



RT: 1.30

Area: 7499

Amount: 1.074424

Amount Units: ug/l

Reviewer: redmondj, 09-Nov-2016 11:58:08

Audit Action: Manually Integrated

Audit Reason: Retention Time Shift

TestAmerica Nashville

Data File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081608.D

Injection Date: 08-Nov-2016 23:21:30

Instrument ID: HP33

Lims ID: std0005

Client ID:

Operator ID: JJR

ALS Bottle#:

8

Worklist Smp#: 2

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector MS SCAN

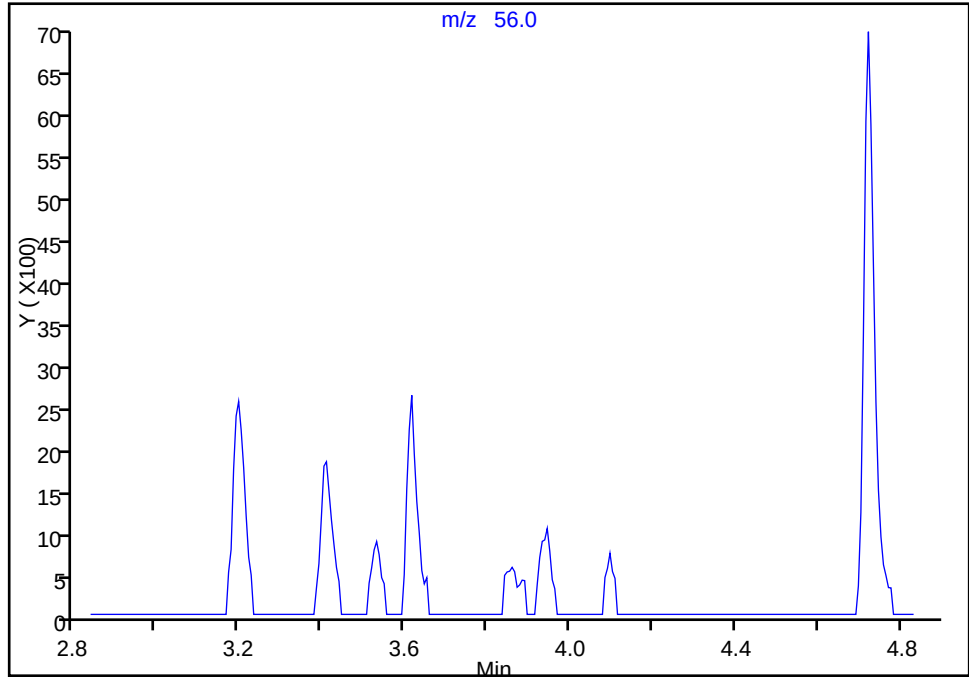
64 n-Butanol, CAS: 71-36-3

Signal: 1

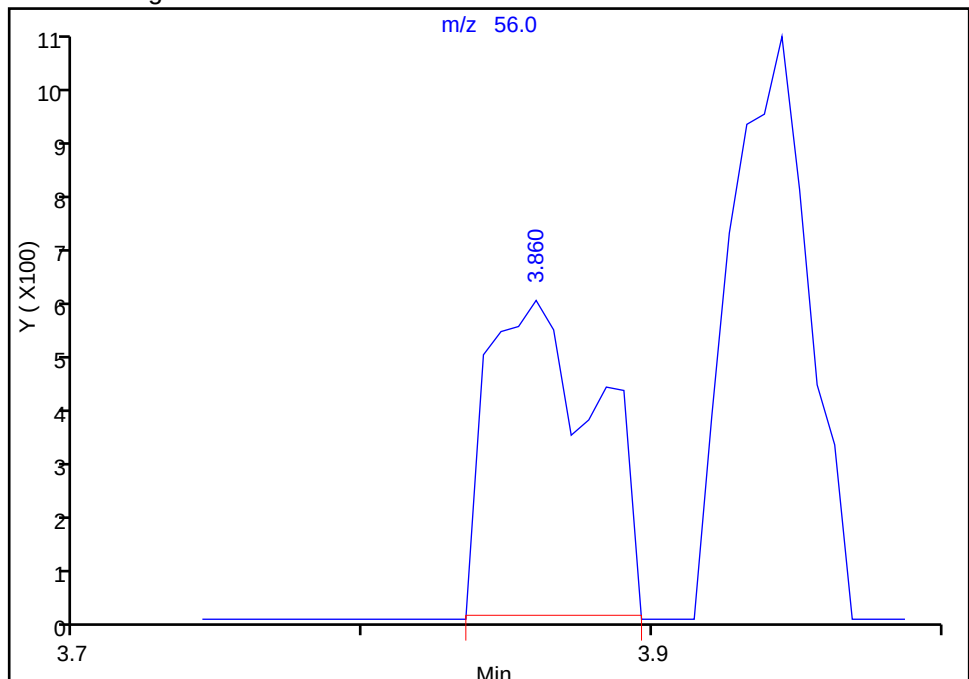
Not Detected

Expected RT: 3.84

Processing Integration Results



Manual Integration Results



RT: 3.86

Area: 1453

Amount: 11.025063

Amount Units: ug/l

Reviewer: redmondj, 09-Nov-2016 11:57:30

Audit Action: Assigned Compound ID

Audit Reason: Peak Tail

TestAmerica Nashville

Data File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081608.D

Injection Date: 08-Nov-2016 23:21:30

Instrument ID: HP33

Lims ID: std0005

Client ID:

Operator ID: JJR

ALS Bottle#:

8

Worklist Smp#: 2

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector: MS SCAN

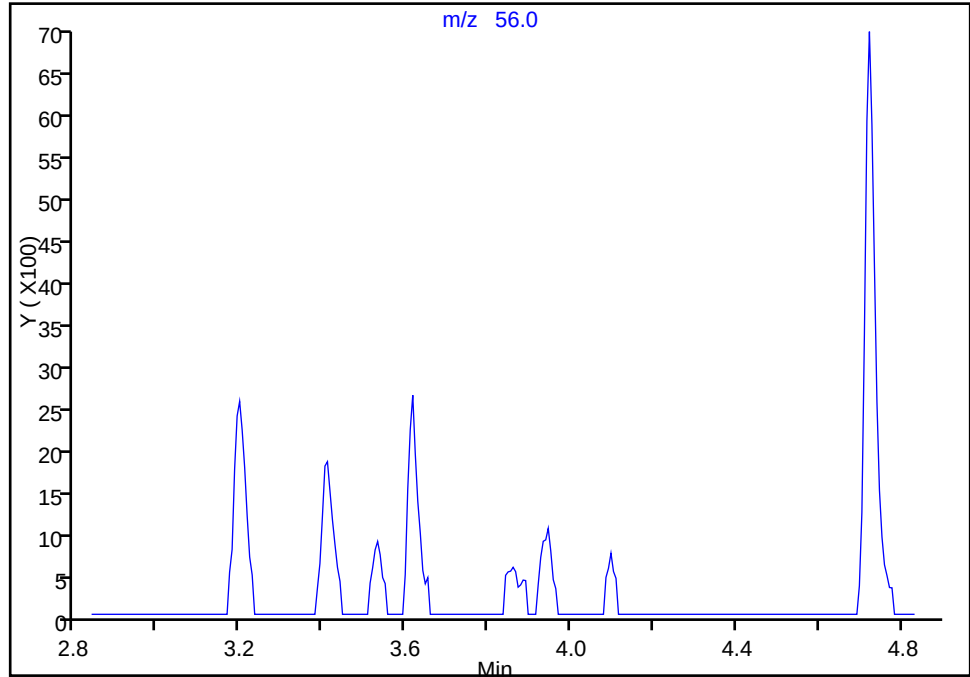
64 n-Butanol, CAS: 71-36-3

Signal: 1

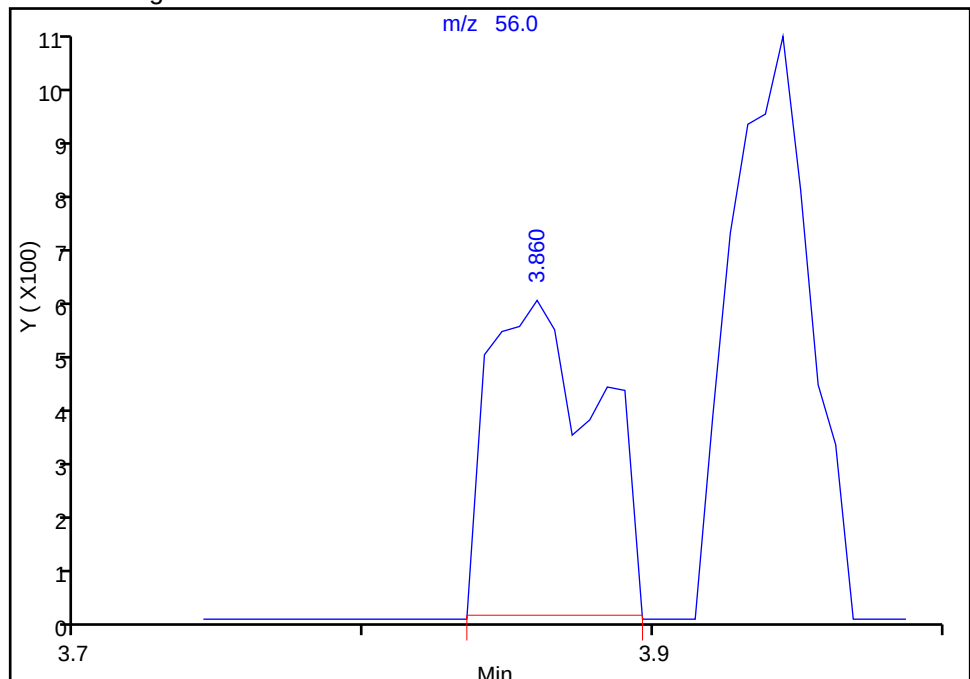
Not Detected

Expected RT: 3.84

Processing Integration Results



Manual Integration Results



RT: 3.86

Area: 1453

Amount: 11.025063

Amount Units: ug/l

Reviewer: redmondj, 09-Nov-2016 11:57:30

Audit Action: Manually Integrated

Audit Reason: Assign Peak

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20161109-82377.b\\11081608.D

Injection Date: 08-Nov-2016 23:21:30

Instrument ID: HP33

Lims ID: std0005

Client ID:

Operator ID: JJR

ALS Bottle#:

8

Worklist Smp#: 2

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

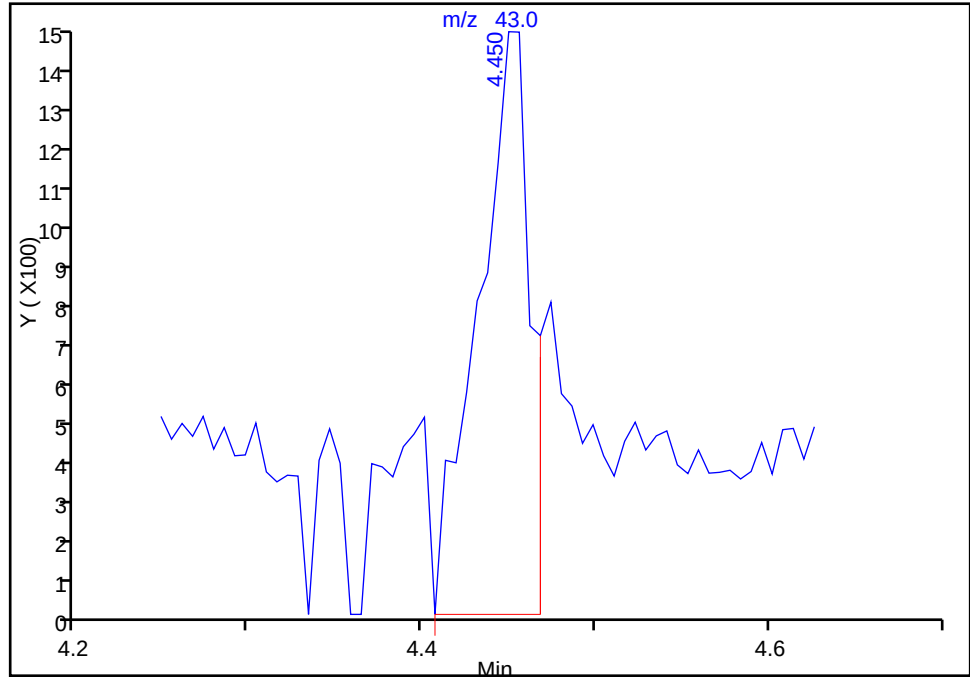
Detector: MS SCAN

74 2-Nitropropane, CAS: 79-46-9

Signal: 1

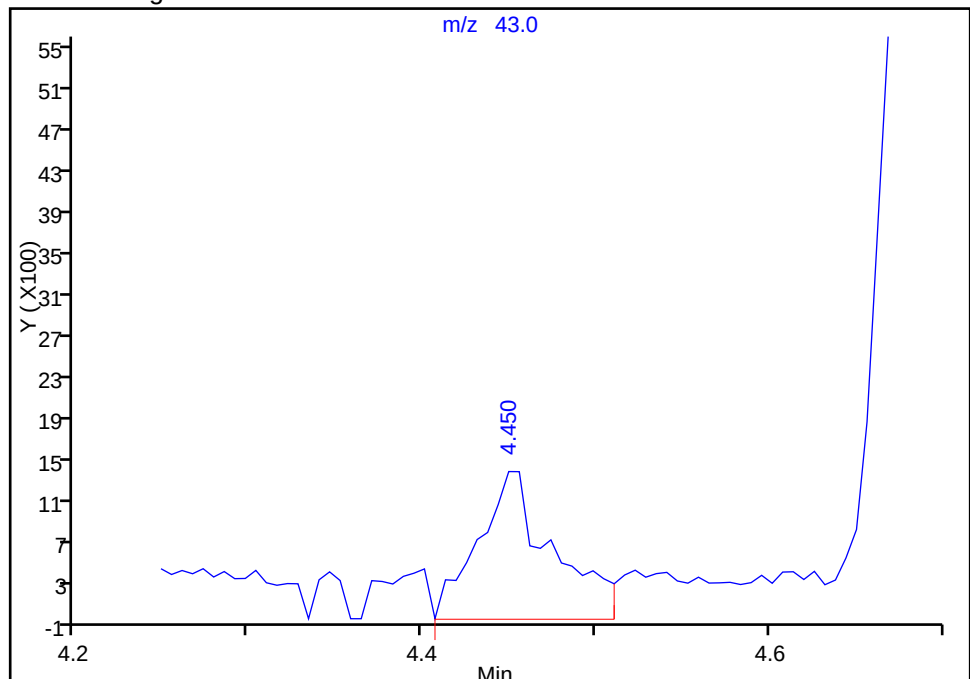
RT: 4.45
Area: 2968
Amount: 0.969405
Amount Units: ug/l

Processing Integration Results



RT: 4.45
Area: 4234
Amount: 1.250911
Amount Units: ug/l

Manual Integration Results



Reviewer: redmondj, 09-Nov-2016 11:57:30

Audit Action: Manually Integrated

Audit Reason: Peak Tail

TestAmerica Nashville

Data File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081608.D

Injection Date: 08-Nov-2016 23:21:30

Instrument ID: HP33

Lims ID: std0005

Client ID:

Operator ID: JJR

ALS Bottle#:

8

Worklist Smp#: 2

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector: MS SCAN

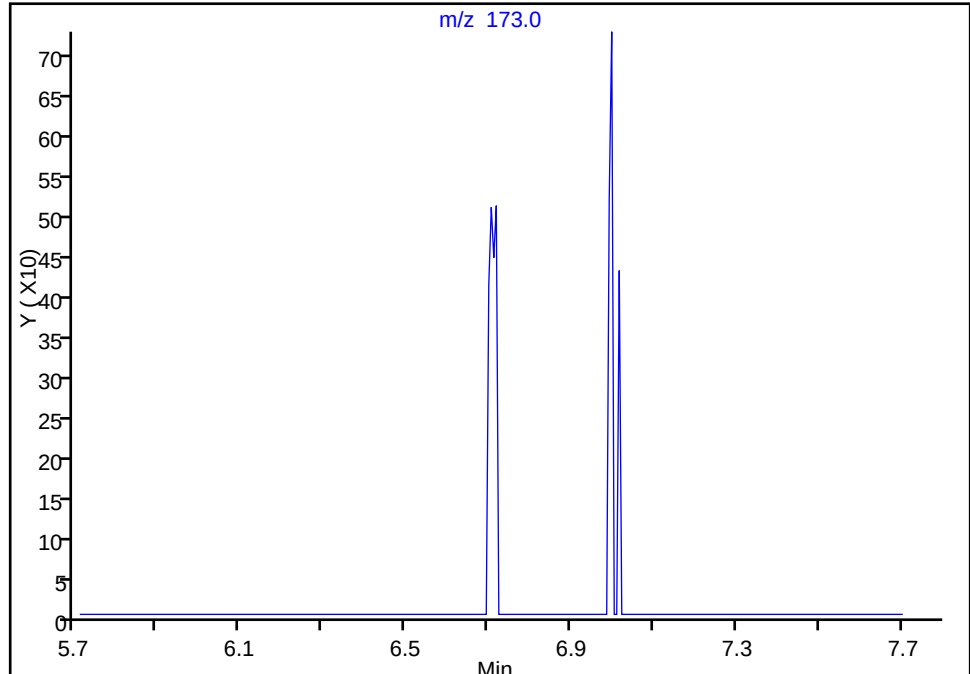
95 Bromoform, CAS: 75-25-2

Signal: 1

Not Detected

Expected RT: 6.71

Processing Integration Results



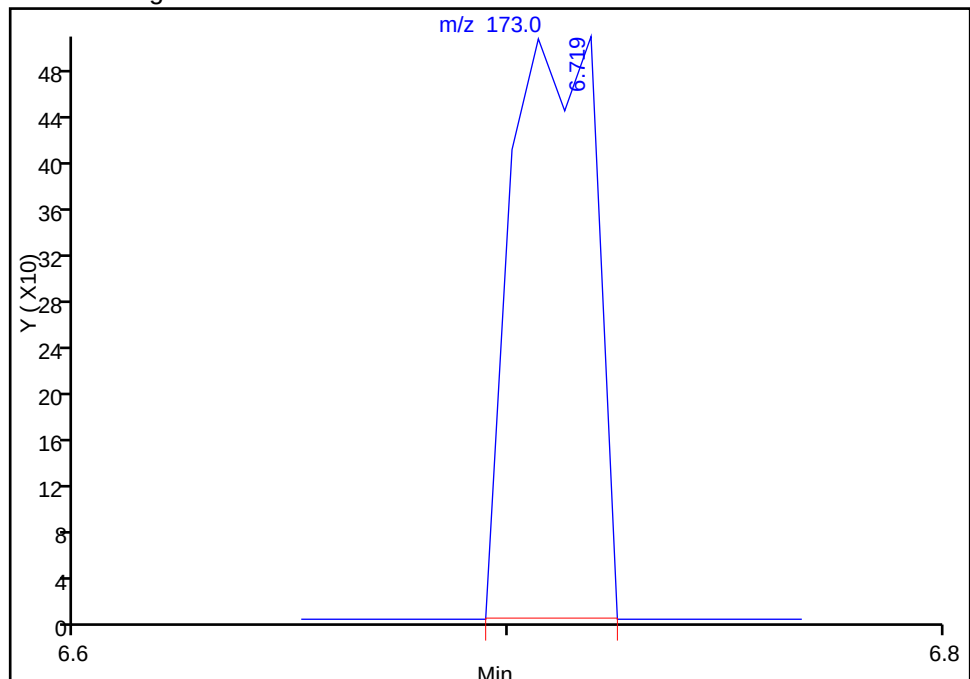
RT: 6.72

Area: 682

Amount: 0.514300

Amount Units: ug/l

Manual Integration Results



Reviewer: redmondj, 09-Nov-2016 11:57:30

Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

TestAmerica Nashville

Data File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081608.D

Injection Date: 08-Nov-2016 23:21:30

Instrument ID: HP33

Lims ID: std0005

Client ID:

Operator ID: JJR

ALS Bottle#:

8

Worklist Smp#: 2

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector MS SCAN

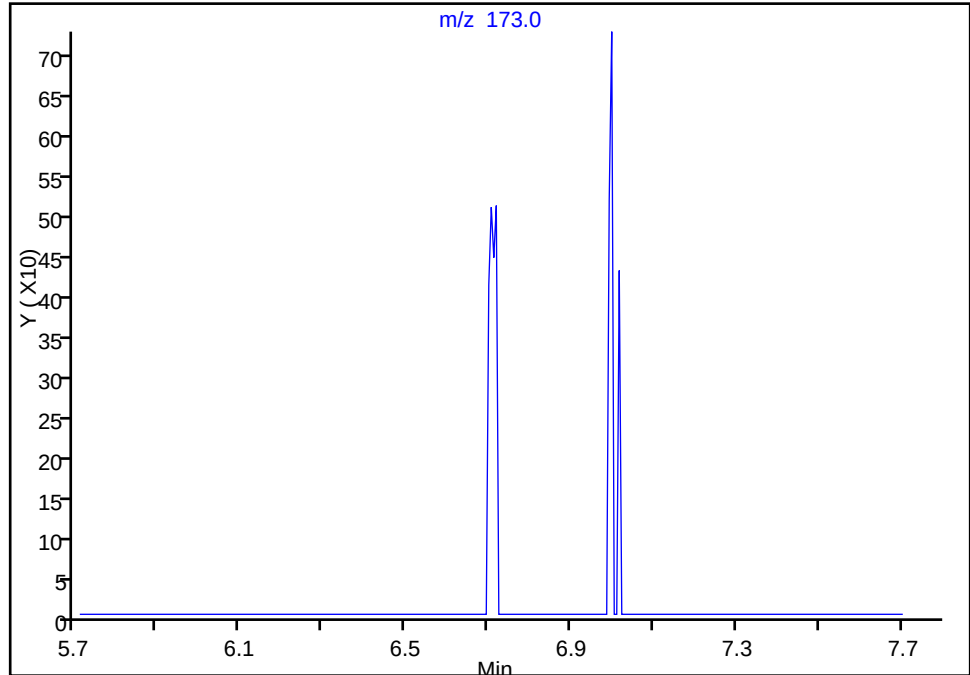
95 Bromoform, CAS: 75-25-2

Signal: 1

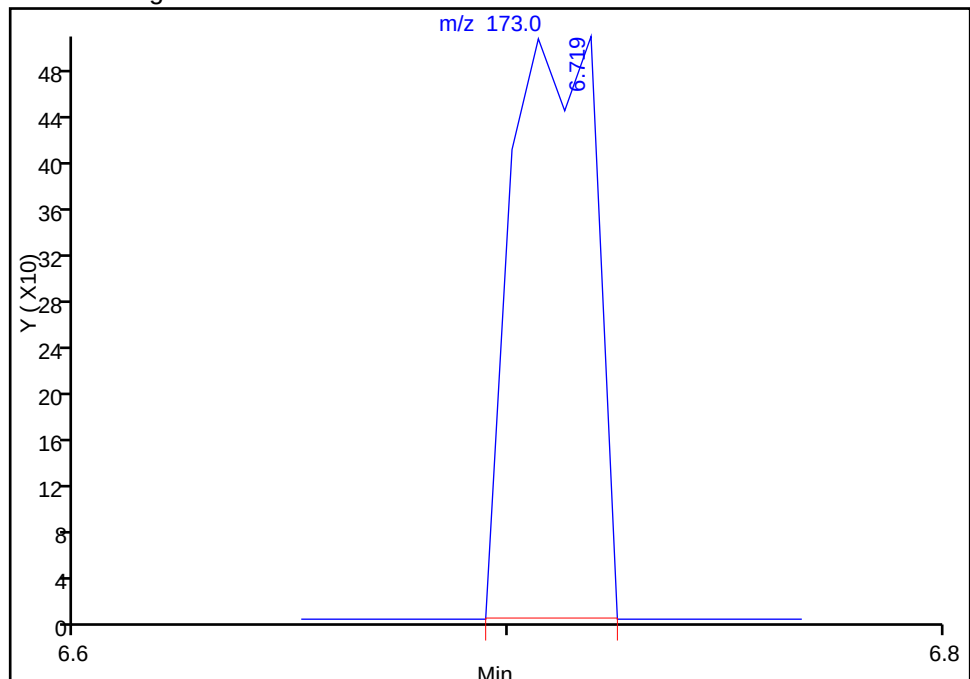
Not Detected

Expected RT: 6.71

Processing Integration Results



Manual Integration Results



RT: 6.72

Area: 682

Amount: 0.514300

Amount Units: ug/l

Reviewer: redmondj, 09-Nov-2016 11:57:30

Audit Action: Manually Integrated

Audit Reason: Assign Peak

TestAmerica Nashville

Data File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081608.D

Injection Date: 08-Nov-2016 23:21:30

Instrument ID: HP33

Lims ID: std0005

Client ID:

Operator ID: JJR

ALS Bottle#:

8

Worklist Smp#: 2

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector MS SCAN

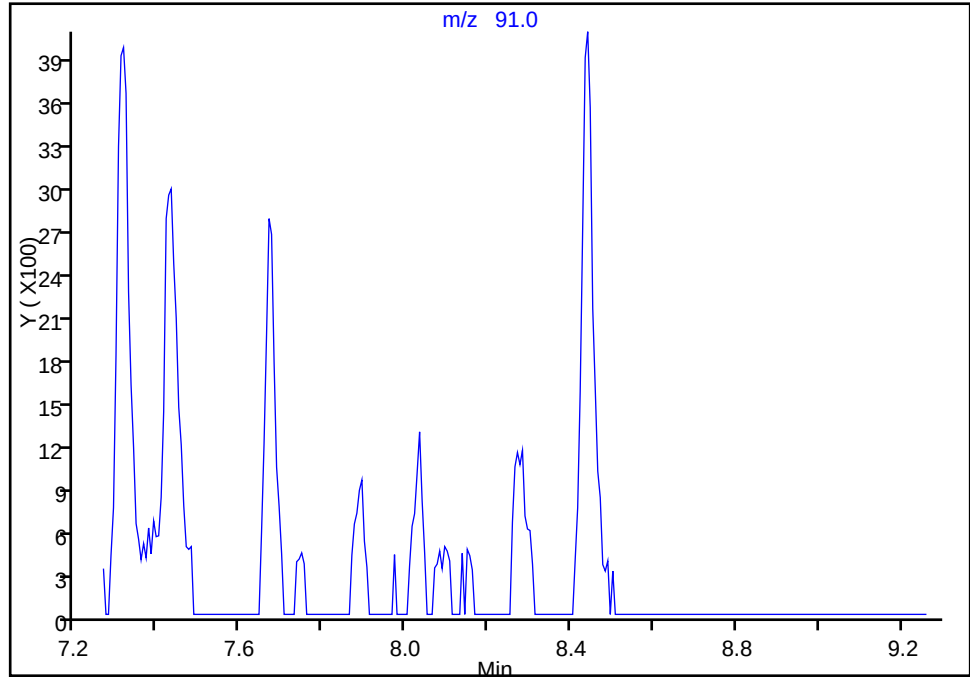
116 Benzyl chloride, CAS: 100-44-7

Signal: 1

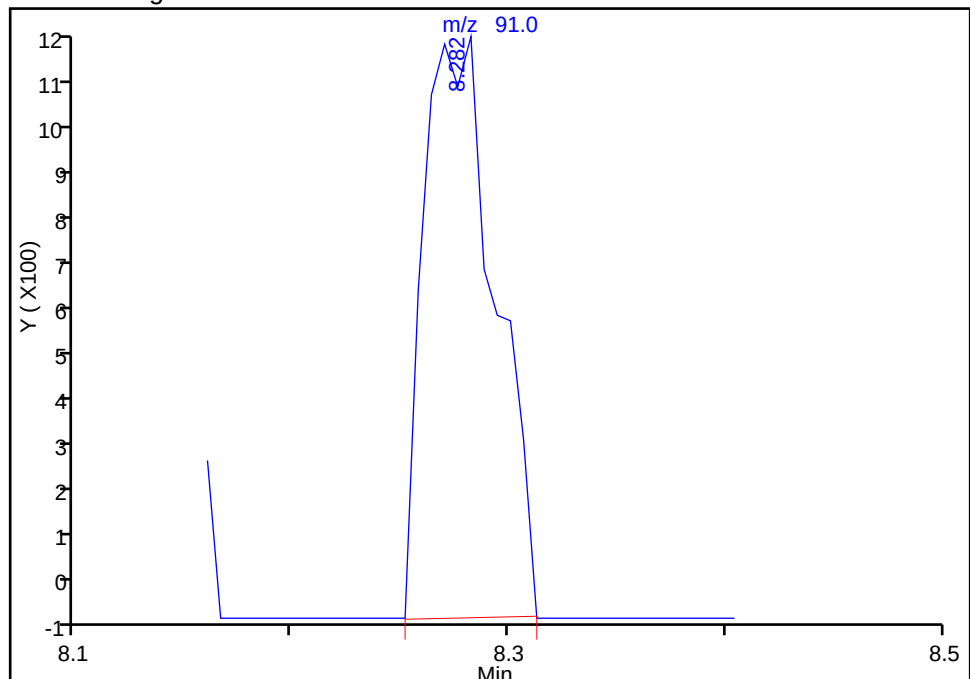
Not Detected

Expected RT: 8.26

Processing Integration Results



Manual Integration Results



Reviewer: redmondj, 09-Nov-2016 11:57:30

Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20161109-82377.b\\11081608.D

Injection Date: 08-Nov-2016 23:21:30

Instrument ID: HP33

Lims ID: std0005

Client ID:

Operator ID: JJR

ALS Bottle#:

8

Worklist Smp#: 2

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector MS SCAN

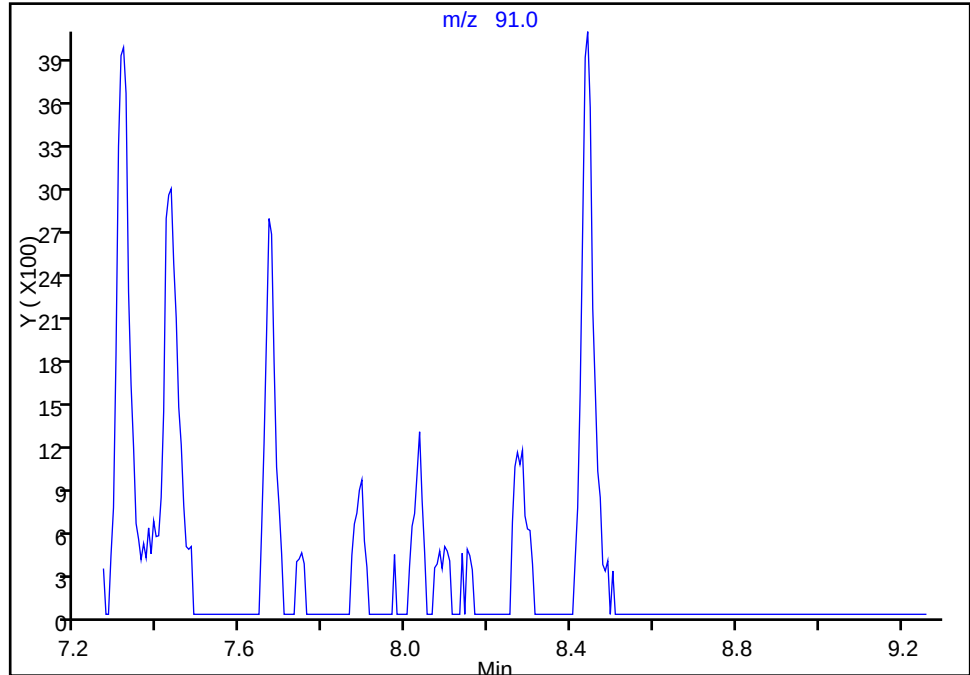
116 Benzyl chloride, CAS: 100-44-7

Signal: 1

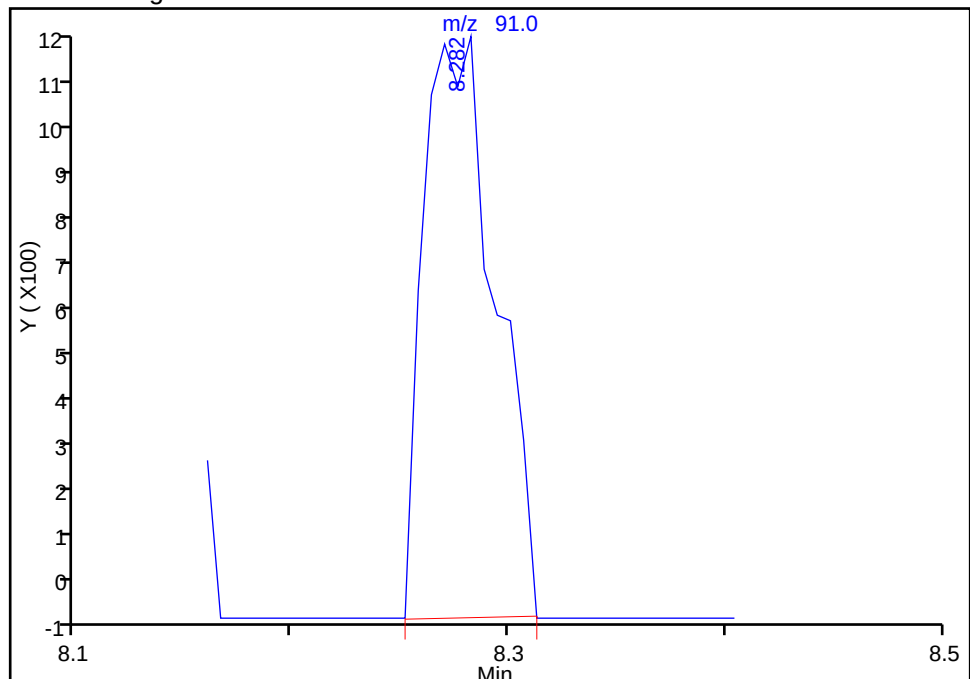
Not Detected

Expected RT: 8.26

Processing Integration Results



Manual Integration Results



RT: 8.28

Area: 2642

Amount: 0.269005

Amount Units: ug/l

Reviewer: redmondj, 09-Nov-2016 11:57:30

Audit Action: Manually Integrated

Audit Reason: Assign Peak

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081609.D
 Lims ID: std001
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 08-Nov-2016 23:48:30 ALS Bottle#: 9 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD001
 Operator ID: JJR Instrument ID: HP33
 Sublist: chrom-8260HP33*sub22
 Method: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 12-Nov-2016 12:38:33 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: redmondj

Date: 09-Nov-2016 12:04:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.617	3.617	0.000	98	770862	30.0	30.0	
* 2 Chlorobenzene-d5	117	5.935	5.935	0.000	86	563081	30.0	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.101	8.101	0.000	98	256128	30.0	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.204	3.203	0.001	97	194355	30.0	30.1	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.435	3.435	0.000	0	209637	30.0	29.2	
\$ 7 Toluene-d8 (Surr)	98	4.724	4.724	0.000	99	752197	30.0	30.2	
\$ 8 4-Bromofluorobenzene (Surr	95	7.006	7.006	0.000	98	243493	30.0	30.3	
11 Propene	41	1.190	1.183	0.007	0	1406	NC	NC	M
12 Dichlorodifluoromethane	85	1.208	1.201	0.007	85	3395	1.00	0.8700	M
13 Chloromethane	50	1.299	1.304	-0.005	58	8791	1.00	1.28	
14 Vinyl chloride	62	1.348	1.347	0.001	93	7603	1.00	0.99	
15 Butadiene	54	1.360	1.359	0.001	94	7196	1.00	0.9304	
16 Bromomethane	96	1.518	1.517	0.001	92	5572	1.00	1.07	
17 Chloroethane	64	1.567	1.566	0.001	42	4942	1.00	0.99	
18 Dichlorofluoromethane	67	1.671	1.669	0.002	94	11504	1.00	1.00	
19 Trichlorofluoromethane	101	1.677	1.669	0.008	94	8483	1.00	0.9696	
20 Ethanol	46	1.804	1.809	-0.005	88	1953	40.0	47.8	M
21 Ethyl ether	59	1.823	1.815	0.008	91	5741	1.00	1.00	
22 1,1,2-Trichloro-1,2,2-trif	101	1.926	1.919	0.007	90	5678	1.00	0.9302	
23 Acrolein	56	1.932	1.925	0.007	30	650	2.50	2.27	M
24 1,1-Dichloroethene	96	1.944	1.943	0.001	96	5028	1.00	0.8911	
25 Acetone	58	2.005	2.004	0.001	86	3170	5.00	5.68	
26 Iodomethane	142	2.048	2.047	0.001	53	4603	1.00	0.6569	
27 Isopropyl alcohol	45	2.072	2.065	0.007	1	5631	10.0	18.1	
28 Carbon disulfide	76	2.072	2.071	0.001	98	18065	1.00	1.02	
30 3-Chloro-1-propene	76	2.145	2.132	0.013	88	5200	1.00	0.8326	
31 Methyl acetate	43	2.151	2.144	0.007	100	22377	5.00	4.91	
32 Acetonitrile	41	2.175	2.180	-0.005	71	9451	NC	NC	M
33 Methylene Chloride	84	2.224	2.217	0.007	95	8606	1.00	1.17	
34 2-Methyl-2-propanol	59	2.267	2.266	0.001	97	4518	10.0	9.17	
35 Methyl tert-butyl ether	73	2.328	2.320	0.008	96	16714	1.00	0.9353	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 trans-1,2-Dichloroethene	61	2.346	2.333	0.013	92	8689	1.00	0.9535	
37 Acrylonitrile	53	2.388	2.381	0.007	94	21945	10.0	10.1	
38 Hexane	57	2.443	2.436	0.007	94	10751	1.00	0.9770	
39 Isopropyl ether	45	2.571	2.570	0.001	91	24741	1.00	1.05	
40 1,1-Dichloroethane	63	2.589	2.582	0.007	99	11460	1.00	0.9575	
41 Vinyl acetate	86	2.601	2.588	0.013	99	2429	2.00	2.11	
42 2-Chloro-1,3-butadiene	53	2.620	2.618	0.002	91	10747	1.00	0.9826	
43 Tert-butyl ethyl ether	59	2.772	2.771	0.001	89	19969	1.00	0.9553	
44 2,2-Dichloropropane	77	2.905	2.904	0.001	95	8930	1.00	0.9677	
45 cis-1,2-Dichloroethene	96	2.924	2.923	0.001	94	6520	1.00	0.9128	
46 Ethyl acetate	70	2.936	2.935	0.001	93	1127	2.00	1.61	
47 2-Butanone (MEK)	72	2.942	2.935	0.007	95	3165	5.00	4.64	
48 Propionitrile	54	3.021	3.014	0.007	97	7184	10.0	8.58	
49 Chlorobromomethane	130	3.070	3.069	0.001	79	3791	1.00	0.9299	
50 Methacrylonitrile	41	3.088	3.075	0.013	94	37696	10.0	9.72	
51 Tetrahydrofuran	42	3.088	3.081	0.007	32	5184	2.00	2.16	
52 Chloroform	83	3.106	3.099	0.007	97	11134	1.00	1.01	
53 Cyclohexane	56	3.197	3.190	0.007	94	12211	1.00	0.9500	
54 1,1,1-Trichloroethane	97	3.197	3.196	0.001	69	8892	1.00	0.9569	
56 Carbon tetrachloride	117	3.283	3.282	0.001	98	6979	1.00	0.9019	
57 1,1-Dichloropropene	75	3.301	3.300	0.001	93	8646	1.00	0.9715	
58 Isobutyl alcohol	43	3.404	3.397	0.007	40	8990	25.0	21.0	
59 Benzene	78	3.429	3.428	0.001	92	26931	1.00	0.9844	
60 t-Amyl alcohol	59	3.447	3.440	0.007	49	3965	10.0	9.20	
61 Tert-amyl methyl ether	73	3.477	3.470	0.007	99	20166	1.00	0.9520	
62 1,2-Dichloroethane	62	3.483	3.482	0.001	95	8297	1.00	0.9898	
63 n-Heptane	43	3.532	3.525	0.007	92	11429	1.00	0.99	
64 n-Butanol	56	3.848	3.835	0.013	37	3335	25.0	25.6	
65 Trichloroethene	130	3.854	3.853	0.001	96	6246	1.00	0.8878	
66 Ethyl acrylate	55	3.940	3.933	0.008	92	17243	1.00	0.9453	
67 Methylcyclohexane	83	3.940	3.939	0.001	88	12243	1.00	0.9405	
68 1,2-Dichloropropane	63	4.043	4.036	0.007	88	6702	1.00	0.9574	
69 Methyl methacrylate	41	4.092	4.085	0.007	89	29592	2.00	1.40	
70 Dibromomethane	93	4.134	4.127	0.007	95	3044	1.00	0.8283	
71 1,4-Dioxane	88	4.134	4.133	0.001	1	696	20.0	11.3	
73 Dichlorobromomethane	83	4.232	4.225	0.007	97	6326	1.00	0.8391	
75 2-Chloroethyl vinyl ether	63	4.451	4.444	0.007	69	3291	1.00	0.8381	
74 2-Nitropropane	43	4.451	4.444	0.007	82	6559	2.00	1.96	
76 cis-1,3-Dichloropropene	75	4.566	4.559	0.007	93	9437	1.00	0.9113	
77 4-Methyl-2-pentanone (MIBK)	58	4.670	4.669	0.001	98	10267	5.00	4.54	
78 Toluene	91	4.779	4.778	0.001	93	28627	1.00	1.02	
79 trans-1,3-Dichloropropene	75	5.016	5.009	0.007	96	7405	1.00	0.8473	
80 Ethyl methacrylate	69	5.041	5.028	0.013	87	7260	1.00	0.9018	
81 1,1,2-Trichloroethane	97	5.156	5.149	0.007	93	4518	1.00	0.8518	
82 Tetrachloroethene	166	5.199	5.198	0.001	96	7326	1.00	1.00	
83 1,3-Dichloropropane	76	5.296	5.295	0.001	93	8933	1.00	0.9760	
84 2-Hexanone	58	5.357	5.338	0.019	96	7090	5.00	3.85	
85 n-Butyl acetate	43	5.430	5.411	0.019	96	9958	1.00	1.09	
86 Chlorodibromomethane	127	5.454	5.453	0.001	95	3076	1.00	0.7471	
87 Ethylene Dibromide	107	5.570	5.563	0.007	39	4112	1.00	0.8215	
88 1-Chlorohexane	91	5.917	5.916	0.001	60	9124	1.00	0.9689	
89 Chlorobenzene	112	5.959	5.958	0.001	97	16722	1.00	0.9550	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
90 Ethylbenzene	91	6.026	6.025	0.001	98	28343	1.00	0.9584	
91 1,1,1,2-Tetrachloroethane	131	6.038	6.037	0.001	90	4833	1.00	0.8095	
92 m-Xylene & p-Xylene	91	6.142	6.129	0.013	0	21101	1.00	0.9249	
93 o-Xylene	91	6.495	6.488	0.007	93	21106	1.00	0.9172	
94 Styrene	104	6.531	6.518	0.013	95	14946	1.00	0.7776	
95 Bromoform	173	6.714	6.707	0.007	1	2290	1.00	1.01	
96 Isopropylbenzene	105	6.817	6.810	0.007	96	25934	1.00	0.8946	
97 Cyclohexanone	55	6.981	6.974	0.007	1	1703	10.0	9.88	
98 Bromobenzene	77	7.133	7.132	0.001	93	9937	1.00	0.9672	
99 1,1,2,2-Tetrachloroethane	83	7.176	7.169	0.007	97	5048	1.00	0.9165	
100 N-Propylbenzene	91	7.206	7.199	0.007	98	31011	1.00	0.9436	
101 1,2,3-Trichloropropane	110	7.213	7.212	0.001	93	1589	1.00	0.8831	
102 trans-1,4-Dichloro-2-buten	53	7.249	7.230	0.019	1	618	1.00	0.3904	
103 2-Chlorotoluene	91	7.310	7.303	0.007	96	22413	1.00	1.01	
104 4-Ethyltoluene	105	7.316	7.309	0.007	97	25304	NC	NC	
105 1,3,5-Trimethylbenzene	105	7.383	7.376	0.007	92	23265	1.00	0.9271	
106 4-Chlorotoluene	91	7.425	7.418	0.007	96	19640	1.00	0.9640	
107 tert-Butylbenzene	119	7.669	7.668	0.001	95	19196	1.00	0.9336	
108 1,2,4-Trimethylbenzene	105	7.742	7.735	0.007	97	20875	1.00	0.9101	
110 sec-Butylbenzene	105	7.888	7.881	0.007	98	29070	1.00	0.9536	
112 4-Isopropyltoluene	119	8.028	8.027	0.001	98	23734	1.00	0.9248	
111 1,3-Dichlorobenzene	146	8.034	8.027	0.007	96	12325	1.00	0.9602	
113 Dicyclopentadiene	66	8.083	8.081	0.001	96	32652	NC	NC	
114 1,4-Dichlorobenzene	146	8.125	8.124	0.001	95	13448	1.00	1.02	
115 1,2,3-Trimethylbenzene	105	8.149	8.142	0.007	98	22844	1.00	0.9743	
116 Benzyl chloride	91	8.271	8.264	0.007	29	6362	1.00	0.6491	
117 n-Butylbenzene	91	8.435	8.428	0.007	98	20642	1.00	0.9343	
118 1,2-Dichlorobenzene	146	8.490	8.483	0.007	94	10746	1.00	0.9324	
119 1,2-Dibromo-3-Chloropropan	157	9.275	9.274	0.001	1	266	1.00	0.2897	
120 1,3,5-Trichlorobenzene	180	9.439	9.432	0.007	93	7085	1.00	0.8649	
121 1,2,4-Trichlorobenzene	180	10.163	10.150	0.013	88	3764	1.00	0.9637	
122 Hexachlorobutadiene	225	10.297	10.302	-0.005	91	3328	1.00	0.8756	
123 Naphthalene	128	10.473	10.454	0.019	1	7464	1.00	0.7700	
124 1,2,3-Trichlorobenzene	180	10.759	10.752	0.007	93	3012	1.00	0.7619	
125 2-Methylnaphthalene	142	11.739	11.701	0.038	1	1003	1.00	0.4643	
126 1-Methylnaphthalene	142	11.885	11.884	0.001	0	721	1.00	0.4573	M
S 148 Xylenes, Total	1				0			1.84	
S 149 1,2-Dichloroethene, Total	1				0			1.87	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

V1_gases_I_00184

Amount Added: 1.00

Units: uL

V1_Mega_I_00057

Amount Added: 1.00

Units: uL

VOA_ISSS150_W_00014

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20161109-82377.b\\11081609.D

Injection Date: 08-Nov-2016 23:48:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: std001

Worklist Smp#: 3

Client ID:

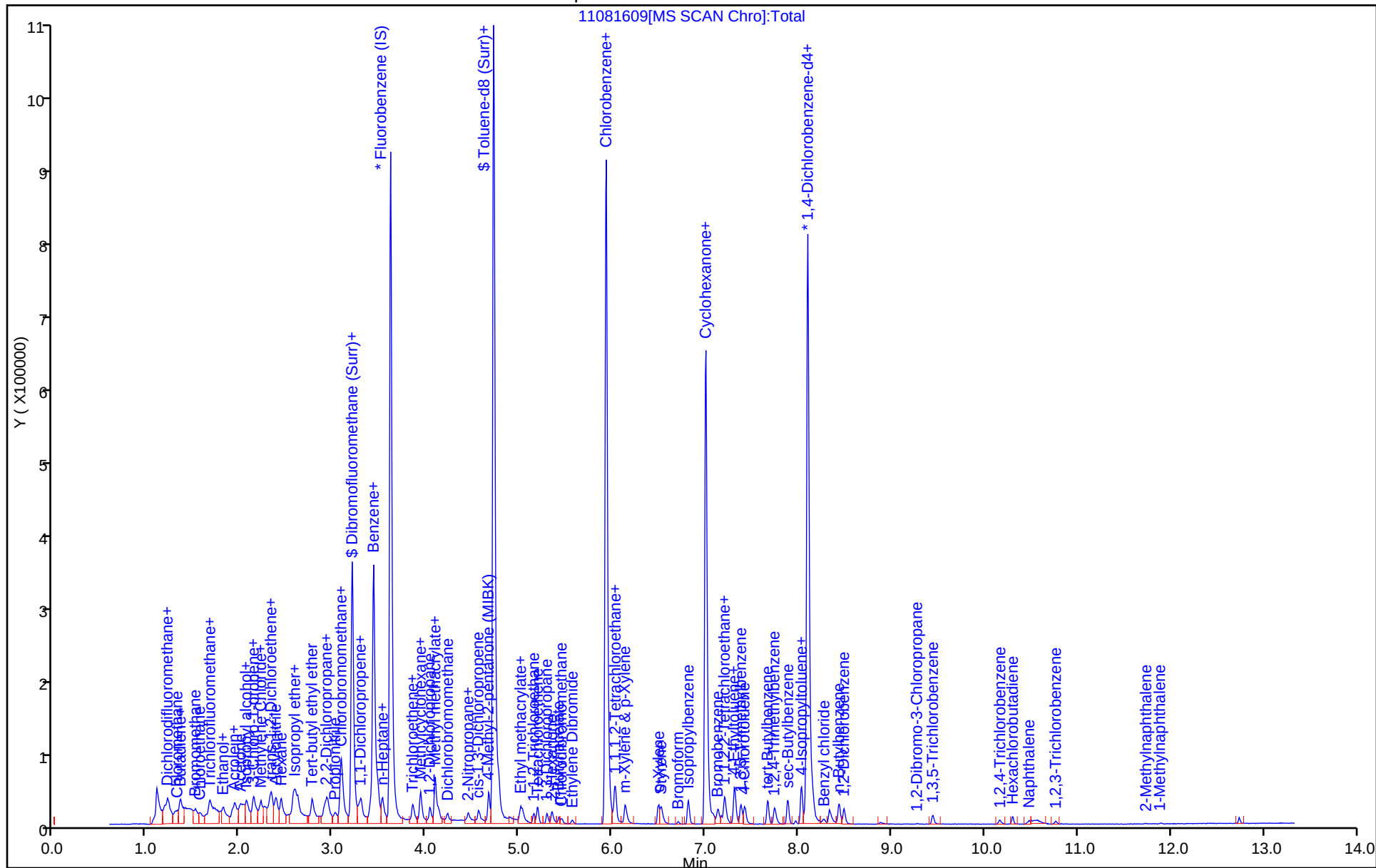
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 8260HP33

Limit Group: MSV 8260C ICAL



TestAmerica Nashville

Data File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081609.D

Injection Date: 08-Nov-2016 23:48:30

Instrument ID: HP33

Lims ID: std001

Client ID:

Operator ID: JJR

ALS Bottle#:

9

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

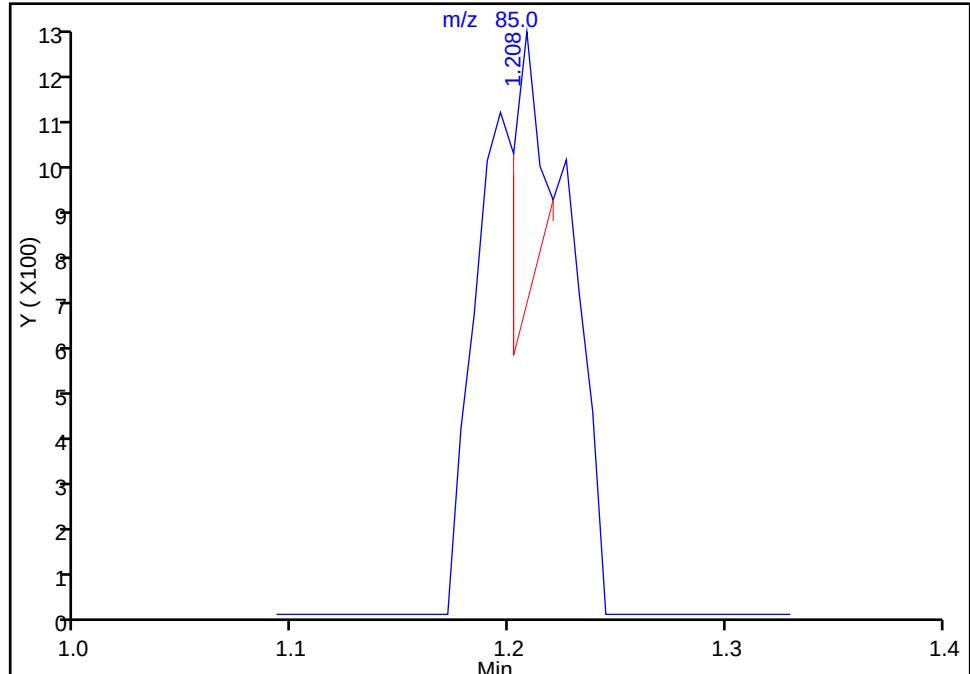
Detector: MS SCAN

12 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

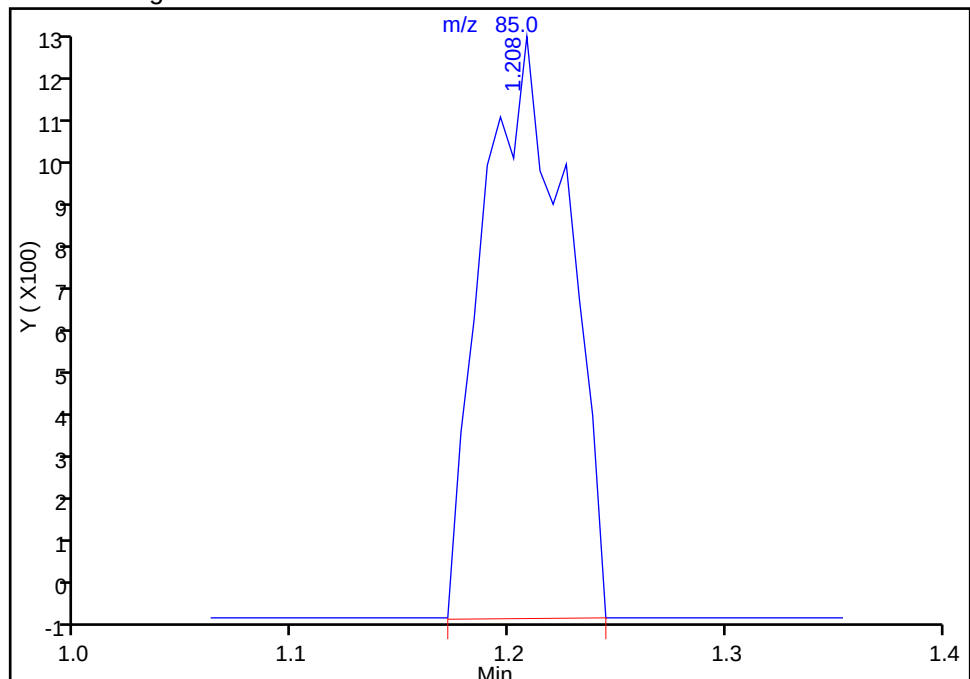
RT: 1.21
Area: 438
Amount: 0.472528
Amount Units: ug/l

Processing Integration Results



RT: 1.21
Area: 3395
Amount: 0.869980
Amount Units: ug/l

Manual Integration Results



Reviewer: redmondj, 09-Nov-2016 12:00:44

Audit Action: Assigned Compound ID

Audit Reason: Baseline

TestAmerica Nashville

Data File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081609.D

Injection Date: 08-Nov-2016 23:48:30

Instrument ID: HP33

Lims ID: std001

Client ID:

Operator ID: JJR

ALS Bottle#:

9

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260HP33

Limit Group:

MSV 8260C ICAL

Column:

Detector

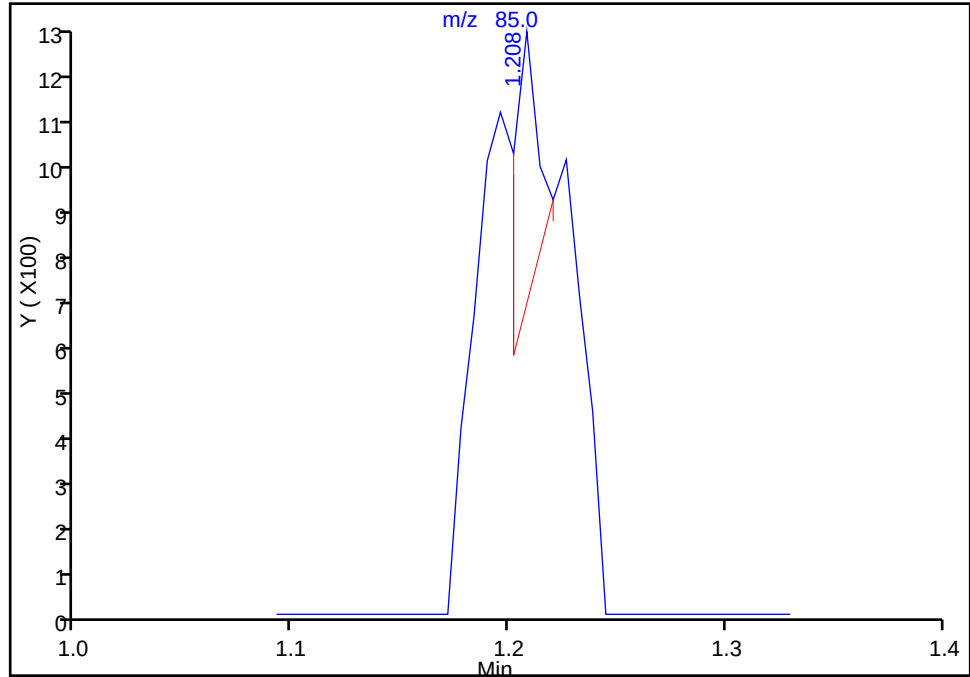
MS SCAN

12 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

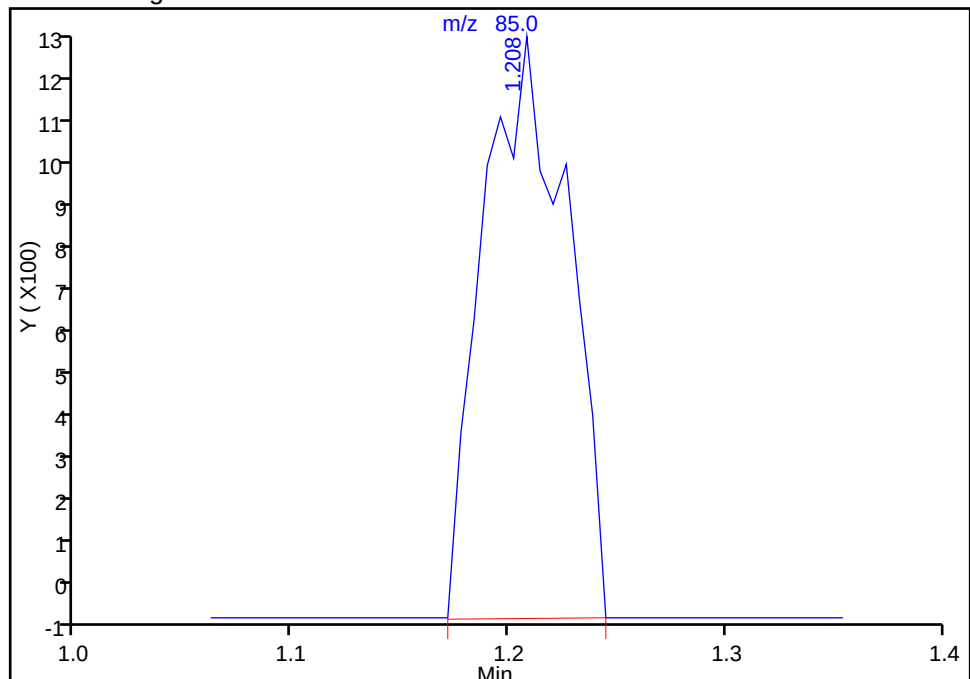
RT: 1.21
Area: 438
Amount: 0.472528
Amount Units: ug/l

Processing Integration Results



RT: 1.21
Area: 3395
Amount: 0.869980
Amount Units: ug/l

Manual Integration Results



Reviewer: redmondj, 09-Nov-2016 12:00:44

Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Nashville

Data File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081609.D

Injection Date: 08-Nov-2016 23:48:30

Instrument ID: HP33

Lims ID: std001

Client ID:

Operator ID: JJR

ALS Bottle#:

9

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

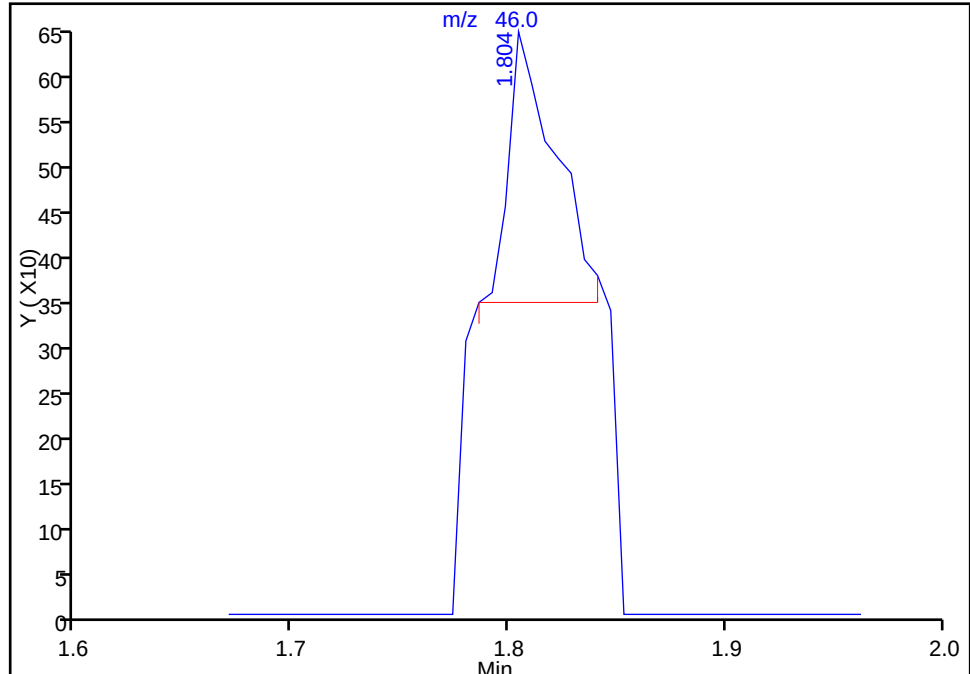
Detector: MS SCAN

20 Ethanol, CAS: 64-17-5

Signal: 1

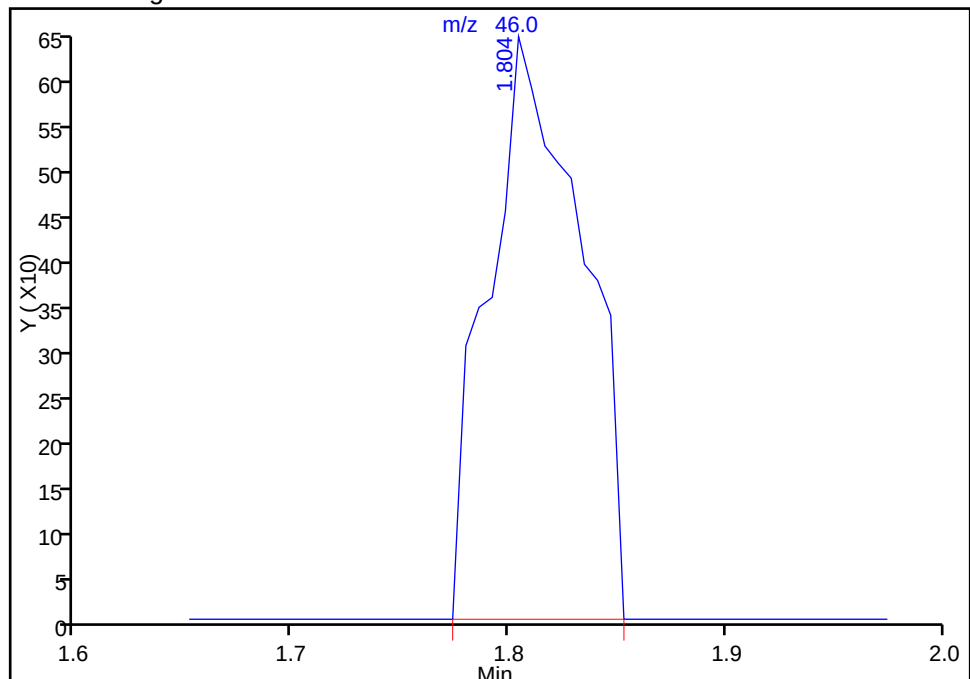
RT: 1.80
Area: 448
Amount: 17.579450
Amount Units: ug/l

Processing Integration Results



RT: 1.80
Area: 1953
Amount: 47.762121
Amount Units: ug/l

Manual Integration Results



Reviewer: redmondj, 09-Nov-2016 12:00:44

Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Nashville

Data File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081609.D

Injection Date: 08-Nov-2016 23:48:30

Instrument ID: HP33

Lims ID: std001

Client ID:

Operator ID: JJR

ALS Bottle#:

9

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

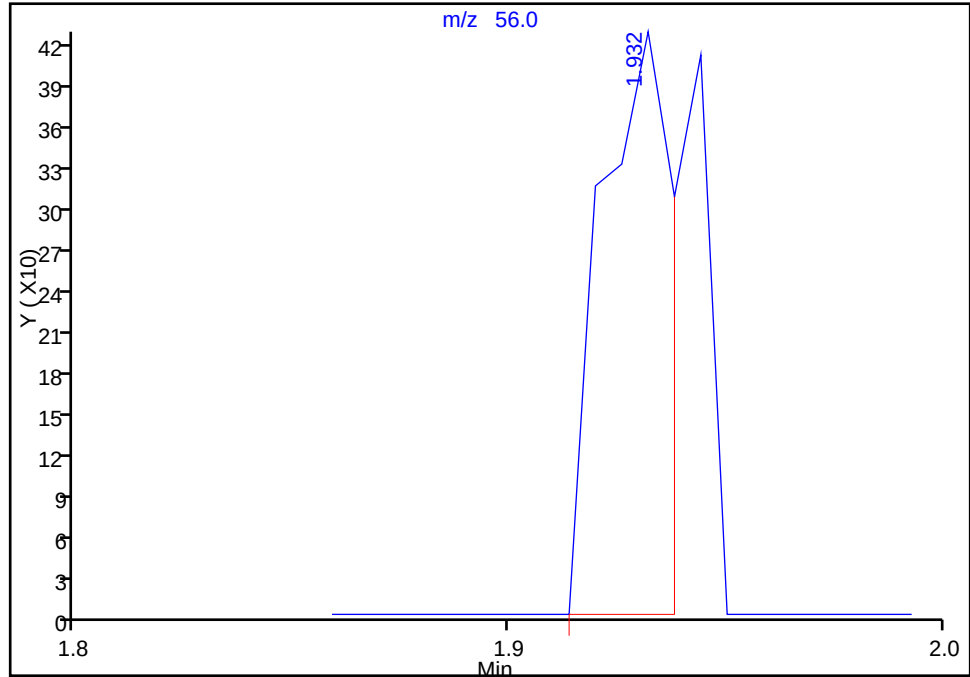
Detector MS SCAN

23 Acrolein, CAS: 107-02-8

Signal: 1

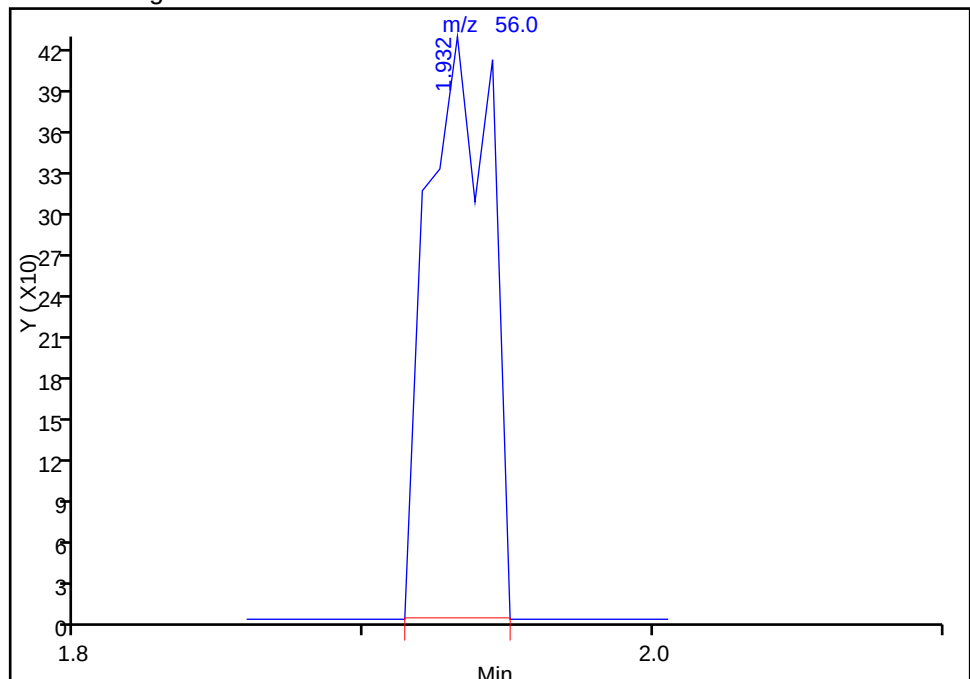
RT: 1.93
Area: 503
Amount: 2.029389
Amount Units: ug/l

Processing Integration Results



RT: 1.93
Area: 650
Amount: 2.267104
Amount Units: ug/l

Manual Integration Results



Reviewer: redmondj, 09-Nov-2016 12:00:44

Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Nashville

Data File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081609.D

Injection Date: 08-Nov-2016 23:48:30

Instrument ID: HP33

Lims ID: std001

Client ID:

Operator ID: JJR

ALS Bottle#:

9

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Column:

Detector MS SCAN

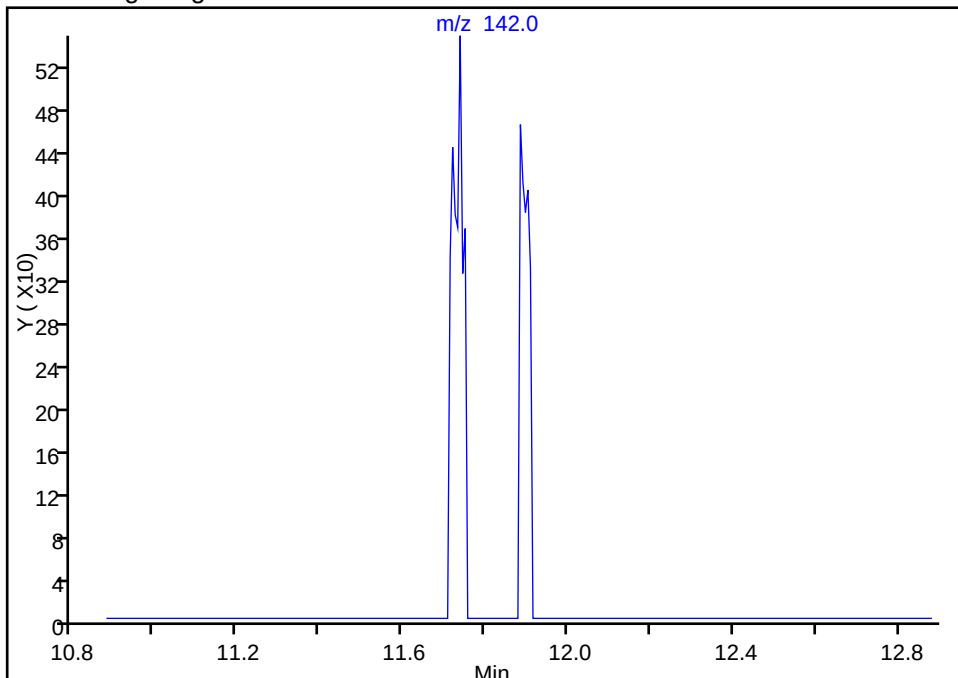
126 1-Methylnaphthalene, CAS: 90-12-0

Signal: 1

Not Detected

Expected RT: 11.88

Processing Integration Results



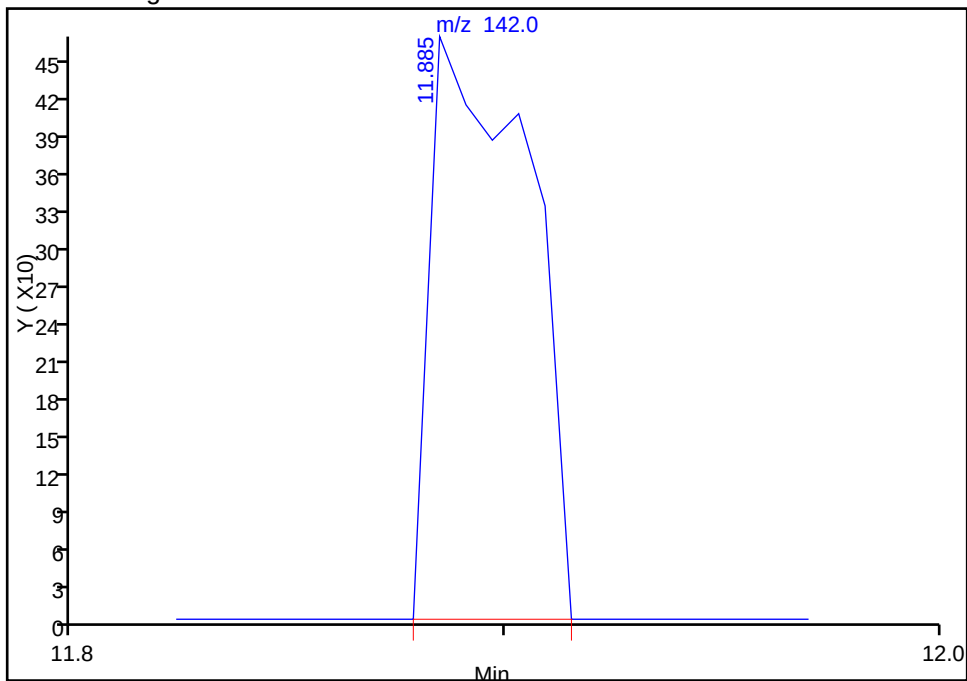
RT: 11.88

Area: 721

Amount: 0.457301

Amount Units: ug/l

Manual Integration Results



Reviewer: redmondj, 09-Nov-2016 12:00:44

Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

TestAmerica Nashville

Data File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081609.D

Injection Date: 08-Nov-2016 23:48:30

Instrument ID: HP33

Lims ID: std001

Client ID:

Operator ID: JJR

ALS Bottle#:

9

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260HP33

Limit Group:

MSV 8260C ICAL

Column:

Detector

MS SCAN

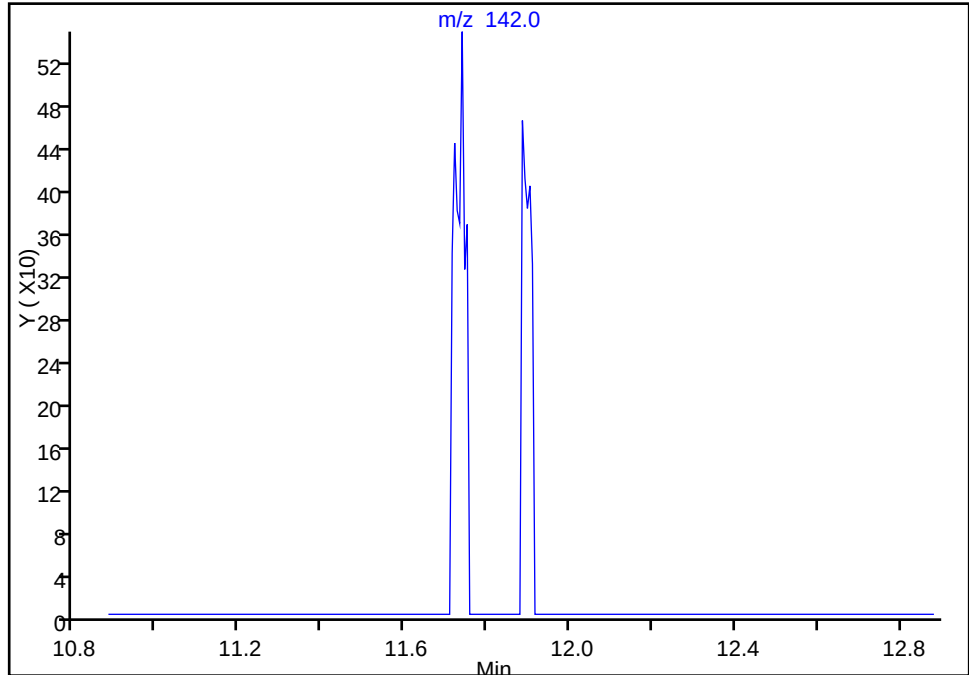
126 1-Methylnaphthalene, CAS: 90-12-0

Signal: 1

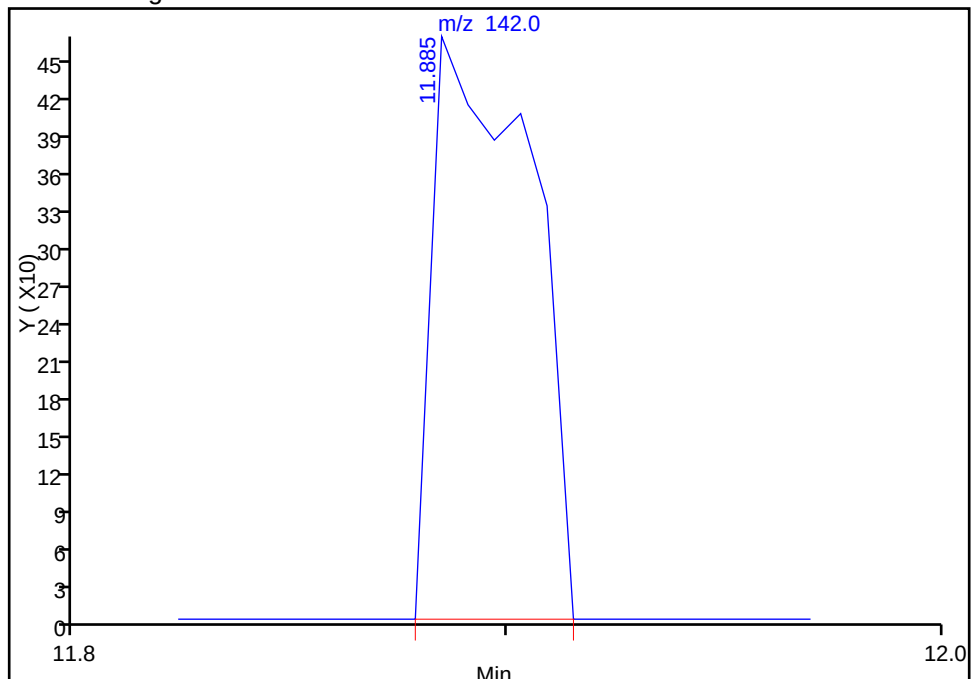
Not Detected

Expected RT: 11.88

Processing Integration Results



Manual Integration Results



RT: 11.88

Area: 721

Amount: 0.457301

Amount Units: ug/l

Reviewer: redmondj, 09-Nov-2016 12:00:44

Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081610.D
 Lims ID: std002
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 09-Nov-2016 00:15:30 ALS Bottle#: 10 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD002
 Operator ID: JJR Instrument ID: HP33
 Sublist: chrom-8260HP33*sub22
 Method: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 12-Nov-2016 12:38:41 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: redmondj

Date: 09-Nov-2016 12:05:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.617	3.617	0.000	98	784911	30.0	30.0	
* 2 Chlorobenzene-d5	117	5.934	5.935	-0.001	86	565743	30.0	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.100	8.101	-0.001	97	271050	30.0	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.203	3.203	0.000	98	197572	30.0	30.0	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.434	3.435	-0.001	0	214838	30.0	29.4	
\$ 7 Toluene-d8 (Surr)	98	4.724	4.724	0.000	99	774513	30.0	30.9	
\$ 8 4-Bromofluorobenzene (Surr	95	7.005	7.006	-0.001	94	255744	30.0	30.1	
11 Propene	41	1.183	1.183	0.000	0	2901	NC	NC	M
12 Dichlorodifluoromethane	85	1.195	1.201	-0.006	98	7560	2.00	1.90	
13 Chloromethane	50	1.299	1.304	-0.005	87	14480	2.00	2.06	
14 Vinyl chloride	62	1.347	1.347	0.000	98	15179	2.00	1.95	
15 Butadiene	54	1.360	1.359	0.001	97	15449	2.00	1.96	
16 Bromomethane	96	1.524	1.517	0.007	98	9394	2.00	2.23	
17 Chloroethane	64	1.573	1.566	0.007	98	10515	2.00	2.08	
18 Dichlorofluoromethane	67	1.670	1.669	0.001	89	23210	2.00	1.98	
19 Trichlorofluoromethane	101	1.676	1.669	0.007	96	17807	2.00	2.00	
20 Ethanol	46	1.816	1.809	0.007	85	2998	80.0	83.5	
21 Ethyl ether	59	1.822	1.815	0.007	91	11138	2.00	1.91	
22 1,1,2-Trichloro-1,2,2-trif	101	1.919	1.919	0.000	96	11957	2.00	1.92	
23 Acrolein	56	1.932	1.925	0.007	34	1529	5.00	5.24	
24 1,1-Dichloroethene	96	1.950	1.943	0.007	97	11472	2.00	2.00	
25 Acetone	58	2.011	2.004	0.007	85	5752	10.0	10.1	
26 Iodomethane	142	2.047	2.047	0.000	98	10162	2.00	1.42	
27 Isopropyl alcohol	45	2.065	2.065	0.000	1	6774	20.0	21.4	
28 Carbon disulfide	76	2.071	2.071	0.000	99	36663	2.00	2.03	
30 3-Chloro-1-propene	76	2.138	2.132	0.006	90	10616	2.00	1.67	
31 Methyl acetate	43	2.151	2.144	0.007	99	47456	10.0	10.2	
32 Acetonitrile	41	2.187	2.180	0.007	72	20526	NC	NC	M
33 Methylene Chloride	84	2.217	2.217	0.000	94	15903	2.00	2.12	
34 2-Methyl-2-propanol	59	2.272	2.266	0.006	91	9356	20.0	18.6	
35 Methyl tert-butyl ether	73	2.321	2.320	0.001	97	36697	2.00	2.02	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 trans-1,2-Dichloroethene	61	2.345	2.333	0.012	95	18702	2.00	2.02	
37 Acrylonitrile	53	2.388	2.381	0.007	96	44192	20.0	19.9	
38 Hexane	57	2.436	2.436	0.000	93	22821	2.00	2.04	
39 Isopropyl ether	45	2.570	2.570	0.000	94	45957	2.00	1.91	
40 1,1-Dichloroethane	63	2.589	2.582	0.007	99	23712	2.00	1.95	
41 Vinyl acetate	86	2.601	2.588	0.013	99	5349	4.00	3.88	
42 2-Chloro-1,3-butadiene	53	2.619	2.618	0.001	92	22235	2.00	2.00	
43 Tert-butyl ethyl ether	59	2.777	2.771	0.006	90	42106	2.00	1.98	
44 2,2-Dichloropropane	77	2.905	2.904	0.001	95	18635	2.00	1.98	
45 cis-1,2-Dichloroethene	96	2.923	2.923	0.000	96	14016	2.00	1.93	
46 Ethyl acetate	70	2.941	2.935	0.006	94	2571	4.00	3.60	
47 2-Butanone (MEK)	72	2.941	2.935	0.006	95	6669	10.0	9.61	
48 Propionitrile	54	3.020	3.014	0.006	99	16428	20.0	19.3	
49 Chlorobromomethane	130	3.075	3.069	0.006	87	8544	2.00	2.06	
50 Methacrylonitrile	41	3.081	3.075	0.006	94	78205	20.0	19.8	
51 Tetrahydrofuran	42	3.087	3.081	0.006	41	9978	4.00	4.09	
52 Chloroform	83	3.100	3.099	0.001	98	21938	2.00	1.96	
53 Cyclohexane	56	3.197	3.190	0.007	93	25935	2.00	1.98	
54 1,1,1-Trichloroethane	97	3.197	3.196	0.001	80	18648	2.00	1.97	
56 Carbon tetrachloride	117	3.282	3.282	0.000	97	15172	2.00	1.93	
57 1,1-Dichloropropene	75	3.300	3.300	0.000	95	17354	2.00	1.91	
58 Isobutyl alcohol	43	3.398	3.397	0.001	39	20252	50.0	46.4	
59 Benzene	78	3.428	3.428	0.000	97	53890	2.00	1.93	
60 t-Amyl alcohol	59	3.440	3.440	0.000	48	8675	20.0	19.8	
61 Tert-amyl methyl ether	73	3.477	3.470	0.007	99	41975	2.00	1.95	
62 1,2-Dichloroethane	62	3.483	3.482	0.001	96	17016	2.00	1.99	
63 n-Heptane	43	3.531	3.525	0.006	89	22606	2.00	1.92	
64 n-Butanol	56	3.854	3.835	0.019	37	5220	50.0	39.4	
65 Trichloroethene	130	3.854	3.853	0.001	96	13485	2.00	1.88	
66 Ethyl acrylate	55	3.939	3.933	0.007	93	36278	2.00	1.95	
67 Methylcyclohexane	83	3.939	3.939	0.000	86	26433	2.00	1.99	
68 1,2-Dichloropropane	63	4.042	4.036	0.006	90	14157	2.00	1.99	
69 Methyl methacrylate	41	4.091	4.085	0.006	91	46876	4.00	4.11	
70 Dibromomethane	93	4.134	4.127	0.007	95	7250	2.00	1.94	
71 1,4-Dioxane	88	4.140	4.133	0.007	1	1981	40.0	31.6	
73 Dichlorobromomethane	83	4.231	4.225	0.006	98	13654	2.00	1.78	
75 2-Chloroethyl vinyl ether	63	4.456	4.444	0.012	80	7159	2.00	1.81	
74 2-Nitropropane	43	4.444	4.444	0.000	73	12974	4.00	3.81	
76 cis-1,3-Dichloropropene	75	4.566	4.559	0.007	95	18412	2.00	1.77	
77 4-Methyl-2-pentanone (MIBK)	58	4.669	4.669	0.000	98	21329	10.0	9.39	
78 Toluene	91	4.779	4.778	0.001	94	57804	2.00	2.05	
79 trans-1,3-Dichloropropene	75	5.016	5.009	0.007	98	15718	2.00	1.79	
80 Ethyl methacrylate	69	5.034	5.028	0.006	89	15187	2.00	1.88	
81 1,1,2-Trichloroethane	97	5.156	5.149	0.007	95	10498	2.00	1.97	
82 Tetrachloroethene	166	5.198	5.198	0.000	97	14586	2.00	1.99	
83 1,3-Dichloropropane	76	5.302	5.295	0.007	93	17818	2.00	1.94	
84 2-Hexanone	58	5.350	5.338	0.012	96	16613	10.0	8.98	
85 n-Butyl acetate	43	5.423	5.411	0.012	96	14115	2.00	1.52	
86 Chlorodibromomethane	127	5.460	5.453	0.007	97	7077	2.00	1.71	
87 Ethylene Dibromide	107	5.563	5.563	0.000	47	9234	2.00	1.84	
88 1-Chlorohexane	91	5.922	5.916	0.006	91	17315	2.00	1.81	
89 Chlorobenzene	112	5.959	5.958	0.001	96	35270	2.00	2.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
90 Ethylbenzene	91	6.026	6.025	0.001	98	58892	2.00	1.98	
91 1,1,1,2-Tetrachloroethane	131	6.038	6.037	0.001	92	10131	2.00	1.69	
92 m-Xylene & p-Xylene	91	6.135	6.129	0.006	0	45241	2.00	1.97	
93 o-Xylene	91	6.494	6.488	0.006	94	43755	2.00	1.89	
94 Styrene	104	6.525	6.518	0.007	95	34395	2.00	1.78	
95 Bromoform	173	6.713	6.707	0.006	69	4915	2.00	1.80	
96 Isopropylbenzene	105	6.817	6.810	0.007	96	55762	2.00	1.91	
97 Cyclohexanone	55	6.975	6.974	0.001	84	3301	20.0	18.8	
98 Bromobenzene	77	7.133	7.132	0.001	94	20736	2.00	1.91	
99 1,1,2,2-Tetrachloroethane	83	7.175	7.169	0.006	96	10680	2.00	1.83	
100 N-Propylbenzene	91	7.206	7.199	0.007	99	67925	2.00	1.95	
101 1,2,3-Trichloropropane	110	7.224	7.212	0.012	95	3551	2.00	1.86	
102 trans-1,4-Dichloro-2-buten	53	7.248	7.230	0.018	1	2117	2.00	1.26	
103 2-Chlorotoluene	91	7.309	7.303	0.006	98	46082	2.00	1.97	
104 4-Ethyltoluene	105	7.315	7.309	0.006	98	54887	NC	NC	
105 1,3,5-Trimethylbenzene	105	7.382	7.376	0.006	96	54201	2.00	2.04	
106 4-Chlorotoluene	91	7.425	7.418	0.007	96	38550	2.00	1.79	
107 tert-Butylbenzene	119	7.668	7.668	0.000	96	41462	2.00	1.91	
108 1,2,4-Trimethylbenzene	105	7.741	7.735	0.006	97	46587	2.00	1.92	
110 sec-Butylbenzene	105	7.887	7.881	0.006	99	63363	2.00	1.96	
112 4-Isopropyltoluene	119	8.027	8.027	0.000	97	50805	2.00	1.87	
111 1,3-Dichlorobenzene	146	8.033	8.027	0.006	97	26794	2.00	1.97	
113 Dicyclopentadiene	66	8.082	8.081	0.001	96	65037	NC	NC	
114 1,4-Dichlorobenzene	146	8.124	8.124	0.000	95	28313	2.00	2.04	
115 1,2,3-Trimethylbenzene	105	8.149	8.142	0.007	98	47776	2.00	1.93	
116 Benzyl chloride	91	8.270	8.264	0.006	98	14344	2.00	1.46	
117 n-Butylbenzene	91	8.435	8.428	0.007	97	43908	2.00	1.88	
118 1,2-Dichlorobenzene	146	8.489	8.483	0.006	96	23628	2.00	1.94	
119 1,2-Dibromo-3-Chloropropan	157	9.280	9.274	0.006	81	1228	2.00	1.26	
120 1,3,5-Trichlorobenzene	180	9.445	9.432	0.013	96	15829	2.00	1.83	
121 1,2,4-Trichlorobenzene	180	10.162	10.150	0.012	92	10291	2.00	1.96	
122 Hexachlorobutadiene	225	10.302	10.302	0.000	95	7482	2.00	1.86	
123 Naphthalene	128	10.479	10.454	0.025	29	17742	2.00	1.73	
124 1,2,3-Trichlorobenzene	180	10.759	10.752	0.007	93	7295	2.00	1.74	
125 2-Methylnaphthalene	142	11.720	11.701	0.019	78	2738	2.00	1.20	
126 1-Methylnaphthalene	142	11.896	11.884	0.012	73	2015	2.00	1.21	
S 148 Xylenes, Total	1				0			3.87	
S 149 1,2-Dichloroethene, Total	1				0			3.94	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

V1_Mega_I_00057

Amount Added: 2.00

Units: uL

V1_gases_I_00184

Amount Added: 2.00

Units: uL

VOA_ISSS150_W_00014

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20161109-82377.b\\11081610.D

Injection Date: 09-Nov-2016 00:15:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: std002

Worklist Smp#: 4

Client ID:

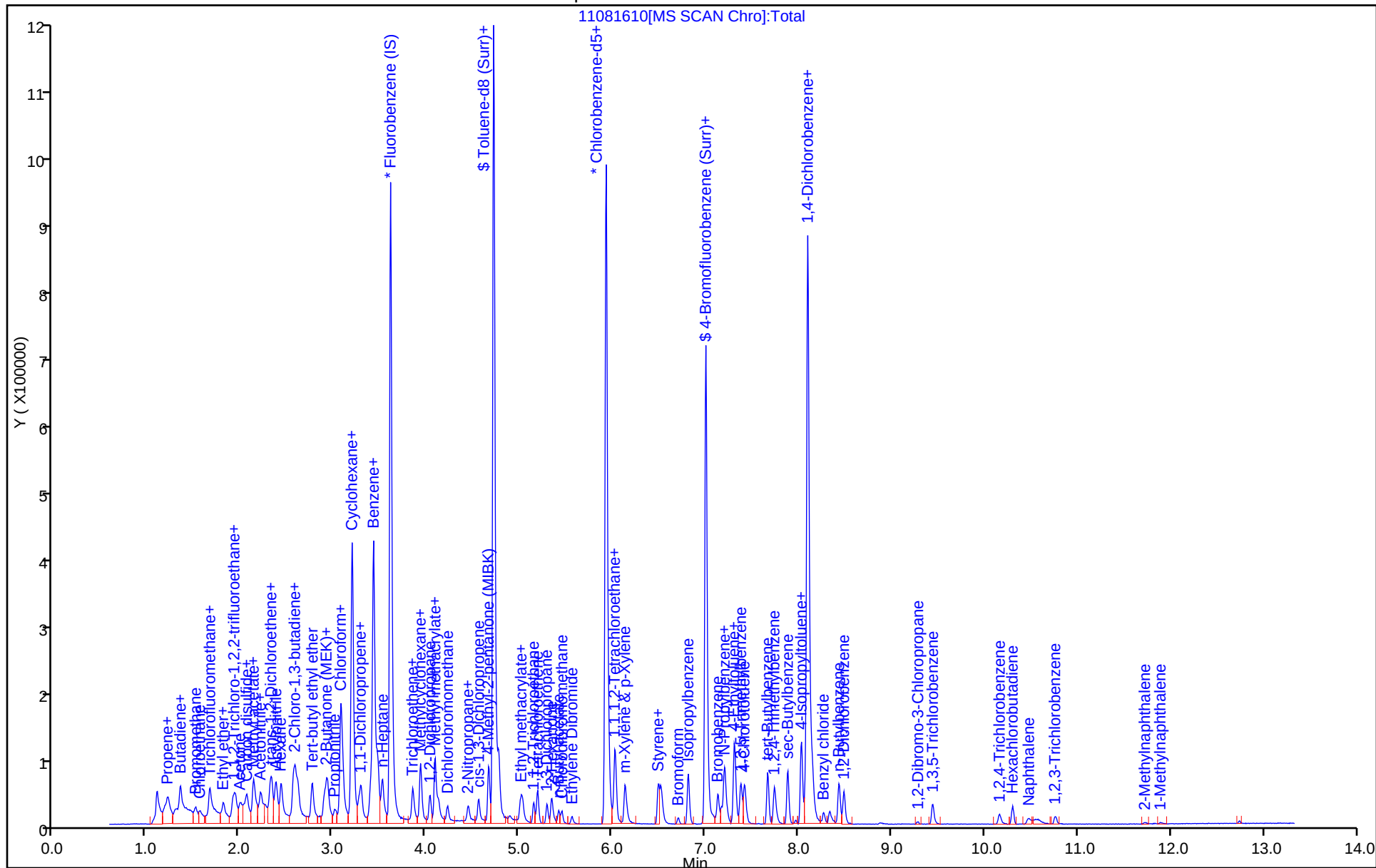
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 8260HP33

Limit Group: MSV 8260C ICAL



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081611.D
 Lims ID: std005
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 09-Nov-2016 00:41:30 ALS Bottle#: 11 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD005
 Operator ID: JJR Instrument ID: HP33
 Sublist: chrom-8260HP33*sub22
 Method: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 12-Nov-2016 12:38:47 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: redmondj Date: 09-Nov-2016 12:06:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.617	3.617	0.000	98	786303	30.0	30.0	
* 2 Chlorobenzene-d5	117	5.935	5.935	0.000	86	580661	30.0	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.101	8.101	-0.001	95	277524	30.0	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.203	3.203	0.000	98	195628	30.0	29.7	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.434	3.435	-0.001	0	212761	30.0	29.1	
\$ 7 Toluene-d8 (Surr)	98	4.724	4.724	0.000	99	774318	30.0	30.1	
\$ 8 4-Bromofluorobenzene (Surr	95	7.005	7.006	-0.001	93	259297	30.0	29.8	
11 Propene	41	1.178	1.183	-0.005	0	7198	NC	NC	M
12 Dichlorodifluoromethane	85	1.202	1.201	0.001	98	20398	5.00	5.12	
13 Chloromethane	50	1.305	1.304	0.001	98	32272	5.00	4.59	
14 Vinyl chloride	62	1.348	1.347	0.001	98	38842	5.00	4.98	
15 Butadiene	54	1.360	1.359	0.001	96	39949	5.00	5.06	
16 Bromomethane	96	1.518	1.517	0.001	98	19032	5.00	5.21	
17 Chloroethane	64	1.573	1.566	0.007	99	26938	5.00	5.31	
18 Dichlorofluoromethane	67	1.670	1.669	0.001	98	59250	5.00	5.04	
19 Trichlorofluoromethane	101	1.676	1.669	0.007	99	46610	5.00	5.22	
20 Ethanol	46	1.804	1.809	-0.005	89	5390	200.0	167.9	
21 Ethyl ether	59	1.822	1.815	0.007	90	29461	5.00	5.04	
22 1,1,2-Trichloro-1,2,2-trif	101	1.920	1.919	0.001	98	30638	5.00	4.92	
23 Acrolein	56	1.932	1.925	0.007	1	3784	12.5	12.9	
24 1,1-Dichloroethene	96	1.950	1.943	0.007	98	29775	5.00	5.17	
25 Acetone	58	2.011	2.004	0.007	86	13648	25.0	24.0	
26 Iodomethane	142	2.047	2.047	0.000	98	30994	5.00	4.34	
27 Isopropyl alcohol	45	2.066	2.065	0.001	1	14551	50.0	45.8	
28 Carbon disulfide	76	2.072	2.071	0.001	100	90751	5.00	5.00	
30 3-Chloro-1-propene	76	2.139	2.132	0.007	90	28337	5.00	4.45	
31 Methyl acetate	43	2.151	2.144	0.007	99	114105	25.0	24.6	
32 Acetonitrile	41	2.181	2.180	0.001	38	30149	NC	NC	
33 Methylene Chloride	84	2.224	2.217	0.007	94	36799	5.00	4.91	
34 2-Methyl-2-propanol	59	2.266	2.266	0.000	97	23925	50.0	47.6	
35 Methyl tert-butyl ether	73	2.321	2.320	0.001	98	92025	5.00	5.05	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 trans-1,2-Dichloroethene	61	2.339	2.333	0.006	96	46815	5.00	5.04	
37 Acrylonitrile	53	2.382	2.381	0.001	94	116190	50.0	52.2	
38 Hexane	57	2.443	2.436	0.007	93	56710	5.00	5.05	
39 Isopropyl ether	45	2.571	2.570	0.001	94	120599	5.00	5.00	
40 1,1-Dichloroethane	63	2.589	2.582	0.007	99	62147	5.00	5.09	
41 Vinyl acetate	86	2.595	2.588	0.007	100	14489	10.0	9.50	
42 2-Chloro-1,3-butadiene	53	2.619	2.618	0.001	91	54709	5.00	4.90	
43 Tert-butyl ethyl ether	59	2.771	2.771	0.000	90	108465	5.00	5.09	
44 2,2-Dichloropropane	77	2.905	2.904	0.001	95	48515	5.00	5.15	
45 cis-1,2-Dichloroethene	96	2.923	2.923	0.000	97	37164	5.00	5.10	
46 Ethyl acetate	70	2.936	2.935	0.001	94	7110	10.0	9.94	
47 2-Butanone (MEK)	72	2.936	2.935	0.001	96	17462	25.0	25.1	
48 Propionitrile	54	3.021	3.014	0.007	99	40437	50.0	47.3	
49 Chlorobromomethane	130	3.069	3.069	0.000	82	21613	5.00	5.20	
50 Methacrylonitrile	41	3.082	3.075	0.007	93	199954	50.0	50.5	
51 Tetrahydrofuran	42	3.088	3.081	0.007	29	24857	10.0	10.2	
52 Chloroform	83	3.100	3.099	0.001	98	57224	5.00	5.11	
53 Cyclohexane	56	3.197	3.190	0.007	91	64397	5.00	4.91	
54 1,1,1-Trichloroethane	97	3.197	3.196	0.001	72	47318	5.00	4.99	
56 Carbon tetrachloride	117	3.276	3.282	-0.006	98	39770	5.00	5.04	
57 1,1-Dichloropropene	75	3.301	3.300	0.001	96	46511	5.00	5.12	
58 Isobutyl alcohol	43	3.404	3.397	0.007	38	53599	125.0	122.5	
59 Benzene	78	3.428	3.428	0.000	96	142319	5.00	5.10	
60 t-Amyl alcohol	59	3.441	3.440	0.001	48	20936	50.0	47.6	
61 Tert-amyl methyl ether	73	3.471	3.470	0.001	99	107013	5.00	4.95	
62 1,2-Dichloroethane	62	3.483	3.482	0.001	96	44119	5.00	5.16	
63 n-Heptane	43	3.526	3.525	0.001	90	58481	5.00	4.97	
64 n-Butanol	56	3.842	3.835	0.007	69	14376	125.0	108.3	
65 Trichloroethene	130	3.854	3.853	0.001	97	34653	5.00	4.83	
66 Ethyl acrylate	55	3.939	3.933	0.007	95	93039	5.00	5.00	
67 Methylcyclohexane	83	3.939	3.939	0.000	87	65916	5.00	4.96	
68 1,2-Dichloropropane	63	4.043	4.036	0.007	88	36436	5.00	5.10	
69 Methyl methacrylate	41	4.092	4.085	0.007	90	81608	10.0	9.71	
70 Dibromomethane	93	4.128	4.127	0.001	94	18607	5.00	4.96	
71 1,4-Dioxane	88	4.140	4.133	0.007	34	5194	100.0	82.7	
73 Dichlorobromomethane	83	4.225	4.225	0.000	99	37606	5.00	4.89	
75 2-Chloroethyl vinyl ether	63	4.450	4.444	0.006	83	19560	5.00	4.83	
74 2-Nitropropane	43	4.450	4.444	0.006	77	29126	10.0	8.54	
76 cis-1,3-Dichloropropene	75	4.560	4.559	0.001	95	50667	5.00	4.74	
77 4-Methyl-2-pentanone (MIBK)	58	4.669	4.669	0.000	97	52998	25.0	22.7	
78 Toluene	91	4.779	4.778	0.001	93	151242	5.00	5.22	
79 trans-1,3-Dichloropropene	75	5.010	5.009	0.001	99	41689	5.00	4.63	
80 Ethyl methacrylate	69	5.034	5.028	0.006	90	41577	5.00	5.01	
81 1,1,2-Trichloroethane	97	5.156	5.149	0.007	94	27528	5.00	5.03	
82 Tetrachloroethene	166	5.199	5.198	0.001	98	38302	5.00	5.08	
83 1,3-Dichloropropane	76	5.296	5.295	0.001	93	48135	5.00	5.10	
84 2-Hexanone	58	5.345	5.338	0.007	96	45187	25.0	23.8	
85 n-Butyl acetate	43	5.418	5.411	0.007	98	40891	5.00	4.40	
86 Chlorodibromomethane	127	5.460	5.453	0.007	98	18763	5.00	4.42	
87 Ethylene Dibromide	107	5.564	5.563	0.001	98	24653	5.00	4.78	
88 1-Chlorohexane	91	5.917	5.916	0.001	92	44741	5.00	4.66	
89 Chlorobenzene	112	5.959	5.958	0.001	96	93313	5.00	5.17	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
90 Ethylbenzene	91	6.026	6.025	0.001	99	153666	5.00	5.04	
91 1,1,1,2-Tetrachloroethane	131	6.038	6.037	0.001	94	29391	5.00	4.77	
92 m-Xylene & p-Xylene	91	6.136	6.129	0.007	0	118104	5.00	5.02	
93 o-Xylene	91	6.494	6.488	0.006	93	120636	5.00	5.08	
94 Styrene	104	6.519	6.518	0.001	96	97547	5.00	4.92	
95 Bromoform	173	6.707	6.707	0.000	97	14733	5.00	4.67	
96 Isopropylbenzene	105	6.817	6.810	0.007	96	153997	5.00	5.15	
97 Cyclohexanone	55	6.975	6.974	0.001	91	7810	50.0	44.4	
98 Bromobenzene	77	7.133	7.132	0.001	96	56711	5.00	5.09	
99 1,1,2,2-Tetrachloroethane	83	7.176	7.169	0.007	97	29087	5.00	4.87	
100 N-Propylbenzene	91	7.200	7.199	0.001	99	184427	5.00	5.18	
101 1,2,3-Trichloropropane	110	7.212	7.212	0.000	94	9701	5.00	4.98	
102 trans-1,4-Dichloro-2-buten	53	7.243	7.230	0.013	64	7380	5.00	4.30	
103 2-Chlorotoluene	91	7.310	7.303	0.007	97	123261	5.00	5.15	
104 4-Ethyltoluene	105	7.316	7.309	0.007	98	153003	NC	NC	
105 1,3,5-Trimethylbenzene	105	7.377	7.376	0.001	87	144993	5.00	5.33	
106 4-Chlorotoluene	91	7.419	7.418	0.001	96	110326	5.00	5.00	
107 tert-Butylbenzene	119	7.669	7.668	0.001	95	111951	5.00	5.02	
108 1,2,4-Trimethylbenzene	105	7.742	7.735	0.007	97	127816	5.00	5.14	
110 sec-Butylbenzene	105	7.881	7.881	0.000	99	170797	5.00	5.17	
112 4-Isopropyltoluene	119	8.028	8.027	0.001	98	145232	5.00	5.22	
111 1,3-Dichlorobenzene	146	8.034	8.027	0.007	96	72769	5.00	5.23	
113 Dicyclopentadiene	66	8.076	8.081	-0.005	96	174470	NC	NC	
114 1,4-Dichlorobenzene	146	8.125	8.124	0.001	96	71326	5.00	5.02	
115 1,2,3-Trimethylbenzene	105	8.149	8.142	0.007	97	133338	5.00	5.25	
116 Benzyl chloride	91	8.265	8.264	0.001	98	42354	5.00	4.19	
117 n-Butylbenzene	91	8.429	8.428	0.001	98	119742	5.00	5.00	
118 1,2-Dichlorobenzene	146	8.490	8.483	0.007	97	65175	5.00	5.22	
119 1,2-Dibromo-3-Chloropropan	157	9.281	9.274	0.007	90	4005	5.00	4.03	
120 1,3,5-Trichlorobenzene	180	9.439	9.432	0.007	96	42758	5.00	4.82	
121 1,2,4-Trichlorobenzene	180	10.157	10.150	0.007	93	27243	5.00	4.55	
122 Hexachlorobutadiene	225	10.303	10.302	0.001	96	20049	5.00	4.87	
123 Naphthalene	128	10.461	10.454	0.007	99	45757	5.00	4.36	
124 1,2,3-Trichlorobenzene	180	10.759	10.752	0.007	96	19828	5.00	4.63	
125 2-Methylnaphthalene	142	11.720	11.701	0.019	84	7324	5.00	3.13	
126 1-Methylnaphthalene	142	11.891	11.884	0.006	91	6175	5.00	3.61	
S 148 Xylenes, Total	1				0			10.1	
S 149 1,2-Dichloroethene, Total	1				0			10.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

V1_gases_I_00184

Amount Added: 5.00

Units: uL

V1_Mega_I_00057

Amount Added: 5.00

Units: uL

VOA_ISSS150_W_00014

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20161109-82377.b\\11081611.D

Injection Date: 09-Nov-2016 00:41:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: std005

Worklist Smp#: 5

Client ID:

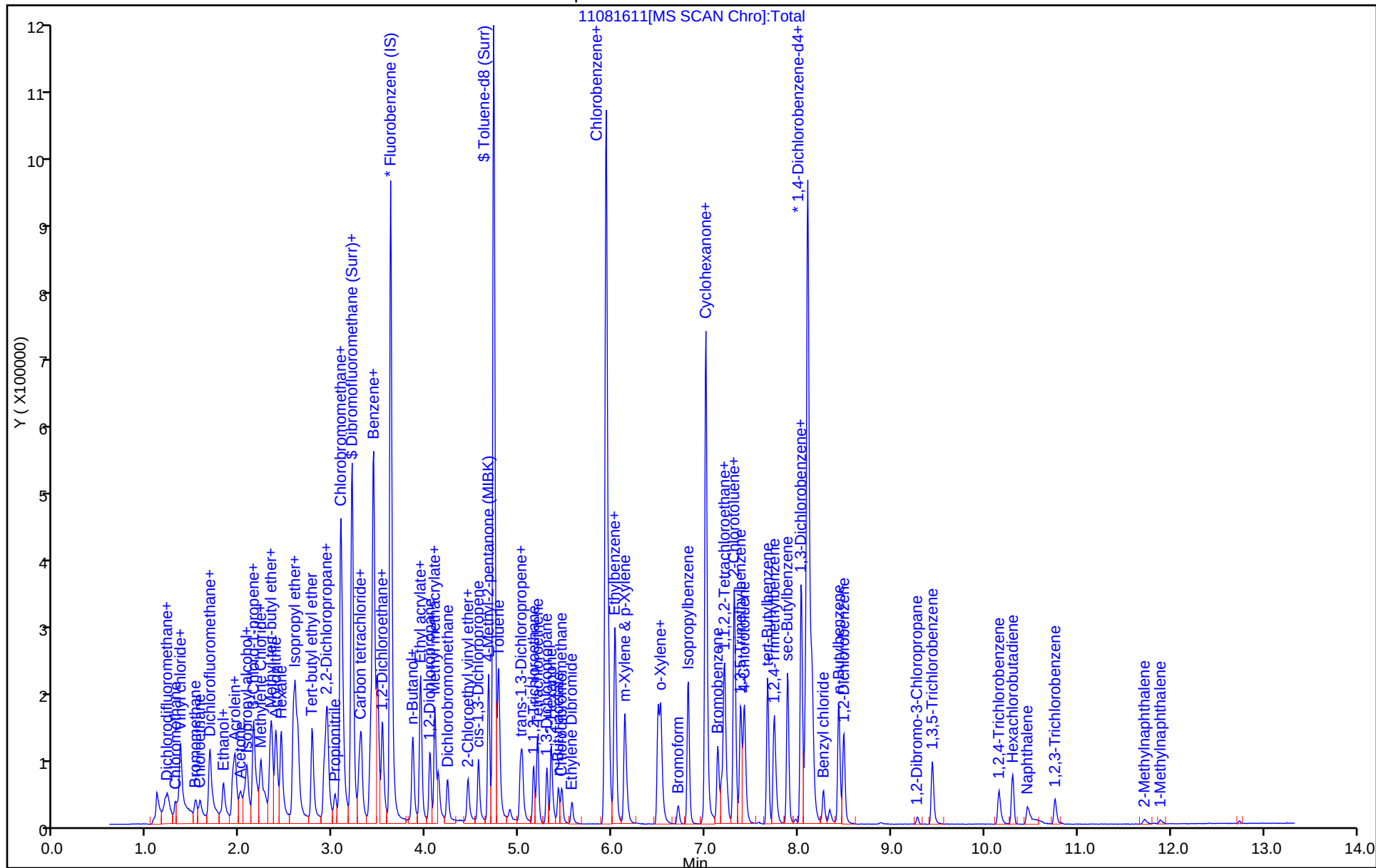
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 11

Method: 8260HP33

Limit Group: MSV 8260C ICAL



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081612.D
 Lims ID: std010
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 09-Nov-2016 01:08:30 ALS Bottle#: 12 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD010
 Operator ID: JJR Instrument ID: HP33
 Sublist: chrom-8260HP33*sub22
 Method: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 12-Nov-2016 12:38:52 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: redmondj

Date: 09-Nov-2016 12:10:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.617	3.617	0.000	98	767018	30.0	30.0	
* 2 Chlorobenzene-d5	117	5.935	5.935	0.000	87	567312	30.0	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.100	8.101	-0.001	95	276184	30.0	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.203	3.203	0.000	98	192351	30.0	29.9	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.434	3.435	-0.001	0	211465	30.0	29.6	
\$ 7 Toluene-d8 (Surr)	98	4.724	4.724	0.000	99	769631	30.0	30.7	
\$ 8 4-Bromofluorobenzene (Surr	95	7.005	7.006	-0.001	94	256572	30.0	29.6	
11 Propene	41	1.189	1.183	0.006	37	13174	NC	NC	
12 Dichlorodifluoromethane	85	1.202	1.201	0.001	99	38063	10.0	9.80	
13 Chloromethane	50	1.305	1.304	0.001	100	59851	10.0	8.73	
14 Vinyl chloride	62	1.348	1.347	0.001	98	76103	10.0	10.0	
15 Butadiene	54	1.360	1.359	0.001	97	77478	10.0	10.1	
16 Bromomethane	96	1.524	1.517	0.007	99	34195	10.0	10.2	
17 Chloroethane	64	1.567	1.566	0.001	99	51829	10.0	10.5	
18 Dichlorofluoromethane	67	1.670	1.669	0.001	99	119241	10.0	10.4	
19 Trichlorofluoromethane	101	1.676	1.669	0.007	99	88214	10.0	10.1	
20 Ethanol	46	1.816	1.809	0.007	81	10950	400.0	374.2	
21 Ethyl ether	59	1.822	1.815	0.007	91	58631	10.0	10.3	
22 1,1,2-Trichloro-1,2,2-trif	101	1.920	1.919	0.001	97	59162	10.0	9.74	
23 Acrolein	56	1.932	1.925	0.007	33	6021	25.0	21.1	
24 1,1-Dichloroethene	96	1.950	1.943	0.007	96	56851	10.0	10.1	
25 Acetone	58	2.005	2.004	0.001	87	26924	50.0	48.5	
26 Iodomethane	142	2.047	2.047	0.000	98	66938	10.0	9.60	
27 Isopropyl alcohol	45	2.072	2.065	0.007	29	28943	100.0	93.4	
28 Carbon disulfide	76	2.072	2.071	0.001	99	174181	10.0	9.85	
30 3-Chloro-1-propene	76	2.139	2.132	0.006	90	56782	10.0	9.14	
31 Methyl acetate	43	2.151	2.144	0.007	99	217470	50.0	48.0	
32 Acetonitrile	41	2.181	2.180	0.001	73	86504	NC	NC	M
33 Methylene Chloride	84	2.224	2.217	0.007	94	70739	10.0	9.67	
34 2-Methyl-2-propanol	59	2.266	2.266	0.000	99	44206	100.0	90.1	
35 Methyl tert-butyl ether	73	2.321	2.320	0.001	98	182861	10.0	10.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 trans-1,2-Dichloroethene	61	2.339	2.333	0.006	96	93602	10.0	10.3	
37 Acrylonitrile	53	2.382	2.381	0.001	94	231648	100.0	106.8	
38 Hexane	57	2.443	2.436	0.007	93	106083	10.0	9.69	
39 Isopropyl ether	45	2.570	2.570	0.000	94	235680	10.0	10.0	
40 1,1-Dichloroethane	63	2.589	2.582	0.007	99	122007	10.0	10.2	
41 Vinyl acetate	86	2.595	2.588	0.007	100	29484	20.0	19.2	
42 2-Chloro-1,3-butadiene	53	2.619	2.618	0.001	92	105735	10.0	9.72	
43 Tert-butyl ethyl ether	59	2.771	2.771	0.000	89	214249	10.0	10.3	
44 2,2-Dichloropropane	77	2.905	2.904	0.001	96	91931	10.0	10.0	
45 cis-1,2-Dichloroethene	96	2.923	2.923	0.000	94	73618	10.0	10.4	
46 Ethyl acetate	70	2.942	2.935	0.007	95	13338	20.0	19.1	
47 2-Butanone (MEK)	72	2.935	2.935	0.000	96	32666	50.0	48.2	
48 Propionitrile	54	3.021	3.014	0.007	99	80132	100.0	96.2	
49 Chlorobromomethane	130	3.069	3.069	0.000	82	42724	10.0	10.5	
50 Methacrylonitrile	41	3.081	3.075	0.006	94	397587	100.0	103.0	
51 Tetrahydrofuran	42	3.081	3.081	0.000	31	46538	20.0	19.5	
52 Chloroform	83	3.100	3.099	0.001	99	111440	10.0	10.2	
53 Cyclohexane	56	3.197	3.190	0.007	94	123133	10.0	9.63	
54 1,1,1-Trichloroethane	97	3.197	3.196	0.001	92	92135	10.0	9.96	
56 Carbon tetrachloride	117	3.282	3.282	0.000	97	75828	10.0	9.85	
57 1,1-Dichloropropene	75	3.300	3.300	0.000	96	87952	10.0	9.93	
58 Isobutyl alcohol	43	3.404	3.397	0.007	57	104599	250.0	245.0	
59 Benzene	78	3.428	3.428	0.000	97	277072	10.0	10.2	
60 t-Amyl alcohol	59	3.440	3.440	0.000	48	42408	100.0	98.9	
61 Tert-amyl methyl ether	73	3.471	3.470	0.001	99	211137	10.0	10.0	
62 1,2-Dichloroethane	62	3.483	3.482	0.001	97	85210	10.0	10.2	
63 n-Heptane	43	3.526	3.525	0.001	91	114557	10.0	9.97	
64 n-Butanol	56	3.842	3.835	0.007	73	29295	250.0	226.2	
65 Trichloroethene	130	3.854	3.853	0.001	97	69551	10.0	9.94	
66 Ethyl acrylate	55	3.933	3.933	0.001	97	178180	10.0	9.82	
67 Methylcyclohexane	83	3.939	3.939	0.000	87	125232	10.0	9.67	
68 1,2-Dichloropropane	63	4.043	4.036	0.007	89	70211	10.0	10.1	
69 Methyl methacrylate	41	4.091	4.085	0.006	90	132847	20.0	18.5	
70 Dibromomethane	93	4.128	4.127	0.001	94	36351	10.0	9.94	
71 1,4-Dioxane	88	4.140	4.133	0.007	33	9798	200.0	160.0	
73 Dichlorobromomethane	83	4.225	4.225	0.000	99	76978	10.0	10.3	
75 2-Chloroethyl vinyl ether	63	4.450	4.444	0.006	97	39504	10.0	9.99	
74 2-Nitropropane	43	4.444	4.444	0.000	97	57052	20.0	17.2	
76 cis-1,3-Dichloropropene	75	4.560	4.559	0.001	95	103979	10.0	9.97	
77 4-Methyl-2-pentanone (MIBK)	58	4.669	4.669	0.000	97	108776	50.0	47.7	
78 Toluene	91	4.779	4.778	0.001	94	288870	10.0	10.2	
79 trans-1,3-Dichloropropene	75	5.010	5.009	0.001	99	84599	10.0	9.61	
80 Ethyl methacrylate	69	5.028	5.028	0.000	90	83144	10.0	10.3	
81 1,1,2-Trichloroethane	97	5.156	5.149	0.007	95	53515	10.0	10.0	
82 Tetrachloroethene	166	5.198	5.198	0.000	98	74685	10.0	10.1	
83 1,3-Dichloropropane	76	5.296	5.295	0.001	93	93838	10.0	10.2	
84 2-Hexanone	58	5.338	5.338	0.000	96	91109	50.0	49.1	
85 n-Butyl acetate	43	5.417	5.411	0.006	98	92257	10.0	10.2	
86 Chlorodibromomethane	127	5.460	5.453	0.007	98	39765	10.0	9.59	
87 Ethylene Dibromide	107	5.564	5.563	0.001	97	50117	10.0	9.94	
88 1-Chlorohexane	91	5.916	5.916	0.000	90	86808	10.0	9.26	
89 Chlorobenzene	112	5.959	5.958	0.001	95	183435	10.0	10.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
90 Ethylbenzene	91	6.026	6.025	0.001	98	302494	10.0	10.2	
91 1,1,1,2-Tetrachloroethane	131	6.038	6.037	0.001	94	60134	10.0	10.0	
92 m-Xylene & p-Xylene	91	6.135	6.129	0.006	0	230881	10.0	10.0	
93 o-Xylene	91	6.494	6.488	0.006	94	240091	10.0	10.4	
94 Styrene	104	6.519	6.518	0.001	96	196515	10.0	10.1	
95 Bromoform	173	6.707	6.707	0.000	97	30651	10.0	9.59	
96 Isopropylbenzene	105	6.817	6.810	0.007	96	309365	10.0	10.6	
97 Cyclohexanone	55	6.975	6.974	0.001	95	14850	100.0	86.6	
98 Bromobenzene	77	7.133	7.132	0.001	95	111886	10.0	10.1	
99 1,1,2,2-Tetrachloroethane	83	7.176	7.169	0.007	97	58449	10.0	9.84	
100 N-Propylbenzene	91	7.200	7.199	0.001	99	367402	10.0	10.4	
101 1,2,3-Trichloropropane	110	7.212	7.212	0.000	97	19358	10.0	9.98	
102 trans-1,4-Dichloro-2-buten	53	7.236	7.230	0.006	69	14790	10.0	8.66	
103 2-Chlorotoluene	91	7.303	7.303	0.000	97	234874	10.0	9.86	
104 4-Ethyltoluene	105	7.316	7.309	0.007	98	307099	NC	NC	
105 1,3,5-Trimethylbenzene	105	7.376	7.376	0.000	94	283409	10.0	10.5	
106 4-Chlorotoluene	91	7.419	7.418	0.001	97	233511	10.0	10.6	
107 tert-Butylbenzene	119	7.668	7.668	0.000	96	229260	10.0	10.3	
108 1,2,4-Trimethylbenzene	105	7.735	7.735	0.000	97	258009	10.0	10.4	
110 sec-Butylbenzene	105	7.881	7.881	0.000	99	343088	10.0	10.4	
112 4-Isopropyltoluene	119	8.027	8.027	0.000	98	291932	10.0	10.5	
111 1,3-Dichlorobenzene	146	8.027	8.027	0.000	70	142590	10.0	10.3	
113 Dicyclopentadiene	66	8.076	8.081	-0.005	96	331281	NC	NC	
114 1,4-Dichlorobenzene	146	8.125	8.124	0.001	95	141368	10.0	10.0	
115 1,2,3-Trimethylbenzene	105	8.149	8.142	0.007	97	263141	10.0	10.4	
116 Benzyl chloride	91	8.265	8.264	0.001	98	90361	10.0	9.15	
117 n-Butylbenzene	91	8.429	8.428	0.001	98	246694	10.0	10.4	
118 1,2-Dichlorobenzene	146	8.490	8.483	0.007	97	131436	10.0	10.6	
119 1,2-Dibromo-3-Chloropropan	157	9.281	9.274	0.006	90	8204	10.0	8.29	
120 1,3,5-Trichlorobenzene	180	9.439	9.432	0.007	98	88559	10.0	10.0	
121 1,2,4-Trichlorobenzene	180	10.150	10.150	0.000	94	58895	10.0	9.50	
122 Hexachlorobutadiene	225	10.303	10.302	0.001	96	39462	10.0	9.63	
123 Naphthalene	128	10.461	10.454	0.007	99	100417	10.0	9.61	
124 1,2,3-Trichlorobenzene	180	10.759	10.752	0.007	94	42348	10.0	9.93	
125 2-Methylnaphthalene	142	11.708	11.701	0.007	85	18335	10.0	7.87	
126 1-Methylnaphthalene	142	11.884	11.884	0.000	91	14774	10.0	8.69	
S 148 Xylenes, Total	1				0			20.4	
S 149 1,2-Dichloroethene, Total	1				0			20.7	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

V1_Mega_I_00057

Amount Added: 10.00

Units: uL

V1_gases_I_00184

Amount Added: 10.00

Units: uL

VOA_ISSS150_W_00014

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20161109-82377.b\\11081612.D

Injection Date: 09-Nov-2016 01:08:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: std010

Worklist Smp#: 6

Client ID:

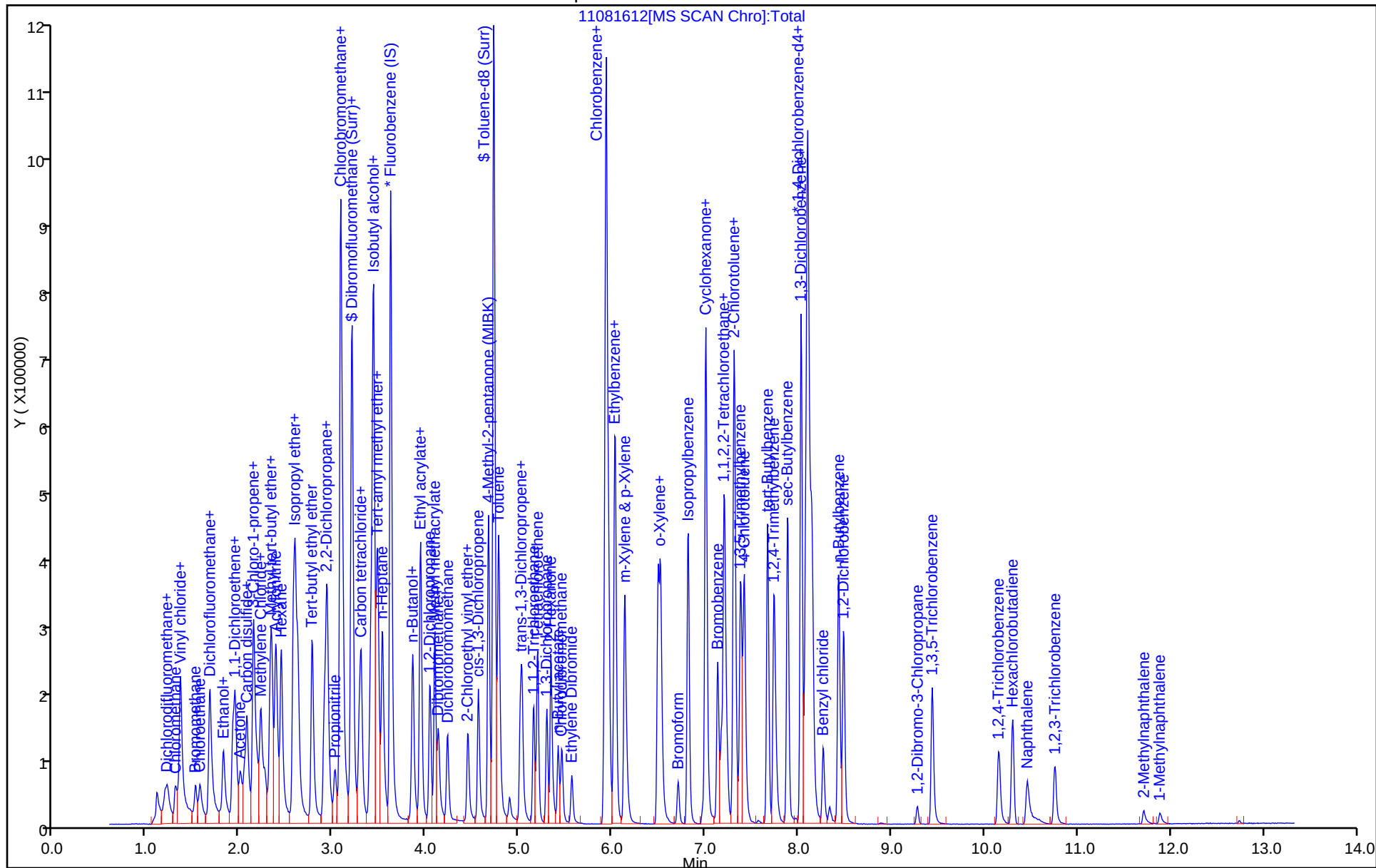
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 12

Method: 8260HP33

Limit Group: MSV 8260C ICAL



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081613.D
 Lims ID: icis
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 09-Nov-2016 01:35:30 ALS Bottle#: 13 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICIS
 Operator ID: JJR Instrument ID: HP33
 Sublist: chrom-8260HP33*sub22
 Method: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 12-Nov-2016 12:38:58 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: redmondj Date: 09-Nov-2016 11:42:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.617	3.617	0.000	98	784892	30.0	30.0	
* 2 Chlorobenzene-d5	117	5.935	5.935	0.000	89	589353	30.0	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.101	8.101	0.000	94	290608	30.0	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.203	3.203	0.000	97	197943	30.0	30.1	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.435	3.435	0.000	0	221899	30.0	30.4	
\$ 7 Toluene-d8 (Surr)	98	4.724	4.724	0.000	99	781120	30.0	30.0	
\$ 8 4-Bromofluorobenzene (Surr	95	7.006	7.006	0.000	94	271751	30.0	29.8	
11 Propene	41	1.184	1.184	0.000	93	28187	NC	NC	
12 Dichlorodifluoromethane	85	1.202	1.202	0.000	100	84040	20.0	21.2	
13 Chloromethane	50	1.305	1.305	0.000	99	126676	20.0	18.0	
14 Vinyl chloride	62	1.348	1.348	0.000	99	163816	20.0	21.1	
15 Butadiene	54	1.360	1.360	0.000	97	172076	20.0	21.9	
16 Bromomethane	96	1.518	1.518	0.000	99	66258	20.0	19.9	
17 Chloroethane	64	1.567	1.567	0.000	99	106343	20.0	21.0	
18 Dichlorofluoromethane	67	1.670	1.670	0.000	99	247211	20.0	21.1	
19 Trichlorofluoromethane	101	1.670	1.670	0.000	99	192321	20.0	21.6	
20 Ethanol	46	1.810	1.810	0.000	83	21863	800.0	751.7	
21 Ethyl ether	59	1.816	1.816	0.000	90	119971	20.0	20.6	
22 1,1,2-Trichloro-1,2,2-trif	101	1.920	1.920	0.000	98	128756	20.0	20.7	
23 Acrolein	56	1.932	1.932	0.000	94	14676	50.0	50.3	
24 1,1-Dichloroethene	96	1.944	1.944	0.000	98	123345	20.0	21.5	
25 Acetone	58	2.005	2.005	0.000	87	55821	100.0	98.2	
26 Iodomethane	142	2.048	2.048	0.000	98	152108	20.0	21.3	
27 Isopropyl alcohol	45	2.060	2.060	0.000	97	56704	200.0	178.8	
28 Carbon disulfide	76	2.072	2.072	0.000	99	364790	20.0	20.1	
30 3-Chloro-1-propene	76	2.139	2.139	0.000	90	137151	20.0	21.6	
31 Methyl acetate	43	2.145	2.145	0.000	99	468728	100.0	101.1	
32 Acetonitrile	41	2.181	2.181	0.000	72	184399	NC	NC	M
33 Methylene Chloride	84	2.224	2.224	0.000	94	143774	20.0	19.2	
34 2-Methyl-2-propanol	59	2.261	2.261	0.000	98	95807	200.0	190.9	
35 Methyl tert-butyl ether	73	2.321	2.321	0.000	97	378285	20.0	20.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 trans-1,2-Dichloroethene	61	2.340	2.340	0.000	97	200126	20.0	21.6	
37 Acrylonitrile	53	2.382	2.382	0.000	95	476325	200.0	214.5	
38 Hexane	57	2.437	2.437	0.000	94	237650	20.0	21.2	
39 Isopropyl ether	45	2.571	2.571	0.000	93	494470	20.0	20.6	
40 1,1-Dichloroethane	63	2.583	2.583	0.000	99	256533	20.0	21.1	
41 Vinyl acetate	86	2.595	2.595	0.000	100	62659	40.0	39.2	
42 2-Chloro-1,3-butadiene	53	2.619	2.619	0.000	91	230385	20.0	20.7	
43 Tert-butyl ethyl ether	59	2.772	2.772	0.000	89	441218	20.0	20.7	
44 2,2-Dichloropropane	77	2.905	2.905	0.000	97	197889	20.0	21.1	
45 cis-1,2-Dichloroethene	96	2.924	2.924	0.000	95	154566	20.0	21.3	
46 Ethyl acetate	70	2.936	2.936	0.000	97	29546	40.0	41.4	
47 2-Butanone (MEK)	72	2.936	2.936	0.000	96	70090	100.0	101.0	
48 Propionitrile	54	3.015	3.015	0.000	99	176305	200.0	206.8	
49 Chlorobromomethane	130	3.070	3.070	0.000	93	91623	20.0	22.1	
50 Methacrylonitrile	41	3.076	3.076	0.000	93	832051	200.0	210.6	
51 Tetrahydrofuran	42	3.082	3.082	0.000	94	97541	40.0	40.0	
52 Chloroform	83	3.100	3.100	0.000	98	235691	20.0	21.1	
53 Cyclohexane	56	3.191	3.191	0.000	93	282618	20.0	21.6	
54 1,1,1-Trichloroethane	97	3.197	3.197	0.000	96	203023	20.0	21.5	
56 Carbon tetrachloride	117	3.276	3.276	0.000	98	165924	20.0	21.1	
57 1,1-Dichloropropene	75	3.301	3.301	0.000	96	190870	20.0	21.1	
58 Isobutyl alcohol	43	3.398	3.398	0.000	51	231111	500.0	529.0	
59 Benzene	78	3.429	3.429	0.000	97	583967	20.0	21.0	
60 t-Amyl alcohol	59	3.441	3.441	0.000	49	88274	200.0	201.3	
61 Tert-amyl methyl ether	73	3.471	3.471	0.000	99	449773	20.0	20.9	
62 1,2-Dichloroethane	62	3.483	3.483	0.000	97	178214	20.0	20.9	
63 n-Heptane	43	3.526	3.526	0.000	92	244763	20.0	20.8	
64 n-Butanol	56	3.836	3.836	0.000	90	67167	500.0	506.8	
65 Trichloroethene	130	3.854	3.854	0.000	98	146769	20.0	20.5	
66 Ethyl acrylate	55	3.934	3.934	0.000	98	393667	20.0	21.2	
67 Methylcyclohexane	83	3.940	3.940	0.000	89	284267	20.0	21.4	
68 1,2-Dichloropropane	63	4.037	4.037	0.000	91	149326	20.0	21.0	
69 Methyl methacrylate	41	4.092	4.092	0.000	89	260242	40.0	38.7	
70 Dibromomethane	93	4.128	4.128	0.000	94	76515	20.0	20.4	
71 1,4-Dioxane	88	4.134	4.134	0.000	35	23466	400.0	374.4	
73 Dichlorobromomethane	83	4.226	4.226	0.000	99	165400	20.0	21.5	
75 2-Chloroethyl vinyl ether	63	4.445	4.445	0.000	98	83497	20.0	20.3	
74 2-Nitropropane	43	4.445	4.445	0.000	96	127327	40.0	37.4	
76 cis-1,3-Dichloropropene	75	4.560	4.560	0.000	94	222150	20.0	20.5	
77 4-Methyl-2-pentanone (MIBK)	58	4.664	4.664	0.000	97	250078	100.0	105.6	
78 Toluene	91	4.779	4.779	0.000	94	616265	20.0	21.0	
79 trans-1,3-Dichloropropene	75	5.010	5.010	0.000	98	188985	20.0	20.7	
80 Ethyl methacrylate	69	5.029	5.029	0.000	88	175198	20.0	20.8	
81 1,1,2-Trichloroethane	97	5.150	5.150	0.000	95	113182	20.0	20.4	
82 Tetrachloroethene	166	5.193	5.193	0.000	98	162756	20.0	21.3	
83 1,3-Dichloropropane	76	5.296	5.296	0.000	94	200189	20.0	20.9	
84 2-Hexanone	58	5.339	5.339	0.000	96	193744	100.0	100.6	
85 n-Butyl acetate	43	5.412	5.412	0.000	98	176567	20.0	19.0	
86 Chlorodibromomethane	127	5.454	5.454	0.000	99	88302	20.0	20.5	
87 Ethylene Dibromide	107	5.564	5.564	0.000	98	108922	20.0	20.8	
88 1-Chlorohexane	91	5.917	5.917	0.000	89	198165	20.0	20.7	
89 Chlorobenzene	112	5.959	5.959	0.000	97	386875	20.0	21.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
90 Ethylbenzene	91	6.026	6.026	0.000	98	670816	20.0	21.7	
91 1,1,1,2-Tetrachloroethane	131	6.032	6.032	0.000	94	132679	20.0	21.2	
92 m-Xylene & p-Xylene	91	6.130	6.130	0.000	0	517321	20.0	21.7	
93 o-Xylene	91	6.489	6.489	0.000	94	526252	20.0	21.8	
94 Styrene	104	6.519	6.519	0.000	96	431447	20.0	21.4	
95 Bromoform	173	6.708	6.708	0.000	98	70859	20.0	21.0	
96 Isopropylbenzene	105	6.811	6.811	0.000	96	687590	20.0	22.7	
97 Cyclohexanone	55	6.975	6.975	0.000	95	33296	200.0	189.8	
98 Bromobenzene	77	7.127	7.127	0.000	98	243631	20.0	20.9	
99 1,1,2,2-Tetrachloroethane	83	7.170	7.170	0.000	98	126555	20.0	20.3	
100 N-Propylbenzene	91	7.200	7.200	0.000	99	815603	20.0	21.9	
101 1,2,3-Trichloropropane	110	7.213	7.213	0.000	97	40461	20.0	19.8	
102 trans-1,4-Dichloro-2-buten	53	7.231	7.231	0.000	69	34332	20.0	19.1	
103 2-Chlorotoluene	91	7.304	7.304	0.000	97	511623	20.0	20.4	
104 4-Ethyltoluene	105	7.310	7.310	0.000	98	681420	NC	NC	
105 1,3,5-Trimethylbenzene	105	7.377	7.377	0.000	94	584827	20.0	20.5	
106 4-Chlorotoluene	91	7.413	7.413	0.000	96	501819	20.0	21.7	
107 tert-Butylbenzene	119	7.669	7.669	0.000	96	506340	20.0	21.7	
108 1,2,4-Trimethylbenzene	105	7.736	7.736	0.000	97	563413	20.0	21.6	
110 sec-Butylbenzene	105	7.882	7.882	0.000	99	758264	20.0	21.9	
112 4-Isopropyltoluene	119	8.028	8.028	0.000	98	654625	20.0	22.5	
111 1,3-Dichlorobenzene	146	8.028	8.028	0.000	72	307270	20.0	21.1	
113 Dicyclopentadiene	66	8.076	8.076	0.000	96	752189	NC	NC	
114 1,4-Dichlorobenzene	146	8.125	8.125	0.000	95	302459	20.0	20.3	
115 1,2,3-Trimethylbenzene	105	8.143	8.143	0.000	98	561363	20.0	21.1	
116 Benzyl chloride	91	8.265	8.265	0.000	99	206480	20.0	20.1	
117 n-Butylbenzene	91	8.429	8.429	0.000	98	553388	20.0	22.1	
118 1,2-Dichlorobenzene	146	8.484	8.484	0.000	97	277515	20.0	21.2	
119 1,2-Dibromo-3-Chloropropan	157	9.275	9.275	0.000	93	19376	20.0	18.6	
120 1,3,5-Trichlorobenzene	180	9.433	9.433	0.000	98	194409	20.0	20.9	
121 1,2,4-Trichlorobenzene	180	10.151	10.151	0.000	94	130754	20.0	19.7	
122 Hexachlorobutadiene	225	10.303	10.303	0.000	96	90479	20.0	21.0	
123 Naphthalene	128	10.455	10.455	0.000	99	227992	20.0	20.7	
124 1,2,3-Trichlorobenzene	180	10.753	10.753	0.000	95	95877	20.0	21.4	
125 2-Methylnaphthalene	142	11.708	11.708	0.000	87	44972	20.0	18.3	
126 1-Methylnaphthalene	142	11.885	11.885	0.000	93	36182	20.0	20.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

V1_gases_I_00184

Amount Added: 20.00

Units: uL

V1_Mega_I_00057

Amount Added: 20.00

Units: uL

VOA_ISSS150_W_00014

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20161109-82377.b\\11081613.D

Injection Date: 09-Nov-2016 01:35:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: ics

Worklist Smp#: 7

Client ID:

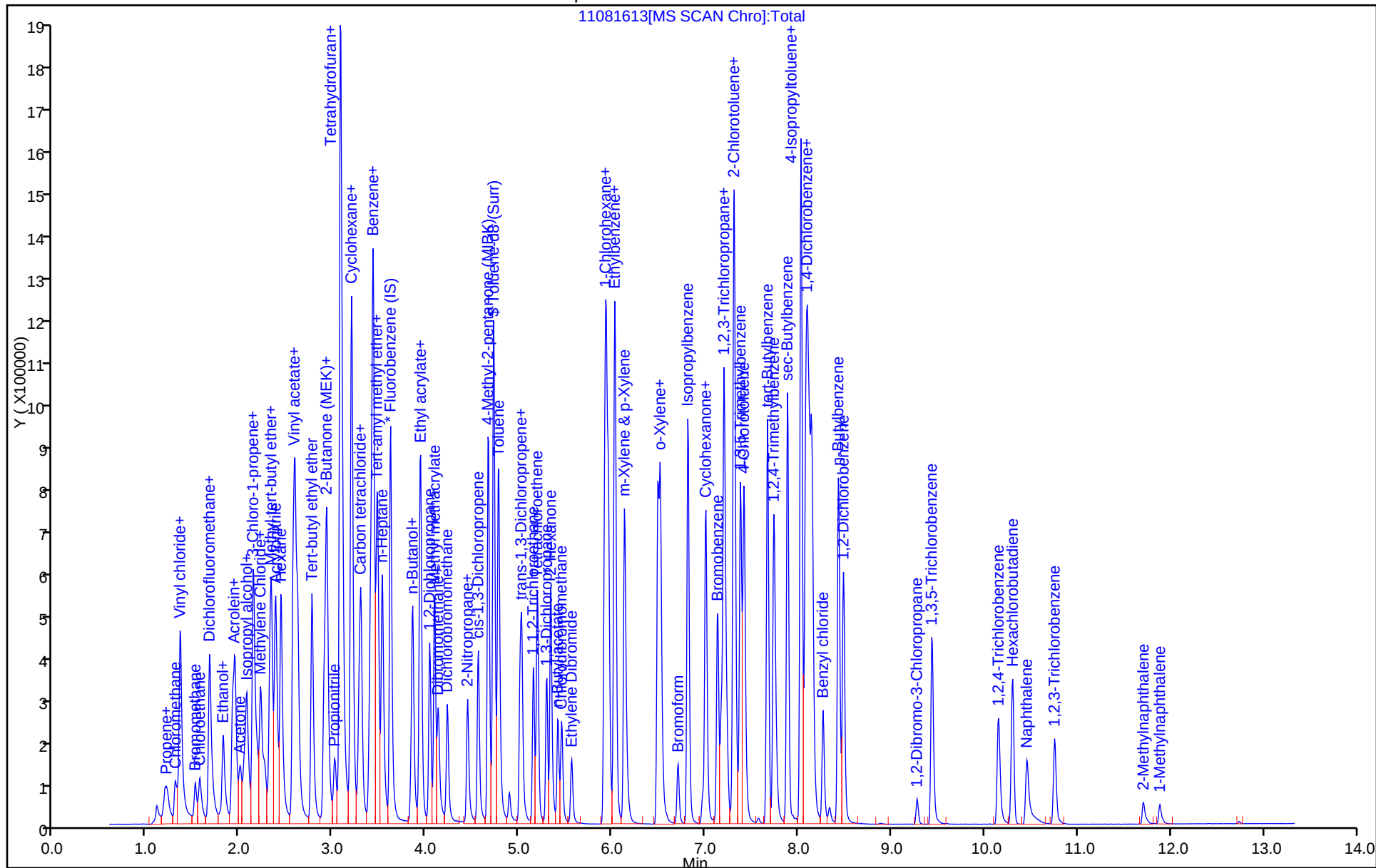
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 13

Method: 8260HP33

Limit Group: MSV 8260C ICAL



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081614.D
 Lims ID: std050
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 09-Nov-2016 02:02:30 ALS Bottle#: 14 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD050
 Operator ID: JJR Instrument ID: HP33
 Sublist: chrom-8260HP33*sub22
 Method: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 12-Nov-2016 12:39:04 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: redmondj

Date: 09-Nov-2016 12:17:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.616	3.616	0.000	98	801800	30.0	30.0	
* 2 Chlorobenzene-d5	117	5.934	5.934	0.000	85	611459	30.0	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.100	8.100	0.000	95	296842	30.0	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.203	3.203	0.000	98	203703	30.0	30.3	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.434	3.434	0.000	0	247175	30.0	33.1	
\$ 7 Toluene-d8 (Surr)	98	4.723	4.723	0.000	99	796411	30.0	29.4	
\$ 8 4-Bromofluorobenzene (Surr	95	7.005	7.005	0.000	94	280831	30.0	30.1	
11 Propene	41	1.183	1.183	0.000	98	70819	NC	NC	
12 Dichlorodifluoromethane	85	1.201	1.201	0.000	100	209564	50.0	51.6	
13 Chloromethane	50	1.304	1.304	0.000	100	310760	50.0	43.3	
14 Vinyl chloride	62	1.347	1.347	0.000	98	421032	50.0	53.0	
15 Butadiene	54	1.359	1.359	0.000	97	437001	50.0	54.3	
16 Bromomethane	96	1.517	1.517	0.000	99	160047	50.0	48.0	
17 Chloroethane	64	1.566	1.566	0.000	99	265120	50.0	51.3	
18 Dichlorofluoromethane	67	1.669	1.669	0.000	99	634519	50.0	53.0	
19 Trichlorofluoromethane	101	1.669	1.669	0.000	99	488606	50.0	53.7	
20 Ethanol	46	1.809	1.809	0.000	87	61077	2000.0	2095.0	
21 Ethyl ether	59	1.815	1.815	0.000	92	309589	50.0	52.0	
22 1,1,2-Trichloro-1,2,2-trif	101	1.919	1.919	0.000	98	324626	50.0	51.1	
23 Acrolein	56	1.925	1.925	0.000	96	43274	125.0	145.1	
24 1,1-Dichloroethene	96	1.943	1.943	0.000	97	313173	50.0	53.4	
25 Acetone	58	2.004	2.004	0.000	87	136168	250.0	234.5	
26 Iodomethane	142	2.047	2.047	0.000	97	408092	50.0	56.0	
27 Isopropyl alcohol	45	2.065	2.065	0.000	30	155335	500.0	479.4	
28 Carbon disulfide	76	2.071	2.071	0.000	99	919694	50.0	49.7	
30 3-Chloro-1-propene	76	2.132	2.132	0.000	90	352154	50.0	54.2	
31 Methyl acetate	43	2.144	2.144	0.000	99	1194704	250.0	252.2	
32 Acetonitrile	41	2.180	2.180	0.000	18	311248	NC	NC	
33 Methylene Chloride	84	2.217	2.217	0.000	94	356730	50.0	46.7	
34 2-Methyl-2-propanol	59	2.266	2.266	0.000	99	251838	500.0	491.2	
35 Methyl tert-butyl ether	73	2.320	2.320	0.000	97	962245	50.0	51.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 trans-1,2-Dichloroethene	61	2.333	2.333	0.000	96	501643	50.0	52.9	
37 Acrylonitrile	53	2.381	2.381	0.000	94	1245364	500.0	549.1	
38 Hexane	57	2.436	2.436	0.000	94	592086	50.0	51.7	
39 Isopropyl ether	45	2.570	2.570	0.000	92	1240197	50.0	50.5	
40 1,1-Dichloroethane	63	2.582	2.582	0.000	99	650170	50.0	52.2	
41 Vinyl acetate	86	2.588	2.588	0.000	100	159240	100.0	96.7	
42 2-Chloro-1,3-butadiene	53	2.618	2.618	0.000	91	607960	50.0	53.4	
43 Tert-butyl ethyl ether	59	2.771	2.771	0.000	89	1126740	50.0	51.8	
44 2,2-Dichloropropane	77	2.904	2.904	0.000	97	501321	50.0	52.2	
45 cis-1,2-Dichloroethene	96	2.923	2.923	0.000	95	390173	50.0	52.5	
46 Ethyl acetate	70	2.935	2.935	0.000	97	75484	100.0	103.5	
47 2-Butanone (MEK)	72	2.935	2.935	0.000	96	188259	250.0	265.6	
48 Propionitrile	54	3.014	3.014	0.000	99	450650	500.0	517.4	
49 Chlorobromomethane	130	3.069	3.069	0.000	91	217089	50.0	51.2	
50 Methacrylonitrile	41	3.075	3.075	0.000	93	2095243	500.0	519.2	
51 Tetrahydrofuran	42	3.081	3.081	0.000	91	252182	100.0	101.3	
52 Chloroform	83	3.099	3.099	0.000	99	580000	50.0	50.7	
53 Cyclohexane	56	3.190	3.190	0.000	93	713061	50.0	53.3	
54 1,1,1-Trichloroethane	97	3.196	3.196	0.000	97	509405	50.0	52.7	
56 Carbon tetrachloride	117	3.282	3.282	0.000	98	442021	50.0	54.9	
57 1,1-Dichloropropene	75	3.300	3.300	0.000	96	491136	50.0	53.1	
58 Isobutyl alcohol	43	3.397	3.397	0.000	94	596514	1250.0	1336.7	
59 Benzene	78	3.428	3.428	0.000	97	1471786	50.0	51.7	
60 t-Amyl alcohol	59	3.440	3.440	0.000	82	235617	500.0	525.9	
61 Tert-amyl methyl ether	73	3.470	3.470	0.000	99	1157187	50.0	52.5	
62 1,2-Dichloroethane	62	3.482	3.482	0.000	97	451209	50.0	51.7	
63 n-Heptane	43	3.525	3.525	0.000	92	618098	50.0	51.5	
64 n-Butanol	56	3.835	3.835	0.000	89	182576	1250.0	1348.6	
65 Trichloroethene	130	3.853	3.853	0.000	97	377591	50.0	51.6	
66 Ethyl acrylate	55	3.933	3.933	0.000	99	1001557	50.0	52.8	
67 Methylcyclohexane	83	3.939	3.939	0.000	96	714802	50.0	52.8	
68 1,2-Dichloropropane	63	4.036	4.036	0.000	90	375913	50.0	51.6	
69 Methyl methacrylate	41	4.085	4.085	0.000	90	647828	100.0	99.2	
70 Dibromomethane	93	4.127	4.127	0.000	94	192947	50.0	50.5	
71 1,4-Dioxane	88	4.133	4.133	0.000	35	67666	1000.0	1056.8	
73 Dichlorobromomethane	83	4.225	4.225	0.000	100	429300	50.0	54.7	
75 2-Chloroethyl vinyl ether	63	4.444	4.444	0.000	98	220948	50.0	51.8	
74 2-Nitropropane	43	4.444	4.444	0.000	97	343384	100.0	98.8	
76 cis-1,3-Dichloropropene	75	4.559	4.559	0.000	94	588097	50.0	52.3	
77 4-Methyl-2-pentanone (MIBK)	58	4.669	4.669	0.000	96	639817	250.0	260.5	
78 Toluene	91	4.778	4.778	0.000	94	1539883	50.0	50.5	
79 trans-1,3-Dichloropropene	75	5.009	5.009	0.000	98	503235	50.0	53.0	
80 Ethyl methacrylate	69	5.028	5.028	0.000	90	464621	50.0	53.1	
81 1,1,2-Trichloroethane	97	5.149	5.149	0.000	94	287247	50.0	49.9	
82 Tetrachloroethene	166	5.198	5.198	0.000	98	407596	50.0	51.4	
83 1,3-Dichloropropane	76	5.295	5.295	0.000	94	508662	50.0	51.2	
84 2-Hexanone	58	5.338	5.338	0.000	96	514932	250.0	257.6	
85 n-Butyl acetate	43	5.411	5.411	0.000	98	474512	50.0	50.0	
86 Chlorodibromomethane	127	5.453	5.453	0.000	98	242285	50.0	54.2	
87 Ethylene Dibromide	107	5.563	5.563	0.000	99	281259	50.0	51.7	
88 1-Chlorohexane	91	5.916	5.916	0.000	89	514554	50.0	52.5	
89 Chlorobenzene	112	5.958	5.958	0.000	95	975832	50.0	51.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
90 Ethylbenzene	91	6.025	6.025	0.000	98	1701166	50.0	53.0	
91 1,1,1,2-Tetrachloroethane	131	6.037	6.037	0.000	95	341364	50.0	52.7	
92 m-Xylene & p-Xylene	91	6.129	6.129	0.000	0	1315585	50.0	53.1	
93 o-Xylene	91	6.488	6.488	0.000	94	1335674	50.0	53.5	
94 Styrene	104	6.518	6.518	0.000	96	1112308	50.0	53.3	
95 Bromoform	173	6.707	6.707	0.000	98	199171	50.0	56.3	
96 Isopropylbenzene	105	6.810	6.810	0.000	96	1733403	50.0	55.1	
97 Cyclohexanone	55	6.974	6.974	0.000	95	88071	500.0	491.4	
98 Bromobenzene	77	7.132	7.132	0.000	96	608730	50.0	51.1	
99 1,1,2,2-Tetrachloroethane	83	7.169	7.169	0.000	98	322875	50.0	50.6	
100 N-Propylbenzene	91	7.199	7.199	0.000	99	2032686	50.0	53.4	
101 1,2,3-Trichloropropane	110	7.212	7.212	0.000	97	105745	50.0	50.7	
102 trans-1,4-Dichloro-2-buten	53	7.230	7.230	0.000	74	92305	50.0	50.3	
103 2-Chlorotoluene	91	7.303	7.303	0.000	97	1338703	50.0	52.3	
104 4-Ethyltoluene	105	7.309	7.309	0.000	98	1704041	NC	NC	
105 1,3,5-Trimethylbenzene	105	7.376	7.376	0.000	94	1518575	50.0	52.2	
106 4-Chlorotoluene	91	7.418	7.418	0.000	96	1264142	50.0	53.5	
107 tert-Butylbenzene	119	7.668	7.668	0.000	95	1274638	50.0	53.5	
108 1,2,4-Trimethylbenzene	105	7.735	7.735	0.000	97	1433555	50.0	53.9	
110 sec-Butylbenzene	105	7.881	7.881	0.000	98	1910084	50.0	54.1	
112 4-Isopropyltoluene	119	8.027	8.027	0.000	98	1624082	50.0	54.6	
111 1,3-Dichlorobenzene	146	8.027	8.027	0.000	70	767995	50.0	51.6	
113 Dicyclopentadiene	66	8.081	8.081	0.000	96	1783154	NC	NC	
114 1,4-Dichlorobenzene	146	8.124	8.124	0.000	95	764179	50.0	50.2	
115 1,2,3-Trimethylbenzene	105	8.142	8.142	0.000	98	1422416	50.0	52.3	
116 Benzyl chloride	91	8.264	8.264	0.000	99	577670	50.0	54.3	
117 n-Butylbenzene	91	8.428	8.428	0.000	98	1392949	50.0	54.4	
118 1,2-Dichlorobenzene	146	8.483	8.483	0.000	97	689670	50.0	51.6	
119 1,2-Dibromo-3-Chloropropan	157	9.274	9.274	0.000	95	55277	50.0	51.9	
120 1,3,5-Trichlorobenzene	180	9.432	9.432	0.000	98	493505	50.0	52.0	
121 1,2,4-Trichlorobenzene	180	10.150	10.150	0.000	94	350818	50.0	51.1	
122 Hexachlorobutadiene	225	10.302	10.302	0.000	96	230982	50.0	52.4	
123 Naphthalene	128	10.454	10.454	0.000	99	614628	50.0	54.7	
124 1,2,3-Trichlorobenzene	180	10.752	10.752	0.000	96	247548	50.0	54.0	
125 2-Methylnaphthalene	142	11.701	11.701	0.000	87	117900	50.0	47.1	
126 1-Methylnaphthalene	142	11.884	11.884	0.000	94	89638	50.0	49.1	
S 148 Xylenes, Total	1				0			106.6	
S 149 1,2-Dichloroethene, Total	1				0			105.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

V1_Mega_I_00057

Amount Added: 50.00

Units: uL

V1_gases_I_00184

Amount Added: 50.00

Units: uL

VOA_ISSS150_W_00014

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20161109-82377.b\\11081614.D

Injection Date: 09-Nov-2016 02:02:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: std050

Worklist Smp#: 8

Client ID:

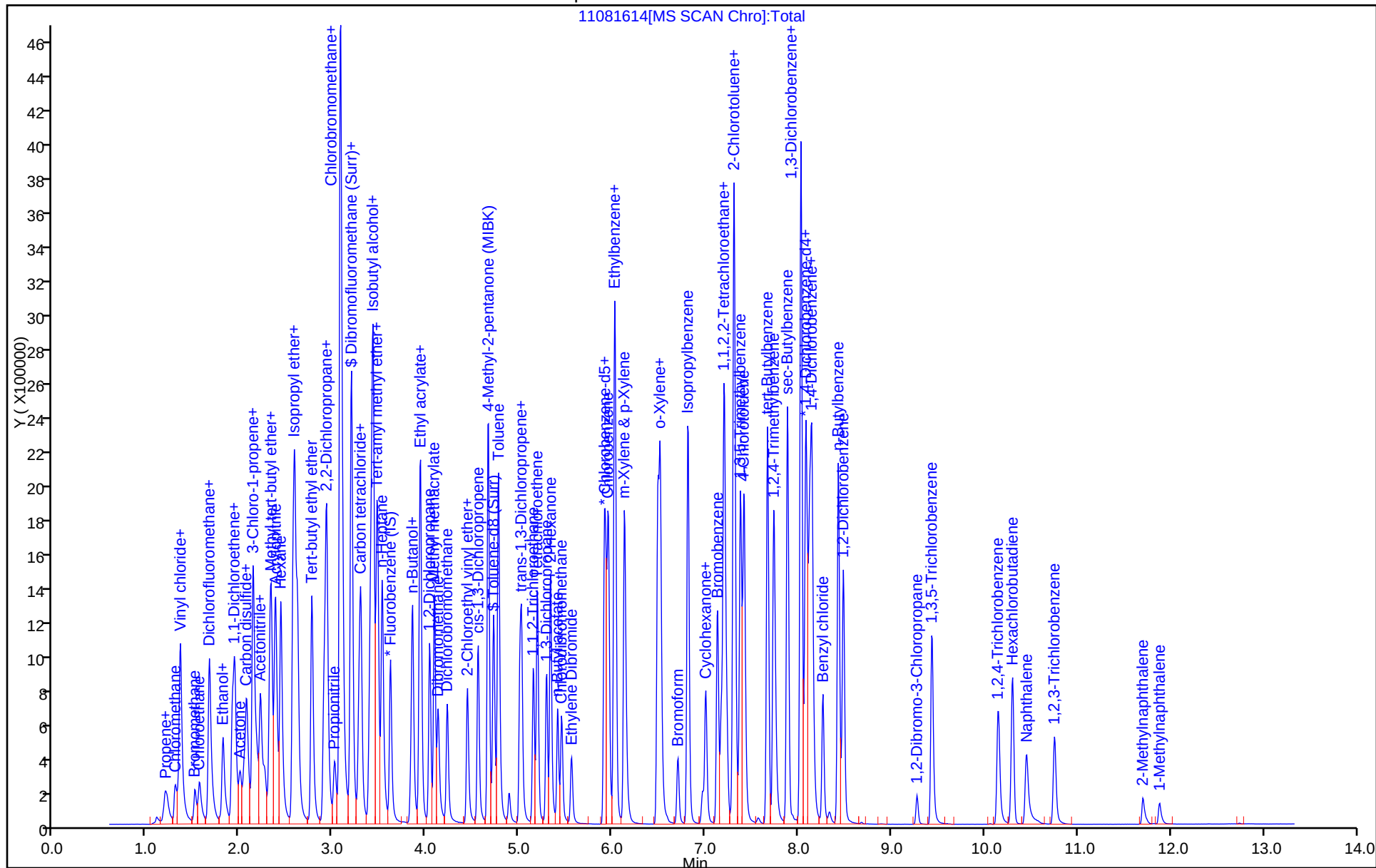
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 14

Method: 8260HP33

Limit Group: MSV 8260C ICAL



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081615.D
 Lims ID: std100
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 09-Nov-2016 02:29:30 ALS Bottle#: 15 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD100
 Operator ID: JJR Instrument ID: HP33
 Sublist: chrom-8260HP33*sub22
 Method: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 12-Nov-2016 12:39:12 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: redmondj

Date: 09-Nov-2016 12:18:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.617	3.616	0.001	98	855718	30.0	30.0	
* 2 Chlorobenzene-d5	117	5.935	5.934	0.001	86	661652	30.0	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.101	8.100	0.001	91	317425	30.0	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.204	3.203	0.002	97	213292	30.0	29.8	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.429	3.434	-0.005	0	234975	30.0	29.5	
\$ 7 Toluene-d8 (Surr)	98	4.725	4.723	0.002	99	860177	30.0	29.4	
\$ 8 4-Bromofluorobenzene (Surr	95	7.000	7.005	-0.005	93	304187	30.0	30.5	
11 Propene	41	1.184	1.183	0.001	98	156269	NC	NC	
12 Dichlorodifluoromethane	85	1.196	1.201	-0.005	100	474249	100.0	109.5	
13 Chloromethane	50	1.300	1.304	-0.004	100	713732	100.0	93.3	
14 Vinyl chloride	62	1.348	1.347	0.001	99	933052	100.0	110.0	
15 Butadiene	54	1.360	1.359	0.001	97	940434	100.0	109.5	
16 Bromomethane	96	1.506	1.517	-0.011	99	306395	100.0	86.6	
17 Chloroethane	64	1.555	1.566	-0.011	99	544933	100.0	98.7	
18 Dichlorofluoromethane	67	1.665	1.669	-0.004	99	1404134	100.0	109.8	
19 Trichlorofluoromethane	101	1.671	1.669	0.002	99	1055781	100.0	108.7	
20 Ethanol	46	1.811	1.809	0.002	82	147425	4000.0	4766.7	
21 Ethyl ether	59	1.811	1.815	-0.004	91	725078	100.0	114.1	
22 1,1,2-Trichloro-1,2,2-trif	101	1.914	1.919	-0.005	97	728916	100.0	107.6	
23 Acrolein	56	1.920	1.925	-0.005	96	130308	250.0	409.4	
24 1,1-Dichloroethene	96	1.938	1.943	-0.005	98	701528	100.0	112.0	
25 Acetone	58	1.999	2.004	-0.005	87	320922	500.0	517.7	
26 Iodomethane	142	2.042	2.047	-0.005	97	942518	100.0	121.2	
27 Isopropyl alcohol	45	2.066	2.065	0.001	96	366284	1000.0	1059.2	
28 Carbon disulfide	76	2.066	2.071	-0.005	99	2002314	100.0	101.4	
30 3-Chloro-1-propene	76	2.133	2.132	0.001	90	876024	100.0	126.4	
31 Methyl acetate	43	2.139	2.144	-0.005	99	2733739	500.0	540.8	
32 Acetonitrile	41	2.182	2.180	0.002	73	1123415	NC	NC	M
33 Methylene Chloride	84	2.218	2.217	0.001	94	810197	100.0	99.3	
34 2-Methyl-2-propanol	59	2.267	2.266	0.001	99	665663	1000.0	1216.5	
35 Methyl tert-butyl ether	73	2.316	2.320	-0.004	97	2261883	100.0	114.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 trans-1,2-Dichloroethene	61	2.334	2.333	0.001	96	1129900	100.0	111.7	
37 Acrylonitrile	53	2.376	2.381	-0.005	94	2902317	1000.0	1199.0	
38 Hexane	57	2.437	2.436	0.001	93	1340445	100.0	109.7	
39 Isopropyl ether	45	2.565	2.570	-0.005	93	2857077	100.0	108.9	
40 1,1-Dichloroethane	63	2.583	2.582	0.001	100	1471502	100.0	110.8	
41 Vinyl acetate	86	2.589	2.588	0.001	100	387758	200.0	219.8	
42 2-Chloro-1,3-butadiene	53	2.614	2.618	-0.004	91	1378233	100.0	113.5	
43 Tert-butyl ethyl ether	59	2.772	2.771	0.001	90	2594711	100.0	111.8	
44 2,2-Dichloropropane	77	2.900	2.904	-0.004	97	1142477	100.0	111.5	
45 cis-1,2-Dichloroethene	96	2.918	2.923	-0.005	95	894285	100.0	112.8	
46 Ethyl acetate	70	2.930	2.935	-0.005	96	182857	200.0	234.9	
47 2-Butanone (MEK)	72	2.930	2.935	-0.005	96	447615	500.0	591.7	
48 Propionitrile	54	3.015	3.014	0.001	99	1067996	1000.0	1148.8	
49 Chlorobromomethane	130	3.070	3.069	0.001	91	489375	100.0	108.1	
50 Methacrylonitrile	41	3.082	3.075	0.007	92	4791208	1000.0	1112.5	
51 Tetrahydrofuran	42	3.082	3.081	0.001	34	594147	200.0	223.5	
52 Chloroform	83	3.100	3.099	0.001	99	1338979	100.0	109.8	
53 Cyclohexane	56	3.192	3.190	0.002	94	1608230	100.0	112.7	
54 1,1,1-Trichloroethane	97	3.198	3.196	0.002	99	1168176	100.0	113.2	
56 Carbon tetrachloride	117	3.277	3.282	-0.005	98	1009078	100.0	117.5	
57 1,1-Dichloropropene	75	3.295	3.300	-0.005	96	1118557	100.0	113.2	
58 Isobutyl alcohol	43	3.398	3.397	0.001	91	1349955	2500.0	2834.4	
59 Benzene	78	3.429	3.428	0.001	98	3313461	100.0	109.1	
60 t-Amyl alcohol	59	3.441	3.440	0.001	83	574428	1000.0	1201.3	
61 Tert-amyl methyl ether	73	3.471	3.470	0.001	99	2752331	100.0	117.0	
62 1,2-Dichloroethane	62	3.484	3.482	0.002	97	1039154	100.0	111.7	
63 n-Heptane	43	3.526	3.525	0.001	91	1452008	100.0	113.3	
64 n-Butanol	56	3.836	3.835	0.001	88	455549	2500.0	3153.0	
65 Trichloroethene	130	3.855	3.853	0.002	98	870506	100.0	111.5	
66 Ethyl acrylate	55	3.934	3.933	0.002	99	2335355	100.0	115.3	
67 Methylcyclohexane	83	3.940	3.939	0.001	91	1636857	100.0	113.3	
68 1,2-Dichloropropane	63	4.037	4.036	0.001	91	869659	100.0	111.9	
69 Methyl methacrylate	41	4.086	4.085	0.001	89	1504445	200.0	219.9	
70 Dibromomethane	93	4.128	4.127	0.001	94	458184	100.0	112.3	
71 1,4-Dioxane	88	4.128	4.133	-0.005	35	168142	2000.0	2460.6	
73 Dichlorobromomethane	83	4.226	4.225	0.001	100	1016474	100.0	121.5	
75 2-Chloroethyl vinyl ether	63	4.445	4.444	0.001	98	539520	100.0	116.9	
74 2-Nitropropane	43	4.439	4.444	-0.005	97	835674	200.0	225.2	
76 cis-1,3-Dichloropropene	75	4.554	4.559	-0.005	94	1388366	100.0	114.1	
77 4-Methyl-2-pentanone (MIBK)	58	4.664	4.669	-0.005	96	1540938	500.0	579.8	
78 Toluene	91	4.773	4.778	-0.005	94	3502013	100.0	106.1	
79 trans-1,3-Dichloropropene	75	5.004	5.009	-0.005	99	1213445	100.0	118.2	
80 Ethyl methacrylate	69	5.023	5.028	-0.005	90	1128570	100.0	119.3	
81 1,1,2-Trichloroethane	97	5.150	5.149	0.001	96	693009	100.0	111.2	
82 Tetrachloroethene	166	5.193	5.198	-0.005	98	964312	100.0	112.3	
83 1,3-Dichloropropane	76	5.290	5.295	-0.005	94	1227929	100.0	114.2	
84 2-Hexanone	58	5.339	5.338	0.001	95	1311520	500.0	606.4	
85 n-Butyl acetate	43	5.412	5.411	0.001	98	1229803	100.0	121.5	
86 Chlorodibromomethane	127	5.455	5.453	0.002	98	604877	100.0	125.0	
87 Ethylene Dibromide	107	5.564	5.563	0.001	98	678868	100.0	115.4	
88 1-Chlorohexane	91	5.917	5.916	0.001	89	1212019	100.0	115.9	
89 Chlorobenzene	112	5.960	5.958	0.002	94	2266825	100.0	110.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
90 Ethylbenzene	91	6.026	6.025	0.001	98	3914634	100.0	112.7	
91 1,1,1,2-Tetrachloroethane	131	6.033	6.037	-0.004	95	825867	100.0	117.7	
92 m-Xylene & p-Xylene	91	6.130	6.129	0.001	0	3063137	100.0	114.3	
93 o-Xylene	91	6.489	6.488	0.001	95	3124743	100.0	115.6	
94 Styrene	104	6.513	6.518	-0.005	95	2610557	100.0	115.6	
95 Bromoform	173	6.702	6.707	-0.005	98	510647	100.0	132.9	
96 Isopropylbenzene	105	6.811	6.810	0.001	96	3898113	100.0	114.4	
97 Cyclohexanone	55	6.969	6.974	-0.005	96	221877	1000.0	1160.0	
98 Bromobenzene	77	7.128	7.132	-0.004	97	1454969	100.0	114.3	
99 1,1,2,2-Tetrachloroethane	83	7.170	7.169	0.001	97	775990	100.0	113.7	
100 N-Propylbenzene	91	7.201	7.199	0.002	99	4600098	100.0	112.9	
101 1,2,3-Trichloropropane	110	7.213	7.212	0.001	97	255703	100.0	114.7	
102 trans-1,4-Dichloro-2-buten	53	7.231	7.230	0.001	84	233879	100.0	119.2	
103 2-Chlorotoluene	91	7.304	7.303	0.001	97	3053853	100.0	111.5	
104 4-Ethyltoluene	105	7.310	7.309	0.001	98	3909622	NC	NC	
105 1,3,5-Trimethylbenzene	105	7.377	7.376	0.001	94	3474957	100.0	111.7	
106 4-Chlorotoluene	91	7.414	7.418	-0.004	96	2945701	100.0	116.7	
107 tert-Butylbenzene	119	7.669	7.668	0.001	94	2922197	100.0	114.7	
108 1,2,4-Trimethylbenzene	105	7.736	7.735	0.001	97	3318426	100.0	116.7	
110 sec-Butylbenzene	105	7.882	7.881	0.001	98	4270397	100.0	113.0	
112 4-Isopropyltoluene	119	8.028	8.027	0.001	97	3648576	100.0	114.7	
111 1,3-Dichlorobenzene	146	8.028	8.027	0.001	94	1784015	100.0	112.1	
113 Dicyclopentadiene	66	8.083	8.081	0.002	96	4090233	NC	NC	
114 1,4-Dichlorobenzene	146	8.125	8.124	0.001	94	1775376	100.0	109.2	
115 1,2,3-Trimethylbenzene	105	8.144	8.142	0.002	98	3285780	100.0	113.1	
116 Benzyl chloride	91	8.259	8.264	-0.005	99	1437416	100.0	124.8	
117 n-Butylbenzene	91	8.429	8.428	0.001	99	3131472	100.0	114.4	
118 1,2-Dichlorobenzene	146	8.484	8.483	0.001	97	1604363	100.0	112.3	
119 1,2-Dibromo-3-Chloropropan	157	9.275	9.274	0.001	95	140495	100.0	123.5	
120 1,3,5-Trichlorobenzene	180	9.433	9.432	0.001	98	1162159	100.0	114.5	
121 1,2,4-Trichlorobenzene	180	10.145	10.150	-0.005	94	829698	100.0	112.7	
122 Hexachlorobutadiene	225	10.303	10.302	0.001	96	535347	100.0	113.7	
123 Naphthalene	128	10.449	10.454	-0.005	99	1494407	100.0	124.4	
124 1,2,3-Trichlorobenzene	180	10.753	10.752	0.001	96	584551	100.0	119.3	
125 2-Methylnaphthalene	142	11.702	11.701	0.001	88	312099	100.0	116.6	
126 1-Methylnaphthalene	142	11.879	11.884	-0.005	93	236434	100.0	121.0	
S 148 Xylenes, Total	1				0			229.8	
S 149 1,2-Dichloroethene, Total	1				0			224.5	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

V1_gases_I_00184

Amount Added: 100.00

Units: uL

V1_Mega_I_00057

Amount Added: 100.00

Units: uL

VOA_ISSS150_W_00014

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20161109-82377.b\\11081615.D

Injection Date: 09-Nov-2016 02:29:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: std100

Worklist Smp#: 9

Client ID:

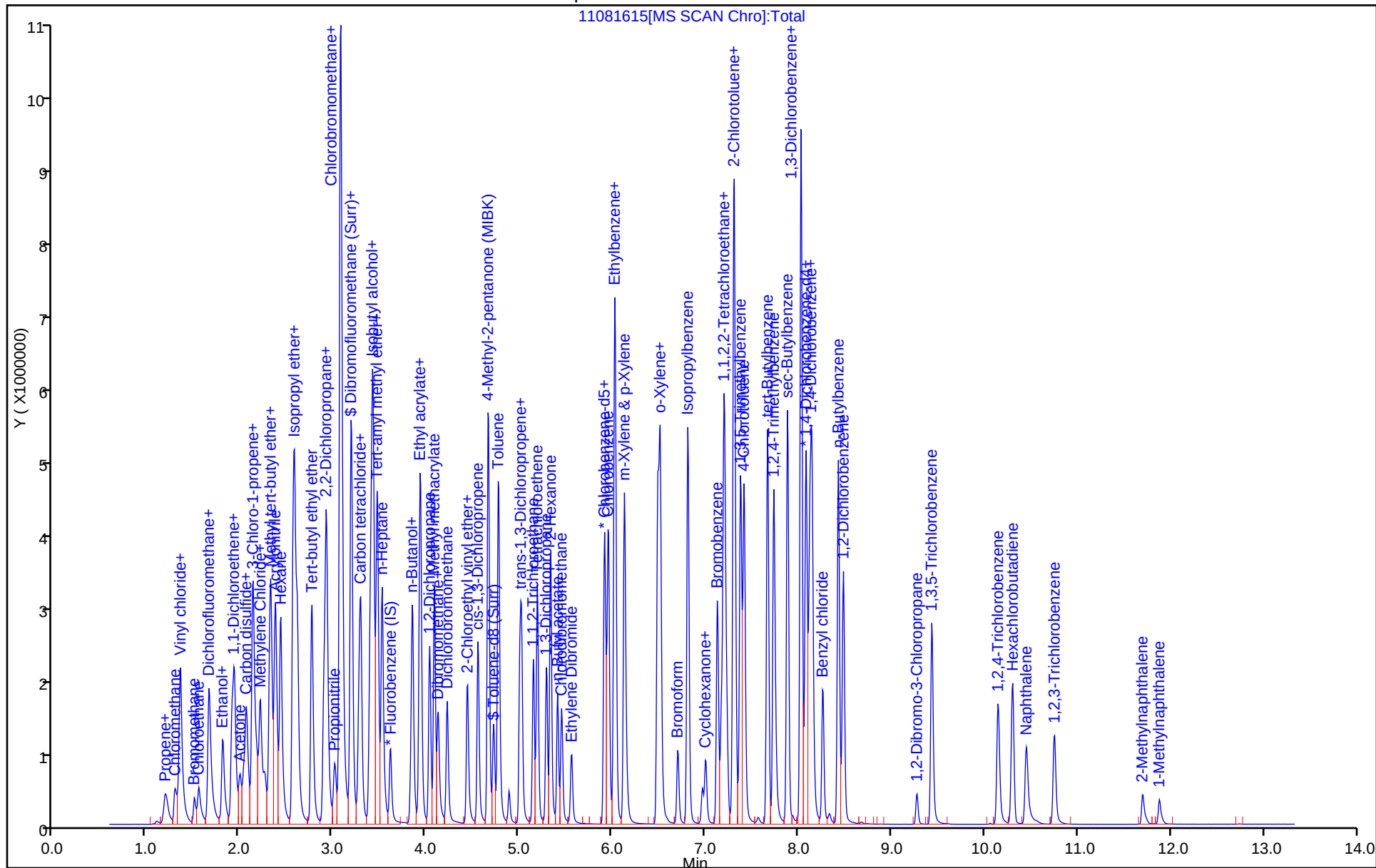
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 15

Method: 8260HP33

Limit Group: MSV 8260C ICAL



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D
 Lims ID: std200
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 09-Nov-2016 02:55:30 ALS Bottle#: 16 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD200
 Operator ID: JJR Instrument ID: HP33
 Sublist: chrom-8260HP33*sub22
 Method: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 12-Nov-2016 12:39:18 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: redmondj

Date: 09-Nov-2016 12:19:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.610	3.616	-0.006	99	869016	30.0	30.0	
* 2 Chlorobenzene-d5	117	5.934	5.934	0.000	90	689809	30.0	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.100	8.100	0.000	94	335214	30.0	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.203	3.203	0.001	98	217125	30.0	29.8	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.428	3.434	-0.006	0	242177	30.0	29.9	
\$ 7 Toluene-d8 (Surr)	98	4.724	4.723	0.001	99	875278	30.0	28.7	
\$ 8 4-Bromofluorobenzene (Surr	95	7.005	7.005	0.000	94	312187	30.0	29.7	
11 Propene	41	1.177	1.183	-0.006	98	284024	NC	NC	
12 Dichlorodifluoromethane	85	1.195	1.201	-0.006	100	869901	200.0	197.7	
13 Chloromethane	50	1.293	1.304	-0.011	99	1518354	200.0	195.4	
14 Vinyl chloride	62	1.341	1.347	-0.006	99	1766802	200.0	205.1	
15 Butadiene	54	1.360	1.359	0.001	96	1775132	200.0	203.6	
16 Bromomethane	96	1.500	1.517	-0.017	99	434367	200.0	121.2	
17 Chloroethane	64	1.548	1.566	-0.018	99	708191	200.0	126.3	
18 Dichlorofluoromethane	67	1.652	1.669	-0.017	99	2575826	200.0	198.4	
19 Trichlorofluoromethane	101	1.664	1.669	-0.005	100	1897860	200.0	192.4	
20 Ethanol	46	1.822	1.809	0.013	92	272446	8000.0	8692.8	
21 Ethyl ether	59	1.810	1.815	-0.005	95	1373734	200.0	212.8	
22 1,1,2-Trichloro-1,2,2-trif	101	1.907	1.919	-0.012	98	1398148	200.0	203.2	
23 Acrolein	56	1.919	1.925	-0.006	97	306741	500.0	949.0	
24 1,1-Dichloroethene	96	1.938	1.943	-0.005	98	1340114	200.0	210.7	
25 Acetone	58	1.998	2.004	-0.006	87	610646	1000.0	970.1	
26 Iodomethane	142	2.035	2.047	-0.012	97	1679675	200.0	212.6	
27 Isopropyl alcohol	45	2.077	2.065	0.012	96	822524	2000.0	2342.0	
28 Carbon disulfide	76	2.059	2.071	-0.012	99	3806039	200.0	189.9	
30 3-Chloro-1-propene	76	2.126	2.132	-0.006	91	1553559	200.0	220.7	
31 Methyl acetate	43	2.138	2.144	-0.006	99	5016512	1000.0	977.2	
32 Acetonitrile	41	2.181	2.180	0.001	72	2050006	NC	NC	M
33 Methylene Chloride	84	2.211	2.217	-0.006	93	1543291	200.0	186.2	
34 2-Methyl-2-propanol	59	2.272	2.266	0.006	99	1273095	2000.0	2290.9	
35 Methyl tert-butyl ether	73	2.315	2.320	-0.005	97	4259734	200.0	211.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 trans-1,2-Dichloroethene	61	2.327	2.333	-0.006	96	2145632	200.0	208.9	
37 Acrylonitrile	53	2.382	2.381	0.001	94	5389728	2000.0	2192.5	
38 Hexane	57	2.430	2.436	-0.006	93	2518354	200.0	203.0	
39 Isopropyl ether	45	2.564	2.570	-0.006	90	5238795	200.0	196.6	
40 1,1-Dichloroethane	63	2.576	2.582	-0.006	100	2758642	200.0	204.5	
41 Vinyl acetate	86	2.588	2.588	0.000	100	740231	400.0	412.7	
42 2-Chloro-1,3-butadiene	53	2.613	2.618	-0.005	91	2606530	200.0	211.4	
43 Tert-butyl ethyl ether	59	2.771	2.771	0.000	91	4896691	200.0	207.8	
44 2,2-Dichloropropane	77	2.899	2.904	-0.005	96	2184598	200.0	210.0	
45 cis-1,2-Dichloroethene	96	2.917	2.923	-0.006	96	1716911	200.0	213.2	
46 Ethyl acetate	70	2.929	2.935	-0.006	94	348916	400.0	441.3	
47 2-Butanone (MEK)	72	2.935	2.935	0.000	96	844907	1000.0	1099.9	
48 Propionitrile	54	3.020	3.014	0.006	100	1988652	2000.0	2106.4	
49 Chlorobromomethane	130	3.069	3.069	0.000	89	908470	200.0	197.7	
50 Methacrylonitrile	41	3.081	3.075	0.006	89	8081076	2000.0	1847.7	
51 Tetrahydrofuran	42	3.081	3.081	0.000	78	1085853	400.0	402.3	
52 Chloroform	83	3.099	3.099	0.000	99	2517634	200.0	203.2	
53 Cyclohexane	56	3.191	3.190	0.001	92	3015775	200.0	208.1	
54 1,1,1-Trichloroethane	97	3.191	3.196	-0.005	99	2225591	200.0	212.5	
56 Carbon tetrachloride	117	3.276	3.282	-0.006	99	1936484	200.0	222.0	
57 1,1-Dichloropropene	75	3.294	3.300	-0.006	96	2138805	200.0	213.2	
58 Isobutyl alcohol	43	3.404	3.397	0.007	90	2451257	5000.0	5068.0	
59 Benzene	78	3.422	3.428	-0.006	99	5977115	200.0	193.8	
60 t-Amyl alcohol	59	3.446	3.440	0.006	86	1112835	2000.0	2291.6	
61 Tert-amyl methyl ether	73	3.471	3.470	0.001	98	5092406	200.0	213.2	
62 1,2-Dichloroethane	62	3.477	3.482	-0.005	97	1967846	200.0	208.2	
63 n-Heptane	43	3.525	3.525	0.000	90	2743469	200.0	210.8	
64 n-Butanol	56	3.842	3.835	0.007	88	866042	5000.0	5902.4	
65 Trichloroethene	130	3.854	3.853	0.001	98	1651103	200.0	208.2	
66 Ethyl acrylate	55	3.933	3.933	0.001	99	4353056	200.0	211.7	
67 Methylcyclohexane	83	3.939	3.939	0.000	96	3089902	200.0	210.6	
68 1,2-Dichloropropane	63	4.036	4.036	0.000	90	1669558	200.0	211.6	
69 Methyl methacrylate	41	4.085	4.085	0.000	88	2803692	400.0	406.5	
70 Dibromomethane	93	4.128	4.127	0.001	94	879223	200.0	212.2	
71 1,4-Dioxane	88	4.134	4.133	0.001	90	319168	4000.0	4599.3	
73 Dichlorobromomethane	83	4.225	4.225	0.000	100	1962918	200.0	231.0	
75 2-Chloroethyl vinyl ether	63	4.444	4.444	0.000	98	1027953	200.0	213.7	
74 2-Nitropropane	43	4.438	4.444	-0.006	98	1589203	400.0	421.7	
76 cis-1,3-Dichloropropene	75	4.559	4.559	0.000	94	2654985	200.0	209.3	
77 4-Methyl-2-pentanone (MIBK)	58	4.669	4.669	0.000	93	2860590	1000.0	1032.3	
78 Toluene	91	4.779	4.778	0.000	95	6259674	200.0	181.8	
79 trans-1,3-Dichloropropene	75	5.004	5.009	-0.005	99	2347498	200.0	219.3	
80 Ethyl methacrylate	69	5.028	5.028	0.000	90	2159045	200.0	218.9	
81 1,1,2-Trichloroethane	97	5.156	5.149	0.007	96	1333556	200.0	205.2	
82 Tetrachloroethene	166	5.198	5.198	0.000	98	1843971	200.0	206.0	
83 1,3-Dichloropropane	76	5.296	5.295	0.001	94	2393989	200.0	213.5	
84 2-Hexanone	58	5.338	5.338	0.000	94	2587711	1000.0	1147.6	
85 n-Butyl acetate	43	5.411	5.411	0.000	98	2415086	200.0	234.9	
86 Chlorodibromomethane	127	5.460	5.453	0.007	98	1207154	200.0	239.3	
87 Ethylene Dibromide	107	5.563	5.563	0.000	99	1327743	200.0	216.5	
88 1-Chlorohexane	91	5.916	5.916	0.000	91	2364098	200.0	222.7	
89 Chlorobenzene	112	5.959	5.958	0.001	93	4307823	200.0	200.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
90 Ethylbenzene	91	6.026	6.025	0.001	98	6994297	200.0	193.1	
91 1,1,1,2-Tetrachloroethane	131	6.038	6.037	0.001	95	1608672	200.0	219.9	
92 m-Xylene & p-Xylene	91	6.129	6.129	0.000	0	5735637	200.0	205.2	
93 o-Xylene	91	6.494	6.488	0.006	95	5821104	200.0	206.5	
94 Styrene	104	6.518	6.518	0.000	94	4890171	200.0	207.7	
95 Bromoform	173	6.707	6.707	0.000	98	1009639	200.0	251.8	
96 Isopropylbenzene	105	6.816	6.810	0.006	97	6921546	200.0	194.9	
97 Cyclohexanone	55	6.969	6.974	-0.005	95	424252	2000.0	2184.0	
98 Bromobenzene	77	7.133	7.132	0.001	96	2811901	200.0	209.1	
99 1,1,2,2-Tetrachloroethane	83	7.175	7.169	0.006	97	1510538	200.0	209.5	
100 N-Propylbenzene	91	7.200	7.199	0.001	98	8054335	200.0	187.3	
101 1,2,3-Trichloropropane	110	7.218	7.212	0.006	98	489690	200.0	207.9	
102 trans-1,4-Dichloro-2-buten	53	7.236	7.230	0.006	78	463562	200.0	223.8	
103 2-Chlorotoluene	91	7.309	7.303	0.006	98	5796477	200.0	200.5	
104 4-Ethyltoluene	105	7.315	7.309	0.006	96	6955058	NC	NC	
105 1,3,5-Trimethylbenzene	105	7.382	7.376	0.006	95	6381183	200.0	194.3	
106 4-Chlorotoluene	91	7.419	7.418	0.001	96	5405316	200.0	202.7	
107 tert-Butylbenzene	119	7.674	7.668	0.006	93	5316587	200.0	197.6	
108 1,2,4-Trimethylbenzene	105	7.735	7.735	0.000	97	6112548	200.0	203.6	
110 sec-Butylbenzene	105	7.887	7.881	0.006	95	7392928	200.0	185.3	
112 4-Isopropyltoluene	119	8.033	8.027	0.006	95	6543413	200.0	194.8	
111 1,3-Dichlorobenzene	146	8.027	8.027	0.000	92	3348793	200.0	199.3	
113 Dicyclopentadiene	66	8.082	8.081	0.001	97	7325833	NC	NC	
114 1,4-Dichlorobenzene	146	8.124	8.124	0.000	94	3437594	200.0	200.2	
115 1,2,3-Trimethylbenzene	105	8.149	8.142	0.007	97	6075608	200.0	198.0	
116 Benzyl chloride	91	8.264	8.264	0.000	99	2829317	200.0	235.6	
117 n-Butylbenzene	91	8.429	8.428	0.001	98	5761895	200.0	199.3	
118 1,2-Dichlorobenzene	146	8.483	8.483	0.000	95	3070671	200.0	203.6	
119 1,2-Dibromo-3-Chloropropan	157	9.274	9.274	0.000	94	279361	200.0	232.5	
120 1,3,5-Trichlorobenzene	180	9.432	9.432	0.000	98	2199193	200.0	205.1	
121 1,2,4-Trichlorobenzene	180	10.144	10.150	-0.006	94	1596836	200.0	205.2	
122 Hexachlorobutadiene	225	10.302	10.302	0.000	96	1017876	200.0	204.6	
123 Naphthalene	128	10.448	10.454	-0.006	99	2939533	200.0	231.7	
124 1,2,3-Trichlorobenzene	180	10.752	10.752	0.000	96	1142759	200.0	220.9	
125 2-Methylnaphthalene	142	11.695	11.701	-0.006	86	671960	200.0	237.6	
126 1-Methylnaphthalene	142	11.878	11.884	-0.006	93	497560	200.0	241.1	
S 148 Xylenes, Total	1				0			411.7	
S 149 1,2-Dichloroethene, Total	1				0			422.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

V1_Mega_I_00057

Amount Added: 200.00

Units: uL

V1_gases_I_00184

Amount Added: 200.00

Units: uL

VOA_ISSS150_W_00014

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20161109-82377.b\\11081616.D

Injection Date: 09-Nov-2016 02:55:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: std200

Worklist Smp#: 10

Client ID:

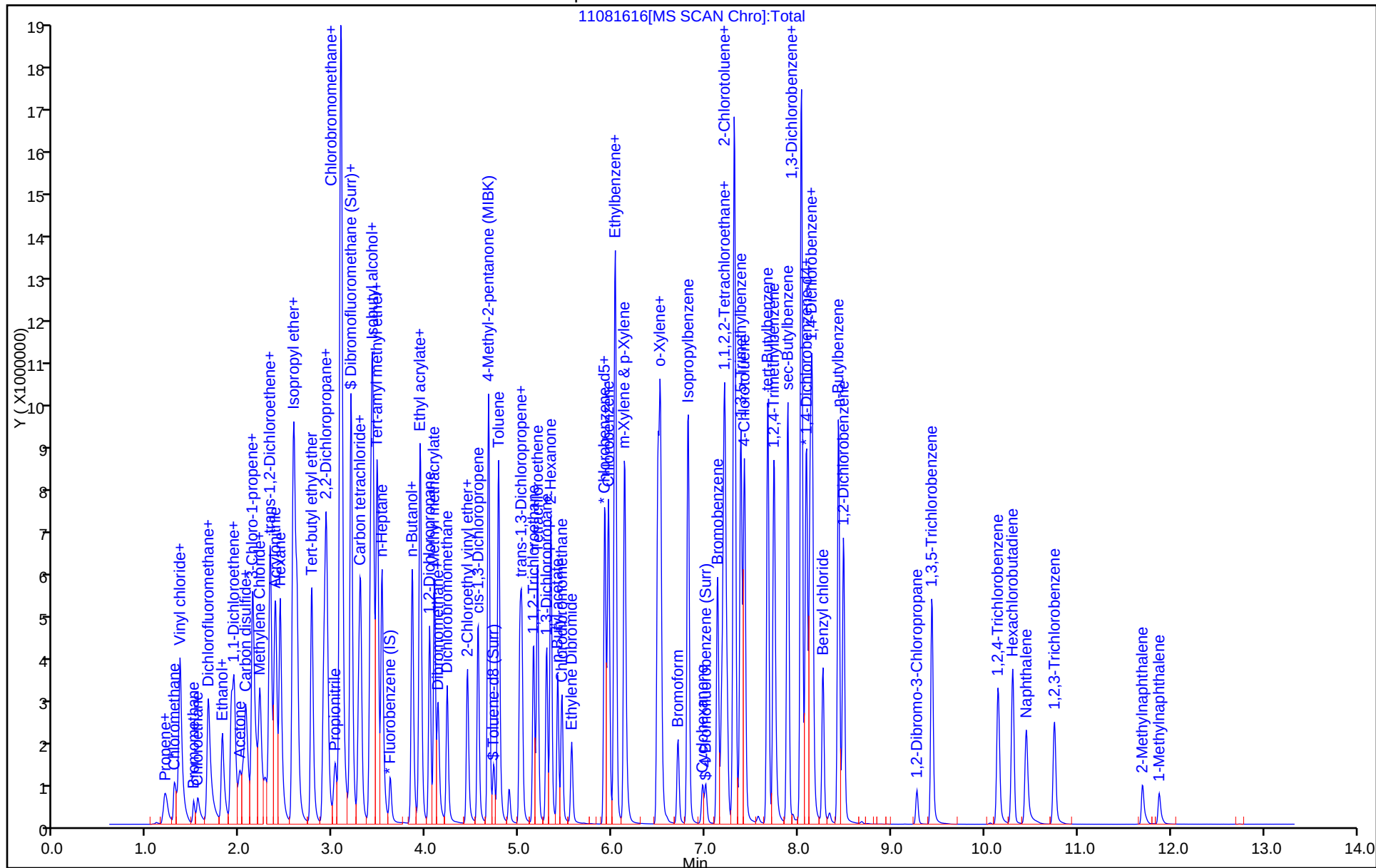
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 16

Method: 8260HP33

Limit Group: MSV 8260C ICAL



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 480-117063-1 Analy Batch No.: 415044

SDG No.: _____

Instrument ID: HP39 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/16/2017 17:49 Calibration End Date: 03/16/2017 21:43 Calibration ID: 65271

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 490-415044/5	03161705.D
Level 2	STD 490-415044/6	03161706.D
Level 3	STD 490-415044/7	03161707.D
Level 4	STD 490-415044/8	03161708.D
Level 5	STD 490-415044/9	03161709.D
Level 6	STD 490-415044/10	03161710.D
Level 7	ICIS 490-415044/11	03161711.D
Level 8	STD 490-415044/12	03161712.D
Level 9	STD 490-415044/13	03161713.D
Level 10	STD 490-415044/14	03161714.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	0.3555 0.2929	0.2510 0.3173	0.3102 0.2950	0.2754 0.2633	0.2877 0.2309	Ave		0.2879			0.1000	12.3		20.0			
Chloromethane	0.1540 0.2527	0.1967 0.3026	0.2676 0.3115	0.2451 0.2963	0.2468 0.2826	Lin2	-0.068	0.2820			0.1000				0.9920		0.9900
Vinyl chloride	0.3573 0.3215	0.2986 0.3636	0.3644 0.3370	0.3268 0.3000	0.3132 0.2571	Ave		0.3240			0.1000	10.4		20.0			
Butadiene	0.4218 0.3045	0.2790 0.3509	0.3427 0.3261	0.3213 0.2946	0.2978 +++++	Lin1	0.0374	0.3104			0.1000				0.9950		0.9900
Bromomethane	0.0975 0.1649	0.0746 0.2148	0.1020 +++++	0.1072 +++++	0.1011 +++++	Qual	-0.016	0.1033	0.0022703		0.1000				0.9960		0.9900
Chloroethane	0.2804 0.2157	0.2187 0.2278	0.2490 0.2258	0.2272 0.2081	0.2178 0.1625	Ave		0.2233			0.1000	13.4		20.0			
Dichlorofluoromethane	0.6022 0.5179	0.4687 0.5435	0.6161 0.5073	0.5300 0.4505	0.5197 0.3973	Ave		0.5153			0.1000	12.8		20.0			
Trichlorofluoromethane	0.4759 0.4230	0.3771 0.4777	0.4650 0.4482	0.3645 0.4140	0.4349 0.3841	Ave		0.4264			0.1000	9.7		20.0			
Ethanol	+++++ 0.0006	0.0005 0.0006	0.0005 0.0006	0.0006 0.0006	0.0006 0.0006	Ave		0.0006		*	0.0010	6.9		20.0			
Ethyl ether	0.1942 0.1638	0.1600 0.1789	0.1741 0.1659	0.1621 0.1542	0.1574 0.1578	Ave		0.1669			0.1000	7.3		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2977 0.2492	0.2416 0.2676	0.2853 0.2489	0.2614 0.2267	0.2549 0.2319	Ave		0.2565			0.1000	8.7		20.0			
Acrolein	+++++ 0.0140	0.0167 0.0165	0.0187 0.0159	0.0149 0.0161	0.0144 0.0169	Ave		0.0160			0.0100	8.9		20.0			
1,1-Dichloroethene	0.3485 0.2639	0.2590 0.2916	0.2783 0.2706	0.2729 0.2520	0.2526 0.2360	Ave		0.2726			0.1000	11.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 480-117063-1 Analy Batch No.: 415044

SDG No.: _____

Instrument ID: HP39 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/16/2017 17:49 Calibration End Date: 03/16/2017 21:43 Calibration ID: 65271

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	++++ 0.0116	0.0156 0.0120	0.0146 0.0118	0.0117 0.0104	0.0122 0.0107	Lin2	0.0235	0.0113			0.0100				0.9960		0.9900
Iodomethane	0.2898 0.4066	0.2764 0.4090	0.3447 ++++	0.4235 ++++	0.3923 ++++	Lin1	-0.086	0.4106			0.1000				0.9990		0.9900
Isopropyl alcohol	++++ 0.0066	0.0094 0.0070	0.0082 0.0069	0.0068 0.0064	0.0064 0.0067	Lin2	0.0281	0.0066			0.0010				0.9970		0.9900
Carbon disulfide	1.1281 0.7529	0.7644 0.7863	0.8753 0.7204	0.7969 ++++	0.7407 ++++	Lin2	0.1661	0.7401			0.1000				0.9900		0.9900
3-Chloro-1-propene	0.2788 0.2257	0.2270 0.2518	0.2528 0.2288	0.1973 0.2342	0.2292 0.2356	Lin2	0.0200	0.2283			0.1000				0.9930		0.9900
Methyl acetate	++++ 0.1005	0.1091 0.1146	0.1188 0.1062	0.1103 0.0949	0.0981 0.0852	Ave		0.1042			0.1000	10.1		20.0			
Acetonitrile	++++ 0.0126	++++ 0.0136	0.0156 0.0132	0.0134 0.0118	0.0127 0.0114	Ave		0.0130			0.0010	10.0		20.0			
Methylene Chloride	++++ 0.2897	++++ 0.3036	0.4105 0.2830	0.3391 0.2567	0.2954 0.2436	Lin2	0.2896	0.2706			0.0100				0.9950		0.9900
2-Methyl-2-propanol	0.0134 0.0105	0.0109 0.0112	0.0123 0.0108	0.0108 0.0106	0.0106 0.0100	Ave		0.0111			0.0010	9.1		20.0			
Methyl tert-butyl ether	0.5994 0.5263	0.4919 0.5645	0.5183 0.5206	0.5183 0.4520	0.5249 ++++	Ave		0.5310			0.1000	8.5		20.0			
trans-1,2-Dichloroethene	0.4607 0.3383	0.3417 0.3777	0.4068 0.3656	0.3551 0.3411	0.3387 0.3059	Ave		0.3632			0.1000	12.0		20.0			
Acrylonitrile	0.0654 0.0493	0.0472 0.0535	0.0585 0.0494	0.0502 0.0424	0.0502 ++++	Ave		0.0518			0.0100	12.9		20.0			
n-Hexane	0.4419 0.3653	0.3278 0.3922	0.3786 0.3658	0.3681 0.3337	0.3599 0.2713	Ave		0.3605			0.1000	12.3		20.0			
Isopropyl ether	0.9775 0.8080	0.7887 0.8368	0.9218 0.7479	0.8210 0.5913	0.8014 ++++	Ave		0.8105			0.1000	13.3		20.0			
1,1-Dichloroethane	0.5721 0.4967	0.4381 0.5397	0.5694 0.5075	0.5087 0.4664	0.4944 0.4139	Ave		0.5007			0.2000	10.3		20.0			
Vinyl acetate	++++ 0.0356	++++ 0.0423	++++ 0.0437	++++ 0.0431	0.0307 0.0427	Ave		0.0384		*	0.1000	15.2		20.0			
2-Chloro-1,3-butadiene	0.4804 0.3854	0.3558 0.4174	0.4428 0.3858	0.4044 0.3390	0.3817 0.2700	Ave		0.3863			0.1000	15.0		20.0			
Tert-butyl ethyl ether	0.7679 0.7086	0.6151 0.7534	0.7788 0.6832	0.7188 0.5691	0.6784 ++++	Ave		0.6970			0.1000	10.0		20.0			
2,2-Dichloropropane	0.5362 0.3966	0.3502 0.4309	0.4451 0.4045	0.4010 0.3631	0.4062 ++++	Ave		0.4149			0.1000	13.1		20.0			
cis-1,2-Dichloroethene	0.4258 0.3271	0.2928 0.3518	0.3653 0.3326	0.3177 0.3065	0.3232 0.2845	Ave		0.3327			0.1000	12.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 480-117063-1 Analy Batch No.: 415044
SDG No.: _____
Instrument ID: HP39 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 03/16/2017 17:49 Calibration End Date: 03/16/2017 21:43 Calibration ID: 65271

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								
Ethyl acetate	++++ 0.0166	0.0187 0.0179	0.0193 0.0175	0.0183 0.0167	0.0165 0.0168	Ave		0.0176			0.0100	5.8		20.0			
2-Butanone (MEK)	0.0206 0.0164	0.0163 0.0171	0.0187 0.0171	0.0164 0.0161	0.0155 0.0160	Ave		0.0170			0.0100	9.1		20.0			
Propionitrile	0.0231 0.0191	0.0171 0.0204	0.0212 0.0194	0.0190 0.0179	0.0190 0.0170	Ave		0.0193			0.0100	9.6		20.0			
Methacrylonitrile	0.1046 0.0894	0.0848 0.0908	0.1035 0.0792	0.0900 ++++	0.0888 ++++	Ave		0.0914		*	0.1000	9.5		20.0			
Chlorobromomethane	0.2254 0.1781	0.1410 0.1932	0.1943 0.1829	0.1797 0.1711	0.1718 0.1659	Ave		0.1803			0.1000	12.1		20.0			
Tetrahydrofuran	++++ 0.0502	0.0575 0.0551	0.0561 0.0532	0.0515 0.0497	0.0524 0.0476	Ave		0.0526			0.0500	6.1		20.0			
Chloroform	0.5569 0.4602	0.4367 0.4863	0.4899 0.4523	0.4711 0.4173	0.4512 0.3581	Ave		0.4580			0.2000	11.3		20.0			
1,1,1-Trichloroethane	0.4626 0.4107	0.3671 0.4374	0.4423 0.4110	0.4136 0.3665	0.4091 0.2984	Ave		0.4019			0.1000	11.8		20.0			
Cyclohexane	0.5393 0.4703	0.4036 0.4886	0.5193 0.4728	0.4810 0.4231	0.4470 0.3374	Ave		0.4582			0.1000	12.8		20.0			
Carbon tetrachloride	0.4095 0.3644	0.3191 0.3972	0.3865 0.3787	0.3756 0.3428	0.3646 0.2820	Ave		0.3621			0.1000	10.6		20.0			
1,1-Dichloropropene	0.4579 0.3842	0.3581 0.4138	0.4057 0.3877	0.3872 0.3447	0.3828 0.2782	Ave		0.3800			0.1000	12.4		20.0			
Isobutyl alcohol	++++ 0.0106	++++ 0.0113	0.0117 0.0107	0.0108 0.0102	0.0107 0.0088	Ave		0.0106			0.0010	8.1		20.0			
Benzene	1.3379 1.1795	1.0260 1.2119	1.2762 1.0389	1.2339 ++++	1.1525 ++++	Ave		1.1821			0.5000	9.2		20.0			
t-Amyl alcohol	0.0179 0.0111	0.0123 0.0111	0.0133 0.0112	0.0110 0.0106	0.0110 0.0107	Lin2	0.0324	0.0108			0.0010				0.9940		0.9900
Tert-amyl methyl ether	0.8362 0.7249	0.6331 0.7569	0.7782 0.6970	0.6795 0.5849	0.7013 ++++	Ave		0.7102			0.1000	10.6		20.0			
1,2-Dichloroethane	0.3460 0.2781	0.2645 0.2918	0.3020 0.2700	0.2915 0.2472	0.2704 0.2200	Ave		0.2782			0.1000	12.1		20.0			
n-Heptane	0.3500 0.3160	0.2783 0.3281	0.2968 0.3120	0.2923 0.2964	0.3023 0.2645	Ave		0.3037			0.1000	8.0		20.0			
n-Butanol	0.0041 0.0031	0.0041 0.0034	0.0035 0.0034	0.0033 0.0033	0.0033 0.0030	Ave		0.0035			0.0010	10.4		20.0			
Trichloroethene	0.4298 0.3402	0.2815 0.3681	0.3880 0.3422	0.3567 0.3060	0.3371 0.2612	Ave		0.3411			0.2000	14.6		20.0			
Ethyl acrylate	0.2344 0.1956	0.2021 0.2276	0.1895 0.2066	0.1983 0.1830	0.2043 0.1775	Ave		0.2019			0.1000	8.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 480-117063-1 Analy Batch No.: 415044

SDG No.: _____

Instrument ID: HP39 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/16/2017 17:49 Calibration End Date: 03/16/2017 21:43 Calibration ID: 65271

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								
Methylcyclohexane	0.5462 0.5236	0.4266 0.5652	0.5473 0.5185	0.5130 0.4589	0.5032 0.3588	Ave		0.4961			0.1000	12.8		20.0			
1,2-Dichloropropane	0.3150 0.2863	0.2581 0.2981	0.3038 0.2858	0.2872 0.2595	0.2807 0.2268	Ave		0.2801			0.1000	9.2		20.0			
Methyl methacrylate	0.1415 0.1524	0.1254 0.1756	0.1612 0.1573	0.1585 0.1471	0.1631 0.1240	Ave		0.1506			0.1000	10.9		20.0			
Dibromomethane	0.1700 0.1320	0.1185 0.1398	0.1434 0.1328	0.1329 0.1198	0.1293 ++++	Lin2	0.0152	0.1288			0.0500				0.9900		0.9900
1,4-Dioxane	++++ 0.0014	++++ 0.0014	0.0018 0.0015	0.0014 0.0014	0.0013 0.0014	Ave		0.0014			0.0010	10.6		20.0			
Bromodichloromethane	0.3921 0.3468	0.3233 0.3740	0.3636 0.3509	0.3498 0.3167	0.3419 0.2668	Ave		0.3426			0.2000	10.1		20.0			
2-Chloroethyl vinyl ether	++++ 0.1264	++++ 0.1491	0.1030 0.1554	0.1092 0.1507	0.1121 0.1424	Ave		0.1310			0.1000	16.0		20.0			
2-Nitropropane	++++ 0.0549	++++ 0.0679	0.0476 0.0724	0.0431 0.0697	0.0481 0.0681	Ave		0.0590			0.0100	20.0		20.0			
cis-1,3-Dichloropropene	0.5640 0.5073	0.4224 0.5572	0.5266 0.5302	0.4882 0.4837	0.4861 0.3846	Ave		0.4950			0.2000	11.4		20.0			
4-Methyl-2-pentanone (MIBK)	0.0839 0.0733	0.0616 0.0761	0.0782 0.0724	0.0729 0.0655	0.0714 0.0575	Ave		0.0713			0.0500	11.0		20.0			
Toluene	2.0320 1.6240	1.4026 1.6356	1.8025 1.3456	1.6842 ++++	1.6209 ++++	Ave		1.6434			0.4000	13.1		20.0			
trans-1,3-Dichloropropene	0.5221 0.4167	0.3534 0.4592	0.4277 0.4413	0.4005 0.4036	0.4109 0.3342	Ave		0.4170			0.0100	12.6		20.0			
Ethyl methacrylate	0.3760 0.3199	0.2804 0.3468	0.3448 0.3249	0.3093 0.3005	0.3131 0.2609	Ave		0.3177			0.1000	10.5		20.0			
1,1,2-Trichloroethane	0.2955 0.2472	0.2068 0.2599	0.2797 0.2470	0.2512 0.2328	0.2470 0.2093	Ave		0.2477			0.1000	11.1		20.0			
Tetrachloroethene	0.5322 0.4685	0.4309 0.5054	0.5145 0.4683	0.4880 0.4301	0.4671 0.3515	Ave		0.4656			0.2000	11.2		20.0			
1,3-Dichloropropane	0.4733 0.4385	0.3940 0.4670	0.4798 0.4427	0.4427 0.4069	0.4215 0.3382	Ave		0.4305			0.1000	9.9		20.0			
2-Hexanone	0.0809 0.0669	0.0621 0.0703	0.0725 0.0669	0.0667 0.0605	0.0670 0.0529	Ave		0.0667			0.0500	11.2		20.0			
n-Butyl acetate	0.3316 0.2589	0.2253 0.2686	0.2678 0.2599	0.2659 0.2207	0.2597 0.1939	Ave		0.2552			0.1000	14.4		20.0			
Dibromochloromethane	0.2610 0.2346	0.2031 0.2614	0.2428 0.2509	0.2313 0.2380	0.2242 0.2152	Lin1	0.0186	0.2290			0.1000				0.9950		0.9900
1,2-Dibromoethane	0.2490 0.2380	0.2057 0.2561	0.2560 0.2492	0.2402 0.2344	0.2231 0.2103	Ave		0.2362			0.1000	7.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 480-117063-1 Analy Batch No.: 415044
SDG No.: _____
Instrument ID: HP39 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 03/16/2017 17:49 Calibration End Date: 03/16/2017 21:43 Calibration ID: 65271

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-Chlorohexane	0.5085 0.4498	0.3795 0.4793	0.4587 0.4467	0.4355 0.3906	0.4217 0.3100	Ave		0.4280			0.1000	13.2		20.0			
Chlorobenzene	1.2942 1.0935	0.9830 1.1568	1.2083 1.0148	1.1193 0.8088	1.0795 +++++	Ave		1.0842			0.5000	12.9		20.0			
Ethylbenzene	2.0692 1.7986	1.6234 1.8091	1.9650 1.4584	1.8444 +++++	1.7951 +++++	Ave		1.7954			0.1000	10.5		20.0			
1,1,1,2-Tetrachloroethane	0.3915 0.3927	0.3053 0.4244	0.3975 0.4070	0.3798 0.3737	0.3711 0.3115	Ave		0.3754			0.1000	10.3		20.0			
m-Xylene & p-Xylene	1.5562 1.3907	1.2138 1.4508	1.4542 1.2277	1.4036 +++++	1.3457 +++++	Ave		1.3803			0.1000	8.4		20.0			
o-Xylene	1.5867 1.4196	1.2507 1.4618	1.5031 1.2461	1.4131 +++++	1.3842 +++++	Ave		1.4082			0.3000	8.3		20.0			
Styrene	1.3161 1.2183	1.0101 1.2919	1.2467 1.1375	1.1835 0.8710	1.1705 +++++	Ave		1.1606			0.3000	12.2		20.0			
Bromoform	0.2120 0.1802	0.1463 0.2068	0.1836 0.2044	0.1706 0.1945	0.1693 0.1785	Ave		0.1846			0.0100	11.0		20.0			
Isopropylbenzene	1.8771 1.8198	1.4703 1.8587	1.8383 1.5155	1.8022 +++++	1.7681 +++++	Ave		1.7437			0.1000	9.1		20.0			
Cyclohexanone	+++++ 0.0044	+++++ 0.0045	+++++ 0.0047	+++++ +++++	0.0046 +++++	Ave		0.0046			0.0010	5.6		20.0			
Bromobenzene	0.9374 0.8355	0.6960 0.8528	0.9187 0.8077	0.8458 0.7308	0.8155 0.6100	Ave		0.8050			0.1000	12.5		20.0			
1,1,2,2-Tetrachloroethane	0.5112 0.4358	0.3918 0.4547	0.4625 0.4381	0.4388 0.4131	0.4307 0.3848	Ave		0.4362			0.3000	8.3		20.0			
N-Propylbenzene	3.8546 3.6533	3.2398 3.4885	3.9768 2.7756	3.6843 +++++	3.5960 +++++	Ave		3.5336			0.1000	10.7		20.0			
trans-1,4-Dichloro-2-butene	0.1248 0.1116	0.0960 0.1189	0.1018 0.1223	0.0890 0.1194	0.0981 0.1212	Ave		0.1103			0.1000	11.7		20.0			
1,2,3-Trichloropropane	0.1821 0.1462	0.1675 0.1488	0.1576 0.1456	0.1527 0.1370	0.1374 0.1354	Ave		0.1510			0.1000	9.8		20.0			
2-Chlorotoluene	2.5203 2.4979	2.2237 2.4798	2.7434 2.1586	2.5522 +++++	2.4779 +++++	Ave		2.4567			0.1000	7.6		20.0			
1,3,5-Trimethylbenzene	2.6599 2.6856	2.3084 2.6570	2.7602 2.2262	2.5972 +++++	2.5737 +++++	Ave		2.5585			0.1000	7.4		20.0			
4-Chlorotoluene	2.3884 2.2128	2.0659 2.2659	2.4742 1.9772	2.2040 +++++	2.1677 +++++	Ave		2.2195			0.1000	7.2		20.0			
tert-Butylbenzene	2.3694 2.3690	1.9734 2.4020	2.4242 2.1012	2.3132 1.5929	2.2612 +++++	Ave		2.2007			0.1000	12.4		20.0			
1,2,4-Trimethylbenzene	2.7452 2.6260	2.2950 2.6532	2.7989 2.2309	2.5493 +++++	2.5700 +++++	Ave		2.5586			0.1000	7.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Nashville Job No.: 480-117063-1 Analy Batch No.: 415044
SDG No.: _____
Instrument ID: HP39 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 03/16/2017 17:49 Calibration End Date: 03/16/2017 21:43 Calibration ID: 65271

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								
sec-Butylbenzene	2.9804 3.1408	2.6240 3.1914	3.0385 2.6277	3.0543 ++++	3.0381 ++++	Ave		2.9619			0.1000	7.3		20.0			
4-Isopropyltoluene	2.6044 2.8015	2.3043 2.8818	2.5472 2.4028	2.6205 ++++	2.6531 ++++	Ave		2.6020			0.1000	7.3		20.0			
1,3-Dichlorobenzene	1.6566 1.5625	1.3617 1.6391	1.6097 1.4884	1.4915 1.2334	1.5250 ++++	Ave		1.5075			0.6000	9.1		20.0			
1,4-Dichlorobenzene	1.7366 1.5674	1.3374 1.6413	1.6499 1.4819	1.5406 1.2074	1.5215 ++++	Ave		1.5205			0.5000	10.7		20.0			
1,2,3-Trimethylbenzene	2.5949 2.6058	2.1428 2.6240	2.7483 2.2293	2.4878 ++++	2.5204 ++++	Ave		2.4942			0.1000	8.3		20.0			
Benzyl chloride	++++ 0.3700	++++ 0.4663	++++ 0.4779	++++ 0.4319	0.2993 ++++	Lin2	-1.778	0.4749			0.0100				0.9950		0.9900
n-Butylbenzene	1.7591 2.1888	1.4972 2.3073	1.9511 1.9665	1.9307 ++++	2.0371 ++++	Ave		1.9547			0.1000	12.7		20.0			
1,2-Dichlorobenzene	1.3838 1.3581	1.1145 1.4231	1.3820 1.3017	1.3068 1.1073	1.2863 ++++	Ave		1.2960			0.4000	8.8		20.0			
1,2-Dibromo-3-Chloropropane	0.0488 0.0798	0.0607 0.0910	0.0802 0.0943	0.0686 0.0908	0.0702 0.0902	Lin1	-0.034	0.0906			0.0100				0.9990		0.9900
1,3,5-Trichlorobenzene	0.8556 0.9300	0.6880 1.0266	0.8556 0.9768	0.8021 0.8811	0.8277 0.7274	Ave		0.8571			0.1000	12.2		20.0			
1,2,4-Trichlorobenzene	0.6994 0.7191	0.5107 0.8191	0.6746 0.7971	0.6339 0.7288	0.6495 0.6117	Ave		0.6844			0.2000	13.2		20.0			
Hexachlorobutadiene	0.3001 0.3537	0.2903 0.3892	0.3453 0.3686	0.3288 0.3535	0.3315 0.3279	Ave		0.3389			0.1000	8.8		20.0			
Naphthalene	1.3491 1.3333	1.0774 1.5173	1.1886 1.4198	1.1453 1.2256	1.1832 0.9094	Ave		1.2349			0.0100	14.3		20.0			
1,2,3-Trichlorobenzene	0.6065 0.6135	0.4455 0.6825	0.5385 0.6682	0.5511 0.6121	0.5571 0.5309	Ave		0.5806			0.1000	12.1		20.0			
2-Methylnaphthalene	++++ 0.6790	0.6643 0.8314	0.6236 0.8421	0.5573 0.7956	0.5925 0.6766	Ave		0.6958			0.0100	14.9		20.0			
1-Methylnaphthalene	++++ 0.5250	0.4563 0.6232	0.4919 0.6221	0.4259 0.5986	0.4603 0.5412	Ave		0.5271			0.1000	14.2		20.0			
Dibromofluoromethane (Surr)	0.2364 0.2371	0.2354 0.2357	0.2376 0.2404	0.2308 0.2358	0.2373 0.2371	Ave		0.2364				1.0		20.0			
1,2-Dichloroethane-d4 (Surr)	0.2065 0.2131	0.2126 0.2034	0.2123 0.1955	0.2136 0.2202	0.2107 0.2346	Ave		0.2122				4.9		20.0			
Toluene-d8 (Surr)	1.2328 1.2461	1.2077 1.2392	1.2500 1.2170	1.2255 1.2386	1.2428 1.2282	Ave		1.2328				1.1		20.0			
4-Bromofluorobenzene (Surr)	0.8138 0.7951	0.8170 0.7699	0.8200 0.7689	0.7985 0.7708	0.7973 0.8128	Ave		0.7964				2.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 480-117063-1 Analy Batch No.: 415044

SDG No.: _____

Instrument ID: HP39 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/16/2017 17:49 Calibration End Date: 03/16/2017 21:43 Calibration ID: 65271

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 490-415044/5	03161705.D
Level 2	STD 490-415044/6	03161706.D
Level 3	STD 490-415044/7	03161707.D
Level 4	STD 490-415044/8	03161708.D
Level 5	STD 490-415044/9	03161709.D
Level 6	STD 490-415044/10	03161710.D
Level 7	ICIS 490-415044/11	03161711.D
Level 8	STD 490-415044/12	03161712.D
Level 9	STD 490-415044/13	03161713.D
Level 10	STD 490-415044/14	03161714.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	7830 249402	10905 660427	26148 1292078	57136 2434225	122432 4392626	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Chloromethane	FB	Lin2	3392 215117	8544 629916	22553 1364165	50847 2739183	105023 5375649	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Vinyl chloride	FB	Ave	7870 273759	12974 756740	30715 1476128	67809 2773283	133273 4891683	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Butadiene	FB	Lin1	9291 259240	12121 730306	28884 1428269	66654 2723394	126719 +++++	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
Bromomethane	FB	Qual	2148 140374	3239 447008	8594 +++++	22251 +++++	43017 +++++	0.500 20.0	1.00 50.0	2.00 +++++	5.00 +++++	10.0 +++++
Chloroethane	FB	Ave	6177 183647	9502 474218	20989 989019	47141 1924298	92674 3090595	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Dichlorofluoromethane	FB	Ave	13265 440915	20364 1131159	51930 2221887	109970 4165292	221136 7558175	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Trichlorofluoromethane	FB	Ave	10483 360183	16383 994297	39192 1963126	75622 3827214	185036 7307416	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Ethanol	FB	Ave	+++++ 18910	918 49457	1775 107518	5344 219030	10332 427644	+++++ 800	40.0 2000	80.0 4000	200 8000	400 16000
Ethyl ether	FB	Ave	4277 139466	6952 372309	14675 726618	33632 1426122	66993 3002207	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	6557 212183	10496 556940	24047 1090170	54227 2096014	108467 4411547	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Acrolein	FB	Ave	+++++ 29509	1790 84632	3881 172018	7631 368096	15113 794750	+++++ 49.4	2.47 123	4.94 247	12.3 494	24.7 988
1,1-Dichloroethene	FB	Ave	7676 224719	11254 607038	23455 1184988	56629 2329752	107500 4489257	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Acetone	FB	Lin2	+++++ 49498	3389 124445	6140 258381	12183 481951	25994 1019205	+++++ 100	5.00 250	10.0 500	25.0 1000	50.0 2000

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 480-117063-1 Analy Batch No.: 415044

SDG No.: _____

Instrument ID: HP39 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/16/2017 17:49 Calibration End Date: 03/16/2017 21:43 Calibration ID: 65271

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	Lin1	6383 346177	12007 851383	29054 ++++	87875 ++++	166911 ++++	0.500 20.0	1.00 50.0	2.00 ++++	5.00 ++++	10.0 ++++
Isopropyl alcohol	FB	Lin2	++++ 56403	4074 146342	6931 304301	14072 596188	27026 1273519	++++ 200	10.0 500	20.0 1000	50.0 2000	100 4000
Carbon disulfide	FB	Lin2	24849 641004	33208 1636661	73773 3154998	165338 ++++	315182 ++++	0.500 20.0	1.00 50.0	2.00 100	5.00 ++++	10.0 ++++
3-Chloro-1-propene	FB	Lin2	6141 192157	9861 524158	21304 1002162	40927 2165108	97517 4481273	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Methyl acetate	FB	Ave	++++ 171149	9482 476903	20034 929902	45779 1754855	83455 3243027	++++ 40.0	2.00 100	4.00 200	10.0 400	20.0 800
Acetonitrile	FB	Ave	++++ 107355	++++ 282840	13173 577140	27728 1089900	54034 2159971	++++ 200	++++ 500	20.0 1000	50.0 2000	100 4000
Methylene Chloride	FB	Lin2	++++ 246675	++++ 632020	34600 1239571	70349 2373193	125694 4634374	++++ 20.0	++++ 50.0	2.00 100	5.00 200	10.0 400
2-Methyl-2-propanol	FB	Ave	2951 89661	4722 233008	10335 472308	22375 976841	44965 1893995	5.00 200	10.0 500	20.0 1000	50.0 2000	100 4000
Methyl tert-butyl ether	FB	Ave	13202 448148	21371 1174915	48953 2279867	107541 4178621	223327 ++++	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 ++++
trans-1,2-Dichloroethene	FB	Ave	10147 288041	14843 786242	34290 1601390	73665 3153930	144095 5818643	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Acrylonitrile	FB	Ave	14405 419862	20518 1113837	49278 2163359	104147 3922334	213705 ++++	5.00 200	10.0 500	20.0 1000	50.0 2000	100 ++++
n-Hexane	FB	Ave	9733 311045	14242 816263	31912 1602135	76373 3084826	153155 5161262	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Isopropyl ether	FB	Ave	21530 687921	34264 1741653	77692 3275633	170330 5466692	340976 ++++	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 ++++
1,1-Dichloroethane	FB	Ave	12602 422912	19034 1123344	47991 2222572	105549 4312007	210354 7873159	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Vinyl acetate	FB	Ave	++++ 60641	++++ 175899	++++ 382398	12724 796880	26389 1624580	++++ 40.0	++++ 100	++++ 200	10.0 400	20.0 800
2-Chloro-1,3-butadiene	FB	Ave	10582 328185	15459 868824	37319 1689861	83905 3134517	162398 5135385	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Tert-butyl ethyl ether	FB	Ave	16915 603365	26724 1568126	65638 2992168	149131 5261909	288661 ++++	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 ++++
2,2-Dichloropropane	FB	Ave	11810 337685	15216 896940	37515 1771598	83204 3356757	172815 ++++	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 ++++
cis-1,2-Dichloroethene	FB	Ave	9379 278474	12721 732171	30792 1456665	65913 2833482	137510 5412195	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Ethyl acetate	FB	Ave	++++ 28311	1624 74502	3258 153174	7590 308945	14051 640253	++++ 40.0	2.00 100	4.00 200	10.0 400	20.0 800
2-Butanone (MEK)	FB	Ave	2273 69863	3542 178275	7890 373509	16967 743225	32930 1521352	2.50 100	5.00 250	10.0 500	25.0 1000	50.0 2000

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 480-117063-1 Analy Batch No.: 415044

SDG No.: _____

Instrument ID: HP39 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/16/2017 17:49 Calibration End Date: 03/16/2017 21:43 Calibration ID: 65271

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	5086 162431	7436 425243	17873 848358	39513 1657378	81048 3241737	5.00 200	10.0 500	20.0 1000	50.0 2000	100 4000
Methacrylonitrile	FB	Ave	23036 761544	36849 1889786	87253 3466605	186655 +++++	377805 +++++	5.00 200	10.0 500	20.0 1000	50.0 +++++	100 +++++
Chlorobromomethane	FB	Ave	4965 151629	6125 402203	16374 800912	37294 1581516	73096 3155849	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Tetrahydrofuran	FB	Ave	+++++ 85545	4992 229279	9456 465649	21355 919600	44566 1810828	+++++ 40.0	2.00 100	4.00 200	10.0 400	20.0 800
Chloroform	FB	Ave	12266 391807	18972 1012273	41291 1980773	97734 3858029	191960 6812137	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,1,1-Trichloroethane	FB	Ave	10189 349688	15950 910466	37279 1800275	85813 3388498	174086 5675450	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Cyclohexane	FB	Ave	11880 400436	17532 1016899	43769 2070520	99795 3912198	190207 6418709	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Carbon tetrachloride	FB	Ave	9021 310280	13865 826785	32578 1658384	77934 3169656	155148 5365357	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,1-Dichloropropene	FB	Ave	10086 327129	15556 861398	34193 1698190	80341 3187020	162857 5292497	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Isobutyl alcohol	FB	Ave	+++++ 225352	+++++ 589821	24671 1172211	56184 2350896	113963 4201115	+++++ 500	+++++ 1250	50.0 2500	125 5000	250 10000
Benzene	FB	Ave	29469 1004294	44574 2522489	107568 4549947	256009 +++++	490390 +++++	0.500 20.0	1.00 50.0	2.00 100	5.00 +++++	10.0 +++++
t-Amyl alcohol	FB	Lin2	3945 94537	5336 232026	11219 491865	22896 977720	46977 2031305	5.00 200	10.0 500	20.0 1000	50.0 2000	100 4000
Tert-amyl methyl ether	FB	Ave	18419 617214	27505 1575432	65589 3052668	140978 5408194	298389 +++++	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
1,2-Dichloroethane	FB	Ave	7622 236793	11492 607466	25453 1182499	60489 2285615	115060 4185797	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
n-Heptane	FB	Ave	7710 269084	12090 682905	25014 1366526	60644 2740361	128622 5031680	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
n-Butanol	FB	Ave	2245 66897	4454 177379	7360 372627	17345 754847	34597 1446485	12.5 500	25.0 1250	50.0 2500	125 5000	250 10000
Trichloroethene	FB	Ave	9467 289664	12231 766086	32700 1498950	74007 2829537	143438 4968997	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Ethyl acrylate	FB	Ave	5162 166499	8781 473671	15973 904648	41138 1691597	86919 3377127	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Methylcyclohexane	FB	Ave	12030 445849	18534 1176471	46126 2270961	106437 4242590	214104 6825267	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,2-Dichloropropane	FB	Ave	6939 243804	11213 620436	25604 1251517	59587 2398983	119417 4314253	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Methyl methacrylate	FB	Ave	6235 259517	10899 731041	27179 1377448	65751 2719707	138834 4717975	1.00 40.0	2.00 100	4.00 200	10.0 400	20.0 800

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 480-117063-1 Analy Batch No.: 415044

SDG No.: _____

Instrument ID: HP39 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/16/2017 17:49 Calibration End Date: 03/16/2017 21:43 Calibration ID: 65271

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
Dibromomethane	FB	Lin2	3745 112419	5149 291016	12087 581502	27578 1107188	55001 ++++	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 ++++
1,4-Dioxane	FB	Ave	++++ 23269	++++ 56578	3054 127128	5754 258505	11466 534795	++++ 400	++++ 1000	40.0 2000	100 4000	200 8000
Bromodichloromethane	FB	Ave	8637 295240	14044 778431	30647 1536974	72571 2928505	145494 5074696	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
2-Chloroethyl vinyl ether	CBNZ d5	Ave	++++ 85822	++++ 245227	6893 535013	18163 1077404	38095 2135864	++++ 20.0	++++ 50.0	2.00 100	5.00 200	10.0 400
2-Nitropropane	FB	Ave	++++ 93527	++++ 282838	8016 634089	17871 1287990	40940 2592311	++++ 40.0	++++ 100	4.00 200	10.0 400	20.0 800
cis-1,3-Dichloropropene	CBNZ d5	Ave	9834 344326	14711 916682	35237 1825120	81174 3458172	165135 5769213	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	7314 248875	10734 626197	26162 1245886	60566 2340122	121211 4313994	2.50 100	5.00 250	10.0 500	25.0 1000	50.0 2000
Toluene	CBNZ d5	Ave	35429 1102256	48844 2690622	120626 4632114	280031 ++++	550705 ++++	0.500 20.0	1.00 50.0	2.00 100	5.00 ++++	10.0 ++++
trans-1,3-Dichloropropene	CBNZ d5	Ave	9103 282862	12308 755358	28624 1519042	66595 2885673	139584 5013775	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Ethyl methacrylate	CBNZ d5	Ave	6556 217100	9765 570553	23073 1118440	51433 2148152	106384 3913767	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,1,2-Trichloroethane	CBNZ d5	Ave	5153 167818	7203 427562	18716 850430	41773 1664612	83907 3140523	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Tetrachloroethene	CBNZ d5	Ave	9279 317989	15006 831367	34432 1612136	81138 3074781	158680 5273483	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,3-Dichloropropene	CBNZ d5	Ave	8252 297660	13722 768212	32108 1524146	73610 2909208	143207 5074391	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
2-Hexanone	CBNZ d5	Ave	7055 227199	10820 578480	24244 1152363	55470 2163170	113814 3970133	2.50 100	5.00 250	10.0 500	25.0 1000	50.0 2000
n-Butyl acetate	FB	Ave	7303 220394	9787 558979	22572 1138352	55175 2040245	110511 3688774	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Dibromochloromethane	CBNZ d5	Lin1	4550 159202	7072 429970	16248 863863	38451 1701446	76163 3229216	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,2-Dibromoethane	CBNZ d5	Ave	4342 161541	7165 421374	17134 857830	39936 1675636	75785 3155619	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1-Chlorohexane	FB	Ave	11201 382996	16489 997543	38658 1956576	90363 3611537	179446 5897289	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Chlorobenzene	CBNZ d5	Ave	22565 742222	34232 1902960	80862 3493492	186101 5782886	366761 ++++	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 ++++
Ethylbenzene	CBNZ d5	Ave	36079 1220817	56536 2976142	131497 5020746	306681 ++++	609866 ++++	0.500 20.0	1.00 50.0	2.00 100	5.00 ++++	10.0 ++++
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	6826 266513	10631 698227	26603 1400957	63150 2671594	126064 4672804	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 480-117063-1 Analy Batch No.: 415044

SDG No.: _____

Instrument ID: HP39 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/16/2017 17:49 Calibration End Date: 03/16/2017 21:43 Calibration ID: 65271

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
m-Xylene & p-Xylene	CBNZ d5	Ave	27134 943946	42271 2386667	97314 4226281	233377 +++++	457208 +++++	0.500 20.0	1.00 50.0	2.00 100	5.00 +++++	10.0 +++++
o-Xylene	CBNZ d5	Ave	27665 963519	43554 2404848	100587 4289774	234964 +++++	470279 +++++	0.500 20.0	1.00 50.0	2.00 100	5.00 +++++	10.0 +++++
Styrene	CBNZ d5	Ave	22948 826895	35175 2125211	83428 3915867	196783 6227307	397672 +++++	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
Bromoform	CBNZ d5	Ave	3696 122307	5094 340149	12285 703797	28365 1390589	57513 2678034	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Isopropylbenzene	CBNZ d5	Ave	32729 1235212	51202 3057710	123016 5217032	299662 +++++	600695 +++++	0.500 20.0	1.00 50.0	2.00 100	5.00 +++++	10.0 +++++
Cyclohexanone	FB	Ave	+++++ 37094	+++++ 93236	+++++ 207507	10431 +++++	19445 +++++	+++++ 200	+++++ 500	+++++ 1000	50.0 +++++	100 +++++
Bromobenzene	DCBd 4	Ave	8942 324633	13040 850008	33284 1662722	79052 3059365	156939 5182396	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	4877 169324	7341 453206	16755 901949	41010 1729602	82889 3268960	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
N-Propylbenzene	DCBd 4	Ave	36771 1419491	60697 3476949	144080 5713653	344354 +++++	692037 +++++	0.500 20.0	1.00 50.0	2.00 100	5.00 +++++	10.0 +++++
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	1191 43359	1799 118459	3689 251668	8316 499688	18873 1029816	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,2,3-Trichloropropane	DCBd 4	Ave	1737 56825	3138 148353	5710 299765	14273 573735	26433 1150227	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
2-Chlorotoluene	DCBd 4	Ave	24043 970541	41661 2471591	99393 4443517	238544 +++++	476865 +++++	0.500 20.0	1.00 50.0	2.00 100	5.00 +++++	10.0 +++++
1,3,5-Trimethylbenzene	DCBd 4	Ave	25374 1043503	43247 2648138	100002 4582749	242748 +++++	495299 +++++	0.500 20.0	1.00 50.0	2.00 100	5.00 +++++	10.0 +++++
4-Chlorotoluene	DCBd 4	Ave	22784 859766	38705 2258394	89639 4070156	205995 +++++	417163 +++++	0.500 20.0	1.00 50.0	2.00 100	5.00 +++++	10.0 +++++
tert-Butylbenzene	DCBd 4	Ave	22603 920463	36972 2394011	87829 4325504	216205 6668713	435148 +++++	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
1,2,4-Trimethylbenzene	DCBd 4	Ave	26188 1020326	42996 2644419	101403 4592482	238271 +++++	494580 +++++	0.500 20.0	1.00 50.0	2.00 100	5.00 +++++	10.0 +++++
sec-Butylbenzene	DCBd 4	Ave	28432 1220354	49161 3180793	110084 5409290	285470 +++++	584657 +++++	0.500 20.0	1.00 50.0	2.00 100	5.00 +++++	10.0 +++++
4-Isopropyltoluene	DCBd 4	Ave	24845 1088533	43171 2872279	92286 4946224	244925 +++++	510570 +++++	0.500 20.0	1.00 50.0	2.00 100	5.00 +++++	10.0 +++++
1,3-Dichlorobenzene	DCBd 4	Ave	15803 607092	25511 1633653	58318 3063937	139402 5163870	293482 +++++	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
1,4-Dichlorobenzene	DCBd 4	Ave	16566 609022	25057 1635839	59774 3050634	143990 5055016	292811 +++++	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 +++++
1,2,3-Trimethylbenzene	DCBd 4	Ave	24754 1012491	40146 2615314	99569 4589125	232526 +++++	485037 +++++	0.500 20.0	1.00 50.0	2.00 100	5.00 +++++	10.0 +++++

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Nashville Job No.: 480-117063-1 Analy Batch No.: 415044

SDG No.: _____

Instrument ID: HP39 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/16/2017 17:49 Calibration End Date: 03/16/2017 21:43 Calibration ID: 65271

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
Benzyl chloride	CBNZ d5	Lin2	++++ 251166	++++ 767164	++++ 1645278	++++ 3088235	101693 ++++	++++ 20.0	++++ 50.0	++++ 100	++++ 200	10.0 ++++
n-Butylbenzene	DCBd 4	Ave	16781 850466	28049 2299668	70689 4048163	180458 ++++	392036 ++++	0.500 20.0	1.00 50.0	2.00 100	5.00 ++++	10.0 ++++
1,2-Dichlorobenzene	DCBd 4	Ave	13201 527692	20881 1418326	50071 2679596	122145 4635544	247534 ++++	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 ++++
1,2-Dibromo-3-Chloropropane	DCBd 4	Lin1	466 31018	1137 90667	2906 194050	6414 380239	13512 766417	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,3,5-Trichlorobenzene	DCBd 4	Ave	8162 361369	12890 1023154	30997 2010864	74966 3688958	159282 6179174	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,2,4-Trichlorobenzene	DCBd 4	Ave	6672 279419	9567 816403	24441 1640871	59245 3051279	124986 5196749	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Hexachlorobutadiene	DCBd 4	Ave	2863 137422	5439 387938	12511 758858	30732 1480010	63801 2785551	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Naphthalene	DCBd 4	Ave	12870 518038	20185 1512238	43064 2922692	107046 5131005	227703 7725481	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1,2,3-Trichlorobenzene	DCBd 4	Ave	5786 238356	8346 680266	19508 1375463	51512 2562378	107220 4510388	0.500 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
2-Methylnaphthalene	DCBd 4	Ave	++++ 263838	12445 828609	22593 1733513	52084 3330632	114014 5747364	++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
1-Methylnaphthalene	DCBd 4	Ave	++++ 203971	8548 621174	17820 1280591	39809 2505848	88574 4597506	++++ 20.0	1.00 50.0	2.00 100	5.00 200	10.0 400
Dibromofluoromethane (Surr)	FB	Ave	260356 252352	255719 245309	250370 263208	239462 272558	252428 281939	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	227382 226753	230882 211636	223640 214067	221569 254447	224169 278962	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0
Toluene-d8 (Surr)	CBNZ d5	Ave	1074790 1057201	1051486 1019276	1045609 1047367	1018817 1106950	1055556 1151578	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0
4-Bromofluorobenzene (Surr)	DCBd 4	Ave	388156 386188	382669 383692	371336 395722	373180 403359	383601 431544	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
Qual = Quadratic 1/conc ISTD

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161705.D
 Lims ID: STD 0.5
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 16-Mar-2017 17:49:30 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 10.000 mL Dil. Factor: 1.0000
 Sample Info: STD 0.5
 Misc. Info.: 490-0088178-005
 Operator ID: AQS HP-39 Instrument ID: HP39
 Sublist: chrom-8260HP39*sub27
 Method: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\8260HP39.m
 Limit Group: MSV 8260C ICAL
 Method Label: 8260B Volatile Organics 8260/SA/NV05-90
 Last Update: 18-Mar-2017 17:23:39 Calib Date: 16-Mar-2017 21:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161714.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: stvartaka

Date: 17-Mar-2017 10:34:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.365	4.365	0.000	99	1101333	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.787	6.787	0.000	83	871795	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.952	8.946	0.006	93	476980	25.0	25.0	
\$ 4 Dibromofluoromethane (Surr	111	3.921	3.921	0.000	95	260356	25.0	25.0	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.171	4.165	0.006	96	227382	25.0	24.3	
\$ 6 Toluene-d8 (Surr)	98	5.545	5.546	-0.001	92	1074790	25.0	25.0	
\$ 7 4-Bromofluorobenzene (Surr	95	7.851	7.851	0.000	96	388156	25.0	25.5	
9 Propene	41	1.409	1.415	-0.006	99	6602	NC	NC	
10 Dichlorodifluoromethane	85	1.433	1.439	-0.006	98	7830	0.5000	0.6173	
11 Chloromethane	50	1.585	1.591	-0.006	97	3392	0.5000	0.5138	
12 Vinyl chloride	62	1.652	1.658	-0.006	98	7870	0.5000	0.5514	
13 Butadiene	54	1.676	1.683	-0.007	96	9291	0.5000	0.5591	
14 Bromomethane	96	1.895	1.902	-0.007	80	2148	0.5000	0.6188	
15 Chloroethane	64	1.956	1.962	-0.006	98	6177	0.5000	0.6279	
16 Dichlorofluoromethane	67	2.090	2.096	-0.006	97	13265	0.5000	0.5843	
17 Trichlorofluoromethane	101	2.108	2.121	-0.013	94	10483	0.5000	0.5580	
18 Ethanol	46	2.266	2.279	-0.013	72	790	20.0	30.9	
19 Ethyl ether	59	2.285	2.291	-0.006	92	4277	0.5000	0.5819	
21 1,1,2-Trichloro-1,2,2-trif	101	2.419	2.425	-0.006	88	6557	0.5000	0.5802	
20 Acrolein	56	2.425	2.431	-0.006	32	1514	1.23	2.15	
22 1,1-Dichloroethene	96	2.449	2.467	-0.018	96	7676	0.5000	0.6393	
23 Acetone	58	2.516	2.528	-0.012	98	2379	2.50	2.70	
24 Iodomethane	142	2.577	2.589	-0.012	97	6383	0.5000	0.5616	
26 Isopropyl alcohol	45	2.595	2.607	-0.012	53	2794	5.00	5.37	
27 Carbon disulfide	76	2.613	2.626	-0.013	100	24849	0.5000	0.5377	
29 3-Chloro-1-propene	76	2.686	2.699	-0.012	33	6141	0.5000	0.5229	
30 Methyl acetate	43	2.692	2.705	-0.013	85	9515	1.00	2.07	
28 Acetonitrile	40	2.729	2.741	-0.012	85	3986	5.00	6.95	
31 Methylene Chloride	84	2.784	2.796	-0.012	89	16503	0.5000	0.3143	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 2-Methyl-2-propanol	59	2.838	2.857	-0.019	90	2951	5.00	6.04	
35 Methyl tert-butyl ether	73	2.905	2.918	-0.013	95	13202	0.5000	0.5644	
34 trans-1,2-Dichloroethene	61	2.930	2.942	-0.012	96	10147	0.5000	0.6343	
33 Acrylonitrile	53	2.972	2.978	-0.006	100	14405	5.00	6.31	
36 Hexane	57	3.039	3.051	-0.012	91	9733	0.5000	0.6129	
39 Isopropyl ether	45	3.185	3.197	-0.012	97	21530	0.5000	0.6030	
37 1,1-Dichloroethane	63	3.215	3.234	-0.019	95	12602	0.5000	0.5713	
38 Vinyl acetate	86	3.222	3.234	-0.012	90	1534	1.00	0.9062	
40 2-Chloro-1,3-butadiene	53	3.252	3.270	-0.018	98	10582	0.5000	0.6219	
41 Tert-butyl ethyl ether	59	3.416	3.435	-0.019	94	16915	0.5000	0.5509	
43 2,2-Dichloropropane	77	3.580	3.593	-0.013	88	11810	0.5000	0.6462	
42 cis-1,2-Dichloroethene	96	3.599	3.617	-0.018	83	9379	0.5000	0.6399	
45 Ethyl acetate	70	3.611	3.623	-0.012	38	493	1.00	0.6360	
44 2-Butanone (MEK)	72	3.611	3.629	-0.018	96	2273	2.50	3.03	
46 Propionitrile	54	3.702	3.714	-0.012	62	5086	5.00	5.97	
47 Methacrylonitrile	41	3.775	3.787	-0.012	97	23036	5.00	5.72	
48 Chlorobromomethane	130	3.781	3.794	-0.013	51	4965	0.5000	0.6250	
49 Tetrahydrofuran	42	3.793	3.806	-0.013	43	3973	1.00	1.72	
50 Chloroform	83	3.812	3.824	-0.012	91	12266	0.5000	0.6080	
51 1,1,1-Trichloroethane	97	3.909	3.927	-0.018	35	10189	0.5000	0.5755	
52 Cyclohexane	56	3.921	3.940	-0.019	34	11880	0.5000	0.5885	
54 Carbon tetrachloride	117	4.012	4.031	-0.019	90	9021	0.5000	0.5656	
53 1,1-Dichloropropene	75	4.019	4.037	-0.018	97	10086	0.5000	0.6024	
55 Isobutyl alcohol	43	4.256	4.140	0.116	84	9164	12.5	19.6	
56 t-Amyl alcohol	59	4.171	4.189	-0.018	46	3945	5.00	5.31	
57 Benzene	78	4.177	4.195	-0.018	94	29469	0.5000	0.5659	
59 Tert-amyl methyl ether	73	4.201	4.213	-0.012	96	18419	0.5000	0.5887	
58 1,2-Dichloroethane	62	4.225	4.244	-0.019	95	7622	0.5000	0.6220	
60 n-Heptane	43	4.256	4.268	-0.012	92	7710	0.5000	0.5763	
61 n-Butanol	56	4.596	4.609	-0.013	51	2245	12.5	14.8	
62 Trichloroethene	130	4.621	4.645	-0.024	93	9467	0.5000	0.6300	
63 Ethyl acrylate	55	4.682	4.694	-0.012	89	5162	0.5000	0.5805	
64 Methylcyclohexane	83	4.724	4.743	-0.019	85	12030	0.5000	0.5504	
65 1,2-Dichloropropane	63	4.828	4.840	-0.012	89	6939	0.5000	0.5623	
66 Methyl methacrylate	41	4.852	4.870	-0.018	92	6235	1.00	0.9397	
68 1,4-Dioxane	88	4.931	4.949	-0.018	1	772	10.0	12.2	
67 Dibromomethane	93	4.937	4.956	-0.019	85	3745	0.5000	0.5419	
69 Dichlorobromomethane	83	5.028	5.053	-0.025	99	8637	0.5000	0.5723	
70 2-Nitropropane	43	5.229	5.248	-0.019	52	3381	1.00	1.30	
71 2-Chloroethyl vinyl ether	63	5.229	5.248	-0.019	75	1903	0.5000	0.4164	
72 cis-1,3-Dichloropropene	75	5.363	5.381	-0.018	96	9834	0.5000	0.5697	
73 4-Methyl-2-pentanone (MIBK)	58	5.472	5.485	-0.013	94	7314	2.50	2.94	
74 Toluene	91	5.600	5.619	-0.019	98	35429	0.5000	0.6182	
75 trans-1,3-Dichloropropene	75	5.813	5.832	-0.019	93	9103	0.5000	0.6261	
76 Ethyl methacrylate	69	5.819	5.838	-0.019	70	6556	0.5000	0.5918	
77 1,1,2-Trichloroethane	97	5.977	6.002	-0.025	87	5153	0.5000	0.5967	
78 Tetrachloroethene	166	6.038	6.057	-0.019	95	9279	0.5000	0.5715	
79 1,3-Dichloropropane	76	6.123	6.142	-0.019	89	8252	0.5000	0.5497	
80 2-Hexanone	58	6.166	6.166	0.000	96	7055	2.50	3.03	
81 n-Butyl acetate	43	6.221	6.233	-0.012	90	7303	0.5000	0.6495	
82 Chlorodibromomethane	127	6.318	6.343	-0.025	94	4550	0.5000	0.4887	
83 Ethylene Dibromide	107	6.428	6.446	-0.018	99	4342	0.5000	0.5271	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1-Chlorohexane	91	6.732	6.750	-0.018	91	11201	0.5000	0.5940	
85 Chlorobenzene	112	6.811	6.829	-0.018	98	22565	0.5000	0.5968	
87 Ethylbenzene	91	6.866	6.890	-0.024	98	36079	0.5000	0.5763	
86 1,1,1,2-Tetrachloroethane	131	6.884	6.902	-0.018	90	6826	0.5000	0.5214	
88 m-Xylene & p-Xylene	91	6.969	6.987	-0.018	97	27134	0.5000	0.5637	
89 o-Xylene	91	7.340	7.359	-0.019	95	27665	0.5000	0.5634	
90 Styrene	104	7.364	7.383	-0.019	95	22948	0.5000	0.5670	
91 Bromoform	173	7.608	7.620	-0.012	98	3696	0.5000	0.5741	
92 Isopropylbenzene	105	7.656	7.681	-0.025	95	32729	0.5000	0.5382	
93 Cyclohexanone	55	7.851	7.876	-0.025	36	3363	5.00	16.5	
94 Bromobenzene	156	8.003	8.022	-0.019	89	8942	0.5000	0.5822	
95 1,1,2,2-Tetrachloroethane	83	8.028	8.046	-0.018	88	4877	0.5000	0.5861	
98 N-Propylbenzene	91	8.046	8.064	-0.018	98	36771	0.5000	0.5454	
96 1,2,3-Trichloropropane	110	8.070	8.089	-0.019	82	1737	0.5000	0.6028	
97 trans-1,4-Dichloro-2-buten	53	8.070	8.089	-0.019	67	1191	0.5000	0.5659	
100 4-Ethyltoluene	105	8.149	8.168	-0.019	96	31400	NC	NC	
99 2-Chlorotoluene	91	8.161	8.180	-0.019	96	24043	0.5000	0.5129	
101 1,3,5-Trimethylbenzene	105	8.210	8.228	-0.018	96	25374	0.5000	0.5198	
102 4-Chlorotoluene	91	8.265	8.283	-0.018	97	22784	0.5000	0.5380	
103 tert-Butylbenzene	119	8.520	8.539	-0.019	91	22603	0.5000	0.5383	
104 1,2,4-Trimethylbenzene	105	8.569	8.594	-0.025	95	26188	0.5000	0.5365	
106 sec-Butylbenzene	105	8.727	8.746	-0.019	93	28432	0.5000	0.5031	
108 4-Isopropyltoluene	119	8.861	8.879	-0.018	97	24845	0.5000	0.5005	
107 1,3-Dichlorobenzene	146	8.885	8.904	-0.019	96	15803	0.5000	0.5494	
110 Dicyclopentadiene	66	8.952	8.971	-0.019	50	34953	NC	NC	
109 1,4-Dichlorobenzene	146	8.977	8.995	-0.018	91	16566	0.5000	0.5711	
111 1,2,3-Trimethylbenzene	105	8.989	9.013	-0.024	96	24754	0.5000	0.5202	
112 Benzyl chloride	91	9.123	9.141	-0.018	98	3599	0.5000	3.96	
114 n-Butylbenzene	91	9.269	9.281	-0.012	96	16781	0.5000	0.4500	
113 1,2-Dichlorobenzene	146	9.348	9.366	-0.018	96	13201	0.5000	0.5339	
115 1,2-Dibromo-3-Chloropropan	157	10.230	10.260	-0.030	11	466	0.5000	0.6428	
116 1,3,5-Trichlorobenzene	180	10.406	10.431	-0.025	96	8162	0.5000	0.4991	
117 1,2,4-Trichlorobenzene	180	11.142	11.161	-0.019	92	6672	0.5000	0.5110	
118 Hexachlorobutadiene	225	11.264	11.289	-0.025	91	2863	0.5000	0.4428	
119 Naphthalene	128	11.416	11.435	-0.019	96	12870	0.5000	0.5462	
120 1,2,3-Trichlorobenzene	180	11.659	11.678	-0.019	95	5786	0.5000	0.5223	
121 2-Methylnaphthalene	142	12.487	12.505	-0.018	88	9263	0.5000	0.6978	
122 1-Methylnaphthalene	142	12.675	12.688	-0.013	91	6752	0.5000	0.6713	
S 136 1,2-Dichloroethene, Total	1				0			1.27	
S 135 Xylenes, Total	1				0			1.13	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

V1_gases_I_00203

Amount Added: 0.50

Units: uL

V1_Mega_I_00064

Amount Added: 0.50

Units: uL

VOA_ISSS_50_W_00035

Amount Added: 5.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP39\\20170316-88178.b\\03161705.D

Injection Date: 16-Mar-2017 17:49:30

Instrument ID: HP39

Operator ID: AQS HP-39

Lims ID: STD 0.5

Worklist Smp#: 5

Client ID:

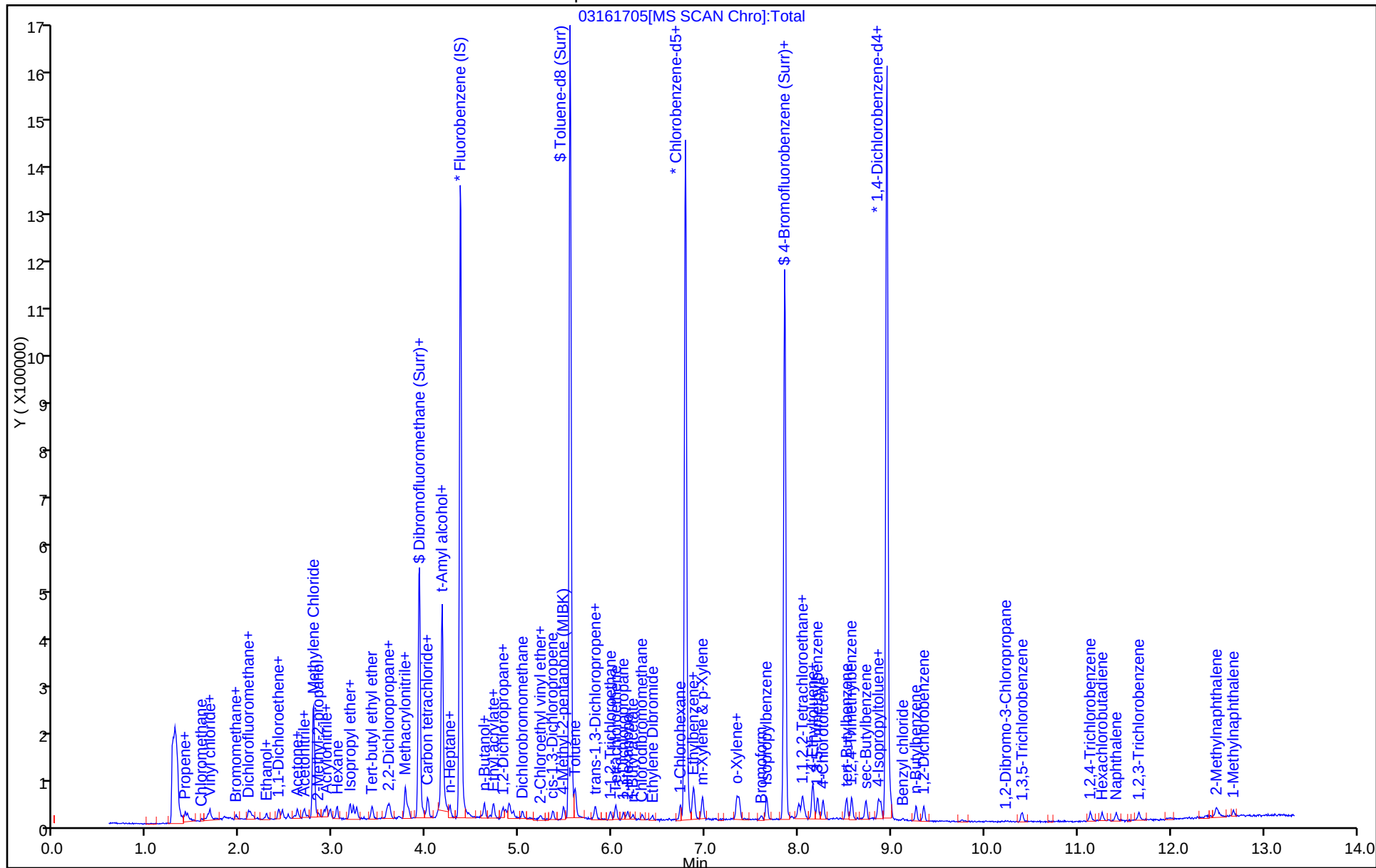
Purge Vol: 10.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 8260HP39

Limit Group: MSV 8260C ICAL



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161706.D
 Lims ID: STD 1.0
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 16-Mar-2017 18:15:30 ALS Bottle#: 6 Worklist Smp#: 6
 Purge Vol: 10.000 mL Dil. Factor: 1.0000
 Sample Info: STD 1.0
 Misc. Info.: 490-0088178-006
 Operator ID: AQS HP-39 Instrument ID: HP39
 Sublist: chrom-8260HP39*sub27
 Method: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\8260HP39.m
 Limit Group: MSV 8260C ICAL
 Method Label: 8260B Volatile Organics 8260/SA/NV05-90
 Last Update: 18-Mar-2017 17:23:41 Calib Date: 16-Mar-2017 21:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161714.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: stvartaka

Date: 17-Mar-2017 10:47:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.371	4.365	0.006	99	1086109	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.787	6.787	0.000	83	870623	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.952	8.946	0.006	93	468373	25.0	25.0	
\$ 4 Dibromofluoromethane (Surr	111	3.927	3.921	0.006	95	255719	25.0	24.9	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.171	4.165	0.006	97	230882	25.0	25.0	
\$ 6 Toluene-d8 (Surr)	98	5.545	5.546	-0.001	92	1051486	25.0	24.5	
\$ 7 4-Bromofluorobenzene (Surr	95	7.857	7.851	0.006	97	382669	25.0	25.6	
9 Propene	41	1.409	1.415	-0.006	95	8130	NC	NC	
10 Dichlorodifluoromethane	85	1.433	1.439	-0.006	98	10905	1.00	0.8718	
11 Chloromethane	50	1.579	1.591	-0.012	99	8544	1.00	0.9382	
12 Vinyl chloride	62	1.652	1.658	-0.006	97	12974	1.00	0.9218	
13 Butadiene	54	1.676	1.683	-0.007	94	12121	1.00	0.7785	
14 Bromomethane	96	1.895	1.902	-0.007	88	3239	1.00	0.8606	
15 Chloroethane	64	1.956	1.962	-0.006	98	9502	1.00	0.9794	
16 Dichlorofluoromethane	67	2.090	2.096	-0.006	97	20364	1.00	0.9096	
17 Trichlorofluoromethane	101	2.108	2.121	-0.013	98	16383	1.00	0.8843	
18 Ethanol	46	2.260	2.279	-0.019	80	918	40.0	36.4	
19 Ethyl ether	59	2.285	2.291	-0.006	88	6952	1.00	0.9591	
21 1,1,2-Trichloro-1,2,2-trif	101	2.412	2.425	-0.013	90	10496	1.00	0.9418	
20 Acrolein	56	2.419	2.431	-0.012	23	1790	2.47	2.57	
22 1,1-Dichloroethene	96	2.455	2.467	-0.012	94	11254	1.00	0.9504	
23 Acetone	58	2.522	2.528	-0.006	100	3389	5.00	4.82	
24 Iodomethane	142	2.577	2.589	-0.012	98	12007	1.00	0.8819	
26 Isopropyl alcohol	45	2.595	2.607	-0.012	95	4074	10.0	9.99	
27 Carbon disulfide	76	2.613	2.626	-0.013	98	33208	1.00	0.8084	
29 3-Chloro-1-propene	76	2.686	2.699	-0.012	33	9861	1.00	0.9065	
30 Methyl acetate	43	2.698	2.705	-0.007	97	9482	2.00	2.09	
28 Acetonitrile	40	2.686	2.741	-0.055	75	2179	10.0	3.85	
31 Methylene Chloride	84	2.784	2.796	-0.012	88	22009	1.00	0.8021	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 2-Methyl-2-propanol	59	2.844	2.857	-0.013	96	4722	10.0	9.80	
35 Methyl tert-butyl ether	73	2.899	2.918	-0.019	94	21371	1.00	0.9265	
34 trans-1,2-Dichloroethene	61	2.930	2.942	-0.012	99	14843	1.00	0.9408	
33 Acrylonitrile	53	2.966	2.978	-0.012	96	20518	10.0	9.12	
36 Hexane	57	3.045	3.051	-0.006	91	14242	1.00	0.9094	
39 Isopropyl ether	45	3.185	3.197	-0.012	95	34264	1.00	0.9731	
38 Vinyl acetate	86	3.222	3.234	-0.012	96	2134	2.00	1.28	
37 1,1-Dichloroethane	63	3.215	3.234	-0.019	95	19034	1.00	0.8750	
40 2-Chloro-1,3-butadiene	53	3.252	3.270	-0.018	97	15459	1.00	0.9212	
41 Tert-butyl ethyl ether	59	3.416	3.435	-0.019	98	26724	1.00	0.8825	
43 2,2-Dichloropropane	77	3.580	3.593	-0.013	84	15216	1.00	0.8442	
42 cis-1,2-Dichloroethene	96	3.599	3.617	-0.018	83	12721	1.00	0.8800	
45 Ethyl acetate	70	3.605	3.623	-0.018	49	1624	2.00	2.12	
44 2-Butanone (MEK)	72	3.623	3.629	-0.006	96	3542	5.00	4.79	
46 Propionitrile	54	3.708	3.714	-0.006	87	7436	10.0	8.85	
47 Methacrylonitrile	41	3.775	3.787	-0.012	97	36849	10.0	9.28	
48 Chlorobromomethane	130	3.775	3.794	-0.019	50	6125	1.00	0.7818	
49 Tetrahydrofuran	42	3.806	3.806	0.000	45	4992	2.00	2.19	
50 Chloroform	83	3.806	3.824	-0.018	90	18972	1.00	0.9535	
51 1,1,1-Trichloroethane	97	3.909	3.927	-0.018	45	15950	1.00	0.9136	
52 Cyclohexane	56	3.921	3.940	-0.019	36	17532	1.00	0.8807	
54 Carbon tetrachloride	117	4.019	4.031	-0.012	91	13865	1.00	0.8815	
53 1,1-Dichloropropene	75	4.025	4.037	-0.012	94	15556	1.00	0.9422	
55 Isobutyl alcohol	43	4.122	4.140	-0.018	65	10795	25.0	23.4	
56 t-Amyl alcohol	59	4.183	4.189	-0.006	48	5336	10.0	8.40	
57 Benzene	78	4.183	4.195	-0.012	94	44574	1.00	0.8679	
59 Tert-amyl methyl ether	73	4.201	4.213	-0.012	99	27505	1.00	0.8914	
58 1,2-Dichloroethane	62	4.225	4.244	-0.019	96	11492	1.00	0.9509	
60 n-Heptane	43	4.256	4.268	-0.012	93	12090	1.00	0.9164	
61 n-Butanol	56	4.596	4.609	-0.013	83	4454	25.0	29.7	
62 Trichloroethene	130	4.627	4.645	-0.018	94	12231	1.00	0.8254	
63 Ethyl acrylate	55	4.682	4.694	-0.012	95	8781	1.00	1.00	
64 Methylcyclohexane	83	4.724	4.743	-0.019	83	18534	1.00	0.8599	
65 1,2-Dichloropropane	63	4.828	4.840	-0.012	88	11213	1.00	0.9214	
66 Methyl methacrylate	41	4.852	4.870	-0.018	86	10899	2.00	1.67	
68 1,4-Dioxane	88	4.931	4.949	-0.018	23	823	20.0	13.1	
67 Dibromomethane	93	4.937	4.956	-0.019	89	5149	1.00	0.8020	
69 Dichlorobromomethane	83	5.034	5.053	-0.019	96	14044	1.00	0.9436	
71 2-Chloroethyl vinyl ether	63	5.229	5.248	-0.019	83	3751	1.00	0.8219	
70 2-Nitropropane	43	5.229	5.248	-0.019	69	3381	2.00	1.32	
72 cis-1,3-Dichloropropene	75	5.363	5.381	-0.018	95	14711	1.00	0.8534	
73 4-Methyl-2-pentanone (MIBK)	58	5.479	5.485	-0.006	96	10734	5.00	4.32	
74 Toluene	91	5.600	5.619	-0.019	97	48844	1.00	0.8534	
75 trans-1,3-Dichloropropene	75	5.819	5.832	-0.013	95	12308	1.00	0.8476	
76 Ethyl methacrylate	69	5.825	5.838	-0.013	80	9765	1.00	0.8827	
77 1,1,2-Trichloroethane	97	5.977	6.002	-0.025	88	7203	1.00	0.8352	
78 Tetrachloroethene	166	6.038	6.057	-0.019	94	15006	1.00	0.9254	
79 1,3-Dichloropropane	76	6.123	6.142	-0.019	90	13722	1.00	0.9153	
80 2-Hexanone	58	6.166	6.166	0.000	97	10820	5.00	4.66	
81 n-Butyl acetate	43	6.227	6.233	-0.006	94	9787	1.00	0.8827	
82 Chlorodibromomethane	127	6.318	6.343	-0.025	92	7072	1.00	0.8056	
83 Ethylene Dibromide	107	6.428	6.446	-0.018	98	7165	1.00	0.8710	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1-Chlorohexane	91	6.732	6.750	-0.018	97	16489	1.00	0.8867	
85 Chlorobenzene	112	6.817	6.829	-0.012	98	34232	1.00	0.9066	
87 Ethylbenzene	91	6.872	6.890	-0.018	98	56536	1.00	0.9042	
86 1,1,1,2-Tetrachloroethane	131	6.884	6.902	-0.018	92	10631	1.00	0.8131	
88 m-Xylene & p-Xylene	91	6.969	6.987	-0.018	98	42271	1.00	0.8794	
89 o-Xylene	91	7.340	7.359	-0.019	96	43554	1.00	0.8881	
90 Styrene	104	7.364	7.383	-0.019	94	35175	1.00	0.8703	
91 Bromoform	173	7.602	7.620	-0.018	96	5094	1.00	0.7923	
92 Isopropylbenzene	105	7.663	7.681	-0.018	95	51202	1.00	0.8432	
93 Cyclohexanone	55	7.863	7.876	-0.013	36	3329	10.0	16.5	
94 Bromobenzene	156	8.009	8.022	-0.013	91	13040	1.00	0.8646	
95 1,1,2,2-Tetrachloroethane	83	8.021	8.046	-0.025	94	7341	1.00	0.8984	
98 N-Propylbenzene	91	8.046	8.064	-0.018	98	60697	1.00	0.9168	
97 trans-1,4-Dichloro-2-buten	53	8.076	8.089	-0.013	63	1799	1.00	0.8706	
96 1,2,3-Trichloropropane	110	8.070	8.089	-0.019	82	3138	1.00	1.11	
100 4-Ethyltoluene	105	8.155	8.168	-0.013	96	51523	NC	NC	
99 2-Chlorotoluene	91	8.161	8.180	-0.019	97	41661	1.00	0.9051	
101 1,3,5-Trimethylbenzene	105	8.210	8.228	-0.018	94	43247	1.00	0.9022	
102 4-Chlorotoluene	91	8.265	8.283	-0.018	97	38705	1.00	0.9308	
103 tert-Butylbenzene	119	8.520	8.539	-0.019	91	36972	1.00	0.8967	
104 1,2,4-Trimethylbenzene	105	8.575	8.594	-0.019	96	42996	1.00	0.8970	
106 sec-Butylbenzene	105	8.727	8.746	-0.019	93	49161	1.00	0.8859	
108 4-Isopropyltoluene	119	8.861	8.879	-0.018	97	43171	1.00	0.8856	
107 1,3-Dichlorobenzene	146	8.885	8.904	-0.019	97	25511	1.00	0.9032	
110 Dicyclopentadiene	66	8.952	8.971	-0.019	48	53678	NC	NC	
109 1,4-Dichlorobenzene	146	8.977	8.995	-0.018	93	25057	1.00	0.8796	
111 1,2,3-Trimethylbenzene	105	8.995	9.013	-0.018	96	40146	1.00	0.8591	
112 Benzyl chloride	91	9.123	9.141	-0.018	99	6026	1.00	4.11	
114 n-Butylbenzene	91	9.269	9.281	-0.012	97	28049	1.00	0.7659	
113 1,2-Dichlorobenzene	146	9.354	9.366	-0.012	98	20881	1.00	0.8600	
115 1,2-Dibromo-3-Chloropropan	157	10.236	10.260	-0.024	25	1137	1.00	1.04	
116 1,3,5-Trichlorobenzene	180	10.406	10.431	-0.025	96	12890	1.00	0.8027	
117 1,2,4-Trichlorobenzene	180	11.142	11.161	-0.019	93	9567	1.00	0.7461	
118 Hexachlorobutadiene	225	11.264	11.289	-0.025	91	5439	1.00	0.8566	
119 Naphthalene	128	11.416	11.435	-0.019	96	20185	1.00	0.8725	
120 1,2,3-Trichlorobenzene	180	11.659	11.678	-0.019	96	8346	1.00	0.7673	
121 2-Methylnaphthalene	142	12.499	12.505	-0.006	93	12445	1.00	0.9547	
122 1-Methylnaphthalene	142	12.675	12.688	-0.013	94	8548	1.00	0.8655	
S 135 Xylenes, Total	1				0			1.77	
S 136 1,2-Dichloroethene, Total	1				0			1.82	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

V1_gases_I_00203

Amount Added: 1.00

Units: uL

V1_Mega_I_00064

Amount Added: 1.00

Units: uL

VOA_ISSS_50_W_00035

Amount Added: 5.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP39\\20170316-88178.b\\03161706.D

Injection Date: 16-Mar-2017 18:15:30

Instrument ID: HP39

Operator ID: AQS HP-39

Lims ID: STD 1.0

Worklist Smp#: 6

Client ID:

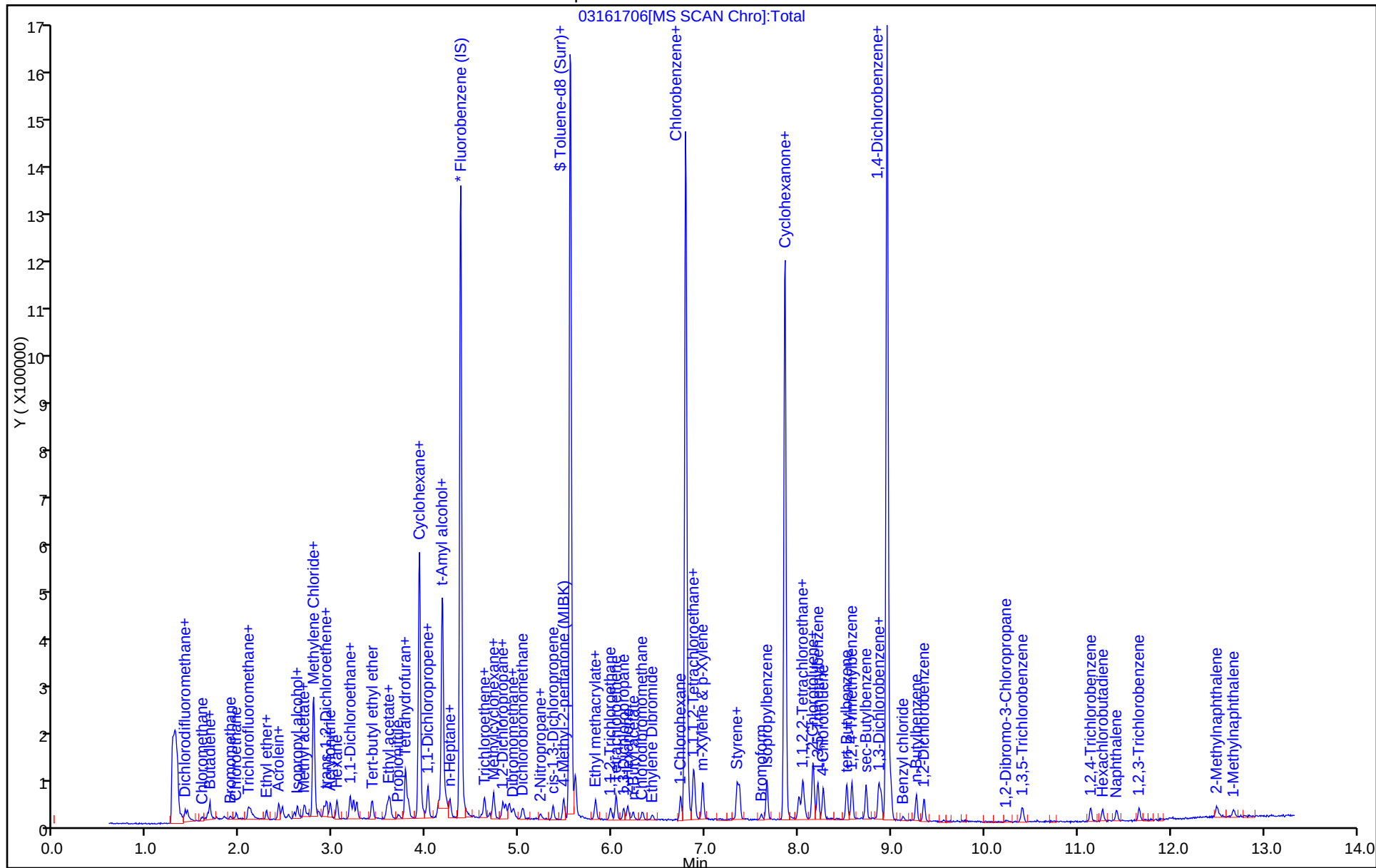
Purge Vol: 10.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 8260HP39

Limit Group: MSV 8260C ICAL



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161707.D
 Lims ID: STD 2.0
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 16-Mar-2017 18:41:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 10.000 mL Dil. Factor: 1.0000
 Sample Info: STD 2.0
 Misc. Info.: 490-0088178-007
 Operator ID: AQS HP-39 Instrument ID: HP39
 Sublist: chrom-8260HP39*sub27
 Method: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\8260HP39.m
 Limit Group: MSV 8260C ICAL
 Method Label: 8260B Volatile Organics 8260/SA/NV05-90
 Last Update: 18-Mar-2017 17:23:44 Calib Date: 16-Mar-2017 21:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161714.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: himelickm

Date: 18-Mar-2017 14:26:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.371	4.365	0.006	99	1053556	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.793	6.787	0.006	83	836497	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.958	8.946	0.012	94	452872	25.0	25.0	
\$ 4 Dibromofluoromethane (Surr	111	3.927	3.921	0.006	96	250370	25.0	25.1	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.177	4.165	0.012	97	223640	25.0	25.0	
\$ 6 Toluene-d8 (Surr)	98	5.552	5.546	0.006	92	1045609	25.0	25.3	
\$ 7 4-Bromofluorobenzene (Surr	95	7.857	7.851	0.006	96	371336	25.0	25.7	
9 Propene	41	1.409	1.415	-0.006	99	22351	NC	NC	
10 Dichlorodifluoromethane	85	1.433	1.439	-0.006	99	26148	2.00	2.15	
11 Chloromethane	50	1.591	1.591	0.000	98	22553	2.00	2.14	
12 Vinyl chloride	62	1.652	1.658	-0.006	97	30715	2.00	2.25	
13 Butadiene	54	1.676	1.683	-0.007	98	28884	2.00	2.09	
14 Bromomethane	96	1.895	1.902	-0.007	87	8594	2.00	2.04	
15 Chloroethane	64	1.962	1.962	0.000	99	20989	2.00	2.23	
16 Dichlorofluoromethane	67	2.090	2.096	-0.006	98	51930	2.00	2.39	
17 Trichlorofluoromethane	101	2.114	2.121	-0.007	98	39192	2.00	2.18	
18 Ethanol	46	2.266	2.279	-0.013	93	1775	80.0	72.6	
19 Ethyl ether	59	2.291	2.291	0.000	88	14675	2.00	2.09	
21 1,1,2-Trichloro-1,2,2-trif	101	2.418	2.425	-0.007	89	24047	2.00	2.22	
20 Acrolein	56	2.425	2.431	-0.006	30	3881	4.94	5.75	
22 1,1-Dichloroethene	96	2.455	2.467	-0.012	96	23455	2.00	2.04	
23 Acetone	58	2.516	2.528	-0.012	100	6140	10.0	10.8	
24 Iodomethane	142	2.583	2.589	-0.006	96	29054	2.00	1.89	
26 Isopropyl alcohol	45	2.601	2.607	-0.006	95	6931	20.0	20.7	
27 Carbon disulfide	76	2.619	2.626	-0.007	98	73773	2.00	2.14	
29 3-Chloro-1-propene	76	2.692	2.699	-0.006	36	21304	2.00	2.13	
30 Methyl acetate	43	2.698	2.705	-0.007	86	20034	4.00	4.56	
28 Acetonitrile	40	2.729	2.741	-0.012	93	13173	20.0	24.0	
31 Methylene Chloride	84	2.783	2.796	-0.013	91	34600	2.00	1.96	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 2-Methyl-2-propanol	59	2.844	2.857	-0.013	99	10335	20.0	22.1	
35 Methyl tert-butyl ether	73	2.905	2.918	-0.013	95	48953	2.00	2.19	
34 trans-1,2-Dichloroethene	61	2.929	2.942	-0.013	98	34290	2.00	2.24	
33 Acrylonitrile	53	2.972	2.978	-0.006	98	49278	20.0	22.6	
36 Hexane	57	3.045	3.051	-0.006	92	31912	2.00	2.10	
39 Isopropyl ether	45	3.185	3.197	-0.012	95	77692	2.00	2.27	
37 1,1-Dichloroethane	63	3.222	3.234	-0.012	96	47991	2.00	2.27	
38 Vinyl acetate	86	3.215	3.234	-0.019	83	5356	4.00	3.31	
40 2-Chloro-1,3-butadiene	53	3.258	3.270	-0.012	99	37319	2.00	2.29	
41 Tert-butyl ethyl ether	59	3.422	3.435	-0.013	97	65638	2.00	2.23	
43 2,2-Dichloropropane	77	3.580	3.593	-0.013	90	37515	2.00	2.15	
42 cis-1,2-Dichloroethene	96	3.599	3.617	-0.018	82	30792	2.00	2.20	
45 Ethyl acetate	70	3.611	3.623	-0.012	49	3258	4.00	4.39	
44 2-Butanone (MEK)	72	3.623	3.629	-0.006	96	7890	10.0	11.0	
46 Propionitrile	54	3.708	3.714	-0.006	87	17873	20.0	21.9	
47 Methacrylonitrile	41	3.775	3.787	-0.012	98	87253	20.0	22.7	
48 Chlorobromomethane	130	3.781	3.794	-0.013	50	16374	2.00	2.15	
49 Tetrahydrofuran	42	3.799	3.806	-0.007	47	9456	4.00	4.27	
50 Chloroform	83	3.812	3.824	-0.012	95	41291	2.00	2.14	
51 1,1,1-Trichloroethane	97	3.915	3.927	-0.012	97	37279	2.00	2.20	
52 Cyclohexane	56	3.927	3.940	-0.013	89	43769	2.00	2.27	
54 Carbon tetrachloride	117	4.018	4.031	-0.013	97	32578	2.00	2.14	
53 1,1-Dichloropropene	75	4.018	4.037	-0.019	96	34193	2.00	2.13	
55 Isobutyl alcohol	43	4.128	4.140	-0.012	54	24671	50.0	55.2	
56 t-Amyl alcohol	59	4.183	4.189	-0.006	48	11219	20.0	21.7	
57 Benzene	78	4.183	4.195	-0.012	95	107568	2.00	2.16	
59 Tert-amyl methyl ether	73	4.201	4.213	-0.012	99	65589	2.00	2.19	
58 1,2-Dichloroethane	62	4.225	4.244	-0.019	96	25453	2.00	2.17	
60 n-Heptane	43	4.262	4.268	-0.006	94	25014	2.00	1.95	
61 n-Butanol	56	4.602	4.609	-0.007	92	7360	50.0	50.6	
62 Trichloroethene	130	4.627	4.645	-0.018	95	32700	2.00	2.27	
63 Ethyl acrylate	55	4.688	4.694	-0.006	98	15973	2.00	1.88	
64 Methylcyclohexane	83	4.724	4.743	-0.019	84	46126	2.00	2.21	
65 1,2-Dichloropropane	63	4.828	4.840	-0.012	91	25604	2.00	2.17	
66 Methyl methacrylate	41	4.852	4.870	-0.018	91	27179	4.00	4.28	
68 1,4-Dioxane	88	4.937	4.949	-0.012	31	3054	40.0	50.3	
67 Dibromomethane	93	4.937	4.956	-0.019	88	12087	2.00	2.11	
69 Dichlorobromomethane	83	5.040	5.053	-0.013	100	30647	2.00	2.12	
70 2-Nitropropane	43	5.235	5.248	-0.013	70	8016	4.00	3.23	
71 2-Chloroethyl vinyl ether	63	5.235	5.248	-0.013	88	6893	2.00	1.57	
72 cis-1,3-Dichloropropene	75	5.363	5.381	-0.018	96	35237	2.00	2.13	
73 4-Methyl-2-pentanone (MIBK)	58	5.479	5.485	-0.007	96	26162	10.0	11.0	
74 Toluene	91	5.606	5.619	-0.013	98	120626	2.00	2.19	
75 trans-1,3-Dichloropropene	75	5.819	5.832	-0.013	97	28624	2.00	2.05	
76 Ethyl methacrylate	69	5.825	5.838	-0.013	78	23073	2.00	2.17	
77 1,1,2-Trichloroethane	97	5.983	6.002	-0.019	88	18716	2.00	2.26	
78 Tetrachloroethene	166	6.044	6.057	-0.013	96	34432	2.00	2.21	
79 1,3-Dichloropropane	76	6.123	6.142	-0.019	89	32108	2.00	2.23	
80 2-Hexanone	58	6.166	6.166	0.000	95	24244	10.0	10.9	
81 n-Butyl acetate	43	6.227	6.233	-0.006	98	22572	2.00	2.10	
82 Chlorodibromomethane	127	6.324	6.343	-0.019	90	16248	2.00	2.04	
83 Ethylene Dibromide	107	6.434	6.446	-0.012	96	17134	2.00	2.17	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1-Chlorohexane	91	6.738	6.750	-0.012	95	38658	2.00	2.14	
85 Chlorobenzene	112	6.817	6.829	-0.012	97	80862	2.00	2.23	
87 Ethylbenzene	91	6.872	6.890	-0.018	98	131497	2.00	2.19	
86 1,1,1,2-Tetrachloroethane	131	6.890	6.902	-0.012	93	26603	2.00	2.12	
88 m-Xylene & p-Xylene	91	6.975	6.987	-0.012	99	97314	2.00	2.11	
89 o-Xylene	91	7.346	7.359	-0.013	95	100587	2.00	2.13	
90 Styrene	104	7.371	7.383	-0.013	95	83428	2.00	2.15	
91 Bromoform	173	7.608	7.620	-0.012	97	12285	2.00	1.99	
92 Isopropylbenzene	105	7.663	7.681	-0.018	95	123016	2.00	2.11	
93 Cyclohexanone	55	7.863	7.876	-0.013	36	6800	20.0	34.8	
94 Bromobenzene	156	8.009	8.022	-0.013	88	33284	2.00	2.28	
95 1,1,2,2-Tetrachloroethane	83	8.028	8.046	-0.018	93	16755	2.00	2.12	
98 N-Propylbenzene	91	8.052	8.064	-0.012	98	144080	2.00	2.25	
96 1,2,3-Trichloropropane	110	8.070	8.089	-0.019	82	5710	2.00	2.09	
97 trans-1,4-Dichloro-2-buten	53	8.076	8.089	-0.013	67	3689	2.00	1.85	
100 4-Ethyltoluene	105	8.155	8.168	-0.013	96	121764	NC	NC	
99 2-Chlorotoluene	91	8.167	8.180	-0.013	96	99393	2.00	2.23	
101 1,3,5-Trimethylbenzene	105	8.210	8.228	-0.018	95	100002	2.00	2.16	
102 4-Chlorotoluene	91	8.271	8.283	-0.012	97	89639	2.00	2.23	
103 tert-Butylbenzene	119	8.520	8.539	-0.019	92	87829	2.00	2.20	
104 1,2,4-Trimethylbenzene	105	8.575	8.594	-0.019	97	101403	2.00	2.19	
106 sec-Butylbenzene	105	8.733	8.746	-0.013	93	110084	2.00	2.05	
108 4-Isopropyltoluene	119	8.867	8.879	-0.012	97	92286	2.00	1.96	
107 1,3-Dichlorobenzene	146	8.891	8.904	-0.013	97	58318	2.00	2.14	
110 Dicyclopentadiene	66	8.952	8.971	-0.019	49	118640	NC	NC	
109 1,4-Dichlorobenzene	146	8.977	8.995	-0.018	96	59774	2.00	2.17	
111 1,2,3-Trimethylbenzene	105	8.995	9.013	-0.018	96	99569	2.00	2.20	
112 Benzyl chloride	91	9.129	9.141	-0.012	99	17171	2.00	4.82	
114 n-Butylbenzene	91	9.269	9.281	-0.012	97	70689	2.00	2.00	
113 1,2-Dichlorobenzene	146	9.354	9.366	-0.012	99	50071	2.00	2.13	
115 1,2-Dibromo-3-Chloropropan	157	10.236	10.260	-0.024	88	2906	2.00	2.14	
116 1,3,5-Trichlorobenzene	180	10.412	10.431	-0.019	96	30997	2.00	2.00	
117 1,2,4-Trichlorobenzene	180	11.142	11.161	-0.019	93	24441	2.00	1.97	
118 Hexachlorobutadiene	225	11.270	11.289	-0.019	95	12511	2.00	2.04	
119 Naphthalene	128	11.422	11.435	-0.013	97	43064	2.00	1.93	
120 1,2,3-Trichlorobenzene	180	11.659	11.678	-0.019	92	19508	2.00	1.85	
121 2-Methylnaphthalene	142	12.499	12.505	-0.006	89	22593	2.00	1.79	
122 1-Methylnaphthalene	142	12.675	12.688	-0.013	92	17820	2.00	1.87	
S 136 1,2-Dichloroethene, Total	1				0			4.44	
S 135 Xylenes, Total	1				0			4.24	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

V1_gases_I_00203

Amount Added: 2.00

Units: uL

V1_Mega_I_00064

Amount Added: 2.00

Units: uL

VOA_ISSS_50_W_00035

Amount Added: 5.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP39\\20170316-88178.b\\03161707.D

Injection Date: 16-Mar-2017 18:41:30

Instrument ID: HP39

Operator ID: AQS HP-39

Lims ID: STD 2.0

Worklist Smp#: 7

Client ID:

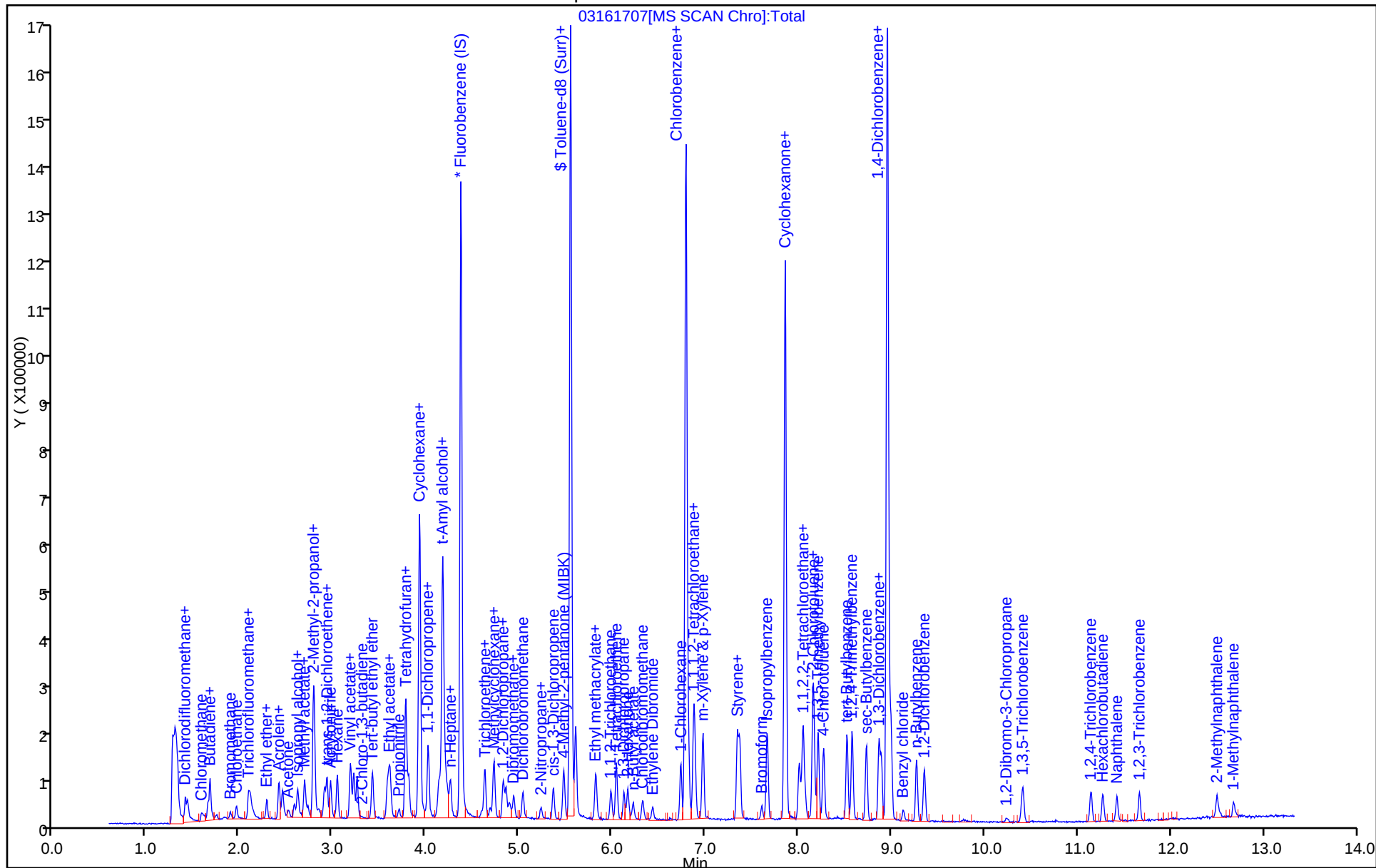
Purge Vol: 10.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 8260HP39

Limit Group: MSV 8260C ICAL



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161708.D
 Lims ID: STD 5.0
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 16-Mar-2017 19:07:30 ALS Bottle#: 8 Worklist Smp#: 8
 Purge Vol: 10.000 mL Dil. Factor: 1.0000
 Sample Info: STD 5.0
 Misc. Info.: 490-0088178-008
 Operator ID: AQS HP-39 Instrument ID: HP39
 Sublist: chrom-8260HP39*sub27
 Method: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\8260HP39.m
 Limit Group: MSV 8260C ICAL
 Method Label: 8260B Volatile Organics 8260/SA/NV05-90
 Last Update: 18-Mar-2017 17:23:47 Calib Date: 16-Mar-2017 21:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161714.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: himelickm

Date: 18-Mar-2017 14:25:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.377	4.365	0.012	99	1037389	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.793	6.787	0.006	83	831362	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.958	8.946	0.012	93	467328	25.0	25.0	
\$ 4 Dibromofluoromethane (Surr	111	3.933	3.921	0.012	97	239462	25.0	24.4	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.177	4.165	0.012	97	221569	25.0	25.2	
\$ 6 Toluene-d8 (Surr)	98	5.558	5.546	0.012	92	1018817	25.0	24.9	
\$ 7 4-Bromofluorobenzene (Surr	95	7.863	7.851	0.012	96	373180	25.0	25.1	
9 Propene	41	1.415	1.415	0.000	99	46310	NC	NC	
10 Dichlorodifluoromethane	85	1.439	1.439	0.000	100	57136	5.00	4.78	
11 Chloromethane	50	1.591	1.591	0.000	100	50847	5.00	4.59	
12 Vinyl chloride	62	1.658	1.658	0.000	98	67809	5.00	5.04	
13 Butadiene	54	1.676	1.683	-0.007	95	66654	5.00	5.05	
14 Bromomethane	96	1.895	1.902	-0.007	86	22251	5.00	4.83	
15 Chloroethane	64	1.962	1.962	0.000	99	47141	5.00	5.09	
16 Dichlorofluoromethane	67	2.096	2.096	0.000	97	109970	5.00	5.14	
17 Trichlorofluoromethane	101	2.114	2.121	-0.007	97	75622	5.00	4.27	
18 Ethanol	46	2.266	2.279	-0.013	86	5344	200.0	221.9	
19 Ethyl ether	59	2.291	2.291	0.000	91	33632	5.00	4.86	
21 1,1,2-Trichloro-1,2,2-trif	101	2.419	2.425	-0.006	89	54227	5.00	5.09	
20 Acrolein	56	2.425	2.431	-0.006	36	7631	12.3	11.5	
22 1,1-Dichloroethene	96	2.461	2.467	-0.006	96	56629	5.00	5.01	
23 Acetone	58	2.522	2.528	-0.006	99	12183	25.0	23.9	
24 Iodomethane	142	2.583	2.589	-0.006	97	87875	5.00	5.37	
26 Isopropyl alcohol	45	2.601	2.607	-0.006	99	14072	50.0	47.3	
27 Carbon disulfide	76	2.625	2.626	-0.001	98	165338	5.00	5.16	
29 3-Chloro-1-propene	76	2.692	2.699	-0.006	51	40927	5.00	4.23	
30 Methyl acetate	43	2.704	2.705	-0.001	98	45779	10.0	10.6	
28 Acetonitrile	40	2.735	2.741	-0.006	94	27728	50.0	51.3	
31 Methylene Chloride	84	2.790	2.796	-0.006	91	70349	5.00	5.20	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 2-Methyl-2-propanol	59	2.850	2.857	-0.007	99	22375	50.0	48.6	
35 Methyl tert-butyl ether	73	2.911	2.918	-0.007	95	107541	5.00	4.88	
34 trans-1,2-Dichloroethene	61	2.936	2.942	-0.006	97	73665	5.00	4.89	
33 Acrylonitrile	53	2.972	2.978	-0.006	98	104147	50.0	48.5	
36 Hexane	57	3.045	3.051	-0.006	91	76373	5.00	5.11	
39 Isopropyl ether	45	3.185	3.197	-0.012	95	170330	5.00	5.06	
38 Vinyl acetate	86	3.228	3.234	-0.006	96	12724	10.0	7.98	
37 1,1-Dichloroethane	63	3.222	3.234	-0.012	93	105549	5.00	5.08	
40 2-Chloro-1,3-butadiene	53	3.258	3.270	-0.012	99	83905	5.00	5.23	
41 Tert-butyl ethyl ether	59	3.422	3.435	-0.013	97	149131	5.00	5.16	
43 2,2-Dichloropropane	77	3.587	3.593	-0.006	90	83204	5.00	4.83	
42 cis-1,2-Dichloroethene	96	3.605	3.617	-0.012	82	65913	5.00	4.77	
45 Ethyl acetate	70	3.611	3.623	-0.012	48	7590	10.0	10.4	
44 2-Butanone (MEK)	72	3.623	3.629	-0.006	97	16967	25.0	24.0	
46 Propionitrile	54	3.708	3.714	-0.006	87	39513	50.0	49.2	
47 Methacrylonitrile	41	3.781	3.787	-0.006	98	186655	50.0	49.2	
48 Chlorobromomethane	130	3.787	3.794	-0.007	53	37294	5.00	4.98	
49 Tetrahydrofuran	42	3.800	3.806	-0.006	86	21355	10.0	9.79	
50 Chloroform	83	3.818	3.824	-0.006	94	97734	5.00	5.14	
51 1,1,1-Trichloroethane	97	3.921	3.927	-0.006	98	85813	5.00	5.15	
52 Cyclohexane	56	3.927	3.940	-0.013	90	99795	5.00	5.25	
54 Carbon tetrachloride	117	4.025	4.031	-0.006	98	77934	5.00	5.19	
53 1,1-Dichloropropene	75	4.025	4.037	-0.012	96	80341	5.00	5.09	
55 Isobutyl alcohol	43	4.128	4.140	-0.012	99	56184	125.0	127.6	
56 t-Amyl alcohol	59	4.183	4.189	-0.006	46	22896	50.0	48.2	
57 Benzene	78	4.189	4.195	-0.006	95	256009	5.00	5.22	
59 Tert-amyl methyl ether	73	4.207	4.213	-0.006	98	140978	5.00	4.78	
58 1,2-Dichloroethane	62	4.231	4.244	-0.013	97	60489	5.00	5.24	
60 n-Heptane	43	4.262	4.268	-0.006	94	60644	5.00	4.81	
61 n-Butanol	56	4.603	4.609	-0.006	90	17345	125.0	121.1	
62 Trichloroethene	130	4.633	4.645	-0.012	94	74007	5.00	5.23	
63 Ethyl acrylate	55	4.688	4.694	-0.006	100	41138	5.00	4.91	
64 Methylcyclohexane	83	4.730	4.743	-0.013	85	106437	5.00	5.17	
65 1,2-Dichloropropane	63	4.828	4.840	-0.012	96	59587	5.00	5.13	
66 Methyl methacrylate	41	4.858	4.870	-0.012	93	65751	10.0	10.5	
68 1,4-Dioxane	88	4.937	4.949	-0.012	32	5754	100.0	96.2	
67 Dibromomethane	93	4.943	4.956	-0.013	88	27578	5.00	5.04	
69 Dichlorobromomethane	83	5.041	5.053	-0.012	98	72571	5.00	5.10	
71 2-Chloroethyl vinyl ether	63	5.235	5.248	-0.013	94	18163	5.00	4.17	
70 2-Nitropropane	43	5.235	5.248	-0.013	63	17871	10.0	7.30	
72 cis-1,3-Dichloropropene	75	5.369	5.381	-0.012	97	81174	5.00	4.93	
73 4-Methyl-2-pentanone (MIBK)	58	5.479	5.485	-0.006	96	60566	25.0	25.6	
74 Toluene	91	5.612	5.619	-0.007	99	280031	5.00	5.12	
75 trans-1,3-Dichloropropene	75	5.819	5.832	-0.013	96	66595	5.00	4.80	
76 Ethyl methacrylate	69	5.831	5.838	-0.007	89	51433	5.00	4.87	
77 1,1,2-Trichloroethane	97	5.990	6.002	-0.012	90	41773	5.00	5.07	
78 Tetrachloroethene	166	6.050	6.057	-0.007	96	81138	5.00	5.24	
79 1,3-Dichloropropane	76	6.130	6.142	-0.012	86	73610	5.00	5.14	
80 2-Hexanone	58	6.166	6.166	0.000	94	55470	25.0	25.0	
81 n-Butyl acetate	43	6.227	6.233	-0.006	97	55175	5.00	5.21	
82 Chlorodibromomethane	127	6.330	6.343	-0.013	92	38451	5.00	4.97	
83 Ethylene Dibromide	107	6.440	6.446	-0.006	96	39936	5.00	5.08	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1-Chlorohexane	91	6.738	6.750	-0.012	97	90363	5.00	5.09	
85 Chlorobenzene	112	6.823	6.829	-0.006	97	186101	5.00	5.16	
87 Ethylbenzene	91	6.878	6.890	-0.012	98	306681	5.00	5.14	
86 1,1,1,2-Tetrachloroethane	131	6.890	6.902	-0.012	95	63150	5.00	5.06	
88 m-Xylene & p-Xylene	91	6.981	6.987	-0.006	99	233377	5.00	5.08	
89 o-Xylene	91	7.352	7.359	-0.007	95	234964	5.00	5.02	
90 Styrene	104	7.377	7.383	-0.006	94	196783	5.00	5.10	
91 Bromoform	173	7.608	7.620	-0.012	98	28365	5.00	4.62	
92 Isopropylbenzene	105	7.669	7.681	-0.012	95	299662	5.00	5.17	
93 Cyclohexanone	55	7.869	7.876	-0.007	36	10431	50.0	54.2	
94 Bromobenzene	156	8.009	8.022	-0.013	89	79052	5.00	5.25	
95 1,1,2,2-Tetrachloroethane	83	8.034	8.046	-0.012	93	41010	5.00	5.03	
98 N-Propylbenzene	91	8.052	8.064	-0.012	98	344354	5.00	5.21	
97 trans-1,4-Dichloro-2-buten	53	8.076	8.089	-0.013	68	8316	5.00	4.03	
96 1,2,3-Trichloropropane	110	8.076	8.089	-0.013	83	14273	5.00	5.06	
100 4-Ethyltoluene	105	8.161	8.168	-0.007	95	294630	NC	NC	
99 2-Chlorotoluene	91	8.174	8.180	-0.006	97	238544	5.00	5.19	
101 1,3,5-Trimethylbenzene	105	8.216	8.228	-0.012	95	242748	5.00	5.08	
102 4-Chlorotoluene	91	8.277	8.283	-0.006	96	205995	5.00	4.96	
103 tert-Butylbenzene	119	8.526	8.539	-0.013	92	216205	5.00	5.26	
104 1,2,4-Trimethylbenzene	105	8.581	8.594	-0.013	96	238271	5.00	4.98	
106 sec-Butylbenzene	105	8.733	8.746	-0.013	93	285470	5.00	5.16	
108 4-Isopropyltoluene	119	8.867	8.879	-0.012	97	244925	5.00	5.04	
107 1,3-Dichlorobenzene	146	8.898	8.904	-0.006	98	139402	5.00	4.95	
110 Dicyclopentadiene	66	8.958	8.971	-0.013	49	278475	NC	NC	
109 1,4-Dichlorobenzene	146	8.983	8.995	-0.012	97	143990	5.00	5.07	
111 1,2,3-Trimethylbenzene	105	9.001	9.013	-0.012	98	232526	5.00	4.99	
112 Benzyl chloride	91	9.129	9.141	-0.012	99	45191	5.00	6.60	
114 n-Butylbenzene	91	9.275	9.281	-0.006	97	180458	5.00	4.94	
113 1,2-Dichlorobenzene	146	9.360	9.366	-0.006	99	122145	5.00	5.04	
115 1,2-Dibromo-3-Chloropropan	157	10.254	10.260	-0.006	87	6414	5.00	4.16	
116 1,3,5-Trichlorobenzene	180	10.418	10.431	-0.013	96	74966	5.00	4.68	
117 1,2,4-Trichlorobenzene	180	11.148	11.161	-0.013	93	59245	5.00	4.63	
118 Hexachlorobutadiene	225	11.276	11.289	-0.013	94	30732	5.00	4.85	
119 Naphthalene	128	11.428	11.435	-0.007	96	107046	5.00	4.64	
120 1,2,3-Trichlorobenzene	180	11.672	11.678	-0.006	95	51512	5.00	4.75	
121 2-Methylnaphthalene	142	12.499	12.505	-0.006	94	52084	5.00	4.00	
122 1-Methylnaphthalene	142	12.682	12.688	-0.006	94	39809	5.00	4.04	
S 135 Xylenes, Total	1				0			10.1	
S 136 1,2-Dichloroethene, Total	1				0			9.66	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

V1_gases_I_00203

Amount Added: 5.00

Units: uL

V1_Mega_I_00064

Amount Added: 5.00

Units: uL

VOA_ISSS_50_W_00035

Amount Added: 5.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP39\\20170316-88178.b\\03161708.D

Injection Date: 16-Mar-2017 19:07:30

Instrument ID: HP39

Operator ID: AQS HP-39

Lims ID: STD 5.0

Worklist Smp#: 8

Client ID:

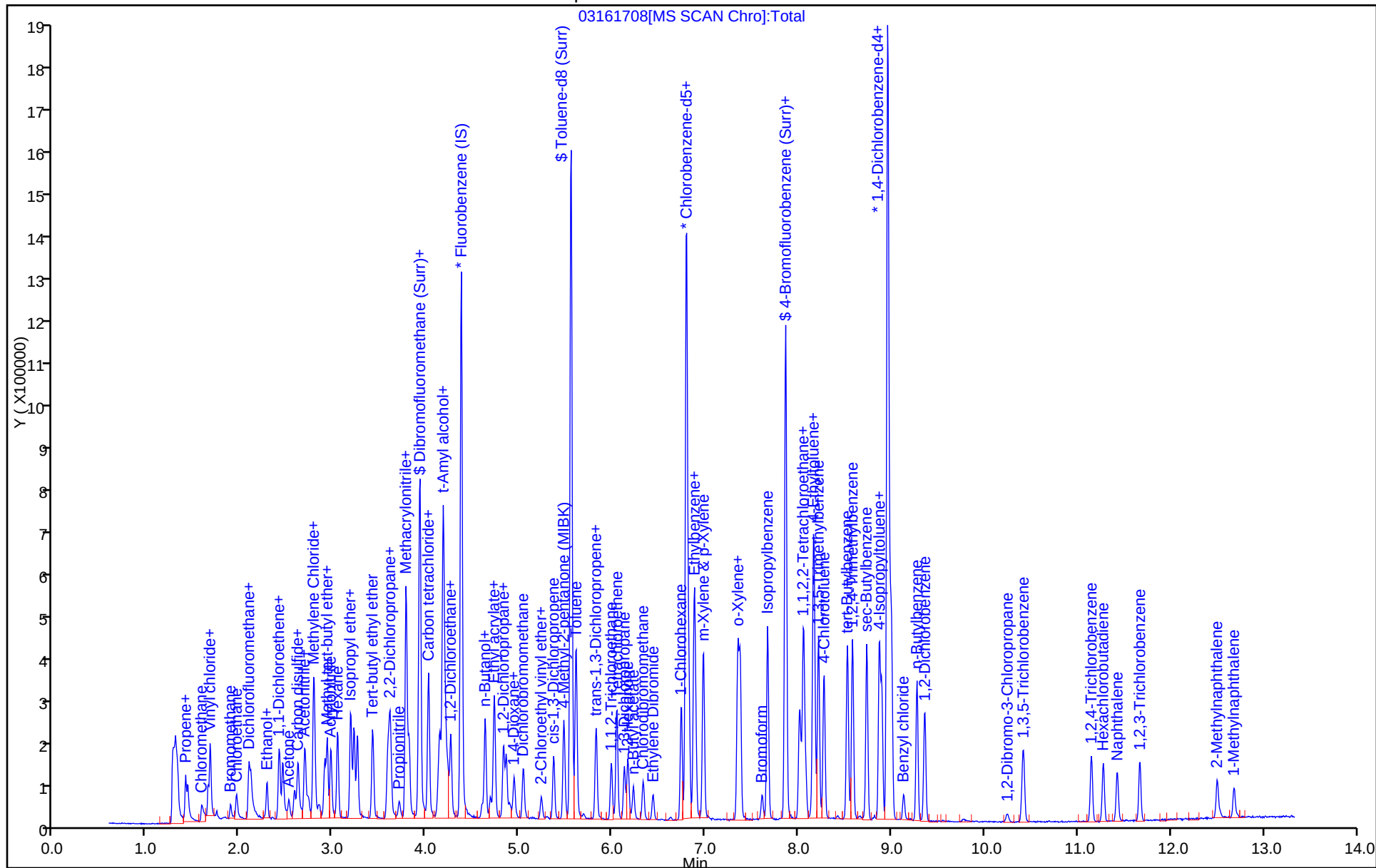
Purge Vol: 10.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 8260HP39

Limit Group: MSV 8260C ICAL



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161709.D
 Lims ID: STD 10
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 16-Mar-2017 19:33:30 ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 10.000 mL Dil. Factor: 1.0000
 Sample Info: STD 10
 Misc. Info.: 490-0088178-009
 Operator ID: AQS HP-39 Instrument ID: HP39
 Sublist: chrom-8260HP39*sub27
 Method: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\8260HP39.m
 Limit Group: MSV 8260C ICAL
 Method Label: 8260B Volatile Organics 8260/SA/NV05-90
 Last Update: 18-Mar-2017 17:23:50 Calib Date: 16-Mar-2017 21:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161714.D

Column 1 : Det: MS SCAN

Process Host: XAWRK011

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.377	4.365	0.012	99	1063726	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.799	6.787	0.012	83	849360	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.964	8.946	0.018	94	481112	25.0	25.0	
\$ 4 Dibromofluoromethane (Surr	111	3.939	3.921	0.018	96	252428	25.0	25.1	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.183	4.165	0.018	98	224169	25.0	24.8	
\$ 6 Toluene-d8 (Surr)	98	5.558	5.546	0.012	92	1055556	25.0	25.2	
\$ 7 4-Bromofluorobenzene (Surr	95	7.863	7.851	0.012	97	383601	25.0	25.0	
9 Propene	41	1.415	1.415	0.000	99	92254	NC	NC	
10 Dichlorodifluoromethane	85	1.439	1.439	0.000	100	122432	10.0	10.0	
11 Chloromethane	50	1.591	1.591	0.000	99	105023	10.0	8.99	
12 Vinyl chloride	62	1.658	1.658	0.000	98	133273	10.0	9.67	
13 Butadiene	54	1.682	1.683	-0.001	97	126719	10.0	9.48	
14 Bromomethane	96	1.901	1.902	-0.001	89	43017	10.0	8.39	
15 Chloroethane	64	1.962	1.962	0.000	99	92674	10.0	9.75	
16 Dichlorofluoromethane	67	2.096	2.096	0.000	98	221136	10.0	10.1	
17 Trichlorofluoromethane	101	2.114	2.121	-0.007	100	185036	10.0	10.2	
18 Ethanol	46	2.279	2.279	0.000	90	10332	400.0	418.4	
19 Ethyl ether	59	2.291	2.291	0.000	91	66993	10.0	9.44	
21 1,1,2-Trichloro-1,2,2-trif	101	2.425	2.425	0.000	90	108467	10.0	9.94	
20 Acrolein	56	2.431	2.431	0.000	32	15113	24.7	22.2	
22 1,1-Dichloroethene	96	2.461	2.467	-0.006	97	107500	10.0	9.27	
23 Acetone	58	2.528	2.528	0.000	98	25994	50.0	51.9	
24 Iodomethane	142	2.589	2.589	0.000	96	166911	10.0	9.76	
26 Isopropyl alcohol	45	2.601	2.607	-0.006	99	27026	100.0	92.3	
27 Carbon disulfide	76	2.625	2.626	-0.001	98	315182	10.0	9.78	
29 3-Chloro-1-propene	76	2.698	2.699	0.000	34	97517	10.0	9.95	
30 Methyl acetate	43	2.704	2.705	-0.001	96	83455	20.0	18.8	
28 Acetonitrile	40	2.735	2.741	-0.006	96	54034	100.0	97.5	
31 Methylene Chloride	84	2.790	2.796	-0.006	91	125694	10.0	9.85	
32 2-Methyl-2-propanol	59	2.850	2.857	-0.007	99	44965	100.0	95.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Methyl tert-butyl ether	73	2.911	2.918	-0.007	94	223327	10.0	9.89	
34 trans-1,2-Dichloroethene	61	2.936	2.942	-0.006	98	144095	10.0	9.33	
33 Acrylonitrile	53	2.978	2.978	0.000	98	213705	100.0	97.0	
36 Hexane	57	3.051	3.051	0.000	90	153155	10.0	9.99	
39 Isopropyl ether	45	3.191	3.197	-0.006	96	340976	10.0	9.89	
37 1,1-Dichloroethane	63	3.228	3.234	-0.006	94	210354	10.0	9.87	
38 Vinyl acetate	86	3.228	3.234	-0.006	96	26389	20.0	16.1	
40 2-Chloro-1,3-butadiene	53	3.264	3.270	-0.006	98	162398	10.0	9.88	
41 Tert-butyl ethyl ether	59	3.428	3.435	-0.007	96	288661	10.0	9.73	
43 2,2-Dichloropropane	77	3.587	3.593	-0.006	87	172815	10.0	9.79	
42 cis-1,2-Dichloroethene	96	3.611	3.617	-0.006	82	137510	10.0	9.71	
45 Ethyl acetate	70	3.617	3.623	-0.006	51	14051	20.0	18.8	
44 2-Butanone (MEK)	72	3.623	3.629	-0.006	97	32930	50.0	45.5	
46 Propionitrile	54	3.714	3.714	0.000	88	81048	100.0	98.5	
47 Methacrylonitrile	41	3.787	3.787	0.000	98	377805	100.0	97.2	
48 Chlorobromomethane	130	3.787	3.794	-0.007	80	73096	10.0	9.53	
49 Tetrahydrofuran	42	3.806	3.806	0.000	86	44566	20.0	19.9	
50 Chloroform	83	3.818	3.824	-0.006	95	191960	10.0	9.85	
51 1,1,1-Trichloroethane	97	3.921	3.927	-0.006	98	174086	10.0	10.2	
52 Cyclohexane	56	3.933	3.940	-0.007	94	190207	10.0	9.76	
54 Carbon tetrachloride	117	4.025	4.031	-0.006	97	155148	10.0	10.1	
53 1,1-Dichloropropene	75	4.031	4.037	-0.006	98	162857	10.0	10.1	
55 Isobutyl alcohol	43	4.134	4.140	-0.006	55	113963	250.0	252.4	
56 t-Amyl alcohol	59	4.183	4.189	-0.006	51	46977	100.0	99.5	
57 Benzene	78	4.189	4.195	-0.006	96	490390	10.0	9.75	
59 Tert-amyl methyl ether	73	4.213	4.213	0.000	98	298389	10.0	9.87	
58 1,2-Dichloroethane	62	4.238	4.244	-0.006	96	115060	10.0	9.72	
60 n-Heptane	43	4.268	4.268	0.000	95	128622	10.0	9.95	
61 n-Butanol	56	4.603	4.609	-0.006	86	34597	250.0	235.5	
62 Trichloroethene	130	4.639	4.645	-0.006	95	143438	10.0	9.88	
63 Ethyl acrylate	55	4.694	4.694	0.000	100	86919	10.0	10.1	
64 Methylcyclohexane	83	4.736	4.743	-0.007	85	214104	10.0	10.1	
65 1,2-Dichloropropane	63	4.834	4.840	-0.006	97	119417	10.0	10.0	
66 Methyl methacrylate	41	4.864	4.870	-0.006	89	138834	20.0	21.7	
68 1,4-Dioxane	88	4.949	4.949	0.000	39	11466	200.0	187.0	
67 Dibromomethane	93	4.949	4.956	-0.007	92	55001	10.0	9.92	
69 Dichlorobromomethane	83	5.047	5.053	-0.006	100	145494	10.0	9.98	
70 2-Nitropropane	43	5.241	5.248	-0.007	68	40940	20.0	16.3	
71 2-Chloroethyl vinyl ether	63	5.241	5.248	-0.007	93	38095	10.0	8.56	
72 cis-1,3-Dichloropropene	75	5.375	5.381	-0.006	97	165135	10.0	9.82	
73 4-Methyl-2-pentanone (MIBK)	58	5.479	5.485	-0.006	96	121211	50.0	50.1	
74 Toluene	91	5.612	5.619	-0.007	98	550705	10.0	9.86	
75 trans-1,3-Dichloropropene	75	5.825	5.832	-0.007	96	139584	10.0	9.85	
76 Ethyl methacrylate	69	5.831	5.838	-0.007	88	106384	10.0	9.86	
77 1,1,2-Trichloroethane	97	5.996	6.002	-0.006	90	83907	10.0	9.97	
78 Tetrachloroethene	166	6.050	6.057	-0.007	97	158680	10.0	10.0	
79 1,3-Dichloropropane	76	6.136	6.142	-0.006	89	143207	10.0	9.79	
80 2-Hexanone	58	6.166	6.166	0.000	94	113814	50.0	50.2	
81 n-Butyl acetate	43	6.227	6.233	-0.006	97	110511	10.0	10.2	
82 Chlorodibromomethane	127	6.336	6.343	-0.007	90	76163	10.0	9.71	
83 Ethylene Dibromide	107	6.440	6.446	-0.006	100	75785	10.0	9.44	
84 1-Chlorohexane	91	6.744	6.750	-0.006	95	179446	10.0	9.85	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 Chlorobenzene	112	6.823	6.829	-0.006	96	366761	10.0	9.96	
87 Ethylbenzene	91	6.884	6.890	-0.006	98	609866	10.0	10.0	
86 1,1,1,2-Tetrachloroethane	131	6.896	6.902	-0.006	96	126064	10.0	9.88	
88 m-Xylene & p-Xylene	91	6.981	6.987	-0.006	100	457208	10.0	9.75	
89 o-Xylene	91	7.352	7.359	-0.007	96	470279	10.0	9.83	
90 Styrene	104	7.377	7.383	-0.006	95	397672	10.0	10.1	
91 Bromoform	173	7.614	7.620	-0.006	98	57513	10.0	9.17	
92 Isopropylbenzene	105	7.675	7.681	-0.006	95	600695	10.0	10.1	
93 Cyclohexanone	55	7.869	7.876	-0.007	38	19445	100.0	98.6	
94 Bromobenzene	156	8.015	8.022	-0.007	88	156939	10.0	10.1	
95 1,1,2,2-Tetrachloroethane	83	8.034	8.046	-0.012	95	82889	10.0	9.88	
98 N-Propylbenzene	91	8.058	8.064	-0.006	97	692037	10.0	10.2	
96 1,2,3-Trichloropropane	110	8.082	8.089	-0.007	83	26433	10.0	9.09	
97 trans-1,4-Dichloro-2-buten	53	8.082	8.089	-0.007	69	18873	10.0	8.89	
100 4-Ethyltoluene	105	8.161	8.168	-0.007	99	594146	NC	NC	
99 2-Chlorotoluene	91	8.174	8.180	-0.006	97	476865	10.0	10.1	
101 1,3,5-Trimethylbenzene	105	8.222	8.228	-0.006	95	495299	10.0	10.1	
102 4-Chlorotoluene	91	8.277	8.283	-0.006	96	417163	10.0	9.77	
103 tert-Butylbenzene	119	8.533	8.539	-0.006	91	435148	10.0	10.3	
104 1,2,4-Trimethylbenzene	105	8.587	8.594	-0.007	96	494580	10.0	10.0	
106 sec-Butylbenzene	105	8.739	8.746	-0.007	93	584657	10.0	10.3	
108 4-Isopropyltoluene	119	8.873	8.879	-0.006	97	510570	10.0	10.2	
107 1,3-Dichlorobenzene	146	8.898	8.904	-0.006	98	293482	10.0	10.1	
110 Dicyclopentadiene	66	8.964	8.971	-0.007	87	567769	NC	NC	
109 1,4-Dichlorobenzene	146	8.989	8.995	-0.006	96	292811	10.0	10.0	
111 1,2,3-Trimethylbenzene	105	9.007	9.013	-0.006	99	485037	10.0	10.1	
112 Benzyl chloride	91	9.135	9.141	-0.006	99	101693	10.0	10.0	
114 n-Butylbenzene	91	9.275	9.281	-0.006	97	392036	10.0	10.4	
113 1,2-Dichlorobenzene	146	9.360	9.366	-0.006	99	247534	10.0	9.93	
115 1,2-Dibromo-3-Chloropropan	157	10.248	10.260	-0.012	93	13512	10.0	8.12	
116 1,3,5-Trichlorobenzene	180	10.418	10.431	-0.013	97	159282	10.0	9.66	
117 1,2,4-Trichlorobenzene	180	11.155	11.161	-0.006	94	124986	10.0	9.49	
118 Hexachlorobutadiene	225	11.282	11.289	-0.007	95	63801	10.0	9.78	
119 Naphthalene	128	11.428	11.435	-0.007	97	227703	10.0	9.58	
120 1,2,3-Trichlorobenzene	180	11.672	11.678	-0.006	96	107220	10.0	9.60	
121 2-Methylnaphthalene	142	12.505	12.505	0.000	93	114014	10.0	8.51	
122 1-Methylnaphthalene	142	12.682	12.688	-0.006	93	88574	10.0	8.73	
S 136 1,2-Dichloroethene, Total	1				0			19.0	
S 135 Xylenes, Total	1				0			19.6	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

V1_gases_I_00203

Amount Added: 10.00

Units: uL

V1_Mega_I_00064

Amount Added: 10.00

Units: uL

VOA_ISSS_50_W_00035

Amount Added: 5.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP39\\20170316-88178.b\\03161709.D

Injection Date: 16-Mar-2017 19:33:30

Instrument ID: HP39

Operator ID: AQS HP-39

Lims ID: STD 10

Worklist Smp#: 9

Client ID:

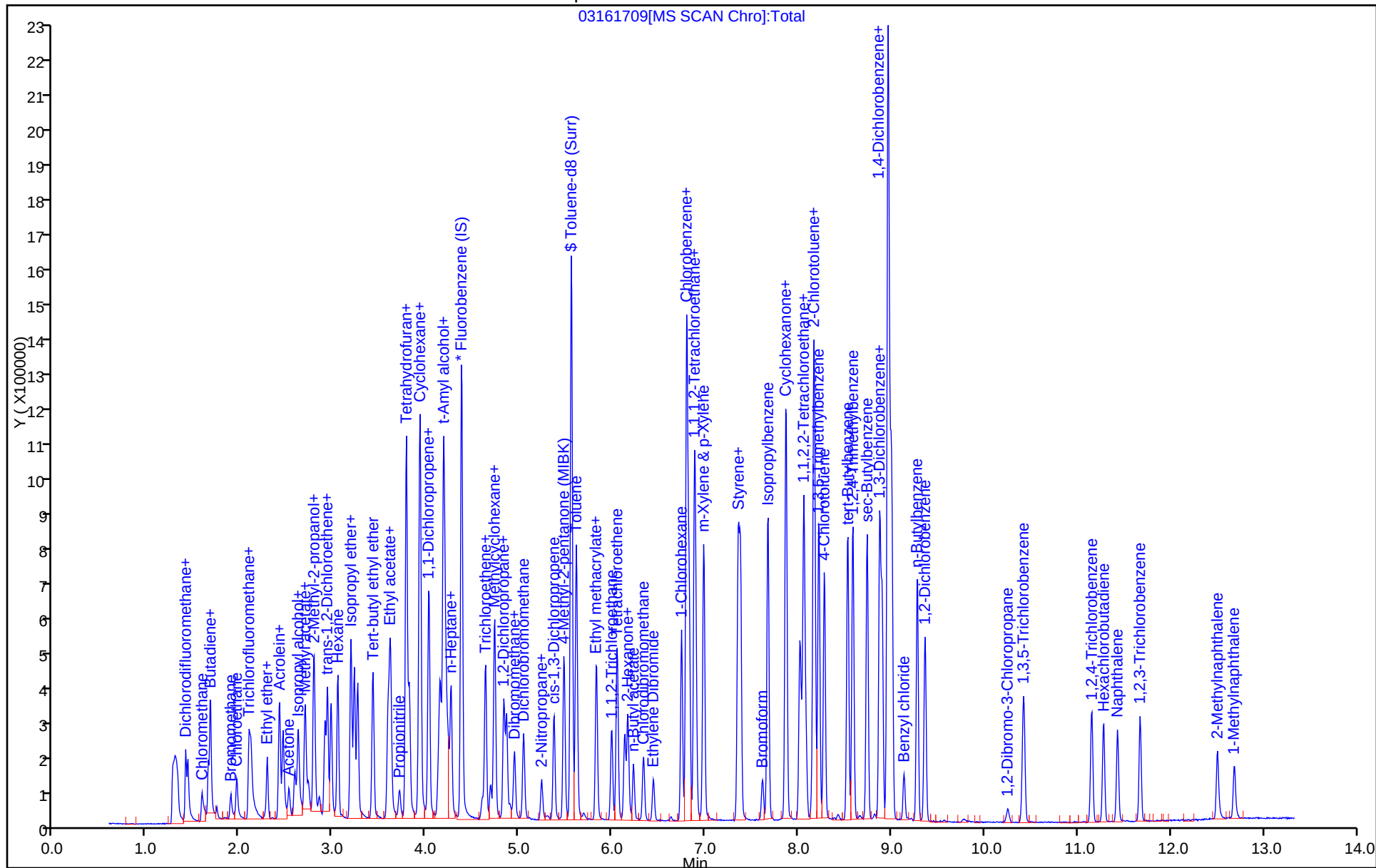
Purge Vol: 10.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 8260HP39

Limit Group: MSV 8260C ICAL



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161710.D
 Lims ID: STD 20
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 16-Mar-2017 19:59:30 ALS Bottle#: 10 Worklist Smp#: 10
 Purge Vol: 10.000 mL Dil. Factor: 1.0000
 Sample Info: STD 20
 Misc. Info.: 490-0088178-010
 Operator ID: AQS HP-39 Instrument ID: HP39
 Sublist: chrom-8260HP39*sub27
 Method: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\8260HP39.m
 Limit Group: MSV 8260C ICAL
 Method Label: 8260B Volatile Organics 8260/SA/NV05-90
 Last Update: 18-Mar-2017 17:23:53 Calib Date: 16-Mar-2017 21:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161714.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK011

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.384	4.365	0.019	99	1064292	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.805	6.787	0.018	83	848432	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.971	8.946	0.025	77	485685	25.0	25.0	
\$ 4 Dibromofluoromethane (Surr	111	3.939	3.921	0.018	93	252352	25.0	25.1	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.183	4.165	0.018	97	226753	25.0	25.1	
\$ 6 Toluene-d8 (Surr)	98	5.564	5.546	0.018	92	1057201	25.0	25.3	
\$ 7 4-Bromofluorobenzene (Surr	95	7.869	7.851	0.018	97	386188	25.0	25.0	
9 Propene	41	1.415	1.415	0.000	99	194008	NC	NC	
10 Dichlorodifluoromethane	85	1.439	1.439	0.000	99	249402	20.0	20.3	
11 Chloromethane	50	1.591	1.591	0.000	100	215117	20.0	18.2	
12 Vinyl chloride	62	1.658	1.658	0.000	98	273759	20.0	19.8	
13 Butadiene	54	1.682	1.683	-0.001	96	259240	20.0	19.5	
14 Bromomethane	96	1.901	1.902	-0.001	89	140374	20.0	21.7	
15 Chloroethane	64	1.962	1.962	0.000	99	183647	20.0	19.3	
16 Dichlorofluoromethane	67	2.096	2.096	0.000	98	440915	20.0	20.1	
17 Trichlorofluoromethane	101	2.120	2.121	-0.001	99	360183	20.0	19.8	
18 Ethanol	46	2.279	2.279	0.000	95	18910	800.0	765.4	
19 Ethyl ether	59	2.291	2.291	0.000	93	139466	20.0	19.6	
21 1,1,2-Trichloro-1,2,2-trif	101	2.425	2.425	0.000	90	212183	20.0	19.4	
20 Acrolein	56	2.431	2.431	0.000	99	29509	49.4	43.3	
22 1,1-Dichloroethene	96	2.461	2.467	-0.006	97	224719	20.0	19.4	
23 Acetone	58	2.528	2.528	0.000	100	49498	100.0	100.7	
24 Iodomethane	142	2.589	2.589	0.000	97	346177	20.0	20.0	
26 Isopropyl alcohol	45	2.607	2.607	0.000	100	56403	200.0	197.2	
27 Carbon disulfide	76	2.625	2.626	-0.001	99	641004	20.0	20.1	
29 3-Chloro-1-propene	76	2.698	2.699	0.000	38	192157	20.0	19.7	
30 Methyl acetate	43	2.704	2.705	-0.001	97	171149	40.0	38.6	
28 Acetonitrile	40	2.735	2.741	-0.006	94	107355	200.0	193.6	
31 Methylene Chloride	84	2.796	2.796	0.000	91	246675	20.0	20.3	
32 2-Methyl-2-propanol	59	2.857	2.857	0.000	100	89661	200.0	189.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Methyl tert-butyl ether	73	2.917	2.918	-0.001	94	448148	20.0	19.8	
34 trans-1,2-Dichloroethene	61	2.942	2.942	0.000	97	288041	20.0	18.6	
33 Acrylonitrile	53	2.978	2.978	0.000	99	419862	200.0	190.4	
36 Hexane	57	3.051	3.051	0.000	90	311045	20.0	20.3	
39 Isopropyl ether	45	3.191	3.197	-0.006	94	687921	20.0	19.9	
38 Vinyl acetate	86	3.234	3.234	0.000	96	60641	40.0	37.1	
37 1,1-Dichloroethane	63	3.228	3.234	-0.006	87	422912	20.0	19.8	
40 2-Chloro-1,3-butadiene	53	3.264	3.270	-0.006	99	328185	20.0	20.0	
41 Tert-butyl ethyl ether	59	3.428	3.435	-0.007	96	603365	20.0	20.3	
43 2,2-Dichloropropane	77	3.593	3.593	0.000	89	337685	20.0	19.1	
42 cis-1,2-Dichloroethene	96	3.611	3.617	-0.006	82	278474	20.0	19.7	
45 Ethyl acetate	70	3.623	3.623	0.000	49	28311	40.0	37.8	
44 2-Butanone (MEK)	72	3.629	3.629	0.000	97	69863	100.0	96.4	
46 Propionitrile	54	3.714	3.714	0.000	88	162431	200.0	197.3	
47 Methacrylonitrile	41	3.787	3.787	0.000	99	761544	200.0	195.8	
48 Chlorobromomethane	130	3.793	3.794	-0.001	83	151629	20.0	19.8	
49 Tetrahydrofuran	42	3.806	3.806	0.000	88	85545	40.0	38.2	
50 Chloroform	83	3.824	3.824	0.000	94	391807	20.0	20.1	
51 1,1,1-Trichloroethane	97	3.927	3.927	0.000	97	349688	20.0	20.4	
52 Cyclohexane	56	3.933	3.940	-0.007	89	400436	20.0	20.5	
54 Carbon tetrachloride	117	4.031	4.031	0.000	98	310280	20.0	20.1	
53 1,1-Dichloropropene	75	4.031	4.037	-0.006	97	327129	20.0	20.2	
55 Isobutyl alcohol	43	4.134	4.140	-0.006	94	225352	500.0	498.9	
56 t-Amyl alcohol	59	4.189	4.189	0.000	46	94537	200.0	203.1	
57 Benzene	78	4.195	4.195	0.000	97	1004294	20.0	20.0	
59 Tert-amyl methyl ether	73	4.213	4.213	0.000	98	617214	20.0	20.4	
58 1,2-Dichloroethane	62	4.238	4.244	-0.006	97	236793	20.0	20.0	
60 n-Heptane	43	4.268	4.268	0.000	95	269084	20.0	20.8	
61 n-Butanol	56	4.603	4.609	-0.006	87	66897	500.0	455.1	
62 Trichloroethene	130	4.639	4.645	-0.006	96	289664	20.0	19.9	
63 Ethyl acrylate	55	4.694	4.694	0.000	99	166499	20.0	19.4	
64 Methylcyclohexane	83	4.736	4.743	-0.007	85	445849	20.0	21.1	
65 1,2-Dichloropropane	63	4.840	4.840	0.000	98	243804	20.0	20.4	
66 Methyl methacrylate	41	4.864	4.870	-0.006	87	259517	40.0	40.5	
68 1,4-Dioxane	88	4.943	4.949	-0.006	36	23269	400.0	379.4	
67 Dibromomethane	93	4.949	4.956	-0.007	90	112419	20.0	20.4	
69 Dichlorobromomethane	83	5.047	5.053	-0.006	100	295240	20.0	20.2	
71 2-Chloroethyl vinyl ether	63	5.241	5.248	-0.007	94	85822	20.0	19.3	
70 2-Nitropropane	43	5.247	5.248	-0.001	78	93527	40.0	37.3	
72 cis-1,3-Dichloropropene	75	5.375	5.381	-0.006	97	344326	20.0	20.5	
73 4-Methyl-2-pentanone (MIBK)	58	5.485	5.485	0.000	95	248875	100.0	102.9	
74 Toluene	91	5.619	5.619	-0.001	99	1102256	20.0	19.8	
75 trans-1,3-Dichloropropene	75	5.831	5.832	-0.001	96	282862	20.0	20.0	
76 Ethyl methacrylate	69	5.838	5.838	0.000	87	217100	20.0	20.1	
77 1,1,2-Trichloroethane	97	5.996	6.002	-0.006	91	167818	20.0	20.0	
78 Tetrachloroethene	166	6.057	6.057	0.000	97	317989	20.0	20.1	
79 1,3-Dichloropropane	76	6.136	6.142	-0.006	87	297660	20.0	20.4	
80 2-Hexanone	58	6.166	6.166	0.000	95	227199	100.0	100.4	
81 n-Butyl acetate	43	6.227	6.233	-0.006	96	220394	20.0	20.3	
82 Chlorodibromomethane	127	6.336	6.343	-0.007	90	159202	20.0	20.4	
83 Ethylene Dibromide	107	6.446	6.446	0.000	98	161541	20.0	20.2	
84 1-Chlorohexane	91	6.750	6.750	0.000	95	382996	20.0	21.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 Chlorobenzene	112	6.829	6.829	0.000	97	742222	20.0	20.2	
87 Ethylbenzene	91	6.884	6.890	-0.006	97	1220817	20.0	20.0	
86 1,1,1,2-Tetrachloroethane	131	6.902	6.902	0.000	95	266513	20.0	20.9	
88 m-Xylene & p-Xylene	91	6.987	6.987	0.000	99	943946	20.0	20.2	
89 o-Xylene	91	7.358	7.359	-0.001	95	963519	20.0	20.2	
90 Styrene	104	7.383	7.383	0.000	94	826895	20.0	21.0	
91 Bromoform	173	7.620	7.620	0.000	98	122307	20.0	19.5	
92 Isopropylbenzene	105	7.675	7.681	-0.006	95	1235212	20.0	20.9	
93 Cyclohexanone	55	7.876	7.876	0.000	86	37094	200.0	188.0	
94 Bromobenzene	156	8.022	8.022	0.000	87	324633	20.0	20.8	
95 1,1,2,2-Tetrachloroethane	83	8.040	8.046	-0.006	94	169324	20.0	20.0	
98 N-Propylbenzene	91	8.064	8.064	0.000	98	1419491	20.0	20.7	
97 trans-1,4-Dichloro-2-buten	53	8.082	8.089	-0.007	70	43359	20.0	20.2	
96 1,2,3-Trichloropropane	110	8.082	8.089	-0.007	83	56825	20.0	19.4	
100 4-Ethyltoluene	105	8.168	8.168	0.000	97	1223926	NC	NC	
99 2-Chlorotoluene	91	8.180	8.180	0.000	97	970541	20.0	20.3	
101 1,3,5-Trimethylbenzene	105	8.222	8.228	-0.006	96	1043503	20.0	21.0	
102 4-Chlorotoluene	91	8.283	8.283	0.000	96	859766	20.0	19.9	
103 tert-Butylbenzene	119	8.533	8.539	-0.006	91	920463	20.0	21.5	
104 1,2,4-Trimethylbenzene	105	8.587	8.594	-0.007	96	1020326	20.0	20.5	
106 sec-Butylbenzene	105	8.739	8.746	-0.007	93	1220354	20.0	21.2	
108 4-Isopropyltoluene	119	8.879	8.879	0.000	97	1088533	20.0	21.5	
107 1,3-Dichlorobenzene	146	8.904	8.904	0.000	98	607092	20.0	20.7	
110 Dicyclopentadiene	66	8.964	8.971	-0.007	85	1186358	NC	NC	
109 1,4-Dichlorobenzene	146	8.989	8.995	-0.006	95	609022	20.0	20.6	
111 1,2,3-Trimethylbenzene	105	9.007	9.013	-0.006	98	1012491	20.0	20.9	
112 Benzyl chloride	91	9.141	9.141	0.000	99	251166	20.0	19.3	
114 n-Butylbenzene	91	9.281	9.281	0.000	97	850466	20.0	22.4	
113 1,2-Dichlorobenzene	146	9.366	9.366	0.000	99	527692	20.0	21.0	
115 1,2-Dibromo-3-Chloropropan	157	10.254	10.260	-0.006	92	31018	20.0	18.0	
116 1,3,5-Trichlorobenzene	180	10.425	10.431	-0.006	97	361369	20.0	21.7	
117 1,2,4-Trichlorobenzene	180	11.155	11.161	-0.006	94	279419	20.0	21.0	
118 Hexachlorobutadiene	225	11.282	11.289	-0.007	94	137422	20.0	20.9	
119 Naphthalene	128	11.434	11.435	-0.001	96	518038	20.0	21.6	
120 1,2,3-Trichlorobenzene	180	11.678	11.678	0.000	96	238356	20.0	21.1	
121 2-Methylnaphthalene	142	12.505	12.505	0.000	93	263838	20.0	19.5	
122 1-Methylnaphthalene	142	12.688	12.688	0.000	93	203971	20.0	19.9	
S 135 Xylenes, Total	1				0			40.3	
S 136 1,2-Dichloroethene, Total	1				0			38.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

V1_gases_I_00203

Amount Added: 20.00

Units: uL

V1_Mega_I_00064

Amount Added: 20.00

Units: uL

VOA_ISSS_50_W_00035

Amount Added: 5.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP39\\20170316-88178.b\\03161710.D

Injection Date: 16-Mar-2017 19:59:30

Instrument ID: HP39

Operator ID: AQS HP-39

Lims ID: STD 20

Worklist Smp#: 10

Client ID:

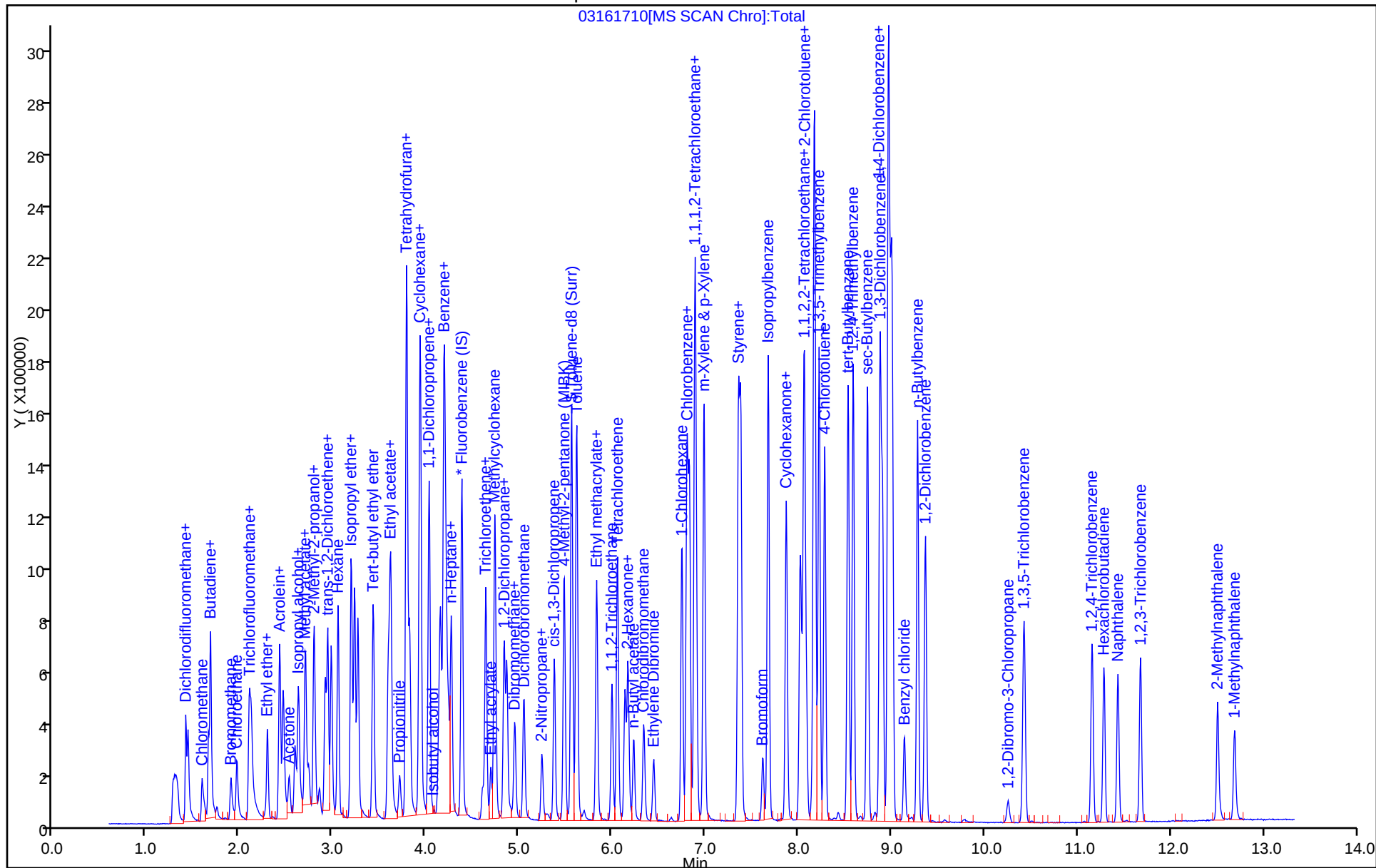
Purge Vol: 10.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 8260HP39

Limit Group: MSV 8260C ICAL



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161711.D
 Lims ID: ICIS
 Client ID:
 Sample Type: ICIS Calib Level: 7
 Inject. Date: 16-Mar-2017 20:25:30 ALS Bottle#: 11 Worklist Smp#: 11
 Purge Vol: 10.000 mL Dil. Factor: 1.0000
 Sample Info: ICIS
 Misc. Info.: 490-0088178-011
 Operator ID: AQS HP-39 Instrument ID: HP39
 Sublist: chrom-8260HP39*sub27
 Method: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\8260HP39.m
 Limit Group: MSV 8260C ICAL
 Method Label: 8260B Volatile Organics 8260/SA/NV05-90
 Last Update: 18-Mar-2017 17:23:56 Calib Date: 16-Mar-2017 21:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161714.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: stvartaka

Date: 17-Mar-2017 09:57:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.384	4.384	0.000	99	1040717	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.805	6.805	0.000	83	822538	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.971	8.971	0.000	58	498340	25.0	25.0	
\$ 4 Dibromofluoromethane (Surr	111	3.946	3.946	0.000	92	245309	25.0	24.9	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.189	4.189	0.000	98	211636	25.0	24.0	
\$ 6 Toluene-d8 (Surr)	98	5.564	5.564	0.000	92	1019276	25.0	25.1	
\$ 7 4-Bromofluorobenzene (Surr	95	7.870	7.870	0.000	96	383692	25.0	24.2	
9 Propene	41	1.415	1.415	0.000	100	508544	NC	NC	
10 Dichlorodifluoromethane	85	1.439	1.439	0.000	99	660427	50.0	55.1	
11 Chloromethane	50	1.591	1.591	0.000	99	629916	50.0	53.9	
12 Vinyl chloride	62	1.658	1.658	0.000	98	756740	50.0	56.1	
13 Butadiene	54	1.683	1.683	0.000	98	730306	50.0	56.4	
14 Bromomethane	96	1.902	1.902	0.000	89	447008	50.0	49.7	
15 Chloroethane	64	1.962	1.962	0.000	99	474218	50.0	51.0	
16 Dichlorofluoromethane	67	2.096	2.096	0.000	98	1131159	50.0	52.7	
17 Trichlorofluoromethane	101	2.121	2.121	0.000	100	994297	50.0	56.0	
18 Ethanol	46	2.279	2.279	0.000	94	49457	2000.0	2047.2	
19 Ethyl ether	59	2.291	2.291	0.000	93	372309	50.0	53.6	
21 1,1,2-Trichloro-1,2,2-trif	101	2.425	2.425	0.000	90	556940	50.0	52.2	
20 Acrolein	56	2.431	2.431	0.000	99	84632	123.4	127.0	
22 1,1-Dichloroethene	96	2.467	2.467	0.000	96	607038	50.0	53.5	
23 Acetone	58	2.528	2.528	0.000	100	124445	250.0	262.3	
24 Iodomethane	142	2.589	2.589	0.000	97	851383	50.0	50.0	
26 Isopropyl alcohol	45	2.607	2.607	0.000	99	146342	500.0	530.3	
27 Carbon disulfide	76	2.626	2.626	0.000	99	1636661	50.0	52.9	
29 3-Chloro-1-propene	76	2.699	2.699	0.000	36	524158	50.0	55.1	
30 Methyl acetate	43	2.705	2.705	0.000	97	476903	100.0	110.0	
28 Acetonitrile	40	2.741	2.741	0.000	93	282840	500.0	521.6	
31 Methylene Chloride	84	2.796	2.796	0.000	90	632020	50.0	55.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 2-Methyl-2-propanol	59	2.857	2.857	0.000	100	233008	500.0	504.7	
35 Methyl tert-butyl ether	73	2.918	2.918	0.000	94	1174915	50.0	53.2	
34 trans-1,2-Dichloroethene	61	2.942	2.942	0.000	97	786242	50.0	52.0	
33 Acrylonitrile	53	2.978	2.978	0.000	99	1113837	500.0	516.6	
36 Hexane	57	3.051	3.051	0.000	90	816263	50.0	54.4	
39 Isopropyl ether	45	3.197	3.197	0.000	94	1741653	50.0	51.6	
37 1,1-Dichloroethane	63	3.234	3.234	0.000	80	1123344	50.0	53.9	
38 Vinyl acetate	86	3.234	3.234	0.000	96	175899	100.0	110.0	
40 2-Chloro-1,3-butadiene	53	3.270	3.270	0.000	98	868824	50.0	54.0	
41 Tert-butyl ethyl ether	59	3.435	3.435	0.000	96	1568126	50.0	54.0	
43 2,2-Dichloropropane	77	3.593	3.593	0.000	89	896940	50.0	51.9	
42 cis-1,2-Dichloroethene	96	3.617	3.617	0.000	82	732171	50.0	52.9	
45 Ethyl acetate	70	3.623	3.623	0.000	53	74502	100.0	101.7	
44 2-Butanone (MEK)	72	3.629	3.629	0.000	99	178275	250.0	251.7	
46 Propionitrile	54	3.714	3.714	0.000	88	425243	500.0	528.3	
47 Methacrylonitrile	41	3.787	3.787	0.000	97	1889786	500.0	496.8	
48 Chlorobromomethane	130	3.794	3.794	0.000	90	402203	50.0	53.6	
49 Tetrahydrofuran	42	3.806	3.806	0.000	86	229279	100.0	104.8	
50 Chloroform	83	3.824	3.824	0.000	92	1012273	50.0	53.1	
51 1,1,1-Trichloroethane	97	3.927	3.927	0.000	97	910466	50.0	54.4	
52 Cyclohexane	56	3.940	3.940	0.000	89	1016899	50.0	53.3	
54 Carbon tetrachloride	117	4.031	4.031	0.000	98	826785	50.0	54.9	
53 1,1-Dichloropropene	75	4.037	4.037	0.000	98	861398	50.0	54.4	
55 Isobutyl alcohol	43	4.140	4.140	0.000	98	589821	1250.0	1335.3	
56 t-Amyl alcohol	59	4.189	4.189	0.000	57	232026	500.0	514.3	
57 Benzene	78	4.195	4.195	0.000	97	2522489	50.0	51.3	
59 Tert-amyl methyl ether	73	4.213	4.213	0.000	98	1575432	50.0	53.3	
58 1,2-Dichloroethane	62	4.244	4.244	0.000	96	607466	50.0	52.5	
60 n-Heptane	43	4.268	4.268	0.000	95	682905	50.0	54.0	
61 n-Butanol	56	4.609	4.609	0.000	87	177379	1250.0	1234.0	
62 Trichloroethene	130	4.645	4.645	0.000	95	766086	50.0	54.0	
63 Ethyl acrylate	55	4.694	4.694	0.000	100	473671	50.0	56.4	
64 Methylcyclohexane	83	4.743	4.743	0.000	85	1176471	50.0	57.0	
65 1,2-Dichloropropane	63	4.840	4.840	0.000	96	620436	50.0	53.2	
66 Methyl methacrylate	41	4.870	4.870	0.000	87	731041	100.0	116.6	
68 1,4-Dioxane	88	4.949	4.949	0.000	33	56578	1000.0	943.3	
67 Dibromomethane	93	4.956	4.956	0.000	92	291016	50.0	54.1	
69 Dichlorobromomethane	83	5.053	5.053	0.000	99	778431	50.0	54.6	
70 2-Nitropropane	43	5.248	5.248	0.000	92	282838	100.0	115.2	
71 2-Chloroethyl vinyl ether	63	5.248	5.248	0.000	94	245227	50.0	56.9	
72 cis-1,3-Dichloropropene	75	5.381	5.381	0.000	97	916682	50.0	56.3	
73 4-Methyl-2-pentanone (MIBK)	58	5.485	5.485	0.000	94	626197	250.0	267.0	
74 Toluene	91	5.619	5.619	0.000	98	2690622	50.0	49.8	
75 trans-1,3-Dichloropropene	75	5.832	5.832	0.000	96	755358	50.0	55.1	
76 Ethyl methacrylate	69	5.838	5.838	0.000	86	570553	50.0	54.6	
77 1,1,2-Trichloroethane	97	6.002	6.002	0.000	90	427562	50.0	52.5	
78 Tetrachloroethene	166	6.057	6.057	0.000	97	831367	50.0	54.3	
79 1,3-Dichloropropane	76	6.142	6.142	0.000	87	768212	50.0	54.2	
80 2-Hexanone	58	6.166	6.166	0.000	94	578480	250.0	263.6	
81 n-Butyl acetate	43	6.233	6.233	0.000	97	558979	50.0	52.6	
82 Chlorodibromomethane	127	6.343	6.343	0.000	90	429970	50.0	57.0	
83 Ethylene Dibromide	107	6.446	6.446	0.000	99	421374	50.0	54.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1-Chlorohexane	91	6.750	6.750	0.000	95	997543	50.0	56.0	
85 Chlorobenzene	112	6.829	6.829	0.000	95	1902960	50.0	53.3	
87 Ethylbenzene	91	6.890	6.890	0.000	97	2976142	50.0	50.4	
86 1,1,1,2-Tetrachloroethane	131	6.902	6.902	0.000	96	698227	50.0	56.5	
88 m-Xylene & p-Xylene	91	6.987	6.987	0.000	97	2386667	50.0	52.6	
89 o-Xylene	91	7.359	7.359	0.000	94	2404848	50.0	51.9	
90 Styrene	104	7.383	7.383	0.000	95	2125211	50.0	55.7	
91 Bromoform	173	7.620	7.620	0.000	99	340149	50.0	56.0	
92 Isopropylbenzene	105	7.681	7.681	0.000	95	3057710	50.0	53.3	
93 Cyclohexanone	55	7.876	7.876	0.000	89	93236	500.0	483.3	
94 Bromobenzene	156	8.022	8.022	0.000	88	850008	50.0	53.0	
95 1,1,2,2-Tetrachloroethane	83	8.046	8.046	0.000	94	453206	50.0	52.1	
98 N-Propylbenzene	91	8.064	8.064	0.000	98	3476949	50.0	49.4	
96 1,2,3-Trichloropropane	110	8.089	8.089	0.000	83	148353	50.0	49.3	
97 trans-1,4-Dichloro-2-buten	53	8.089	8.089	0.000	71	118459	50.0	53.9	
100 4-Ethyltoluene	105	8.168	8.168	0.000	100	3085772	NC	NC	
99 2-Chlorotoluene	91	8.180	8.180	0.000	98	2471591	50.0	50.5	
101 1,3,5-Trimethylbenzene	105	8.228	8.228	0.000	97	2648138	50.0	51.9	
102 4-Chlorotoluene	91	8.283	8.283	0.000	96	2258394	50.0	51.0	
103 tert-Butylbenzene	119	8.539	8.539	0.000	92	2394011	50.0	54.6	
104 1,2,4-Trimethylbenzene	105	8.594	8.594	0.000	95	2644419	50.0	51.9	
106 sec-Butylbenzene	105	8.746	8.746	0.000	94	3180793	50.0	53.9	
108 4-Isopropyltoluene	119	8.879	8.879	0.000	96	2872279	50.0	55.4	
107 1,3-Dichlorobenzene	146	8.904	8.904	0.000	98	1633653	50.0	54.4	
110 Dicyclopentadiene	66	8.971	8.971	0.000	100	3005783	NC	NC	
109 1,4-Dichlorobenzene	146	8.995	8.995	0.000	94	1635839	50.0	54.0	
111 1,2,3-Trimethylbenzene	105	9.013	9.013	0.000	98	2615314	50.0	52.6	
112 Benzyl chloride	91	9.141	9.141	0.000	99	767164	50.0	52.8	
114 n-Butylbenzene	91	9.281	9.281	0.000	95	2299668	50.0	59.0	
113 1,2-Dichlorobenzene	146	9.366	9.366	0.000	98	1418326	50.0	54.9	
115 1,2-Dibromo-3-Chloropropan	157	10.260	10.260	0.000	92	90667	50.0	50.6	
116 1,3,5-Trichlorobenzene	180	10.431	10.431	0.000	97	1023154	50.0	59.9	
117 1,2,4-Trichlorobenzene	180	11.161	11.161	0.000	94	816403	50.0	59.8	
118 Hexachlorobutadiene	225	11.289	11.289	0.000	95	387938	50.0	57.4	
119 Naphthalene	128	11.435	11.435	0.000	97	1512238	50.0	61.4	
120 1,2,3-Trichlorobenzene	180	11.678	11.678	0.000	95	680266	50.0	58.8	
121 2-Methylnaphthalene	142	12.505	12.505	0.000	93	828609	50.0	59.7	
122 1-Methylnaphthalene	142	12.688	12.688	0.000	97	621174	50.0	59.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

V1_gases_I_00203

Amount Added: 50.00

Units: uL

V1_Mega_I_00064

Amount Added: 50.00

Units: uL

VOA_ISSS_50_W_00035

Amount Added: 5.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP39\\20170316-88178.b\\03161711.D

Injection Date: 16-Mar-2017 20:25:30

Instrument ID: HP39

Operator ID: AQS HP-39

Lims ID: ICIS

Worklist Smp#: 11

Client ID:

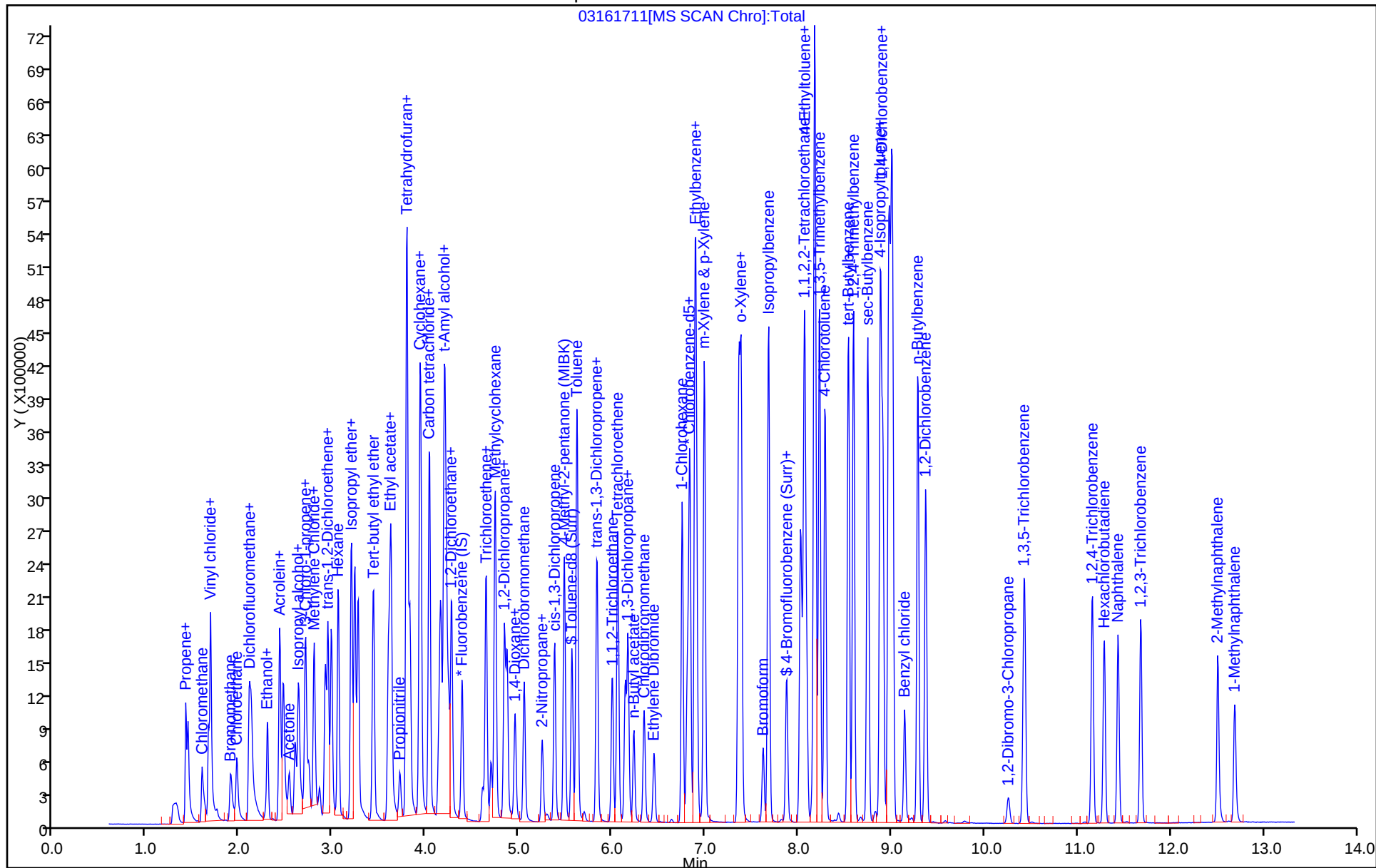
Purge Vol: 10.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 11

Method: 8260HP39

Limit Group: MSV 8260C ICAL



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161712.D
 Lims ID: STD 100
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 16-Mar-2017 20:51:30 ALS Bottle#: 12 Worklist Smp#: 12
 Purge Vol: 10.000 mL Dil. Factor: 1.0000
 Sample Info: STD 100
 Misc. Info.: 490-0088178-012
 Operator ID: AQS HP-39 Instrument ID: HP39
 Sublist: chrom-8260HP39*sub27
 Method: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\8260HP39.m
 Limit Group: MSV 8260C ICAL
 Method Label: 8260B Volatile Organics 8260/SA/NV05-90
 Last Update: 18-Mar-2017 17:24:00 Calib Date: 16-Mar-2017 21:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161714.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK011

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.390	4.384	0.006	99	1094926	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.811	6.805	0.006	82	860635	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.977	8.971	0.006	53	514636	25.0	25.0	
\$ 4 Dibromofluoromethane (Surr	111	3.946	3.946	0.000	95	263208	25.0	25.4	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.189	4.189	0.000	92	214067	25.0	23.0	
\$ 6 Toluene-d8 (Surr)	98	5.570	5.564	0.006	92	1047367	25.0	24.7	
\$ 7 4-Bromofluorobenzene (Surr	95	7.876	7.870	0.006	97	395722	25.0	24.1	
9 Propene	41	1.415	1.415	0.000	99	972572	NC	NC	
10 Dichlorodifluoromethane	85	1.439	1.439	0.000	99	1292078	100.0	102.5	
11 Chloromethane	50	1.591	1.591	0.000	99	1364165	100.0	110.7	
12 Vinyl chloride	62	1.664	1.658	0.006	98	1476128	100.0	104.0	
13 Butadiene	54	1.683	1.683	0.000	97	1428269	100.0	105.0	
14 Bromomethane	96	1.889	1.902	-0.013	89	950206	100.0	77.7	
15 Chloroethane	64	1.962	1.962	0.000	99	989019	100.0	101.1	
16 Dichlorofluoromethane	67	2.096	2.096	0.000	97	2221887	100.0	98.4	
17 Trichlorofluoromethane	101	2.121	2.121	0.000	99	1963126	100.0	105.1	
18 Ethanol	46	2.279	2.279	0.000	94	107518	4000.0	4230.2	
19 Ethyl ether	59	2.297	2.291	0.006	91	726618	100.0	99.4	
21 1,1,2-Trichloro-1,2,2-trif	101	2.425	2.425	0.000	90	1090170	100.0	97.0	
20 Acrolein	56	2.431	2.431	0.000	99	172018	246.9	245.3	
22 1,1-Dichloroethene	96	2.467	2.467	0.000	95	1184988	100.0	99.3	
23 Acetone	58	2.528	2.528	0.000	99	258381	500.0	519.6	
24 Iodomethane	142	2.589	2.589	0.000	97	1624544	100.0	90.6	
26 Isopropyl alcohol	45	2.607	2.607	0.000	99	304301	1000.0	1052.4	
27 Carbon disulfide	76	2.632	2.626	0.006	99	3154998	100.0	97.1	
29 3-Chloro-1-propene	76	2.698	2.699	0.000	42	1002162	100.0	100.1	
30 Methyl acetate	43	2.711	2.705	0.006	97	929902	200.0	203.8	
28 Acetonitrile	40	2.741	2.741	0.000	92	577140	1000.0	1011.6	
31 Methylene Chloride	84	2.796	2.796	0.000	87	1239571	100.0	103.5	
32 2-Methyl-2-propanol	59	2.857	2.857	0.000	100	472308	1000.0	972.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Methyl tert-butyl ether	73	2.917	2.918	-0.001	95	2279867	100.0	98.0	
34 trans-1,2-Dichloroethene	61	2.948	2.942	0.006	95	1601390	100.0	100.7	
33 Acrylonitrile	53	2.984	2.978	0.006	99	2163359	1000.0	953.7	
36 Hexane	57	3.057	3.051	0.006	90	1602135	100.0	101.5	
39 Isopropyl ether	45	3.197	3.197	0.000	94	3275633	100.0	92.3	
38 Vinyl acetate	86	3.234	3.234	0.000	97	382398	200.0	227.2	
37 1,1-Dichloroethane	63	3.234	3.234	0.000	96	2222572	100.0	101.4	
40 2-Chloro-1,3-butadiene	53	3.270	3.270	0.000	97	1689861	100.0	99.9	
41 Tert-butyl ethyl ether	59	3.435	3.435	0.000	94	2992168	100.0	98.0	
43 2,2-Dichloropropane	77	3.599	3.593	0.006	89	1771598	100.0	97.5	
42 cis-1,2-Dichloroethene	96	3.617	3.617	0.000	82	1456665	100.0	100.0	
45 Ethyl acetate	70	3.623	3.623	0.000	54	153174	200.0	198.8	
44 2-Butanone (MEK)	72	3.629	3.629	0.000	100	373509	500.0	501.2	
46 Propionitrile	54	3.721	3.714	0.007	88	848358	1000.0	1001.8	
47 Methacrylonitrile	41	3.794	3.787	0.007	93	3466605	1000.0	866.1	
48 Chlorobromomethane	130	3.794	3.794	0.000	57	800912	100.0	101.4	
49 Tetrahydrofuran	42	3.812	3.806	0.006	84	465649	200.0	202.2	
50 Chloroform	83	3.830	3.824	0.006	91	1980773	100.0	98.8	
51 1,1,1-Trichloroethane	97	3.933	3.927	0.006	98	1800275	100.0	102.3	
52 Cyclohexane	56	3.940	3.940	0.000	89	2070520	100.0	103.2	
54 Carbon tetrachloride	117	4.037	4.031	0.006	99	1658384	100.0	104.6	
53 1,1-Dichloropropene	75	4.037	4.037	0.000	96	1698190	100.0	102.0	
55 Isobutyl alcohol	43	4.140	4.140	0.000	98	1172211	2500.0	2522.4	
56 t-Amyl alcohol	59	4.195	4.189	0.006	63	491865	1000.0	1039.4	
57 Benzene	78	4.201	4.195	0.006	98	4549947	100.0	87.9	
59 Tert-amyl methyl ether	73	4.219	4.213	0.006	97	3052668	100.0	98.1	
58 1,2-Dichloroethane	62	4.244	4.244	0.000	97	1182499	100.0	97.1	
60 n-Heptane	43	4.274	4.268	0.006	95	1366526	100.0	102.7	
61 n-Butanol	56	4.609	4.609	0.000	85	372627	2500.0	2464.0	
62 Trichloroethene	130	4.645	4.645	0.000	95	1498950	100.0	100.3	
63 Ethyl acrylate	55	4.700	4.694	0.006	100	904648	100.0	102.3	
64 Methylcyclohexane	83	4.743	4.743	0.000	85	2270961	100.0	104.5	
65 1,2-Dichloropropane	63	4.846	4.840	0.006	97	1251517	100.0	102.0	
66 Methyl methacrylate	41	4.870	4.870	0.000	87	1377448	200.0	208.8	
68 1,4-Dioxane	88	4.949	4.949	0.000	91	127128	2000.0	2014.6	
67 Dibromomethane	93	4.955	4.956	-0.001	92	581502	100.0	102.9	
69 Dichlorobromomethane	83	5.053	5.053	0.000	99	1536974	100.0	102.4	
71 2-Chloroethyl vinyl ether	63	5.247	5.248	-0.001	94	535013	100.0	118.6	
70 2-Nitropropane	43	5.254	5.248	0.006	99	634089	200.0	245.5	
72 cis-1,3-Dichloropropene	75	5.381	5.381	0.000	97	1825120	100.0	107.1	
73 4-Methyl-2-pentanone (MIBK)	58	5.485	5.485	0.000	93	1245886	500.0	507.8	
74 Toluene	91	5.625	5.619	0.006	94	4632114	100.0	81.9	
75 trans-1,3-Dichloropropene	75	5.838	5.832	0.006	96	1519042	100.0	105.8	
76 Ethyl methacrylate	69	5.838	5.838	0.000	86	1118440	100.0	102.3	
77 1,1,2-Trichloroethane	97	6.002	6.002	0.000	91	850430	100.0	99.7	
78 Tetrachloroethene	166	6.063	6.057	0.006	98	1612136	100.0	100.6	
79 1,3-Dichloropropane	76	6.142	6.142	0.000	87	1524146	100.0	102.8	
80 2-Hexanone	58	6.172	6.166	0.006	92	1152363	500.0	501.9	
81 n-Butyl acetate	43	6.233	6.233	0.000	97	1138352	100.0	101.8	
82 Chlorodibromomethane	127	6.343	6.343	0.000	90	863863	100.0	109.5	
83 Ethylene Dibromide	107	6.452	6.446	0.006	99	857830	100.0	105.5	
84 1-Chlorohexane	91	6.756	6.750	0.006	95	1956576	100.0	104.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 Chlorobenzene	112	6.835	6.829	0.006	93	3493492	100.0	93.6	
87 Ethylbenzene	91	6.890	6.890	0.000	95	5020746	100.0	81.2	
86 1,1,1,2-Tetrachloroethane	131	6.908	6.902	0.006	96	1400957	100.0	108.4	
88 m-Xylene & p-Xylene	91	6.993	6.987	0.006	93	4226281	100.0	88.9	
89 o-Xylene	91	7.365	7.359	0.006	93	4289774	100.0	88.5	
90 Styrene	104	7.389	7.383	0.006	94	3915867	100.0	98.0	
91 Bromoform	173	7.626	7.620	0.006	99	703797	100.0	110.7	
92 Isopropylbenzene	105	7.681	7.681	0.000	96	5217032	100.0	86.9	
93 Cyclohexanone	55	7.882	7.876	0.006	88	207507	1000.0	1022.4	
94 Bromobenzene	156	8.028	8.022	0.006	86	1662722	100.0	100.3	
95 1,1,2,2-Tetrachloroethane	83	8.046	8.046	0.000	96	901949	100.0	100.5	
98 N-Propylbenzene	91	8.070	8.064	0.006	96	5713653	100.0	78.5	
97 trans-1,4-Dichloro-2-buten	53	8.089	8.089	0.000	74	251668	100.0	110.8	
96 1,2,3-Trichloropropane	110	8.095	8.089	0.006	83	299765	100.0	96.4	
100 4-Ethyltoluene	105	8.174	8.168	0.006	92	5277216	NC	NC	
99 2-Chlorotoluene	91	8.186	8.180	0.006	95	4443517	100.0	87.9	
101 1,3,5-Trimethylbenzene	105	8.228	8.228	0.000	95	4582749	100.0	87.0	
102 4-Chlorotoluene	91	8.289	8.283	0.006	94	4070156	100.0	89.1	
103 tert-Butylbenzene	119	8.539	8.539	0.000	92	4325504	100.0	95.5	
104 1,2,4-Trimethylbenzene	105	8.593	8.594	-0.001	94	4592482	100.0	87.2	
106 sec-Butylbenzene	105	8.752	8.746	0.006	94	5409290	100.0	88.7	
108 4-Isopropyltoluene	119	8.885	8.879	0.006	92	4946224	100.0	92.3	
107 1,3-Dichlorobenzene	146	8.910	8.904	0.006	96	3063937	100.0	98.7	
110 Dicyclopentadiene	66	8.977	8.971	0.006	96	5179997	NC	NC	
109 1,4-Dichlorobenzene	146	9.001	8.995	0.006	96	3050634	100.0	97.5	
111 1,2,3-Trimethylbenzene	105	9.013	9.013	0.000	94	4589125	100.0	89.4	
112 Benzyl chloride	91	9.147	9.141	0.006	99	1645278	100.0	104.4	
114 n-Butylbenzene	91	9.287	9.281	0.006	92	4048163	100.0	100.6	
113 1,2-Dichlorobenzene	146	9.372	9.366	0.006	97	2679596	100.0	100.4	
115 1,2-Dibromo-3-Chloropropan	157	10.260	10.260	0.000	91	194050	100.0	104.4	
116 1,3,5-Trichlorobenzene	180	10.431	10.431	0.000	97	2010864	100.0	114.0	
117 1,2,4-Trichlorobenzene	180	11.161	11.161	0.000	94	1640871	100.0	116.5	
118 Hexachlorobutadiene	225	11.288	11.289	-0.001	95	758858	100.0	108.8	
119 Naphthalene	128	11.441	11.435	0.006	97	2922692	100.0	115.0	
120 1,2,3-Trichlorobenzene	180	11.684	11.678	0.006	95	1375463	100.0	115.1	
121 2-Methylnaphthalene	142	12.511	12.505	0.006	93	1733513	100.0	121.0	
122 1-Methylnaphthalene	142	12.694	12.688	0.006	93	1280591	100.0	118.0	
S 135 Xylenes, Total	1				0			177.4	
S 136 1,2-Dichloroethene, Total	1				0			200.6	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

V1_gases_I_00203

Amount Added: 100.00

Units: uL

V1_Mega_I_00064

Amount Added: 100.00

Units: uL

VOA_ISSS_50_W_00035

Amount Added: 5.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP39\\20170316-88178.b\\03161712.D

Injection Date: 16-Mar-2017 20:51:30

Instrument ID: HP39

Operator ID: AQS HP-39

Lims ID: STD 100

Worklist Smp#: 12

Client ID:

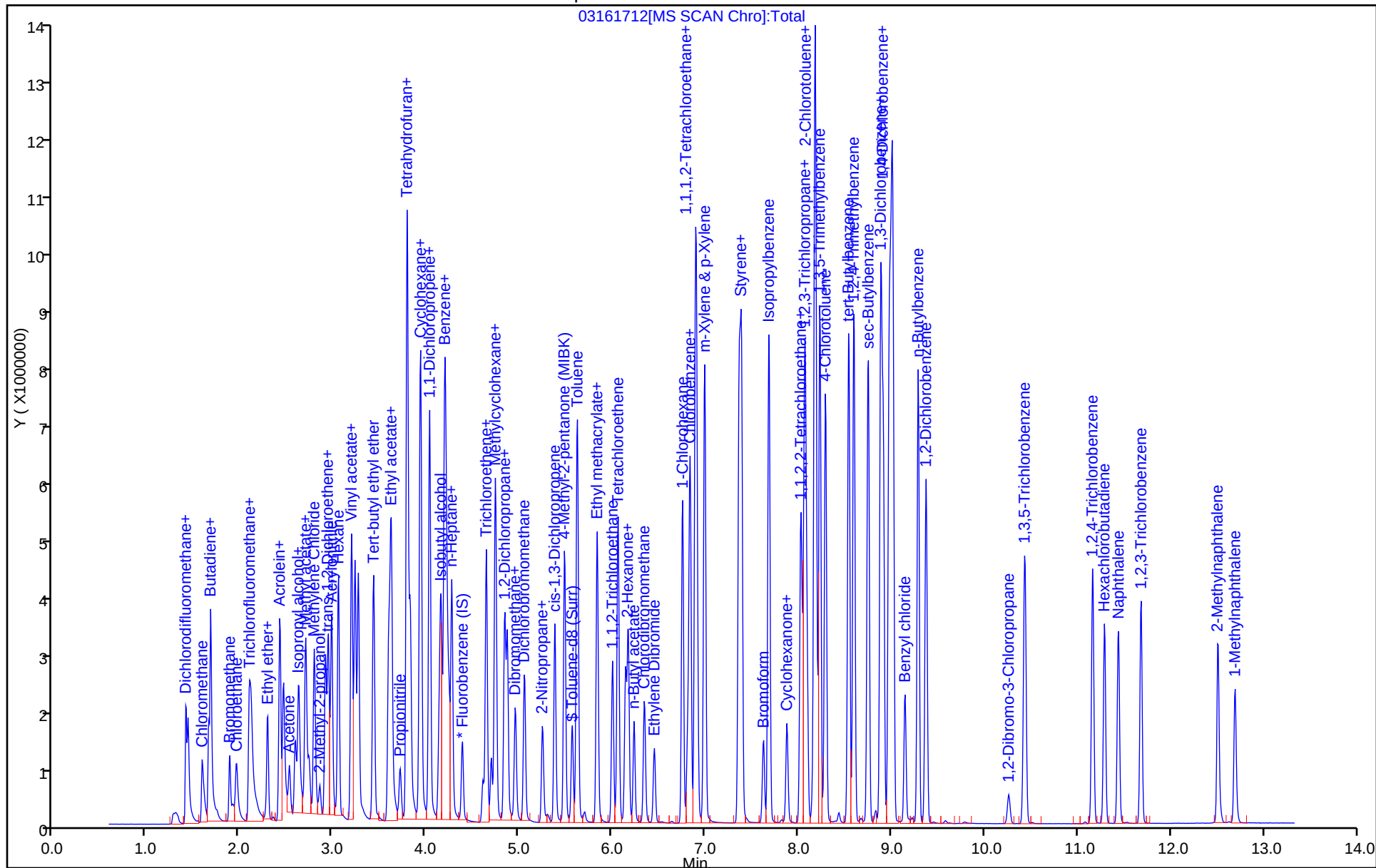
Purge Vol: 10.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 12

Method: 8260HP39

Limit Group: MSV 8260C ICAL



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161713.D
 Lims ID: STD 200
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 16-Mar-2017 21:17:30 ALS Bottle#: 13 Worklist Smp#: 13
 Purge Vol: 10.000 mL Dil. Factor: 1.0000
 Sample Info: STD 200
 Misc. Info.: 490-0088178-013
 Operator ID: AQS HP-39 Instrument ID: HP39
 Sublist: chrom-8260HP39*sub27
 Method: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\8260HP39.m
 Limit Group: MSV 8260C ICAL
 Method Label: 8260B Volatile Organics 8260/SA/NV05-90
 Last Update: 18-Mar-2017 17:24:04 Calib Date: 16-Mar-2017 21:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161714.D

Column 1 : Det: MS SCAN

Process Host: XAWRK011

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.390	4.384	0.006	99	1155696	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.811	6.805	0.006	81	893707	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.983	8.971	0.012	66	523316	25.0	25.0	
\$ 4 Dibromofluoromethane (Surr	111	3.952	3.946	0.006	94	272558	25.0	24.9	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.195	4.189	0.006	51	254447	25.0	25.9	
\$ 6 Toluene-d8 (Surr)	98	5.570	5.564	0.006	92	1106950	25.0	25.1	
\$ 7 4-Bromofluorobenzene (Surr	95	7.876	7.870	0.006	96	403359	25.0	24.2	
9 Propene	41	1.415	1.415	0.000	99	1898610	NC	NC	
10 Dichlorodifluoromethane	85	1.439	1.439	0.000	99	2434225	200.0	182.9	
11 Chloromethane	50	1.591	1.591	0.000	99	2739183	200.0	210.4	
12 Vinyl chloride	62	1.664	1.658	0.006	97	2773283	200.0	185.2	
13 Butadiene	54	1.682	1.683	-0.001	96	2723394	200.0	189.7	
14 Bromomethane	96	1.883	1.902	-0.019	90	1173701	200.0	85.5	
15 Chloroethane	64	1.944	1.962	-0.018	99	1924298	200.0	186.4	
16 Dichlorofluoromethane	67	2.096	2.096	0.000	97	4165292	200.0	174.8	
17 Trichlorofluoromethane	101	2.114	2.121	-0.007	98	3827214	200.0	194.1	
18 Ethanol	46	2.285	2.279	0.006	92	219030	8000.0	8164.4	
19 Ethyl ether	59	2.297	2.291	0.006	92	1426122	200.0	184.9	
21 1,1,2-Trichloro-1,2,2-trif	101	2.425	2.425	0.000	88	2096014	200.0	176.8	
20 Acrolein	56	2.431	2.431	0.000	99	368096	493.8	497.3	
22 1,1-Dichloroethene	96	2.467	2.467	0.000	94	2329752	200.0	184.9	
23 Acetone	58	2.534	2.528	0.006	99	481951	1000.0	919.8	
24 Iodomethane	142	2.589	2.589	0.000	98	3024956	200.0	159.6	
26 Isopropyl alcohol	45	2.619	2.607	0.012	99	596188	2000.0	1957.0	
27 Carbon disulfide	76	2.625	2.626	-0.001	99	5654839	200.0	165.1	
29 3-Chloro-1-propene	76	2.698	2.699	0.000	40	2165108	200.0	205.0	
30 Methyl acetate	43	2.711	2.705	0.006	96	1754855	400.0	364.3	
28 Acetonitrile	40	2.741	2.741	0.000	95	1089900	2000.0	1809.9	
31 Methylene Chloride	84	2.796	2.796	0.000	86	2373193	200.0	188.7	
32 2-Methyl-2-propanol	59	2.863	2.857	0.006	99	976841	2000.0	1905.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Methyl tert-butyl ether	73	2.917	2.918	-0.001	96	4178621	200.0	170.2	
34 trans-1,2-Dichloroethene	61	2.948	2.942	0.006	94	3153930	200.0	187.9	
33 Acrylonitrile	53	2.984	2.978	0.006	98	3922334	2000.0	1638.1	
36 Hexane	57	3.057	3.051	0.006	90	3084826	200.0	185.1	
39 Isopropyl ether	45	3.197	3.197	0.000	90	5466692	200.0	145.9	
37 1,1-Dichloroethane	63	3.240	3.234	0.006	96	4312007	200.0	186.3	
38 Vinyl acetate	86	3.234	3.234	0.000	96	796880	400.0	448.6	
40 2-Chloro-1,3-butadiene	53	3.270	3.270	0.000	93	3134517	200.0	175.5	
41 Tert-butyl ethyl ether	59	3.435	3.435	-0.001	89	5261909	200.0	163.3	
43 2,2-Dichloropropane	77	3.599	3.593	0.006	90	3356757	200.0	175.0	
42 cis-1,2-Dichloroethene	96	3.623	3.617	0.006	80	2833482	200.0	184.2	
45 Ethyl acetate	70	3.623	3.623	0.000	53	308945	400.0	379.8	
44 2-Butanone (MEK)	72	3.635	3.629	0.006	99	743225	1000.0	944.8	
46 Propionitrile	54	3.727	3.714	0.013	87	1657378	2000.0	1854.3	
47 Methacrylonitrile	41	3.800	3.787	0.013	91	5649429	2000.0	1337.3	
48 Chlorobromomethane	130	3.800	3.794	0.006	61	1581516	200.0	189.7	
49 Tetrahydrofuran	42	3.812	3.806	0.006	86	919600	400.0	378.4	
50 Chloroform	83	3.830	3.824	0.006	93	3858029	200.0	182.2	
51 1,1,1-Trichloroethane	97	3.933	3.927	0.006	96	3388498	200.0	182.4	
52 Cyclohexane	56	3.946	3.940	0.006	88	3912198	200.0	184.7	
54 Carbon tetrachloride	117	4.037	4.031	0.006	98	3169656	200.0	189.4	
53 1,1-Dichloropropene	75	4.037	4.037	0.000	93	3187020	200.0	181.4	
55 Isobutyl alcohol	43	4.152	4.140	0.012	97	2350896	5000.0	4792.7	
56 t-Amyl alcohol	59	4.201	4.189	0.012	51	977720	2000.0	1960.1	
57 Benzene	78	4.201	4.195	0.006	96	7150076	200.0	130.8	
59 Tert-amyl methyl ether	73	4.219	4.213	0.006	96	5408194	200.0	164.7	
58 1,2-Dichloroethane	62	4.250	4.244	0.006	95	2285615	200.0	177.7	
60 n-Heptane	43	4.274	4.268	0.006	93	2740361	200.0	195.2	
61 n-Butanol	56	4.615	4.609	0.006	86	754847	5000.0	4729.0	
62 Trichloroethene	130	4.645	4.645	0.000	96	2829537	200.0	179.5	
63 Ethyl acrylate	55	4.700	4.694	0.006	100	1691597	200.0	181.3	
64 Methylcyclohexane	83	4.749	4.743	0.006	85	4242590	200.0	185.0	
65 1,2-Dichloropropane	63	4.846	4.840	0.006	95	2398983	200.0	185.3	
66 Methyl methacrylate	41	4.876	4.870	0.006	93	2719707	400.0	390.6	
68 1,4-Dioxane	88	4.955	4.949	0.006	91	258505	4000.0	3881.2	
67 Dibromomethane	93	4.961	4.956	0.005	92	1107188	200.0	185.8	
69 Dichlorobromomethane	83	5.059	5.053	0.006	97	2928505	200.0	184.9	
70 2-Nitropropane	43	5.254	5.248	0.006	98	1287990	400.0	472.5	
71 2-Chloroethyl vinyl ether	63	5.254	5.248	0.006	94	1077404	200.0	230.0	
72 cis-1,3-Dichloropropene	75	5.387	5.381	0.006	95	3458172	200.0	195.4	
73 4-Methyl-2-pentanone (MIBK)	58	5.491	5.485	0.006	88	2340122	1000.0	918.4	
74 Toluene	91	5.625	5.619	0.006	84	6893437	200.0	117.3	
75 trans-1,3-Dichloropropene	75	5.838	5.832	0.006	95	2885673	200.0	193.6	
76 Ethyl methacrylate	69	5.844	5.838	0.006	88	2148152	200.0	189.2	
77 1,1,2-Trichloroethane	97	6.008	6.002	0.006	91	1664612	200.0	188.0	
78 Tetrachloroethene	166	6.063	6.057	0.006	97	3074781	200.0	184.7	
79 1,3-Dichloropropane	76	6.148	6.142	0.006	87	2909208	200.0	189.0	
80 2-Hexanone	58	6.172	6.166	0.006	90	2163170	1000.0	907.3	
81 n-Butyl acetate	43	6.239	6.233	0.006	97	2040245	200.0	172.9	
82 Chlorodibromomethane	127	6.349	6.343	0.006	90	1701446	200.0	207.7	
83 Ethylene Dibromide	107	6.452	6.446	0.006	100	1675636	200.0	198.4	
84 1-Chlorohexane	91	6.762	6.750	0.012	96	3611537	200.0	182.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 Chlorobenzene	112	6.841	6.829	0.012	85	5782886	200.0	149.2	
87 Ethylbenzene	91	6.896	6.890	0.006	87	7113835	200.0	110.8	
86 1,1,1,2-Tetrachloroethane	131	6.914	6.902	0.012	97	2671594	200.0	199.1	
88 m-Xylene & p-Xylene	91	6.999	6.987	0.012	81	6496658	200.0	131.7	
89 o-Xylene	91	7.365	7.359	0.005	86	6632622	200.0	131.8	
90 Styrene	104	7.395	7.383	0.012	89	6227307	200.0	150.1	
91 Bromoform	173	7.626	7.620	0.006	98	1390589	200.0	210.7	
92 Isopropylbenzene	105	7.687	7.681	0.006	86	7436576	200.0	119.3	
93 Cyclohexanone	55	7.882	7.876	0.006	90	365913	2000.0	1708.0	
94 Bromobenzene	156	8.034	8.022	0.012	86	3059365	200.0	181.6	
95 1,1,2,2-Tetrachloroethane	83	8.052	8.046	0.006	95	1729602	200.0	189.4	
98 N-Propylbenzene	91	8.076	8.064	0.012	94	7855719	200.0	106.2	
96 1,2,3-Trichloropropane	110	8.101	8.089	0.012	83	573735	200.0	181.5	
97 trans-1,4-Dichloro-2-buten	53	8.095	8.089	0.006	71	499688	200.0	216.4	
100 4-Ethyltoluene	105	8.180	8.168	0.012	82	7529939	NC	NC	
99 2-Chlorotoluene	91	8.192	8.180	0.012	88	6954769	200.0	135.2	
101 1,3,5-Trimethylbenzene	105	8.234	8.228	0.006	84	6655524	200.0	124.3	
102 4-Chlorotoluene	91	8.295	8.283	0.012	87	6226661	200.0	134.0	
103 tert-Butylbenzene	119	8.545	8.539	0.006	87	6668713	200.0	144.8	
104 1,2,4-Trimethylbenzene	105	8.599	8.594	0.005	85	6729114	200.0	125.6	
106 sec-Butylbenzene	105	8.752	8.746	0.006	88	7616686	200.0	122.8	
108 4-Isopropyltoluene	119	8.891	8.879	0.012	86	7107425	200.0	130.5	
107 1,3-Dichlorobenzene	146	8.916	8.904	0.012	91	5163870	200.0	163.6	
110 Dicyclopentadiene	66	8.983	8.971	0.012	91	7531908	NC	NC	
109 1,4-Dichlorobenzene	146	9.007	8.995	0.012	88	5055016	200.0	158.8	
111 1,2,3-Trimethylbenzene	105	9.019	9.013	0.006	85	6696286	200.0	128.3	
112 Benzyl chloride	91	9.147	9.141	0.006	97	3088235	200.0	185.7	
114 n-Butylbenzene	91	9.293	9.281	0.012	82	6107772	200.0	149.3	
113 1,2-Dichlorobenzene	146	9.378	9.366	0.012	91	4635544	200.0	170.9	
115 1,2-Dibromo-3-Chloropropan	157	10.266	10.260	0.006	93	380239	200.0	200.8	
116 1,3,5-Trichlorobenzene	180	10.437	10.431	0.006	96	3688958	200.0	205.6	
117 1,2,4-Trichlorobenzene	180	11.167	11.161	0.006	95	3051279	200.0	213.0	
118 Hexachlorobutadiene	225	11.294	11.289	0.005	95	1480010	200.0	208.6	
119 Naphthalene	128	11.441	11.435	0.005	98	5131005	200.0	198.5	
120 1,2,3-Trichlorobenzene	180	11.684	11.678	0.006	95	2562378	200.0	210.8	
121 2-Methylnaphthalene	142	12.511	12.505	0.006	92	3330632	200.0	228.7	
122 1-Methylnaphthalene	142	12.694	12.688	0.006	93	2505848	200.0	227.1	
S 136 1,2-Dichloroethene, Total	1				0			372.1	
S 135 Xylenes, Total	1				0			263.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

V1_gases_I_00203

Amount Added: 200.00

Units: uL

V1_Mega_I_00064

Amount Added: 200.00

Units: uL

VOA_ISSS_50_W_00035

Amount Added: 5.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP39\\20170316-88178.b\\03161713.D

Injection Date: 16-Mar-2017 21:17:30

Instrument ID: HP39

Operator ID: AQS HP-39

Lims ID: STD 200

Worklist Smp#: 13

Client ID:

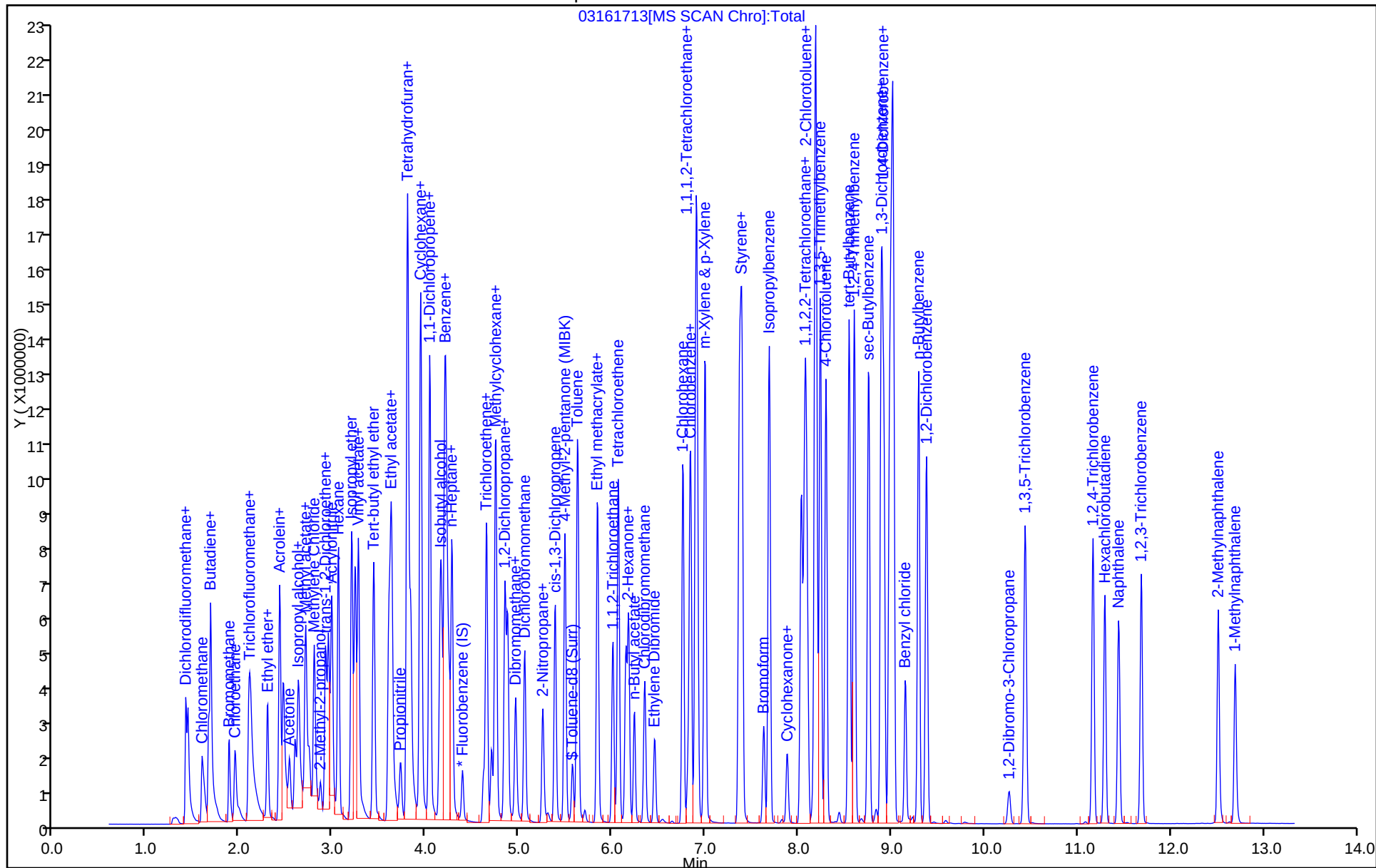
Purge Vol: 10.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 13

Method: 8260HP39

Limit Group: MSV 8260C ICAL



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161714.D
 Lims ID: STD 400
 Client ID:
 Sample Type: IC Calib Level: 10
 Inject. Date: 16-Mar-2017 21:43:30 ALS Bottle#: 14 Worklist Smp#: 14
 Purge Vol: 10.000 mL Dil. Factor: 1.0000
 Sample Info: STD 400
 Misc. Info.: 490-0088178-014
 Operator ID: AQS HP-39 Instrument ID: HP39
 Sublist: chrom-8260HP39*sub27
 Method: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\8260HP39.m
 Limit Group: MSV 8260C ICAL
 Method Label: 8260B Volatile Organics 8260/SA/NV05-90
 Last Update: 18-Mar-2017 17:24:07 Calib Date: 16-Mar-2017 21:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161714.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: himelickm

Date: 18-Mar-2017 14:19:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.390	4.384	0.006	99	1188923	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.817	6.805	0.012	82	937638	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.989	8.971	0.018	58	530942	25.0	25.0	
\$ 4 Dibromofluoromethane (Surr	111	3.952	3.946	0.006	65	281939	25.0	25.1	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.195	4.189	0.006	83	278962	25.0	27.6	
\$ 6 Toluene-d8 (Surr)	98	5.576	5.564	0.012	92	1151578	25.0	24.9	
\$ 7 4-Bromofluorobenzene (Surr	95	7.882	7.870	0.012	89	431544	25.0	25.5	
9 Propene	41	1.415	1.415	0.000	96	3356108	NC	NC	
10 Dichlorodifluoromethane	85	1.439	1.439	0.000	97	4392626	400.0	320.8	
11 Chloromethane	50	1.585	1.591	-0.006	96	5375649	400.0	401.1	
12 Vinyl chloride	62	1.664	1.658	0.006	94	4891683	400.0	317.5	
13 Butadiene	54	1.682	1.683	-0.001	94	5000396	400.0	338.7	
14 Bromomethane	96	1.877	1.902	-0.025	90	2032989	400.0	116.4	
15 Chloroethane	64	1.932	1.962	-0.030	99	3090595	400.0	291.0	
16 Dichlorofluoromethane	67	2.084	2.096	-0.012	95	7558175	400.0	308.4	
17 Trichlorofluoromethane	101	2.102	2.121	-0.019	97	7307416	400.0	360.3	
18 Ethanol	46	2.303	2.279	0.024	89	427644	16000	15495	
19 Ethyl ether	59	2.297	2.291	0.006	92	3002207	400.0	378.4	
21 1,1,2-Trichloro-1,2,2-trif	101	2.425	2.425	0.000	89	4411547	400.0	361.6	
20 Acrolein	56	2.431	2.431	0.000	100	794750	987.5	1043.8	
22 1,1-Dichloroethene	96	2.461	2.467	-0.006	92	4489257	400.0	346.3	
23 Acetone	58	2.534	2.528	0.006	98	1019205	2000.0	1893.0	
24 Iodomethane	142	2.589	2.589	0.000	99	4913677	400.0	251.9	
26 Isopropyl alcohol	45	2.631	2.607	0.024	99	1273519	4000.0	4068.2	
27 Carbon disulfide	76	2.625	2.626	-0.001	99	8754475	400.0	248.5	
29 3-Chloro-1-propene	76	2.698	2.699	0.000	41	4481273	400.0	412.6	
30 Methyl acetate	43	2.711	2.705	0.005	95	3243027	800.0	654.5	
28 Acetonitrile	40	2.747	2.741	0.006	98	2159971	4000.0	3486.7	
31 Methylene Chloride	84	2.796	2.796	0.000	82	4634374	400.0	359.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 2-Methyl-2-propanol	59	2.881	2.857	0.024	98	1893995	4000.0	3590.8	
35 Methyl tert-butyl ether	73	2.917	2.918	-0.001	97	6785094	400.0	268.7	
34 trans-1,2-Dichloroethene	61	2.948	2.942	0.006	97	5818643	400.0	336.9	
33 Acrylonitrile	53	2.990	2.978	0.012	93	6626705	4000.0	2690.2	
36 Hexane	57	3.051	3.051	0.000	92	5161262	400.0	301.1	
39 Isopropyl ether	45	3.197	3.197	0.000	73	8313003	400.0	215.7	
38 Vinyl acetate	86	3.240	3.234	0.006	95	1624580	800.0	889.0	
37 1,1-Dichloroethane	63	3.240	3.234	0.006	96	7873159	400.0	330.6	
40 2-Chloro-1,3-butadiene	53	3.270	3.270	0.000	83	5135385	400.0	279.5	
41 Tert-butyl ethyl ether	59	3.434	3.435	-0.001	75	8038299	400.0	242.5	
43 2,2-Dichloropropane	77	3.599	3.593	0.006	91	5662920	400.0	287.0	
42 cis-1,2-Dichloroethene	96	3.623	3.617	0.006	76	5412195	400.0	342.0	
45 Ethyl acetate	70	3.629	3.623	0.006	52	640253	800.0	765.1	
44 2-Butanone (MEK)	72	3.641	3.629	0.012	100	1521352	2000.0	1879.9	
46 Propionitrile	54	3.733	3.714	0.019	87	3241737	4000.0	3525.5	
47 Methacrylonitrile	41	3.806	3.787	0.019	89	8434436	4000.0	1940.8	
48 Chlorobromomethane	130	3.799	3.794	0.005	87	3155849	400.0	368.0	
49 Tetrahydrofuran	42	3.818	3.806	0.012	76	1810828	800.0	724.2	
50 Chloroform	83	3.836	3.824	0.012	93	6812137	400.0	312.8	
51 1,1,1-Trichloroethane	97	3.939	3.927	0.012	89	5675450	400.0	297.0	
52 Cyclohexane	56	3.945	3.940	0.005	87	6418709	400.0	294.5	
54 Carbon tetrachloride	117	4.037	4.031	0.006	95	5365357	400.0	311.6	
53 1,1-Dichloropropene	75	4.043	4.037	0.006	84	5292497	400.0	292.8	
55 Isobutyl alcohol	43	4.158	4.140	0.018	90	4201115	10000	8325.4	
56 t-Amyl alcohol	59	4.213	4.189	0.024	59	2031305	4000.0	3961.6	
57 Benzene	78	4.201	4.195	0.006	83	9805352	400.0	174.4	
59 Tert-amyl methyl ether	73	4.225	4.213	0.012	89	8034349	400.0	237.9	
58 1,2-Dichloroethane	62	4.250	4.244	0.006	95	4185797	400.0	316.4	
60 n-Heptane	43	4.280	4.268	0.012	84	5031680	400.0	348.4	
61 n-Butanol	56	4.627	4.609	0.018	86	1446485	10000	8808.7	
62 Trichloroethene	130	4.651	4.645	0.006	93	4968997	400.0	306.3	
63 Ethyl acrylate	55	4.706	4.694	0.012	99	3377127	400.0	351.8	
64 Methylcyclohexane	83	4.748	4.743	0.005	83	6825267	400.0	289.3	
65 1,2-Dichloropropane	63	4.852	4.840	0.012	88	4314253	400.0	323.9	
66 Methyl methacrylate	41	4.876	4.870	0.006	90	4717975	800.0	658.7	
68 1,4-Dioxane	88	4.961	4.949	0.012	91	534795	8000.0	7805.0	
67 Dibromomethane	93	4.961	4.956	0.005	97	2114333	400.0	345.0	
69 Dichlorobromomethane	83	5.059	5.053	0.006	91	5074696	400.0	311.5	
71 2-Chloroethyl vinyl ether	63	5.253	5.248	0.005	95	2135864	400.0	434.6	
70 2-Nitropropane	43	5.260	5.248	0.012	98	2592311	800.0	924.3	
72 cis-1,3-Dichloropropene	75	5.387	5.381	0.006	91	5769213	400.0	310.7	
73 4-Methyl-2-pentanone (MIBK)	58	5.497	5.485	0.012	73	4313994	2000.0	1613.8	
74 Toluene	91	5.631	5.619	0.012	74	9029595	400.0	146.5	
75 trans-1,3-Dichloropropene	75	5.844	5.832	0.012	93	5013775	400.0	320.6	
76 Ethyl methacrylate	69	5.850	5.838	0.012	90	3913767	400.0	328.5	
77 1,1,2-Trichloroethane	97	6.014	6.002	0.012	91	3140523	400.0	338.1	
78 Tetrachloroethene	166	6.069	6.057	0.012	90	5273483	400.0	302.0	
79 1,3-Dichloropropane	76	6.148	6.142	0.006	91	5074391	400.0	314.3	
80 2-Hexanone	58	6.178	6.166	0.012	83	3970133	2000.0	1587.3	
81 n-Butyl acetate	43	6.239	6.233	0.006	98	3688774	400.0	303.9	
82 Chlorodibromomethane	127	6.355	6.343	0.012	91	3229216	400.0	375.9	
83 Ethylene Dibromide	107	6.458	6.446	0.012	100	3155619	400.0	356.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1-Chlorohexane	91	6.762	6.750	0.012	90	5897289	400.0	289.7	
85 Chlorobenzene	112	6.847	6.829	0.018	83	8092136	400.0	199.0	
87 Ethylbenzene	91	6.902	6.890	0.012	91	8983852	400.0	133.4	
86 1,1,1,2-Tetrachloroethane	131	6.920	6.902	0.018	95	4672804	400.0	331.9	
88 m-Xylene & p-Xylene	91	6.999	6.987	0.012	88	8580870	400.0	165.7	
89 o-Xylene	91	7.371	7.359	0.012	77	8990350	400.0	170.2	
90 Styrene	104	7.401	7.383	0.018	84	8347603	400.0	191.8	
91 Bromoform	173	7.632	7.620	0.012	96	2678034	400.0	386.8	
92 Isopropylbenzene	105	7.693	7.681	0.012	64	9341258	400.0	142.8	
93 Cyclohexanone	55	7.888	7.876	0.012	89	716724	4000.0	3252.0	
94 Bromobenzene	156	8.034	8.022	0.012	84	5182396	400.0	303.1	
95 1,1,2,2-Tetrachloroethane	83	8.058	8.046	0.012	95	3268960	400.0	352.9	
98 N-Propylbenzene	91	8.082	8.064	0.018	92	10167562	400.0	135.5	
97 trans-1,4-Dichloro-2-buten	53	8.101	8.089	0.012	74	1029816	400.0	439.6	
96 1,2,3-Trichloropropane	110	8.107	8.089	0.018	85	1150227	400.0	358.6	
100 4-Ethyltoluene	105	8.186	8.168	0.018	75	9552649	NC	NC	
99 2-Chlorotoluene	91	8.198	8.180	0.018	80	9280145	400.0	177.9	
101 1,3,5-Trimethylbenzene	105	8.247	8.228	0.019	64	8563994	400.0	157.6	
102 4-Chlorotoluene	91	8.307	8.283	0.024	83	8418058	400.0	178.6	
103 tert-Butylbenzene	119	8.551	8.539	0.012	84	9025425	400.0	193.1	
104 1,2,4-Trimethylbenzene	105	8.605	8.594	0.011	67	8612143	400.0	158.5	
106 sec-Butylbenzene	105	8.764	8.746	0.018	84	9634360	400.0	153.2	
108 4-Isopropyltoluene	119	8.897	8.879	0.018	66	8870523	400.0	160.5	
107 1,3-Dichlorobenzene	146	8.922	8.904	0.018	79	7506734	400.0	234.5	
110 Dicyclopentadiene	66	8.989	8.971	0.018	80	9621036	NC	NC	
109 1,4-Dichlorobenzene	146	9.013	8.995	0.018	76	7114337	400.0	220.3	
111 1,2,3-Trimethylbenzene	105	9.031	9.013	0.018	92	8363487	400.0	157.9	
112 Benzyl chloride	91	9.153	9.141	0.012	93	5302380	400.0	301.4	
114 n-Butylbenzene	91	9.299	9.281	0.018	92	7867393	400.0	189.5	
113 1,2-Dichlorobenzene	146	9.384	9.366	0.018	79	6899067	400.0	250.7	
115 1,2-Dibromo-3-Chloropropan	157	10.266	10.260	0.006	94	766417	400.0	398.6	
116 1,3,5-Trichlorobenzene	180	10.443	10.431	0.012	92	6179174	400.0	339.5	
117 1,2,4-Trichlorobenzene	180	11.173	11.161	0.012	94	5196749	400.0	357.5	
118 Hexachlorobutadiene	225	11.301	11.289	0.011	96	2785551	400.0	387.0	
119 Naphthalene	128	11.447	11.435	0.012	95	7725481	400.0	294.6	
120 1,2,3-Trichlorobenzene	180	11.690	11.678	0.012	93	4510388	400.0	365.8	
121 2-Methylnaphthalene	142	12.511	12.505	0.006	91	5747364	400.0	388.9	
122 1-Methylnaphthalene	142	12.700	12.688	0.012	93	4597506	400.0	410.7	
S 135 Xylenes, Total	1				0			336.0	
S 136 1,2-Dichloroethene, Total	1				0			679.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

V1_gases_I_00203

Amount Added: 400.00

Units: uL

V1_Mega_I_00064

Amount Added: 400.00

Units: uL

VOA_ISSS_50_W_00035

Amount Added: 5.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP39\\20170316-88178.b\\03161714.D

Injection Date: 16-Mar-2017 21:43:30

Instrument ID: HP39

Operator ID: AQS HP-39

Lims ID: STD 400

Worklist Smp#: 14

Client ID:

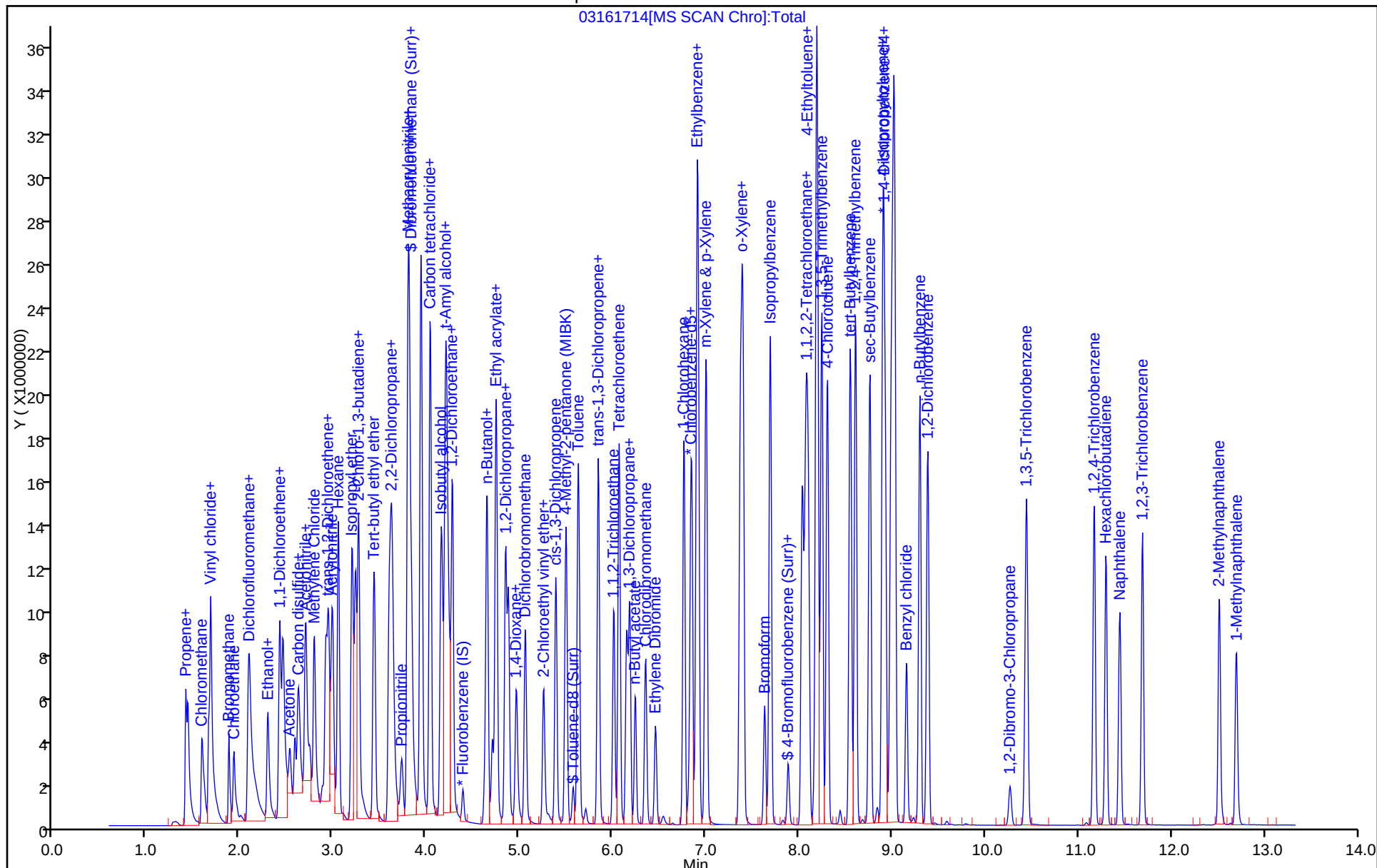
Purge Vol: 10.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 14

Method: 8260HP39

Limit Group: MSV 8260C ICAL



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
SDG No.: _____
Lab Sample ID: ICV 490-385231/13 Calibration Date: 11/09/2016 04:16
Instrument ID: HP33 Calib Start Date: 08/19/2016 18:11
GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 08/19/2016 21:46
Lab File ID: 11081619.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
Acetonitrile	Lin1		0.0395	0.0010		200		30.0

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081619.D
 Lims ID: icv
 Client ID:
 Sample Type: ICV
 Inject. Date: 09-Nov-2016 04:16:30 ALS Bottle#: 19 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICV
 Operator ID: JJR Instrument ID: HP33
 Sublist:

Method: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 12-Nov-2016 12:39:18 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: redmondj Date: 12-Nov-2016 12:37:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.620	3.616	0.004	98	831069	30.0	30.0	
* 2 Chlorobenzene-d5	117	5.932	5.934	-0.002	87	630326	30.0	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.098	8.100	-0.002	94	302405	30.0	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.207	3.203	0.004	98	207375	30.0	29.8	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.432	3.434	-0.002	0	228577	30.0	29.5	
\$ 7 Toluene-d8 (Surr)	98	4.727	4.723	0.004	99	846036	30.0	30.3	
\$ 8 4-Bromofluorobenzene (Surr	95	7.003	7.005	-0.002	94	289696	30.0	30.5	
11 Propene	41	1.181	1.183	-0.002	97	26779	NC	NC	
12 Dichlorodifluoromethane	85	1.205	1.201	0.004	100	80213	20.0	19.1	
13 Chloromethane	50	1.302	1.304	-0.002	99	150047	20.0	20.2	E
14 Vinyl chloride	62	1.351	1.347	0.004	99	163667	20.0	19.9	
15 Butadiene	54	1.357	1.359	-0.002	96	169091	20.0	20.3	
16 Bromomethane	96	1.515	1.517	-0.002	99	83618	20.0	23.8	
17 Chloroethane	64	1.570	1.566	0.004	99	103097	20.0	19.2	
18 Dichlorofluoromethane	67	1.667	1.669	-0.002	99	251517	20.0	20.3	
19 Trichlorofluoromethane	101	1.673	1.669	0.004	98	191284	20.0	20.3	
20 Ethanol	46	1.807	1.809	-0.002	86	23296	800.0	756.6	
21 Ethyl ether	59	1.819	1.815	0.004	92	125944	20.0	20.4	
22 1,1,2-Trichloro-1,2,2-trif	101	1.923	1.919	0.004	97	127239	20.0	19.3	
23 Acrolein	56	1.929	1.925	0.004	36	20292	50.0	65.6	
24 1,1-Dichloroethene	96	1.947	1.943	0.004	99	123633	20.0	20.3	
25 Acetone	58	2.002	2.004	-0.002	86	54322	100.0	90.2	
26 Iodomethane	142	2.045	2.047	-0.002	97	113533	20.0	15.0	
27 Isopropyl alcohol	45	2.063	2.065	-0.002	29	56515	200.0	168.3	
28 Carbon disulfide	76	2.075	2.071	0.004	99	363953	20.0	19.0	
30 3-Chloro-1-propene	76	2.136	2.132	0.004	89	129745	20.0	19.3	
31 Methyl acetate	43	2.148	2.144	0.004	99	456025	100.0	92.9	
32 Acetonitrile	41	2.136	2.180	-0.044	72	218929	NC	NC	
33 Methylene Chloride	84	2.221	2.217	0.004	94	146822	20.0	18.5	
34 2-Methyl-2-propanol	59	2.264	2.266	-0.002	97	94214	200.0	177.3	
35 Methyl tert-butyl ether	73	2.324	2.320	0.004	97	393713	20.0	20.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 trans-1,2-Dichloroethene	61	2.337	2.333	0.004	97	201868	20.0	20.5	
37 Acrylonitrile	53	2.379	2.381	-0.002	95	487138	200.0	207.2	
38 Hexane	57	2.440	2.436	0.004	93	219056	20.0	18.5	
39 Isopropyl ether	45	2.574	2.570	0.004	91	505743	20.0	19.9	
40 1,1-Dichloroethane	63	2.586	2.582	0.004	100	258894	20.0	20.1	
41 Vinyl acetate	86	2.592	2.588	0.004	100	64273	40.0	38.0	
42 2-Chloro-1,3-butadiene	53	2.622	2.618	0.004	92	239540	20.0	20.3	
43 Tert-butyl ethyl ether	59	2.775	2.771	0.004	90	461052	20.0	20.5	
44 2,2-Dichloropropane	77	2.902	2.904	-0.002	97	187088	20.0	18.8	
45 cis-1,2-Dichloroethene	96	2.927	2.923	0.004	95	157285	20.0	20.4	
46 Ethyl acetate	70	2.933	2.935	-0.002	95	28774	40.0	38.1	
47 2-Butanone (MEK)	72	2.939	2.935	0.004	96	71966	100.0	98.0	
48 Propionitrile	54	3.018	3.014	0.004	99	175984	200.0	194.9	
49 Chlorobromomethane	130	3.073	3.069	0.004	89	92767	20.0	21.1	
50 Methacrylonitrile	41	3.079	3.075	0.004	93	818767	200.0	195.8	
51 Tetrahydrofuran	42	3.085	3.081	0.004	79	99792	40.0	38.7	
52 Chloroform	83	3.103	3.099	0.004	99	233262	20.0	19.7	
53 Cyclohexane	56	3.194	3.190	0.004	95	275680	20.0	19.9	
54 1,1,1-Trichloroethane	97	3.200	3.196	0.004	98	198518	20.0	19.8	
56 Carbon tetrachloride	117	3.279	3.282	-0.003	98	166341	20.0	19.9	
57 1,1-Dichloropropene	75	3.298	3.300	-0.002	96	192371	20.0	20.0	
58 Isobutyl alcohol	43	3.395	3.397	-0.002	89	211483	500.0	457.2	
59 Benzene	78	3.432	3.428	0.004	97	590605	20.0	20.0	
60 t-Amyl alcohol	59	3.444	3.440	0.004	76	86464	200.0	186.2	
61 Tert-amyl methyl ether	73	3.474	3.470	0.004	99	462506	20.0	20.3	
62 1,2-Dichloroethane	62	3.486	3.482	0.004	97	183144	20.0	20.3	
63 n-Heptane	43	3.529	3.525	0.004	91	228834	20.0	18.4	
64 n-Butanol	56	3.839	3.835	0.004	89	66514	500.0	474.0	
65 Trichloroethene	130	3.857	3.853	0.004	97	151370	20.0	20.0	
66 Ethyl acrylate	55	3.937	3.933	0.004	99	385023	20.0	19.6	
67 Methylcyclohexane	83	3.937	3.939	-0.003	89	274305	20.0	19.5	
68 1,2-Dichloropropane	63	4.040	4.036	0.004	90	151011	20.0	20.0	
69 Methyl methacrylate	41	4.089	4.085	0.004	90	254178	40.0	35.4	
70 Dibromomethane	93	4.131	4.127	0.004	93	77971	20.0	19.7	
71 1,4-Dioxane	88	4.137	4.133	0.004	34	26031	400.0	392.2	
73 Dichlorobromomethane	83	4.229	4.225	0.004	100	167846	20.0	20.7	
75 2-Chloroethyl vinyl ether	63	4.448	4.444	0.004	98	88055	20.0	20.0	
74 2-Nitropropane	43	4.441	4.444	-0.003	97	127538	40.0	35.4	
76 cis-1,3-Dichloropropene	75	4.557	4.559	-0.002	94	232129	20.0	20.0	
77 4-Methyl-2-pentanone (MIBK)	58	4.667	4.669	-0.002	97	251058	100.0	99.2	
78 Toluene	91	4.776	4.778	-0.002	94	634848	20.0	20.2	
79 trans-1,3-Dichloropropene	75	5.007	5.009	-0.002	98	192154	20.0	19.6	
80 Ethyl methacrylate	69	5.025	5.028	-0.003	90	183599	20.0	20.4	
81 1,1,2-Trichloroethane	97	5.153	5.149	0.004	96	117079	20.0	19.7	
82 Tetrachloroethene	166	5.196	5.198	-0.002	98	166934	20.0	20.4	
83 1,3-Dichloropropane	76	5.293	5.295	-0.002	94	210308	20.0	20.5	
84 2-Hexanone	58	5.336	5.338	-0.002	96	202277	100.0	98.2	
85 n-Butyl acetate	43	5.415	5.411	0.004	98	187956	20.0	19.1	
86 Chlorodibromomethane	127	5.457	5.453	0.004	98	91750	20.0	19.9	
87 Ethylene Dibromide	107	5.561	5.563	-0.002	99	113149	20.0	20.2	
88 1-Chlorohexane	91	5.914	5.916	-0.002	89	201072	20.0	19.8	
89 Chlorobenzene	112	5.956	5.958	-0.002	95	401881	20.0	20.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
90 Ethylbenzene	91	6.023	6.025	-0.002	98	689743	20.0	20.8	
91 1,1,1,2-Tetrachloroethane	131	6.035	6.037	-0.002	94	138137	20.0	20.7	
92 m-Xylene & p-Xylene	91	6.133	6.129	0.004	0	531768	20.0	20.8	
93 o-Xylene	91	6.492	6.488	0.004	94	545497	20.0	21.2	
94 Styrene	104	6.516	6.518	-0.002	96	452084	20.0	21.0	
95 Bromoform	173	6.704	6.707	-0.003	98	74482	20.0	20.6	
96 Isopropylbenzene	105	6.814	6.810	0.004	96	702298	20.0	21.6	
97 Cyclohexanone	55	6.972	6.974	-0.002	95	33514	200.0	180.4	
98 Bromobenzene	77	7.130	7.132	-0.002	95	251919	20.0	20.8	
99 1,1,2,2-Tetrachloroethane	83	7.173	7.169	0.004	97	127610	20.0	19.6	
100 N-Propylbenzene	91	7.197	7.199	-0.002	99	815546	20.0	21.0	
101 1,2,3-Trichloropropane	110	7.216	7.212	0.004	97	41737	20.0	19.6	
102 trans-1,4-Dichloro-2-buten	53	7.234	7.230	0.004	77	34264	20.0	18.3	
103 2-Chlorotoluene	91	7.307	7.303	0.004	96	540182	20.0	20.7	
104 4-Ethyltoluene	105	7.313	7.309	0.004	98	680480	NC	NC	
105 1,3,5-Trimethylbenzene	105	7.380	7.376	0.004	94	615174	20.0	20.8	
106 4-Chlorotoluene	91	7.416	7.418	-0.002	96	501320	20.0	20.8	
107 tert-Butylbenzene	119	7.666	7.668	-0.002	95	511915	20.0	21.1	
108 1,2,4-Trimethylbenzene	105	7.739	7.735	0.004	97	578530	20.0	21.4	
110 sec-Butylbenzene	105	7.885	7.881	0.004	99	758663	20.0	21.1	
112 4-Isopropyltoluene	119	8.025	8.027	-0.002	98	648860	20.0	21.4	
111 1,3-Dichlorobenzene	146	8.031	8.027	0.004	71	314968	20.0	20.8	
113 Dicyclopentadiene	66	8.079	8.081	-0.002	96	728601	NC	NC	
114 1,4-Dichlorobenzene	146	8.122	8.124	-0.002	95	307534	20.0	19.8	
115 1,2,3-Trimethylbenzene	105	8.146	8.142	0.004	98	581456	20.0	21.0	
116 Benzyl chloride	91	8.262	8.264	-0.002	99	192630	20.0	17.6	
117 n-Butylbenzene	91	8.432	8.428	0.004	98	536660	20.0	20.6	
118 1,2-Dichlorobenzene	146	8.487	8.483	0.004	97	279262	20.0	20.5	
119 1,2-Dibromo-3-Chloropropan	157	9.278	9.274	0.004	94	19758	20.0	18.2	
120 1,3,5-Trichlorobenzene	180	9.436	9.432	0.004	98	197889	20.0	20.5	
121 1,2,4-Trichlorobenzene	180	10.148	10.150	-0.002	94	139521	20.0	20.2	
122 Hexachlorobutadiene	225	10.300	10.302	-0.002	96	93706	20.0	20.9	
123 Naphthalene	128	10.452	10.454	-0.002	99	255229	20.0	22.3	
124 1,2,3-Trichlorobenzene	180	10.756	10.752	0.004	95	110286	20.0	23.6	
125 2-Methylnaphthalene	142	11.699	11.701	-0.002	86	250303	20.0	98.1	
126 1-Methylnaphthalene	142	11.882	11.884	-0.002	93	216114	20.0	116.1	
S 148 Xylenes, Total	1				0		40.0	42.0	
S 149 1,2-Dichloroethene, Total	1				0		40.0	41.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

Reagents:

V2_gases_I_00141

Amount Added: 20.00

Units: uL

V2_Mega_I_00068

Amount Added: 20.00

Units: uL

VOA_ISSS150_W_00014

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20161109-82377.b\\11081619.D

Injection Date: 09-Nov-2016 04:16:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: icv

Worklist Smp#: 13

Client ID:

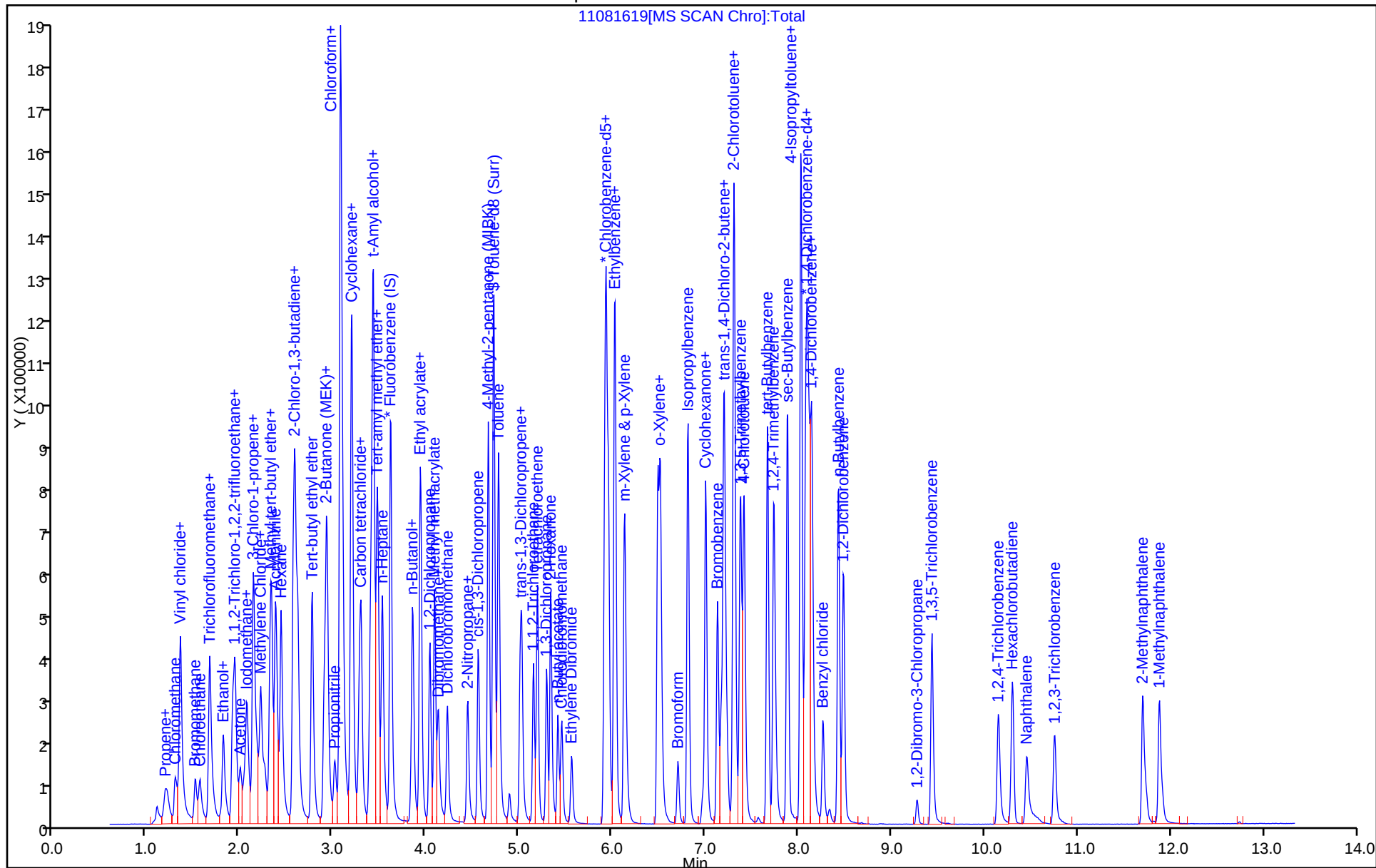
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 19

Method: 8260HP33

Limit Group: MSV 8260C ICAL



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 480-117063-1

SDG No.: _____

Lab Sample ID: ICV 490-385231/13 Calibration Date: 11/09/2016 04:16

Instrument ID: HP33 Calib Start Date: 11/08/2016 23:21

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 11/09/2016 02:55

Lab File ID: 11081619.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	0.1519	0.1448	0.1000	19.1	20.0	-4.7	30.0
Chloromethane	Ave	0.2683	0.2708	0.1000	20.2	20.0	1.0	30.0
Vinyl chloride	Ave	0.2975	0.2954	0.1000	19.9	20.0	-0.7	30.0
Butadiene	Ave	0.3010	0.3052	0.1000	20.3	20.0	1.4	30.0
Bromomethane	Lin2		0.1509	0.1000	23.8	20.0	19.2	30.0
Chloroethane	Ave	0.1935	0.1861	0.1000	19.2	20.0	-3.9	30.0
Dichlorofluoromethane	Ave	0.4481	0.4540	0.1000	20.3	20.0	1.3	30.0
Trichlorofluoromethane	Ave	0.3405	0.3453	0.1000	20.3	20.0	1.4	30.0
Ethanol	Lin1		0.0011	0.0010	757	800	-5.4	40.0
Ethyl ether	Ave	0.2229	0.2273	0.1000	20.4	20.0	2.0	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2376	0.2297	0.1000	19.3	20.0	-3.3	30.0
Acrolein	Ave	0.0112	0.0147	0.0100	65.6	50.0	31.3	40.0
1,1-Dichloroethene	Ave	0.2196	0.2232	0.1000	20.3	20.0	1.6	30.0
Acetone	Ave	0.0217	0.0196	0.0100	90.2	100	-9.8	30.0
Iodomethane	Ave	0.2727	0.2049	0.1000	15.0	20.0	-24.9	30.0
Isopropyl alcohol	Ave	0.0121	0.0102	0.0010	168	200	-15.9	30.0
Carbon disulfide	Ave	0.6920	0.6569	0.1000	19.0	20.0	-5.1	30.0
3-Chloro-1-propene	Ave	0.2431	0.2342	0.1000	19.3	20.0	-3.7	30.0
Methyl acetate	Ave	0.1772	0.1646	0.1000	92.9	100	-7.1	30.0
Methylene Chloride	Ave	0.2861	0.2650	0.0100	18.5	20.0	-7.4	30.0
2-Methyl-2-propanol	Ave	0.0192	0.0170	0.0010	177	200	-11.4	40.0
Methyl tert-butyl ether	Ave	0.6955	0.7106	0.1000	20.4	20.0	2.2	30.0
trans-1,2-Dichloroethene	Ave	0.3547	0.3644	0.1000	20.5	20.0	2.7	30.0
Acrylonitrile	Ave	0.0849	0.0879	0.0100	207	200	3.6	30.0
n-Hexane	Ave	0.4283	0.3954	0.1000	18.5	20.0	-7.7	30.0
Isopropyl ether	Ave	0.9197	0.9128	0.1000	19.9	20.0	-0.7	30.0
1,1-Dichloroethane	Ave	0.4658	0.4673	0.2000	20.1	20.0	0.3	30.0
Vinyl acetate	Lin2		0.0580*	0.1000	38.0	40.0	-5.0	40.0
2-Chloro-1,3-butadiene	Ave	0.4256	0.4324	0.1000	20.3	20.0	1.6	30.0
Tert-butyl ethyl ether	Ave	0.8135	0.8322	0.1000	20.5	20.0	2.3	30.0
2,2-Dichloropropane	Ave	0.3591	0.3377	0.1000	18.8	20.0	-6.0	30.0
cis-1,2-Dichloroethene	Ave	0.2780	0.2839	0.1000	20.4	20.0	2.1	30.0
Ethyl acetate	Ave	0.0273	0.0260	0.0100	38.1	40.0	-4.9	30.0
2-Butanone (MEK)	Ave	0.0265	0.0260	0.0100	98.0	100	-2.0	30.0
Propionitrile	Ave	0.0326	0.0318	0.0100	195	200	-2.5	30.0
Chlorobromomethane	Ave	0.1587	0.1674	0.1000	21.1	20.0	5.5	30.0
Methacrylonitrile	Ave	0.1510	0.1478	0.1000	196	200	-2.1	30.0
Tetrahydrofuran	Ave	0.0932	0.0901	0.0500	38.7	40.0	-3.4	30.0
Chloroform	Ave	0.4276	0.4210	0.2000	19.7	20.0	-1.5	30.0
Cyclohexane	Ave	0.5002	0.4976	0.1000	19.9	20.0	-0.5	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 480-117063-1

SDG No.: _____

Lab Sample ID: ICV 490-385231/13 Calibration Date: 11/09/2016 04:16

Instrument ID: HP33 Calib Start Date: 11/08/2016 23:21

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 11/09/2016 02:55

Lab File ID: 11081619.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	0.3616	0.3583	0.1000	19.8	20.0	-0.9	30.0
Carbon tetrachloride	Ave	0.3011	0.3002	0.1000	19.9	20.0	-0.3	30.0
1,1-Dichloropropene	Ave	0.3464	0.3472	0.1000	20.0	20.0	0.2	30.0
Isobutyl alcohol	Ave	0.0167	0.0153	0.0010	457	500	-8.6	30.0
Benzene	Ave	1.065	1.066	0.5000	20.0	20.0	0.1	30.0
t-Amyl alcohol	Ave	0.0168	0.0156	0.0010	186	200	-6.9	40.0
Tert-amyl methyl ether	Ave	0.8244	0.8348	0.1000	20.3	20.0	1.3	30.0
1,2-Dichloroethane	Ave	0.3262	0.3306	0.1000	20.3	20.0	1.3	30.0
n-Heptane	Ave	0.4492	0.4130	0.1000	18.4	20.0	-8.1	30.0
n-Butanol	Ave	0.0051	0.0048	0.0010	474	500	-5.2	30.0
Trichloroethene	Ave	0.2738	0.2732	0.2000	20.0	20.0	-0.2	30.0
Ethyl acrylate	Ave	0.7099	0.6949	0.1000	19.6	20.0	-2.1	
Methylcyclohexane	Ave	0.5066	0.4951	0.1000	19.5	20.0	-2.3	30.0
1,2-Dichloropropane	Ave	0.2724	0.2726	0.1000	20.0	20.0	0.0	30.0
Methyl methacrylate	Lin2		0.2294	0.1000	35.4	40.0	-11.5	30.0
Dibromomethane	Ave	0.1430	0.1407	0.0500	19.7	20.0	-1.6	30.0
1,4-Dioxane	Ave	0.0024	0.0024	0.0010	392	400	-1.9	30.0
Bromodichloromethane	Ave	0.2934	0.3030	0.2000	20.7	20.0	3.3	30.0
2-Nitropropane	Ave	0.1301	0.1151	0.0100	35.4	40.0	-11.5	30.0
2-Chloroethyl vinyl ether	Ave	0.2092	0.2096	0.1000	20.0	20.0	0.2	30.0
cis-1,3-Dichloropropene	Ave	0.5517	0.5524	0.2000	20.0	20.0	0.1	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1205	0.1195	0.0500	99.2	100	-0.8	30.0
Toluene	Ave	1.497	1.511	0.4000	20.2	20.0	0.9	30.0
trans-1,3-Dichloropropene	Ave	0.4656	0.4573	0.0100	19.6	20.0	-1.8	30.0
Ethyl methacrylate	Ave	0.4289	0.4369	0.1000	20.4	20.0	1.9	30.0
1,1,2-Trichloroethane	Ave	0.2826	0.2786	0.1000	19.7	20.0	-1.4	30.0
Tetrachloroethene	Ave	0.3893	0.3973	0.2000	20.4	20.0	2.0	30.0
1,3-Dichloropropane	Ave	0.4876	0.5005	0.1000	20.5	20.0	2.6	30.0
2-Hexanone	Ave	0.0981	0.0963	0.0500	98.2	100	-1.8	30.0
n-Butyl acetate	Ave	0.3549	0.3392	0.1000	19.1	20.0	-4.4	30.0
Dibromochloromethane	Ave	0.2194	0.2183	0.1000	19.9	20.0	-0.5	30.0
1,2-Dibromoethane	Ave	0.2667	0.2693	0.1000	20.2	20.0	1.0	30.0
1-Chlorohexane	Ave	0.3665	0.3629	0.1000	19.8	20.0	-1.0	30.0
Chlorobenzene	Ave	0.9329	0.9564	0.5000	20.5	20.0	2.5	30.0
Ethylbenzene	Ave	1.576	1.641	0.1000	20.8	20.0	4.2	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3181	0.3287	0.1000	20.7	20.0	3.3	30.0
m-Xylene & p-Xylene	Ave	1.216	1.265	0.1000	20.8	20.0	4.1	30.0
o-Xylene	Ave	1.226	1.298	0.3000	21.2	20.0	5.9	30.0
Styrene	Ave	1.024	1.076	0.3000	21.0	20.0	5.1	30.0
Bromoform	Lin2		0.1773	0.0100	20.6	20.0	3.1	30.0
Isopropylbenzene	Ave	1.545	1.671	0.1000	21.6	20.0	8.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 480-117063-1

SDG No.: _____

Lab Sample ID: ICV 490-385231/13 Calibration Date: 11/09/2016 04:16

Instrument ID: HP33 Calib Start Date: 11/08/2016 23:21

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 11/09/2016 02:55

Lab File ID: 11081619.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
Cyclohexanone	Ave	0.0067	0.0061	0.0010	180	200	-9.8	30.0
Bromobenzene	Ave	1.203	1.250	0.1000	20.8	20.0	3.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6452	0.6330	0.3000	19.6	20.0	-1.9	30.0
N-Propylbenzene	Ave	3.850	4.045	0.1000	21.0	20.0	5.1	30.0
1,2,3-Trichloropropane	Ave	0.2108	0.2070	0.1000	19.6	20.0	-1.8	30.0
trans-1,4-Dichloro-2-butene	Ave	0.1854	0.1700	0.1000	18.3	20.0	-8.3	30.0
2-Chlorotoluene	Ave	2.587	2.679	0.1000	20.7	20.0	3.6	30.0
1,3,5-Trimethylbenzene	Ave	2.939	3.051	0.1000	20.8	20.0	3.8	30.0
4-Chlorotoluene	Ave	2.386	2.487	0.1000	20.8	20.0	4.2	30.0
tert-Butylbenzene	Ave	2.408	2.539	0.1000	21.1	20.0	5.4	30.0
1,2,4-Trimethylbenzene	Ave	2.687	2.870	0.1000	21.4	20.0	6.8	30.0
sec-Butylbenzene	Ave	3.571	3.763	0.1000	21.1	20.0	5.4	30.0
4-Isopropyltoluene	Ave	3.006	3.219	0.1000	21.4	20.0	7.1	30.0
1,3-Dichlorobenzene	Ave	1.503	1.562	0.6000	20.8	20.0	3.9	30.0
1,4-Dichlorobenzene	Ave	1.537	1.525	0.5000	19.8	20.0	-0.8	30.0
1,2,3-Trimethylbenzene	Ave	2.746	2.884	0.1000	21.0	20.0	5.0	30.0
Benzyl chloride	Ave	0.5222	0.4584	0.0100	17.6	20.0	-12.2	30.0
n-Butylbenzene	Ave	2.588	2.662	0.1000	20.6	20.0	2.9	30.0
1,2-Dichlorobenzene	Ave	1.350	1.385	0.4000	20.5	20.0	2.6	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.1075	0.0980	0.0100	18.2	20.0	-8.9	30.0
1,3,5-Trichlorobenzene	Ave	0.9595	0.9816	0.1000	20.5	20.0	2.3	30.0
1,2,4-Trichlorobenzene	Lin2		0.6921	0.2000	20.2	20.0	0.9	30.0
Hexachlorobutadiene	Ave	0.4452	0.4648	0.1000	20.9	20.0	4.4	30.0
Naphthalene	Ave	1.135	1.266	0.0100	22.3	20.0	11.5	30.0
1,2,3-Trichlorobenzene	Ave	0.4630	0.5470	0.1000	23.6	20.0	18.1	30.0
2-Methylnaphthalene	Ave	0.2530	1.242	0.0100	98.1	20.0	390.6*	40.0
1-Methylnaphthalene	Ave	0.1847	1.072	0.1000	116	20.0	480.5*	40.0
Dibromofluoromethane (Surr)	Ave	0.2513	0.2495		29.8	30.0	-0.7	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2792	0.2750		29.5	30.0	-1.5	30.0
Toluene-d8 (Surr)	Ave	1.328	1.342		30.3	30.0	1.1	30.0
4-Bromofluorobenzene (Surr)	Ave	0.9414	0.9580		30.5	30.0	1.8	30.0

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081619.D
 Lims ID: icv
 Client ID:
 Sample Type: ICV
 Inject. Date: 09-Nov-2016 04:16:30 ALS Bottle#: 19 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICV
 Operator ID: JJR Instrument ID: HP33
 Sublist:

Method: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 12-Nov-2016 12:39:18 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: redmondj Date: 12-Nov-2016 12:37:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.620	3.616	0.004	98	831069	30.0	30.0	
* 2 Chlorobenzene-d5	117	5.932	5.934	-0.002	87	630326	30.0	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.098	8.100	-0.002	94	302405	30.0	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.207	3.203	0.004	98	207375	30.0	29.8	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.432	3.434	-0.002	0	228577	30.0	29.5	
\$ 7 Toluene-d8 (Surr)	98	4.727	4.723	0.004	99	846036	30.0	30.3	
\$ 8 4-Bromofluorobenzene (Surr	95	7.003	7.005	-0.002	94	289696	30.0	30.5	
11 Propene	41	1.181	1.183	-0.002	97	26779	NC	NC	
12 Dichlorodifluoromethane	85	1.205	1.201	0.004	100	80213	20.0	19.1	
13 Chloromethane	50	1.302	1.304	-0.002	99	150047	20.0	20.2	E
14 Vinyl chloride	62	1.351	1.347	0.004	99	163667	20.0	19.9	
15 Butadiene	54	1.357	1.359	-0.002	96	169091	20.0	20.3	
16 Bromomethane	96	1.515	1.517	-0.002	99	83618	20.0	23.8	
17 Chloroethane	64	1.570	1.566	0.004	99	103097	20.0	19.2	
18 Dichlorofluoromethane	67	1.667	1.669	-0.002	99	251517	20.0	20.3	
19 Trichlorofluoromethane	101	1.673	1.669	0.004	98	191284	20.0	20.3	
20 Ethanol	46	1.807	1.809	-0.002	86	23296	800.0	756.6	
21 Ethyl ether	59	1.819	1.815	0.004	92	125944	20.0	20.4	
22 1,1,2-Trichloro-1,2,2-trif	101	1.923	1.919	0.004	97	127239	20.0	19.3	
23 Acrolein	56	1.929	1.925	0.004	36	20292	50.0	65.6	
24 1,1-Dichloroethene	96	1.947	1.943	0.004	99	123633	20.0	20.3	
25 Acetone	58	2.002	2.004	-0.002	86	54322	100.0	90.2	
26 Iodomethane	142	2.045	2.047	-0.002	97	113533	20.0	15.0	
27 Isopropyl alcohol	45	2.063	2.065	-0.002	29	56515	200.0	168.3	
28 Carbon disulfide	76	2.075	2.071	0.004	99	363953	20.0	19.0	
30 3-Chloro-1-propene	76	2.136	2.132	0.004	89	129745	20.0	19.3	
31 Methyl acetate	43	2.148	2.144	0.004	99	456025	100.0	92.9	
32 Acetonitrile	41	2.136	2.180	-0.044	72	218929	NC	NC	
33 Methylene Chloride	84	2.221	2.217	0.004	94	146822	20.0	18.5	
34 2-Methyl-2-propanol	59	2.264	2.266	-0.002	97	94214	200.0	177.3	
35 Methyl tert-butyl ether	73	2.324	2.320	0.004	97	393713	20.0	20.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 trans-1,2-Dichloroethene	61	2.337	2.333	0.004	97	201868	20.0	20.5	
37 Acrylonitrile	53	2.379	2.381	-0.002	95	487138	200.0	207.2	
38 Hexane	57	2.440	2.436	0.004	93	219056	20.0	18.5	
39 Isopropyl ether	45	2.574	2.570	0.004	91	505743	20.0	19.9	
40 1,1-Dichloroethane	63	2.586	2.582	0.004	100	258894	20.0	20.1	
41 Vinyl acetate	86	2.592	2.588	0.004	100	64273	40.0	38.0	
42 2-Chloro-1,3-butadiene	53	2.622	2.618	0.004	92	239540	20.0	20.3	
43 Tert-butyl ethyl ether	59	2.775	2.771	0.004	90	461052	20.0	20.5	
44 2,2-Dichloropropane	77	2.902	2.904	-0.002	97	187088	20.0	18.8	
45 cis-1,2-Dichloroethene	96	2.927	2.923	0.004	95	157285	20.0	20.4	
46 Ethyl acetate	70	2.933	2.935	-0.002	95	28774	40.0	38.1	
47 2-Butanone (MEK)	72	2.939	2.935	0.004	96	71966	100.0	98.0	
48 Propionitrile	54	3.018	3.014	0.004	99	175984	200.0	194.9	
49 Chlorobromomethane	130	3.073	3.069	0.004	89	92767	20.0	21.1	
50 Methacrylonitrile	41	3.079	3.075	0.004	93	818767	200.0	195.8	
51 Tetrahydrofuran	42	3.085	3.081	0.004	79	99792	40.0	38.7	
52 Chloroform	83	3.103	3.099	0.004	99	233262	20.0	19.7	
53 Cyclohexane	56	3.194	3.190	0.004	95	275680	20.0	19.9	
54 1,1,1-Trichloroethane	97	3.200	3.196	0.004	98	198518	20.0	19.8	
56 Carbon tetrachloride	117	3.279	3.282	-0.003	98	166341	20.0	19.9	
57 1,1-Dichloropropene	75	3.298	3.300	-0.002	96	192371	20.0	20.0	
58 Isobutyl alcohol	43	3.395	3.397	-0.002	89	211483	500.0	457.2	
59 Benzene	78	3.432	3.428	0.004	97	590605	20.0	20.0	
60 t-Amyl alcohol	59	3.444	3.440	0.004	76	86464	200.0	186.2	
61 Tert-amyl methyl ether	73	3.474	3.470	0.004	99	462506	20.0	20.3	
62 1,2-Dichloroethane	62	3.486	3.482	0.004	97	183144	20.0	20.3	
63 n-Heptane	43	3.529	3.525	0.004	91	228834	20.0	18.4	
64 n-Butanol	56	3.839	3.835	0.004	89	66514	500.0	474.0	
65 Trichloroethene	130	3.857	3.853	0.004	97	151370	20.0	20.0	
66 Ethyl acrylate	55	3.937	3.933	0.004	99	385023	20.0	19.6	
67 Methylcyclohexane	83	3.937	3.939	-0.003	89	274305	20.0	19.5	
68 1,2-Dichloropropane	63	4.040	4.036	0.004	90	151011	20.0	20.0	
69 Methyl methacrylate	41	4.089	4.085	0.004	90	254178	40.0	35.4	
70 Dibromomethane	93	4.131	4.127	0.004	93	77971	20.0	19.7	
71 1,4-Dioxane	88	4.137	4.133	0.004	34	26031	400.0	392.2	
73 Dichlorobromomethane	83	4.229	4.225	0.004	100	167846	20.0	20.7	
75 2-Chloroethyl vinyl ether	63	4.448	4.444	0.004	98	88055	20.0	20.0	
74 2-Nitropropane	43	4.441	4.444	-0.003	97	127538	40.0	35.4	
76 cis-1,3-Dichloropropene	75	4.557	4.559	-0.002	94	232129	20.0	20.0	
77 4-Methyl-2-pentanone (MIBK)	58	4.667	4.669	-0.002	97	251058	100.0	99.2	
78 Toluene	91	4.776	4.778	-0.002	94	634848	20.0	20.2	
79 trans-1,3-Dichloropropene	75	5.007	5.009	-0.002	98	192154	20.0	19.6	
80 Ethyl methacrylate	69	5.025	5.028	-0.003	90	183599	20.0	20.4	
81 1,1,2-Trichloroethane	97	5.153	5.149	0.004	96	117079	20.0	19.7	
82 Tetrachloroethene	166	5.196	5.198	-0.002	98	166934	20.0	20.4	
83 1,3-Dichloropropane	76	5.293	5.295	-0.002	94	210308	20.0	20.5	
84 2-Hexanone	58	5.336	5.338	-0.002	96	202277	100.0	98.2	
85 n-Butyl acetate	43	5.415	5.411	0.004	98	187956	20.0	19.1	
86 Chlorodibromomethane	127	5.457	5.453	0.004	98	91750	20.0	19.9	
87 Ethylene Dibromide	107	5.561	5.563	-0.002	99	113149	20.0	20.2	
88 1-Chlorohexane	91	5.914	5.916	-0.002	89	201072	20.0	19.8	
89 Chlorobenzene	112	5.956	5.958	-0.002	95	401881	20.0	20.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
90 Ethylbenzene	91	6.023	6.025	-0.002	98	689743	20.0	20.8	
91 1,1,1,2-Tetrachloroethane	131	6.035	6.037	-0.002	94	138137	20.0	20.7	
92 m-Xylene & p-Xylene	91	6.133	6.129	0.004	0	531768	20.0	20.8	
93 o-Xylene	91	6.492	6.488	0.004	94	545497	20.0	21.2	
94 Styrene	104	6.516	6.518	-0.002	96	452084	20.0	21.0	
95 Bromoform	173	6.704	6.707	-0.003	98	74482	20.0	20.6	
96 Isopropylbenzene	105	6.814	6.810	0.004	96	702298	20.0	21.6	
97 Cyclohexanone	55	6.972	6.974	-0.002	95	33514	200.0	180.4	
98 Bromobenzene	77	7.130	7.132	-0.002	95	251919	20.0	20.8	
99 1,1,2,2-Tetrachloroethane	83	7.173	7.169	0.004	97	127610	20.0	19.6	
100 N-Propylbenzene	91	7.197	7.199	-0.002	99	815546	20.0	21.0	
101 1,2,3-Trichloropropane	110	7.216	7.212	0.004	97	41737	20.0	19.6	
102 trans-1,4-Dichloro-2-buten	53	7.234	7.230	0.004	77	34264	20.0	18.3	
103 2-Chlorotoluene	91	7.307	7.303	0.004	96	540182	20.0	20.7	
104 4-Ethyltoluene	105	7.313	7.309	0.004	98	680480	NC	NC	
105 1,3,5-Trimethylbenzene	105	7.380	7.376	0.004	94	615174	20.0	20.8	
106 4-Chlorotoluene	91	7.416	7.418	-0.002	96	501320	20.0	20.8	
107 tert-Butylbenzene	119	7.666	7.668	-0.002	95	511915	20.0	21.1	
108 1,2,4-Trimethylbenzene	105	7.739	7.735	0.004	97	578530	20.0	21.4	
110 sec-Butylbenzene	105	7.885	7.881	0.004	99	758663	20.0	21.1	
112 4-Isopropyltoluene	119	8.025	8.027	-0.002	98	648860	20.0	21.4	
111 1,3-Dichlorobenzene	146	8.031	8.027	0.004	71	314968	20.0	20.8	
113 Dicyclopentadiene	66	8.079	8.081	-0.002	96	728601	NC	NC	
114 1,4-Dichlorobenzene	146	8.122	8.124	-0.002	95	307534	20.0	19.8	
115 1,2,3-Trimethylbenzene	105	8.146	8.142	0.004	98	581456	20.0	21.0	
116 Benzyl chloride	91	8.262	8.264	-0.002	99	192630	20.0	17.6	
117 n-Butylbenzene	91	8.432	8.428	0.004	98	536660	20.0	20.6	
118 1,2-Dichlorobenzene	146	8.487	8.483	0.004	97	279262	20.0	20.5	
119 1,2-Dibromo-3-Chloropropan	157	9.278	9.274	0.004	94	19758	20.0	18.2	
120 1,3,5-Trichlorobenzene	180	9.436	9.432	0.004	98	197889	20.0	20.5	
121 1,2,4-Trichlorobenzene	180	10.148	10.150	-0.002	94	139521	20.0	20.2	
122 Hexachlorobutadiene	225	10.300	10.302	-0.002	96	93706	20.0	20.9	
123 Naphthalene	128	10.452	10.454	-0.002	99	255229	20.0	22.3	
124 1,2,3-Trichlorobenzene	180	10.756	10.752	0.004	95	110286	20.0	23.6	
125 2-Methylnaphthalene	142	11.699	11.701	-0.002	86	250303	20.0	98.1	
126 1-Methylnaphthalene	142	11.882	11.884	-0.002	93	216114	20.0	116.1	
S 148 Xylenes, Total	1				0		40.0	42.0	
S 149 1,2-Dichloroethene, Total	1				0		40.0	41.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

Reagents:

V2_gases_I_00141

Amount Added: 20.00

Units: uL

V2_Mega_I_00068

Amount Added: 20.00

Units: uL

VOA_ISSS150_W_00014

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20161109-82377.b\\11081619.D

Injection Date: 09-Nov-2016 04:16:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: icv

Worklist Smp#: 13

Client ID:

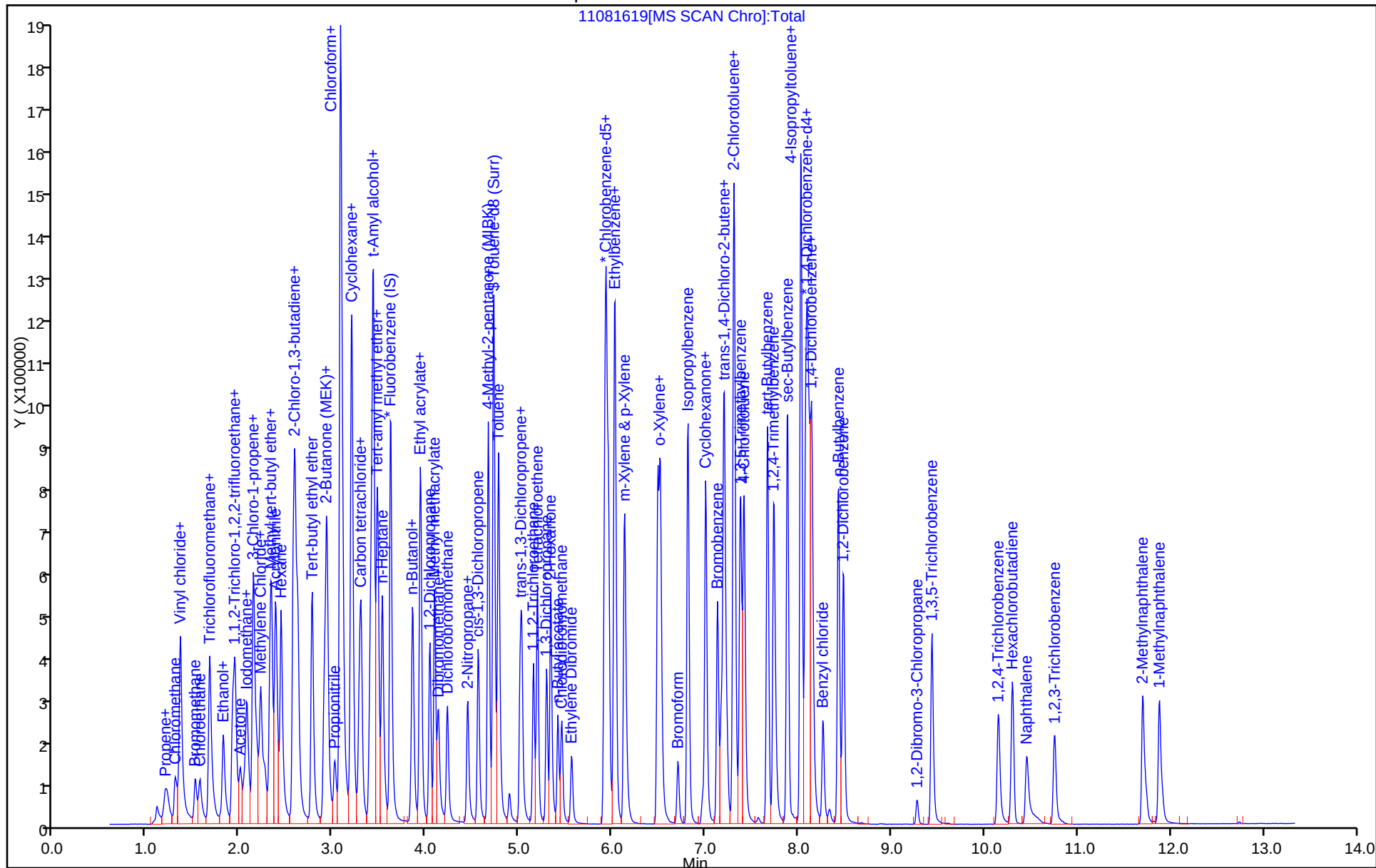
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 19

Method: 8260HP33

Limit Group: MSV 8260C ICAL



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
SDG No.: _____
Lab Sample ID: CCVIS 490-428030/2 Calibration Date: 05/07/2017 02:35
Instrument ID: HP33 Calib Start Date: 08/19/2016 18:11
GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 08/19/2016 21:46
Lab File ID: 05061733.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
Acetonitrile	Lin1		0.0314	0.0010		200		20.0

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\05061733.D
 Lims ID: ccvis
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 07-May-2017 02:35:30 ALS Bottle#: 43 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 490-0090567-002
 Operator ID: JJR Instrument ID: HP33
 Sublist: chrom-8260HP33*sub22
 Method: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 08-May-2017 09:55:02 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D

Column 1 : Det: MS SCAN

Process Host: XAWRK011

First Level Reviewer: wanguns

Date: 08-May-2017 09:55:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.635	3.635	0.000	98	676526	30.0	30.0	
* 2 Chlorobenzene-d5	117	5.941	5.941	0.000	87	531917	30.0	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.100	8.100	0.000	93	238250	30.0	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.203	3.203	0.000	97	162656	30.0	28.7	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.434	3.434	0.000	0	194284	30.0	30.9	
\$ 7 Toluene-d8 (Surr)	98	4.736	4.736	0.000	99	665068	30.0	28.3	
\$ 8 4-Bromofluorobenzene (Surr	95	7.005	7.005	0.000	94	230467	30.0	30.8	
11 Propene	41	1.184	1.184	0.000	96	27987	NC	NC	
12 Dichlorodifluoromethane	85	1.214	1.214	0.000	98	56657	20.0	16.5	
13 Chloromethane	50	1.305	1.305	0.000	99	94499	20.0	15.6	
14 Vinyl chloride	62	1.348	1.348	0.000	98	121318	20.0	18.1	
15 Butadiene	54	1.366	1.366	0.000	97	127939	20.0	18.8	
16 Bromomethane	96	1.518	1.518	0.000	98	64413	20.0	22.5	
17 Chloroethane	64	1.567	1.567	0.000	99	79134	20.0	18.1	
18 Dichlorofluoromethane	67	1.670	1.670	0.000	98	190955	20.0	18.9	
19 Trichlorofluoromethane	101	1.676	1.676	0.000	98	180853	20.0	23.6	
20 Ethanol	46	1.816	1.816	0.000	83	14122	800.0	557.6	
21 Ethyl ether	59	1.822	1.822	0.000	93	88857	20.0	17.7	
22 1,1,2-Trichloro-1,2,2-trif	101	1.926	1.926	0.000	97	109120	20.0	20.4	
23 Acrolein	56	1.932	1.932	0.000	32	10469	49.4	41.6	
24 1,1-Dichloroethene	96	1.950	1.950	0.000	98	102932	20.0	20.8	
25 Acetone	58	2.005	2.005	0.000	87	37244	100.0	76.0	
26 Iodomethane	142	2.047	2.047	0.000	98	117305	20.0	19.1	
27 Isopropyl alcohol	45	2.066	2.066	0.000	28	46203	200.0	169.0	
28 Carbon disulfide	76	2.078	2.078	0.000	100	304515	20.0	19.5	
32 Acetonitrile	41	2.139	2.139	0.000	72	141739	NC	NC	
30 3-Chloro-1-propene	76	2.139	2.139	0.000	89	107845	20.0	19.7	
31 Methyl acetate	43	2.151	2.151	0.000	98	127196	40.0	31.8	
33 Methylene Chloride	84	2.224	2.224	0.000	93	115888	20.0	18.0	
34 2-Methyl-2-propanol	59	2.266	2.266	0.000	98	67517	200.0	156.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Methyl tert-butyl ether	73	2.327	2.327	0.000	96	312693	20.0	19.9	
36 trans-1,2-Dichloroethene	61	2.339	2.339	0.000	95	157901	20.0	19.7	
37 Acrylonitrile	53	2.382	2.382	0.000	95	335447	200.0	175.3	
38 Hexane	57	2.473	2.473	0.000	92	165223	20.0	17.1	
39 Isopropyl ether	45	2.589	2.589	0.000	86	365020	20.0	17.6	
40 1,1-Dichloroethane	63	2.589	2.589	0.000	99	206239	20.0	19.6	
41 Vinyl acetate	86	2.595	2.595	0.000	99	48996	40.0	35.6	
42 2-Chloro-1,3-butadiene	53	2.625	2.625	0.000	93	189254	20.0	19.7	
43 Tert-butyl ethyl ether	59	2.783	2.783	0.000	90	350824	20.0	19.1	
44 2,2-Dichloropropane	77	2.905	2.905	0.000	95	172669	20.0	21.3	
45 cis-1,2-Dichloroethene	96	2.929	2.929	0.000	96	131644	20.0	21.0	
47 2-Butanone (MEK)	72	2.936	2.936	0.000	96	54564	100.0	91.2	
46 Ethyl acetate	70	2.936	2.936	0.000	97	21351	40.0	34.7	
48 Propionitrile	54	3.015	3.015	0.000	98	121925	200.0	165.9	
49 Chlorobromomethane	130	3.069	3.069	0.000	86	74986	20.0	21.0	
50 Methacrylonitrile	41	3.082	3.082	0.000	92	572525	200.0	168.2	
51 Tetrahydrofuran	42	3.082	3.082	0.000	30	69039	40.0	32.9	
52 Chloroform	83	3.100	3.100	0.000	98	202589	20.0	21.0	
53 Cyclohexane	56	3.197	3.197	0.000	92	218881	20.0	19.4	
54 1,1,1-Trichloroethane	97	3.197	3.197	0.000	90	179473	20.0	22.0	
56 Carbon tetrachloride	117	3.282	3.282	0.000	97	157755	20.0	23.2	
57 1,1-Dichloropropene	75	3.307	3.307	0.000	95	164212	20.0	21.0	
58 Isobutyl alcohol	43	3.398	3.398	0.000	89	65693	500.0	174.5	
59 Benzene	78	3.440	3.440	0.000	95	484136	20.0	20.2	
60 t-Amyl alcohol	59	3.440	3.440	0.000	51	63592	200.0	168.2	
61 Tert-amyl methyl ether	73	3.483	3.483	0.000	98	371079	20.0	20.0	
62 1,2-Dichloroethane	62	3.483	3.483	0.000	97	160212	20.0	21.8	
63 n-Heptane	43	3.538	3.538	0.000	84	153503	20.0	15.2	
64 n-Butanol	56	3.854	3.854	0.000	35	38229	500.0	334.7	
65 Trichloroethene	130	3.860	3.860	0.000	96	130000	20.0	21.1	
66 Ethyl acrylate	55	3.951	3.951	0.000	97	300160	20.0	18.8	
67 Methylcyclohexane	83	3.958	3.958	0.000	95	233873	20.0	20.5	
68 1,2-Dichloropropane	63	4.043	4.043	0.000	88	119301	20.0	19.4	
69 Methyl methacrylate	41	4.097	4.097	0.000	85	177596	40.0	29.9	
70 Dibromomethane	93	4.128	4.128	0.000	94	67748	20.0	21.0	
71 1,4-Dioxane	88	4.134	4.134	0.000	34	17013	400.0	314.9	
73 Dichlorobromomethane	83	4.225	4.225	0.000	99	153987	20.0	23.3	
74 2-Nitropropane	43	4.444	4.444	0.000	85	87921	40.0	30.0	
75 2-Chloroethyl vinyl ether	63	4.450	4.450	0.000	93	62111	20.0	16.7	
76 cis-1,3-Dichloropropene	75	4.560	4.560	0.000	96	185580	20.0	19.0	
77 4-Methyl-2-pentanone (MIBK)	58	4.669	4.669	0.000	96	179021	100.0	83.8	
78 Toluene	91	4.791	4.791	0.000	94	511616	20.0	19.3	
79 trans-1,3-Dichloropropene	75	5.010	5.010	0.000	98	156856	20.0	19.0	
80 Ethyl methacrylate	69	5.034	5.034	0.000	88	135366	20.0	17.8	
81 1,1,2-Trichloroethane	97	5.156	5.156	0.000	95	97025	20.0	19.4	
82 Tetrachloroethene	166	5.205	5.205	0.000	97	151267	20.0	21.9	
83 1,3-Dichloropropane	76	5.296	5.296	0.000	92	172999	20.0	20.0	
84 2-Hexanone	58	5.345	5.345	0.000	96	156367	100.0	89.9	
85 n-Butyl acetate	43	5.418	5.418	0.000	97	159324	20.0	19.9	
86 Chlorodibromomethane	127	5.460	5.460	0.000	98	88319	20.0	22.7	
87 Ethylene Dibromide	107	5.564	5.564	0.000	99	97248	20.0	20.6	
88 1-Chlorohexane	91	5.923	5.923	0.000	87	182664	20.0	22.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
89 Chlorobenzene	112	5.965	5.965	0.000	95	356625	20.0	21.6	
90 Ethylbenzene	91	6.032	6.032	0.000	98	601490	20.0	21.5	
91 1,1,1,2-Tetrachloroethane	131	6.038	6.038	0.000	95	125825	20.0	22.3	
92 m-Xylene & p-Xylene	91	6.135	6.135	0.000	0	465232	20.0	21.6	
93 o-Xylene	91	6.494	6.494	0.000	94	467176	20.0	21.5	
94 Styrene	104	6.525	6.525	0.000	96	386851	20.0	21.3	
95 Bromoform	173	6.707	6.707	0.000	97	68241	20.0	22.4	
96 Isopropylbenzene	105	6.817	6.817	0.000	96	608253	20.0	22.2	
97 Cyclohexanone	55	6.975	6.975	0.000	91	23776	200.0	157.2	
98 Bromobenzene	77	7.133	7.133	0.000	94	201886	20.0	21.1	
99 1,1,2,2-Tetrachloroethane	83	7.170	7.170	0.000	97	106612	20.0	20.8	
100 N-Propylbenzene	91	7.200	7.200	0.000	99	694973	20.0	22.7	
101 1,2,3-Trichloropropane	110	7.218	7.218	0.000	95	35971	20.0	21.5	
102 trans-1,4-Dichloro-2-buten	53	7.237	7.237	0.000	66	25707	20.0	17.5	
103 2-Chlorotoluene	91	7.310	7.310	0.000	98	455537	20.0	22.2	
104 4-Ethyltoluene	105	7.316	7.316	0.000	98	565942	NC	NC	
105 1,3,5-Trimethylbenzene	105	7.376	7.376	0.000	94	533502	20.0	22.9	
106 4-Chlorotoluene	91	7.419	7.419	0.000	96	420207	20.0	22.2	
107 tert-Butylbenzene	119	7.668	7.668	0.000	95	425727	20.0	22.3	
108 1,2,4-Trimethylbenzene	105	7.741	7.741	0.000	97	470044	20.0	22.0	
110 sec-Butylbenzene	105	7.881	7.881	0.000	98	610496	20.0	21.5	
112 4-Isopropyltoluene	119	8.027	8.027	0.000	98	517247	20.0	21.7	
111 1,3-Dichlorobenzene	146	8.033	8.033	0.000	97	257087	20.0	21.5	
113 Dicyclopentadiene	66	8.076	8.076	0.000	96	594745	NC	NC	
114 1,4-Dichlorobenzene	146	8.125	8.125	0.000	95	259290	20.0	21.2	
115 1,2,3-Trimethylbenzene	105	8.149	8.149	0.000	97	457437	20.0	21.0	
116 Benzyl chloride	91	8.265	8.265	0.000	99	156469	20.0	16.9	
117 n-Butylbenzene	91	8.429	8.429	0.000	97	415325	20.0	20.2	
118 1,2-Dichlorobenzene	146	8.490	8.490	0.000	97	230174	20.0	21.5	
119 1,2-Dibromo-3-Chloropropan	157	9.281	9.281	0.000	93	17379	20.0	20.3	
120 1,3,5-Trichlorobenzene	180	9.439	9.439	0.000	98	142594	20.0	18.7	
121 1,2,4-Trichlorobenzene	180	10.157	10.157	0.000	93	96436	20.0	17.7	
122 Hexachlorobutadiene	225	10.297	10.297	0.000	95	62495	20.0	17.7	
123 Naphthalene	128	10.467	10.467	0.000	99	171346	20.0	19.0	
124 1,2,3-Trichlorobenzene	180	10.759	10.759	0.000	95	67687	20.0	18.4	
125 2-Methylnaphthalene	142	11.720	11.720	0.000	87	38118	20.0	19.0	
126 1-Methylnaphthalene	142	11.896	11.896	0.000	93	40903	20.0	27.9	
S 149 1,2-Dichloroethene, Total	1				0		40.0	40.7	
S 148 Xylenes, Total	1				0		40.0	43.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

V1_Mega_I_00069

Amount Added: 20.00

Units: uL

V1_gases_I_00210

Amount Added: 20.00

Units: uL

VOA_ISSS150_W_00015

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061733.D

Injection Date: 07-May-2017 02:35:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: ccvis

Worklist Smp#: 2

Client ID:

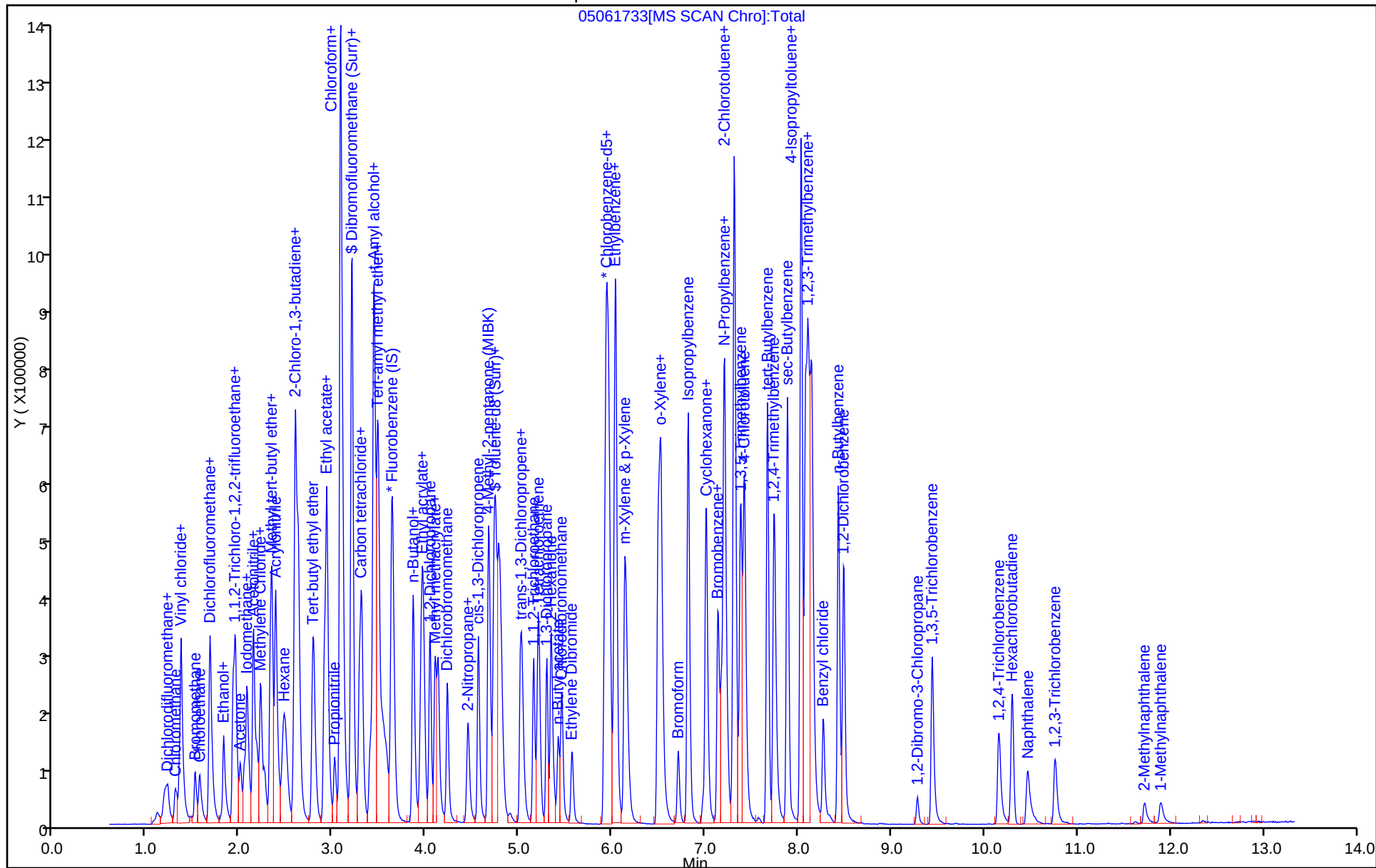
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 43

Method: 8260HP33

Limit Group: MSV 8260C ICAL



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 480-117063-1

SDG No.: _____

Lab Sample ID: CCVIS 490-428030/2 Calibration Date: 05/07/2017 02:35

Instrument ID: HP33 Calib Start Date: 11/08/2016 23:21

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 11/09/2016 02:55

Lab File ID: 05061733.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	0.1519	0.1256	0.1000	16.5	20.0	-17.3	20.0
Chloromethane	Ave	0.2683	0.2095	0.1000	15.6	20.0	-21.9*	20.0
Vinyl chloride	Ave	0.2975	0.2690	0.1000	18.1	20.0	-9.6	20.0
Butadiene	Ave	0.3010	0.2837	0.1000	18.8	20.0	-5.8	20.0
Bromomethane	Lin2		0.1428	0.1000	22.5	20.0	12.6	20.0
Chloroethane	Ave	0.1935	0.1755	0.1000	18.1	20.0	-9.3	20.0
Dichlorofluoromethane	Ave	0.4481	0.4234	0.1000	18.9	20.0	-5.5	20.0
Trichlorofluoromethane	Ave	0.3405	0.4010	0.1000	23.6	20.0	17.8	20.0
Ethanol	Lin1		0.0008*	0.0010	558	800	-30.3*	20.0
Ethyl ether	Ave	0.2229	0.1970	0.1000	17.7	20.0	-11.6	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2376	0.2419	0.1000	20.4	20.0	1.8	20.0
Acrolein	Ave	0.0112	0.0094*	0.0100	41.6	49.4	-15.7	20.0
1,1-Dichloroethene	Ave	0.2196	0.2282	0.1000	20.8	20.0	3.9	20.0
Acetone	Ave	0.0217	0.0165	0.0100	76.0	100	-24.0*	20.0
Iodomethane	Ave	0.2727	0.2601	0.1000	19.1	20.0	-4.6	20.0
Isopropyl alcohol	Ave	0.0121	0.0102	0.0010	169	200	-15.5	20.0
Carbon disulfide	Ave	0.6920	0.6752	0.1000	19.5	20.0	-2.4	20.0
3-Chloro-1-propene	Ave	0.2431	0.2391	0.1000	19.7	20.0	-1.6	20.0
Methyl acetate	Ave	0.1772	0.1410	0.1000	31.8	40.0	-20.4*	20.0
Methylene Chloride	Ave	0.2861	0.2570	0.0100	18.0	20.0	-10.2	20.0
2-Methyl-2-propanol	Ave	0.0192	0.0150	0.0010	156	200	-22.0*	20.0
Methyl tert-butyl ether	Ave	0.6955	0.6933	0.1000	19.9	20.0	-0.3	20.0
trans-1,2-Dichloroethene	Ave	0.3547	0.3501	0.1000	19.7	20.0	-1.3	20.0
Acrylonitrile	Ave	0.0849	0.0744	0.0100	175	200	-12.4	20.0
n-Hexane	Ave	0.4283	0.3663	0.1000	17.1	20.0	-14.5	20.0
1,1-Dichloroethane	Ave	0.4658	0.4573	0.2000	19.6	20.0	-1.8	20.0
Isopropyl ether	Ave	0.9197	0.8093	0.1000	17.6	20.0	-12.0	20.0
Vinyl acetate	Lin2		0.0543*	0.1000	35.6	40.0	-10.9	20.0
2-Chloro-1,3-butadiene	Ave	0.4256	0.4196	0.1000	19.7	20.0	-1.4	20.0
Tert-butyl ethyl ether	Ave	0.8135	0.7779	0.1000	19.1	20.0	-4.4	20.0
2,2-Dichloropropane	Ave	0.3591	0.3828	0.1000	21.3	20.0	6.6	20.0
cis-1,2-Dichloroethene	Ave	0.2780	0.2919	0.1000	21.0	20.0	5.0	20.0
2-Butanone (MEK)	Ave	0.0265	0.0242	0.0100	91.2	100	-8.8	20.0
Ethyl acetate	Ave	0.0273	0.0237	0.0100	34.7	40.0	-13.3	20.0
Propionitrile	Ave	0.0326	0.0270	0.0100	166	200	-17.1	20.0
Chlorobromomethane	Ave	0.1587	0.1663	0.1000	21.0	20.0	4.8	20.0
Methacrylonitrile	Ave	0.1510	0.1269	0.1000	168	200	-15.9	20.0
Tetrahydrofuran	Ave	0.0932	0.0765	0.0500	32.9	40.0	-17.9	20.0
Chloroform	Ave	0.4276	0.4492	0.2000	21.0	20.0	5.0	20.0
1,1,1-Trichloroethane	Ave	0.3616	0.3979	0.1000	22.0	20.0	10.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Lab Sample ID: CCVIS 490-428030/2 Calibration Date: 05/07/2017 02:35
 Instrument ID: HP33 Calib Start Date: 11/08/2016 23:21
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 11/09/2016 02:55
 Lab File ID: 05061733.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	0.5002	0.4853	0.1000	19.4	20.0	-3.0	20.0
Carbon tetrachloride	Ave	0.3011	0.3498	0.1000	23.2	20.0	16.2	20.0
1,1-Dichloropropene	Ave	0.3464	0.3641	0.1000	21.0	20.0	5.1	20.0
Isobutyl alcohol	Ave	0.0167	0.0058	0.0010	174	500	-65.1*	20.0
Benzene	Ave	1.065	1.073	0.5000	20.2	20.0	0.8	20.0
t-Amyl alcohol	Ave	0.0168	0.0141	0.0010	168	200	-15.9	20.0
1,2-Dichloroethane	Ave	0.3262	0.3552	0.1000	21.8	20.0	8.9	20.0
Tert-amyl methyl ether	Ave	0.8244	0.8228	0.1000	20.0	20.0	-0.2	20.0
n-Heptane	Ave	0.4492	0.3404	0.1000	15.2	20.0	-24.2*	20.0
n-Butanol	Ave	0.0051	0.0034	0.0010	335	500	-33.1*	20.0
Trichloroethene	Ave	0.2738	0.2882	0.2000	21.1	20.0	5.3	20.0
Ethyl acrylate	Ave	0.7099	0.6655	0.1000	18.8	20.0	-6.2	20.0
Methylcyclohexane	Ave	0.5066	0.5186	0.1000	20.5	20.0	2.4	20.0
1,2-Dichloropropane	Ave	0.2724	0.2645	0.1000	19.4	20.0	-2.9	20.0
Methyl methacrylate	Lin2		0.1969	0.1000	29.9	40.0	-25.3*	20.0
Dibromomethane	Ave	0.1430	0.1502	0.0500	21.0	20.0	5.0	20.0
1,4-Dioxane	Ave	0.0024	0.0019	0.0010	315	400	-21.3*	20.0
Bromodichloromethane	Ave	0.2934	0.3414	0.2000	23.3	20.0	16.4	20.0
2-Nitropropane	Ave	0.1301	0.0975	0.0100	30.0	40.0	-25.1*	20.0
2-Chloroethyl vinyl ether	Ave	0.2092	0.1752	0.1000	16.7	20.0	-16.3	20.0
cis-1,3-Dichloropropene	Ave	0.5517	0.5233	0.2000	19.0	20.0	-5.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1205	0.1010	0.0500	83.8	100	-16.2	20.0
Toluene	Ave	1.497	1.443	0.4000	19.3	20.0	-3.6	20.0
trans-1,3-Dichloropropene	Ave	0.4656	0.4423	0.0100	19.0	20.0	-5.0	20.0
Ethyl methacrylate	Ave	0.4289	0.3817	0.1000	17.8	20.0	-11.0	20.0
1,1,2-Trichloroethane	Ave	0.2826	0.2736	0.1000	19.4	20.0	-3.2	20.0
Tetrachloroethene	Ave	0.3893	0.4266	0.2000	21.9	20.0	9.6	20.0
1,3-Dichloropropane	Ave	0.4876	0.4879	0.1000	20.0	20.0	0.0	20.0
2-Hexanone	Ave	0.0981	0.0882	0.0500	89.9	100	-10.1	20.0
n-Butyl acetate	Ave	0.3549	0.3533	0.1000	19.9	20.0	-0.5	20.0
Dibromochloromethane	Ave	0.2194	0.2491	0.1000	22.7	20.0	13.5	20.0
1,2-Dibromoethane	Ave	0.2667	0.2742	0.1000	20.6	20.0	2.8	20.0
1-Chlorohexane	Ave	0.3665	0.4050	0.1000	22.1	20.0	10.5	20.0
Chlorobenzene	Ave	0.9329	1.006	0.5000	21.6	20.0	7.8	20.0
Ethylbenzene	Ave	1.576	1.696	0.1000	21.5	20.0	7.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3181	0.3548	0.1000	22.3	20.0	11.5	20.0
m-Xylene & p-Xylene	Ave	1.216	1.312	0.1000	21.6	20.0	7.9	20.0
o-Xylene	Ave	1.226	1.317	0.3000	21.5	20.0	7.5	20.0
Styrene	Ave	1.024	1.091	0.3000	21.3	20.0	6.5	20.0
Bromoform	Lin2		0.1924	0.0100	22.4	20.0	11.8	20.0
Isopropylbenzene	Ave	1.545	1.715	0.1000	22.2	20.0	11.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 480-117063-1

SDG No.: _____

Lab Sample ID: CCVIS 490-428030/2 Calibration Date: 05/07/2017 02:35

Instrument ID: HP33 Calib Start Date: 11/08/2016 23:21

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 11/09/2016 02:55

Lab File ID: 05061733.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
Cyclohexanone	Ave	0.0067	0.0053	0.0010	157	200	-21.4*	20.0
Bromobenzene	Ave	1.203	1.271	0.1000	21.1	20.0	5.6	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6452	0.6712	0.3000	20.8	20.0	4.0	20.0
N-Propylbenzene	Ave	3.850	4.375	0.1000	22.7	20.0	13.7	20.0
1,2,3-Trichloropropane	Ave	0.2108	0.2265	0.1000	21.5	20.0	7.5	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1854	0.1619	0.1000	17.5	20.0	-12.7	20.0
2-Chlorotoluene	Ave	2.587	2.868	0.1000	22.2	20.0	10.8	20.0
1,3,5-Trimethylbenzene	Ave	2.939	3.359	0.1000	22.9	20.0	14.3	20.0
4-Chlorotoluene	Ave	2.386	2.646	0.1000	22.2	20.0	10.9	20.0
tert-Butylbenzene	Ave	2.408	2.680	0.1000	22.3	20.0	11.3	20.0
1,2,4-Trimethylbenzene	Ave	2.687	2.959	0.1000	22.0	20.0	10.2	20.0
sec-Butylbenzene	Ave	3.571	3.844	0.1000	21.5	20.0	7.6	20.0
4-Isopropyltoluene	Ave	3.006	3.257	0.1000	21.7	20.0	8.3	20.0
1,3-Dichlorobenzene	Ave	1.503	1.619	0.6000	21.5	20.0	7.7	20.0
1,4-Dichlorobenzene	Ave	1.537	1.632	0.5000	21.2	20.0	6.2	20.0
1,2,3-Trimethylbenzene	Ave	2.746	2.880	0.1000	21.0	20.0	4.9	20.0
Benzyl chloride	Ave	0.5222	0.4412	0.0100	16.9	20.0	-15.5	20.0
n-Butylbenzene	Ave	2.588	2.615	0.1000	20.2	20.0	1.1	20.0
1,2-Dichlorobenzene	Ave	1.350	1.449	0.4000	21.5	20.0	7.3	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1075	0.1094	0.0100	20.3	20.0	1.7	20.0
1,3,5-Trichlorobenzene	Ave	0.9595	0.8978	0.1000	18.7	20.0	-6.4	20.0
1,2,4-Trichlorobenzene	Lin2		0.6072	0.2000	17.7	20.0	-11.3	20.0
Hexachlorobutadiene	Ave	0.4452	0.3935	0.1000	17.7	20.0	-11.6	20.0
Naphthalene	Ave	1.135	1.079	0.0100	19.0	20.0	-5.0	20.0
1,2,3-Trichlorobenzene	Ave	0.4630	0.4262	0.1000	18.4	20.0	-8.0	20.0
2-Methylnaphthalene	Ave	0.2530	0.2400	0.0100	19.0	20.0	-5.2	20.0
1-Methylnaphthalene	Ave	0.1847	0.2575	0.1000	27.9	20.0	39.4*	20.0
Dibromofluoromethane (Surr)	Ave	0.2513	0.2404		28.7	30.0	-4.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2792	0.2872		30.9	30.0	2.8	20.0
Toluene-d8 (Surr)	Ave	1.328	1.250		28.3	30.0	-5.8	20.0
4-Bromofluorobenzene (Surr)	Ave	0.9414	0.9673		30.8	30.0	2.8	20.0

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\05061733.D
 Lims ID: ccvis
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 07-May-2017 02:35:30 ALS Bottle#: 43 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 490-0090567-002
 Operator ID: JJR Instrument ID: HP33
 Sublist: chrom-8260HP33*sub22
 Method: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 08-May-2017 09:55:02 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D

Column 1 : Det: MS SCAN

Process Host: XAWRK011

First Level Reviewer: wanguns

Date: 08-May-2017 09:55:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.635	3.635	0.000	98	676526	30.0	30.0	
* 2 Chlorobenzene-d5	117	5.941	5.941	0.000	87	531917	30.0	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.100	8.100	0.000	93	238250	30.0	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.203	3.203	0.000	97	162656	30.0	28.7	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.434	3.434	0.000	0	194284	30.0	30.9	
\$ 7 Toluene-d8 (Surr)	98	4.736	4.736	0.000	99	665068	30.0	28.3	
\$ 8 4-Bromofluorobenzene (Surr	95	7.005	7.005	0.000	94	230467	30.0	30.8	
11 Propene	41	1.184	1.184	0.000	96	27987	NC	NC	
12 Dichlorodifluoromethane	85	1.214	1.214	0.000	98	56657	20.0	16.5	
13 Chloromethane	50	1.305	1.305	0.000	99	94499	20.0	15.6	
14 Vinyl chloride	62	1.348	1.348	0.000	98	121318	20.0	18.1	
15 Butadiene	54	1.366	1.366	0.000	97	127939	20.0	18.8	
16 Bromomethane	96	1.518	1.518	0.000	98	64413	20.0	22.5	
17 Chloroethane	64	1.567	1.567	0.000	99	79134	20.0	18.1	
18 Dichlorofluoromethane	67	1.670	1.670	0.000	98	190955	20.0	18.9	
19 Trichlorofluoromethane	101	1.676	1.676	0.000	98	180853	20.0	23.6	
20 Ethanol	46	1.816	1.816	0.000	83	14122	800.0	557.6	
21 Ethyl ether	59	1.822	1.822	0.000	93	88857	20.0	17.7	
22 1,1,2-Trichloro-1,2,2-trif	101	1.926	1.926	0.000	97	109120	20.0	20.4	
23 Acrolein	56	1.932	1.932	0.000	32	10469	49.4	41.6	
24 1,1-Dichloroethene	96	1.950	1.950	0.000	98	102932	20.0	20.8	
25 Acetone	58	2.005	2.005	0.000	87	37244	100.0	76.0	
26 Iodomethane	142	2.047	2.047	0.000	98	117305	20.0	19.1	
27 Isopropyl alcohol	45	2.066	2.066	0.000	28	46203	200.0	169.0	
28 Carbon disulfide	76	2.078	2.078	0.000	100	304515	20.0	19.5	
32 Acetonitrile	41	2.139	2.139	0.000	72	141739	NC	NC	
30 3-Chloro-1-propene	76	2.139	2.139	0.000	89	107845	20.0	19.7	
31 Methyl acetate	43	2.151	2.151	0.000	98	127196	40.0	31.8	
33 Methylene Chloride	84	2.224	2.224	0.000	93	115888	20.0	18.0	
34 2-Methyl-2-propanol	59	2.266	2.266	0.000	98	67517	200.0	156.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Methyl tert-butyl ether	73	2.327	2.327	0.000	96	312693	20.0	19.9	
36 trans-1,2-Dichloroethene	61	2.339	2.339	0.000	95	157901	20.0	19.7	
37 Acrylonitrile	53	2.382	2.382	0.000	95	335447	200.0	175.3	
38 Hexane	57	2.473	2.473	0.000	92	165223	20.0	17.1	
39 Isopropyl ether	45	2.589	2.589	0.000	86	365020	20.0	17.6	
40 1,1-Dichloroethane	63	2.589	2.589	0.000	99	206239	20.0	19.6	
41 Vinyl acetate	86	2.595	2.595	0.000	99	48996	40.0	35.6	
42 2-Chloro-1,3-butadiene	53	2.625	2.625	0.000	93	189254	20.0	19.7	
43 Tert-butyl ethyl ether	59	2.783	2.783	0.000	90	350824	20.0	19.1	
44 2,2-Dichloropropane	77	2.905	2.905	0.000	95	172669	20.0	21.3	
45 cis-1,2-Dichloroethene	96	2.929	2.929	0.000	96	131644	20.0	21.0	
47 2-Butanone (MEK)	72	2.936	2.936	0.000	96	54564	100.0	91.2	
46 Ethyl acetate	70	2.936	2.936	0.000	97	21351	40.0	34.7	
48 Propionitrile	54	3.015	3.015	0.000	98	121925	200.0	165.9	
49 Chlorobromomethane	130	3.069	3.069	0.000	86	74986	20.0	21.0	
50 Methacrylonitrile	41	3.082	3.082	0.000	92	572525	200.0	168.2	
51 Tetrahydrofuran	42	3.082	3.082	0.000	30	69039	40.0	32.9	
52 Chloroform	83	3.100	3.100	0.000	98	202589	20.0	21.0	
53 Cyclohexane	56	3.197	3.197	0.000	92	218881	20.0	19.4	
54 1,1,1-Trichloroethane	97	3.197	3.197	0.000	90	179473	20.0	22.0	
56 Carbon tetrachloride	117	3.282	3.282	0.000	97	157755	20.0	23.2	
57 1,1-Dichloropropene	75	3.307	3.307	0.000	95	164212	20.0	21.0	
58 Isobutyl alcohol	43	3.398	3.398	0.000	89	65693	500.0	174.5	
59 Benzene	78	3.440	3.440	0.000	95	484136	20.0	20.2	
60 t-Amyl alcohol	59	3.440	3.440	0.000	51	63592	200.0	168.2	
61 Tert-amyl methyl ether	73	3.483	3.483	0.000	98	371079	20.0	20.0	
62 1,2-Dichloroethane	62	3.483	3.483	0.000	97	160212	20.0	21.8	
63 n-Heptane	43	3.538	3.538	0.000	84	153503	20.0	15.2	
64 n-Butanol	56	3.854	3.854	0.000	35	38229	500.0	334.7	
65 Trichloroethene	130	3.860	3.860	0.000	96	130000	20.0	21.1	
66 Ethyl acrylate	55	3.951	3.951	0.000	97	300160	20.0	18.8	
67 Methylcyclohexane	83	3.958	3.958	0.000	95	233873	20.0	20.5	
68 1,2-Dichloropropane	63	4.043	4.043	0.000	88	119301	20.0	19.4	
69 Methyl methacrylate	41	4.097	4.097	0.000	85	177596	40.0	29.9	
70 Dibromomethane	93	4.128	4.128	0.000	94	67748	20.0	21.0	
71 1,4-Dioxane	88	4.134	4.134	0.000	34	17013	400.0	314.9	
73 Dichlorobromomethane	83	4.225	4.225	0.000	99	153987	20.0	23.3	
74 2-Nitropropane	43	4.444	4.444	0.000	85	87921	40.0	30.0	
75 2-Chloroethyl vinyl ether	63	4.450	4.450	0.000	93	62111	20.0	16.7	
76 cis-1,3-Dichloropropene	75	4.560	4.560	0.000	96	185580	20.0	19.0	
77 4-Methyl-2-pentanone (MIBK)	58	4.669	4.669	0.000	96	179021	100.0	83.8	
78 Toluene	91	4.791	4.791	0.000	94	511616	20.0	19.3	
79 trans-1,3-Dichloropropene	75	5.010	5.010	0.000	98	156856	20.0	19.0	
80 Ethyl methacrylate	69	5.034	5.034	0.000	88	135366	20.0	17.8	
81 1,1,2-Trichloroethane	97	5.156	5.156	0.000	95	97025	20.0	19.4	
82 Tetrachloroethene	166	5.205	5.205	0.000	97	151267	20.0	21.9	
83 1,3-Dichloropropane	76	5.296	5.296	0.000	92	172999	20.0	20.0	
84 2-Hexanone	58	5.345	5.345	0.000	96	156367	100.0	89.9	
85 n-Butyl acetate	43	5.418	5.418	0.000	97	159324	20.0	19.9	
86 Chlorodibromomethane	127	5.460	5.460	0.000	98	88319	20.0	22.7	
87 Ethylene Dibromide	107	5.564	5.564	0.000	99	97248	20.0	20.6	
88 1-Chlorohexane	91	5.923	5.923	0.000	87	182664	20.0	22.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
89 Chlorobenzene	112	5.965	5.965	0.000	95	356625	20.0	21.6	
90 Ethylbenzene	91	6.032	6.032	0.000	98	601490	20.0	21.5	
91 1,1,1,2-Tetrachloroethane	131	6.038	6.038	0.000	95	125825	20.0	22.3	
92 m-Xylene & p-Xylene	91	6.135	6.135	0.000	0	465232	20.0	21.6	
93 o-Xylene	91	6.494	6.494	0.000	94	467176	20.0	21.5	
94 Styrene	104	6.525	6.525	0.000	96	386851	20.0	21.3	
95 Bromoform	173	6.707	6.707	0.000	97	68241	20.0	22.4	
96 Isopropylbenzene	105	6.817	6.817	0.000	96	608253	20.0	22.2	
97 Cyclohexanone	55	6.975	6.975	0.000	91	23776	200.0	157.2	
98 Bromobenzene	77	7.133	7.133	0.000	94	201886	20.0	21.1	
99 1,1,2,2-Tetrachloroethane	83	7.170	7.170	0.000	97	106612	20.0	20.8	
100 N-Propylbenzene	91	7.200	7.200	0.000	99	694973	20.0	22.7	
101 1,2,3-Trichloropropane	110	7.218	7.218	0.000	95	35971	20.0	21.5	
102 trans-1,4-Dichloro-2-buten	53	7.237	7.237	0.000	66	25707	20.0	17.5	
103 2-Chlorotoluene	91	7.310	7.310	0.000	98	455537	20.0	22.2	
104 4-Ethyltoluene	105	7.316	7.316	0.000	98	565942	NC	NC	
105 1,3,5-Trimethylbenzene	105	7.376	7.376	0.000	94	533502	20.0	22.9	
106 4-Chlorotoluene	91	7.419	7.419	0.000	96	420207	20.0	22.2	
107 tert-Butylbenzene	119	7.668	7.668	0.000	95	425727	20.0	22.3	
108 1,2,4-Trimethylbenzene	105	7.741	7.741	0.000	97	470044	20.0	22.0	
110 sec-Butylbenzene	105	7.881	7.881	0.000	98	610496	20.0	21.5	
112 4-Isopropyltoluene	119	8.027	8.027	0.000	98	517247	20.0	21.7	
111 1,3-Dichlorobenzene	146	8.033	8.033	0.000	97	257087	20.0	21.5	
113 Dicyclopentadiene	66	8.076	8.076	0.000	96	594745	NC	NC	
114 1,4-Dichlorobenzene	146	8.125	8.125	0.000	95	259290	20.0	21.2	
115 1,2,3-Trimethylbenzene	105	8.149	8.149	0.000	97	457437	20.0	21.0	
116 Benzyl chloride	91	8.265	8.265	0.000	99	156469	20.0	16.9	
117 n-Butylbenzene	91	8.429	8.429	0.000	97	415325	20.0	20.2	
118 1,2-Dichlorobenzene	146	8.490	8.490	0.000	97	230174	20.0	21.5	
119 1,2-Dibromo-3-Chloropropan	157	9.281	9.281	0.000	93	17379	20.0	20.3	
120 1,3,5-Trichlorobenzene	180	9.439	9.439	0.000	98	142594	20.0	18.7	
121 1,2,4-Trichlorobenzene	180	10.157	10.157	0.000	93	96436	20.0	17.7	
122 Hexachlorobutadiene	225	10.297	10.297	0.000	95	62495	20.0	17.7	
123 Naphthalene	128	10.467	10.467	0.000	99	171346	20.0	19.0	
124 1,2,3-Trichlorobenzene	180	10.759	10.759	0.000	95	67687	20.0	18.4	
125 2-Methylnaphthalene	142	11.720	11.720	0.000	87	38118	20.0	19.0	
126 1-Methylnaphthalene	142	11.896	11.896	0.000	93	40903	20.0	27.9	
S 149 1,2-Dichloroethene, Total	1				0		40.0	40.7	
S 148 Xylenes, Total	1				0		40.0	43.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

V1_Mega_I_00069

Amount Added: 20.00

Units: uL

V1_gases_I_00210

Amount Added: 20.00

Units: uL

VOA_ISSS150_W_00015

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061733.D

Injection Date: 07-May-2017 02:35:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: ccvis

Worklist Smp#: 2

Client ID:

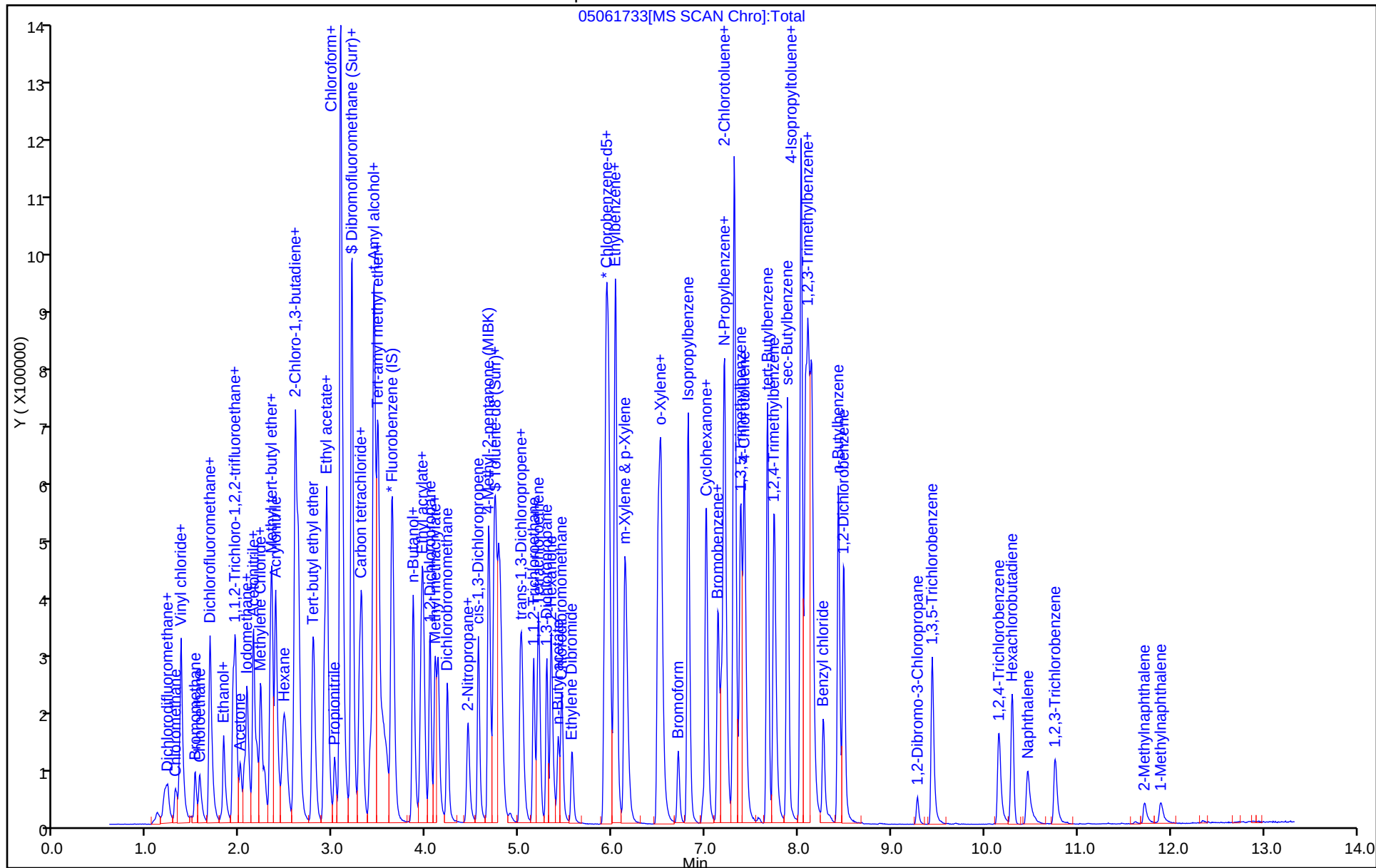
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 43

Method: 8260HP33

Limit Group: MSV 8260C ICAL



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
SDG No.: _____
Lab Sample ID: CCVIS 490-428592/2 Calibration Date: 05/09/2017 10:32
Instrument ID: HP33 Calib Start Date: 08/19/2016 18:11
GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 08/19/2016 21:46
Lab File ID: 05091702.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
Acetonitrile	Lin1		0.0323	0.0010		200		20.0

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20170509-90669.b\05091702.D
 Lims ID: ccvis
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 09-May-2017 10:32:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 490-0090669-002
 Operator ID: JJR Instrument ID: HP33
 Sublist: chrom-8260HP33*sub22
 Method: \\ChromNA\Nashville\ChromData\HP33\20170509-90669.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 10-May-2017 10:17:05 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D

Column 1 : Det: MS SCAN

Process Host: XAWRK022

First Level Reviewer: chumongkolratn

Date: 10-May-2017 10:17:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.623	3.623	0.000	98	891089	30.0	30.0	
* 2 Chlorobenzene-d5	117	5.929	5.929	0.000	86	740567	30.0	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.094	8.094	0.000	93	349546	30.0	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.209	3.209	0.000	98	224585	30.0	30.1	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.434	3.434	0.000	0	263836	30.0	31.8	
\$ 7 Toluene-d8 (Surr)	98	4.724	4.724	0.000	99	877133	30.0	26.8	
\$ 8 4-Bromofluorobenzene (Surr	95	6.999	6.999	0.000	96	315741	30.0	28.8	
11 Propene	41	1.196	1.196	0.000	94	42759	NC	NC	
12 Dichlorodifluoromethane	85	1.214	1.214	0.000	99	115039	20.0	25.5	
13 Chloromethane	50	1.311	1.311	0.000	99	98459	20.0	12.4	
14 Vinyl chloride	62	1.360	1.360	0.000	98	149949	20.0	17.0	
15 Butadiene	54	1.378	1.378	0.000	97	149060	20.0	16.7	
16 Bromomethane	96	1.524	1.524	0.000	99	63648	20.0	16.7	
17 Chloroethane	64	1.573	1.573	0.000	99	100072	20.0	17.4	
18 Dichlorofluoromethane	67	1.676	1.676	0.000	98	243698	20.0	18.3	
19 Trichlorofluoromethane	101	1.688	1.688	0.000	99	231150	20.0	22.9	
20 Ethanol	46	1.816	1.816	0.000	89	27030	800.0	820.6	
21 Ethyl ether	59	1.828	1.828	0.000	90	122309	20.0	18.5	
22 1,1,2-Trichloro-1,2,2-trif	101	1.932	1.932	0.000	96	153961	20.0	21.8	
23 Acrolein	56	1.944	1.944	0.000	33	18170	49.4	54.8	
24 1,1-Dichloroethene	96	1.956	1.956	0.000	98	133568	20.0	20.5	
25 Acetone	58	2.017	2.017	0.000	86	58122	100.0	90.0	
26 Iodomethane	142	2.053	2.053	0.000	98	141786	20.0	17.5	
27 Isopropyl alcohol	45	2.078	2.078	0.000	30	82595	200.0	229.4	
28 Carbon disulfide	76	2.084	2.084	0.000	100	419864	20.0	20.4	
32 Acetonitrile	41	2.145	2.145	0.000	71	191866	NC	NC	
30 3-Chloro-1-propene	76	2.145	2.145	0.000	86	146120	20.0	20.2	
31 Methyl acetate	43	2.157	2.157	0.000	98	199950	40.0	38.0	
33 Methylene Chloride	84	2.230	2.230	0.000	92	155436	20.0	18.3	
34 2-Methyl-2-propanol	59	2.272	2.272	0.000	97	122244	200.0	214.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Methyl tert-butyl ether	73	2.333	2.333	0.000	96	439918	20.0	21.3	
36 trans-1,2-Dichloroethene	61	2.345	2.345	0.000	93	206097	20.0	19.6	
37 Acrylonitrile	53	2.388	2.388	0.000	94	519638	200.0	206.1	
38 Hexane	57	2.449	2.449	0.000	92	257622	20.0	20.3	
39 Isopropyl ether	45	2.577	2.577	0.000	93	490184	20.0	17.9	
40 1,1-Dichloroethane	63	2.589	2.589	0.000	100	272313	20.0	19.7	
41 Vinyl acetate	86	2.601	2.601	0.000	100	70380	40.0	38.8	
42 2-Chloro-1,3-butadiene	53	2.625	2.625	0.000	92	255790	20.0	20.2	
43 Tert-butyl ethyl ether	59	2.777	2.777	0.000	90	470480	20.0	19.5	
44 2,2-Dichloropropane	77	2.911	2.911	0.000	95	242717	20.0	22.8	
45 cis-1,2-Dichloroethene	96	2.929	2.929	0.000	96	170875	20.0	20.7	
47 2-Butanone (MEK)	72	2.942	2.942	0.000	96	87676	100.0	111.3	
46 Ethyl acetate	70	2.942	2.942	0.000	96	32971	40.0	40.7	
48 Propionitrile	54	3.021	3.021	0.000	98	194813	200.0	201.2	
49 Chlorobromomethane	130	3.075	3.075	0.000	85	97152	20.0	20.6	
51 Tetrahydrofuran	42	3.081	3.081	0.000	35	104937	40.0	37.9	
50 Methacrylonitrile	41	3.081	3.081	0.000	92	891123	200.0	198.7	
52 Chloroform	83	3.106	3.106	0.000	98	267443	20.0	21.1	
53 Cyclohexane	56	3.197	3.197	0.000	92	292091	20.0	19.7	
54 1,1,1-Trichloroethane	97	3.203	3.203	0.000	97	243877	20.0	22.7	
56 Carbon tetrachloride	117	3.282	3.282	0.000	97	216731	20.0	24.2	
57 1,1-Dichloropropene	75	3.300	3.300	0.000	95	217760	20.0	21.2	
58 Isobutyl alcohol	43	3.404	3.404	0.000	54	230670	500.0	465.1	
59 Benzene	78	3.434	3.434	0.000	97	632730	20.0	20.0	
60 t-Amyl alcohol	59	3.446	3.446	0.000	76	113507	200.0	227.9	
61 Tert-amyl methyl ether	73	3.471	3.471	0.000	99	524676	20.0	21.4	
62 1,2-Dichloroethane	62	3.483	3.483	0.000	97	207395	20.0	21.4	
63 n-Heptane	43	3.532	3.532	0.000	86	238613	20.0	17.9	
64 n-Butanol	56	3.854	3.854	0.000	39	73674	500.0	489.7	
65 Trichloroethene	130	3.854	3.854	0.000	97	171733	20.0	21.1	
66 Ethyl acrylate	55	3.933	3.933	0.000	97	410014	20.0	19.4	
67 Methylcyclohexane	83	3.945	3.945	0.000	90	313961	20.0	20.9	
68 1,2-Dichloropropane	63	4.037	4.037	0.000	87	154339	20.0	19.1	
69 Methyl methacrylate	41	4.091	4.091	0.000	84	267259	40.0	34.6	
70 Dibromomethane	93	4.128	4.128	0.000	93	93398	20.0	22.0	
71 1,4-Dioxane	88	4.140	4.140	0.000	36	29819	400.0	419.1	
73 Dichlorobromomethane	83	4.225	4.225	0.000	99	209087	20.0	24.0	
74 2-Nitropropane	43	4.444	4.444	0.000	86	125080	40.0	32.4	
75 2-Chloroethyl vinyl ether	63	4.450	4.450	0.000	85	86041	20.0	16.7	
76 cis-1,3-Dichloropropene	75	4.560	4.560	0.000	95	249485	20.0	18.3	
77 4-Methyl-2-pentanone (MIBK)	58	4.663	4.663	0.000	96	290894	100.0	97.8	
78 Toluene	91	4.773	4.773	0.000	94	672210	20.0	18.2	
79 trans-1,3-Dichloropropene	75	5.004	5.004	0.000	98	219091	20.0	19.1	
80 Ethyl methacrylate	69	5.022	5.022	0.000	89	203178	20.0	19.2	
81 1,1,2-Trichloroethane	97	5.150	5.150	0.000	93	139977	20.0	20.1	
82 Tetrachloroethene	166	5.192	5.192	0.000	97	208437	20.0	21.7	
83 1,3-Dichloropropane	76	5.290	5.290	0.000	93	242657	20.0	20.2	
84 2-Hexanone	58	5.332	5.332	0.000	95	266085	100.0	109.9	
85 n-Butyl acetate	43	5.411	5.411	0.000	98	233597	20.0	22.2	
86 Chlorodibromomethane	127	5.454	5.454	0.000	98	128764	20.0	23.8	
87 Ethylene Dibromide	107	5.557	5.557	0.000	99	140726	20.0	21.4	
88 1-Chlorohexane	91	5.910	5.910	0.000	87	251385	20.0	23.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
89 Chlorobenzene	112	5.953	5.953	0.000	95	480555	20.0	20.9	
90 Ethylbenzene	91	6.020	6.020	0.000	98	811520	20.0	20.9	
91 1,1,1,2-Tetrachloroethane	131	6.032	6.032	0.000	93	176207	20.0	22.4	
92 m-Xylene & p-Xylene	91	6.129	6.129	0.000	0	624673	20.0	20.8	
93 o-Xylene	91	6.482	6.482	0.000	94	640530	20.0	21.2	
94 Styrene	104	6.513	6.513	0.000	96	543300	20.0	21.5	
95 Bromoform	173	6.701	6.701	0.000	98	111311	20.0	26.1	
96 Isopropylbenzene	105	6.805	6.805	0.000	96	838870	20.0	22.0	
97 Cyclohexanone	55	6.969	6.969	0.000	92	40827	200.0	205.0	
98 Bromobenzene	77	7.127	7.127	0.000	92	277496	20.0	19.8	
99 1,1,2,2-Tetrachloroethane	83	7.170	7.170	0.000	97	172219	20.0	22.9	
100 N-Propylbenzene	91	7.194	7.194	0.000	99	980827	20.0	21.9	
101 1,2,3-Trichloropropane	110	7.206	7.206	0.000	95	58474	20.0	23.8	
102 trans-1,4-Dichloro-2-buten	53	7.230	7.230	0.000	81	47376	20.0	21.9	
103 2-Chlorotoluene	91	7.297	7.297	0.000	97	647415	20.0	21.5	
104 4-Ethyltoluene	105	7.303	7.303	0.000	98	822337	NC	NC	
105 1,3,5-Trimethylbenzene	105	7.370	7.370	0.000	94	733355	20.0	21.4	
106 4-Chlorotoluene	91	7.413	7.413	0.000	96	596387	20.0	21.4	
107 tert-Butylbenzene	119	7.662	7.662	0.000	95	606518	20.0	21.6	
108 1,2,4-Trimethylbenzene	105	7.729	7.729	0.000	97	671822	20.0	21.5	
110 sec-Butylbenzene	105	7.875	7.875	0.000	98	881572	20.0	21.2	
112 4-Isopropyltoluene	119	8.021	8.021	0.000	98	764220	20.0	21.8	
111 1,3-Dichlorobenzene	146	8.027	8.027	0.000	98	383922	20.0	21.9	
113 Dicyclopentadiene	66	8.070	8.070	0.000	96	833001	NC	NC	
114 1,4-Dichlorobenzene	146	8.119	8.119	0.000	96	403112	20.0	22.5	
115 1,2,3-Trimethylbenzene	105	8.137	8.137	0.000	97	662079	20.0	20.7	
116 Benzyl chloride	91	8.258	8.258	0.000	99	314183	20.0	24.4	
117 n-Butylbenzene	91	8.423	8.423	0.000	98	613313	20.0	20.3	
118 1,2-Dichlorobenzene	146	8.484	8.484	0.000	97	341115	20.0	21.7	
119 1,2-Dibromo-3-Chloropropan	157	9.274	9.274	0.000	92	33473	20.0	26.7	
120 1,3,5-Trichlorobenzene	180	9.433	9.433	0.000	98	222801	20.0	19.9	
121 1,2,4-Trichlorobenzene	180	10.150	10.150	0.000	94	157988	20.0	19.8	
122 Hexachlorobutadiene	225	10.296	10.296	0.000	96	96744	20.0	18.7	
123 Naphthalene	128	10.455	10.455	0.000	99	312733	20.0	23.6	
124 1,2,3-Trichlorobenzene	180	10.753	10.753	0.000	95	120754	20.0	22.4	
125 2-Methylnaphthalene	142	11.708	11.708	0.000	86	71473	20.0	24.2	
126 1-Methylnaphthalene	142	11.884	11.884	0.000	94	56124	20.0	26.1	
S 148 Xylenes, Total	1				0		40.0	42.0	
S 149 1,2-Dichloroethene, Total	1				0		40.0	40.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

V1_Mega_I_00070

Amount Added: 20.00

Units: uL

V1_gases_I_00210

Amount Added: 20.00

Units: uL

VOA_ISSS150_W_00015

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170509-90669.b\\05091702.D

Injection Date: 09-May-2017 10:32:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: ccvis

Worklist Smp#: 2

Client ID:

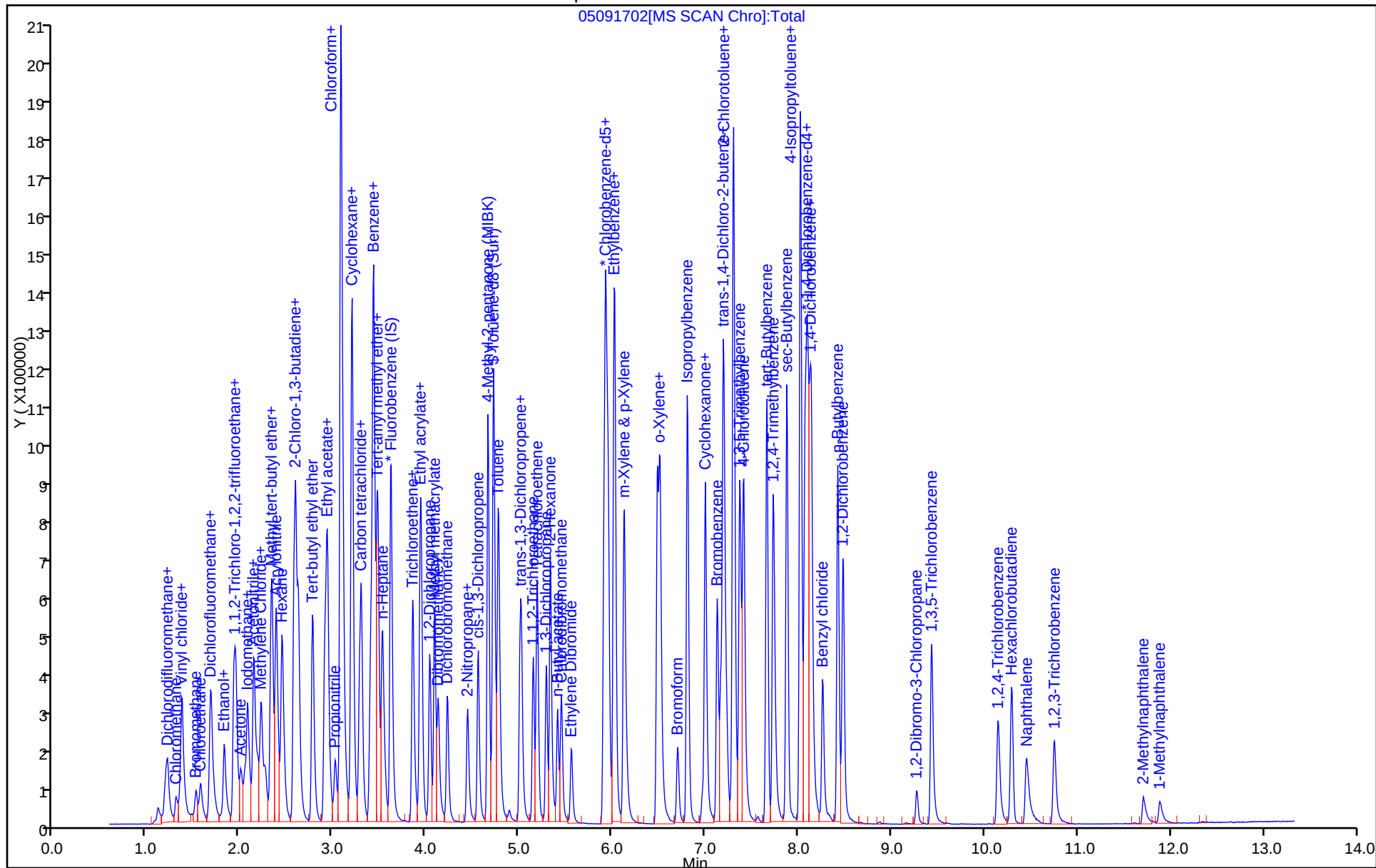
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 8260HP33

Limit Group: MSV 8260C ICAL



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 480-117063-1

SDG No.: _____

Lab Sample ID: CCVIS 490-428592/2 Calibration Date: 05/09/2017 10:32

Instrument ID: HP33 Calib Start Date: 11/08/2016 23:21

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 11/09/2016 02:55

Lab File ID: 05091702.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	0.1519	0.1937	0.1000	25.5	20.0	27.5*	20.0
Chloromethane	Ave	0.2683	0.1657	0.1000	12.4	20.0	-38.2*	20.0
Vinyl chloride	Ave	0.2975	0.2524	0.1000	17.0	20.0	-15.1	20.0
Butadiene	Ave	0.3010	0.2509	0.1000	16.7	20.0	-16.6	20.0
Bromomethane	Lin2		0.1071	0.1000	16.7	20.0	-16.4	20.0
Chloroethane	Ave	0.1935	0.1685	0.1000	17.4	20.0	-13.0	20.0
Dichlorofluoromethane	Ave	0.4481	0.4102	0.1000	18.3	20.0	-8.5	20.0
Trichlorofluoromethane	Ave	0.3405	0.3891	0.1000	22.9	20.0	14.3	20.0
Ethanol	Lin1		0.0011	0.0010	821	800	2.6	20.0
Ethyl ether	Ave	0.2229	0.2059	0.1000	18.5	20.0	-7.6	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2376	0.2592	0.1000	21.8	20.0	9.1	20.0
Acrolein	Ave	0.0112	0.0124	0.0100	54.8	49.4	11.0	20.0
1,1-Dichloroethene	Ave	0.2196	0.2248	0.1000	20.5	20.0	2.4	20.0
Acetone	Ave	0.0217	0.0196	0.0100	90.0	100	-10.0	20.0
Iodomethane	Ave	0.2727	0.2387	0.1000	17.5	20.0	-12.5	20.0
Isopropyl alcohol	Ave	0.0121	0.0139	0.0010	229	200	14.7	20.0
Carbon disulfide	Ave	0.6920	0.7068	0.1000	20.4	20.0	2.1	20.0
3-Chloro-1-propene	Ave	0.2431	0.2460	0.1000	20.2	20.0	1.2	20.0
Methyl acetate	Ave	0.1772	0.1683	0.1000	38.0	40.0	-5.0	20.0
Methylene Chloride	Ave	0.2861	0.2617	0.0100	18.3	20.0	-8.5	20.0
2-Methyl-2-propanol	Ave	0.0192	0.0206	0.0010	215	200	7.3	20.0
Methyl tert-butyl ether	Ave	0.6955	0.7405	0.1000	21.3	20.0	6.5	20.0
trans-1,2-Dichloroethene	Ave	0.3547	0.3469	0.1000	19.6	20.0	-2.2	20.0
Acrylonitrile	Ave	0.0849	0.0875	0.0100	206	200	3.1	20.0
n-Hexane	Ave	0.4283	0.4337	0.1000	20.3	20.0	1.3	20.0
Isopropyl ether	Ave	0.9197	0.8251	0.1000	17.9	20.0	-10.3	20.0
1,1-Dichloroethane	Ave	0.4658	0.4584	0.2000	19.7	20.0	-1.6	20.0
Vinyl acetate	Lin2		0.0592*	0.1000	38.8	40.0	-3.0	20.0
2-Chloro-1,3-butadiene	Ave	0.4256	0.4306	0.1000	20.2	20.0	1.2	20.0
Tert-butyl ethyl ether	Ave	0.8135	0.7920	0.1000	19.5	20.0	-2.6	20.0
2,2-Dichloropropane	Ave	0.3591	0.4086	0.1000	22.8	20.0	13.8	20.0
cis-1,2-Dichloroethene	Ave	0.2780	0.2876	0.1000	20.7	20.0	3.5	20.0
2-Butanone (MEK)	Ave	0.0265	0.0295	0.0100	111	100	11.3	20.0
Ethyl acetate	Ave	0.0273	0.0278	0.0100	40.7	40.0	1.7	20.0
Propionitrile	Ave	0.0326	0.0328	0.0100	201	200	0.6	20.0
Chlorobromomethane	Ave	0.1587	0.1635	0.1000	20.6	20.0	3.1	20.0
Methacrylonitrile	Ave	0.1510	0.1500	0.1000	199	200	-0.6	20.0
Tetrahydrofuran	Ave	0.0932	0.0883	0.0500	37.9	40.0	-5.2	20.0
Chloroform	Ave	0.4276	0.4502	0.2000	21.1	20.0	5.3	20.0
Cyclohexane	Ave	0.5002	0.4917	0.1000	19.7	20.0	-1.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 480-117063-1

SDG No.: _____

Lab Sample ID: CCVIS 490-428592/2 Calibration Date: 05/09/2017 10:32

Instrument ID: HP33 Calib Start Date: 11/08/2016 23:21

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 11/09/2016 02:55

Lab File ID: 05091702.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	0.3616	0.4105	0.1000	22.7	20.0	13.5	20.0
Carbon tetrachloride	Ave	0.3011	0.3648	0.1000	24.2	20.0	21.2*	20.0
1,1-Dichloropropene	Ave	0.3464	0.3666	0.1000	21.2	20.0	5.8	20.0
Isobutyl alcohol	Ave	0.0167	0.0155	0.0010	465	500	-7.0	20.0
Benzene	Ave	1.065	1.065	0.5000	20.0	20.0	0.0	20.0
t-Amyl alcohol	Ave	0.0168	0.0191	0.0010	228	200	14.0	20.0
Tert-amyl methyl ether	Ave	0.8244	0.8832	0.1000	21.4	20.0	7.1	20.0
1,2-Dichloroethane	Ave	0.3262	0.3491	0.1000	21.4	20.0	7.0	20.0
n-Heptane	Ave	0.4492	0.4017	0.1000	17.9	20.0	-10.6	20.0
n-Butanol	Ave	0.0051	0.0050	0.0010	490	500	-2.1	20.0
Trichloroethene	Ave	0.2738	0.2891	0.2000	21.1	20.0	5.6	20.0
Ethyl acrylate	Ave	0.7099	0.6902	0.1000	19.4	20.0	-2.8	20.0
Methylcyclohexane	Ave	0.5066	0.5285	0.1000	20.9	20.0	4.3	20.0
1,2-Dichloropropane	Ave	0.2724	0.2598	0.1000	19.1	20.0	-4.6	20.0
Methyl methacrylate	Lin2		0.2249	0.1000	34.6	40.0	-13.4	20.0
Dibromomethane	Ave	0.1430	0.1572	0.0500	22.0	20.0	9.9	20.0
1,4-Dioxane	Ave	0.0024	0.0025	0.0010	419	400	4.8	20.0
Bromodichloromethane	Ave	0.2934	0.3520	0.2000	24.0	20.0	20.0	20.0
2-Nitropropane	Ave	0.1301	0.1053	0.0100	32.4	40.0	-19.1	20.0
2-Chloroethyl vinyl ether	Ave	0.2092	0.1743	0.1000	16.7	20.0	-16.7	20.0
cis-1,3-Dichloropropene	Ave	0.5517	0.5053	0.2000	18.3	20.0	-8.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1205	0.1178	0.0500	97.8	100	-2.2	20.0
Toluene	Ave	1.497	1.362	0.4000	18.2	20.0	-9.1	20.0
trans-1,3-Dichloropropene	Ave	0.4656	0.4438	0.0100	19.1	20.0	-4.7	20.0
Ethyl methacrylate	Ave	0.4289	0.4115	0.1000	19.2	20.0	-4.1	20.0
1,1,2-Trichloroethane	Ave	0.2826	0.2835	0.1000	20.1	20.0	0.3	20.0
Tetrachloroethene	Ave	0.3893	0.4222	0.2000	21.7	20.0	8.4	20.0
1,3-Dichloropropane	Ave	0.4876	0.4915	0.1000	20.2	20.0	0.8	20.0
2-Hexanone	Ave	0.0981	0.1078	0.0500	110	100	9.9	20.0
n-Butyl acetate	Ave	0.3549	0.3932	0.1000	22.2	20.0	10.8	20.0
Dibromochloromethane	Ave	0.2194	0.2608	0.1000	23.8	20.0	18.9	20.0
1,2-Dibromoethane	Ave	0.2667	0.2850	0.1000	21.4	20.0	6.9	20.0
1-Chlorohexane	Ave	0.3665	0.4232	0.1000	23.1	20.0	15.5	20.0
Chlorobenzene	Ave	0.9329	0.9734	0.5000	20.9	20.0	4.3	20.0
Ethylbenzene	Ave	1.576	1.644	0.1000	20.9	20.0	4.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3181	0.3569	0.1000	22.4	20.0	12.2	20.0
m-Xylene & p-Xylene	Ave	1.216	1.265	0.1000	20.8	20.0	4.1	20.0
o-Xylene	Ave	1.226	1.297	0.3000	21.2	20.0	5.8	20.0
Styrene	Ave	1.024	1.100	0.3000	21.5	20.0	7.5	20.0
Bromoform	Lin2		0.2255	0.0100	26.1	20.0	30.7*	20.0
Isopropylbenzene	Ave	1.545	1.699	0.1000	22.0	20.0	10.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Lab Sample ID: CCVIS 490-428592/2 Calibration Date: 05/09/2017 10:32
 Instrument ID: HP33 Calib Start Date: 11/08/2016 23:21
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 11/09/2016 02:55
 Lab File ID: 05091702.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
Cyclohexanone	Ave	0.0067	0.0069	0.0010	205	200	2.5	20.0
Bromobenzene	Ave	1.203	1.191	0.1000	19.8	20.0	-1.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6452	0.7390	0.3000	22.9	20.0	14.6	20.0
N-Propylbenzene	Ave	3.850	4.209	0.1000	21.9	20.0	9.3	20.0
1,2,3-Trichloropropane	Ave	0.2108	0.2509	0.1000	23.8	20.0	19.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1854	0.2033	0.1000	21.9	20.0	9.7	20.0
2-Chlorotoluene	Ave	2.587	2.778	0.1000	21.5	20.0	7.4	20.0
1,3,5-Trimethylbenzene	Ave	2.939	3.147	0.1000	21.4	20.0	7.1	20.0
4-Chlorotoluene	Ave	2.386	2.559	0.1000	21.4	20.0	7.2	20.0
tert-Butylbenzene	Ave	2.408	2.603	0.1000	21.6	20.0	8.1	20.0
1,2,4-Trimethylbenzene	Ave	2.687	2.883	0.1000	21.5	20.0	7.3	20.0
sec-Butylbenzene	Ave	3.571	3.783	0.1000	21.2	20.0	6.0	20.0
4-Isopropyltoluene	Ave	3.006	3.279	0.1000	21.8	20.0	9.1	20.0
1,3-Dichlorobenzene	Ave	1.503	1.648	0.6000	21.9	20.0	9.6	20.0
1,4-Dichlorobenzene	Ave	1.537	1.730	0.5000	22.5	20.0	12.5	20.0
1,2,3-Trimethylbenzene	Ave	2.746	2.841	0.1000	20.7	20.0	3.5	20.0
Benzyl chloride	Ave	0.5222	0.6364	0.0100	24.4	20.0	21.9*	20.0
n-Butylbenzene	Ave	2.588	2.632	0.1000	20.3	20.0	1.7	20.0
1,2-Dichlorobenzene	Ave	1.350	1.464	0.4000	21.7	20.0	8.4	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1075	0.1436	0.0100	26.7	20.0	33.6*	20.0
1,3,5-Trichlorobenzene	Ave	0.9595	0.9561	0.1000	19.9	20.0	-0.3	20.0
1,2,4-Trichlorobenzene	Lin2		0.6780	0.2000	19.8	20.0	-1.2	20.0
Hexachlorobutadiene	Ave	0.4452	0.4152	0.1000	18.7	20.0	-6.7	20.0
Naphthalene	Ave	1.135	1.342	0.0100	23.6	20.0	18.2	20.0
1,2,3-Trichlorobenzene	Ave	0.4630	0.5182	0.1000	22.4	20.0	11.9	20.0
2-Methylnaphthalene	Ave	0.2530	0.3067	0.0100	24.2	20.0	21.2*	20.0
1-Methylnaphthalene	Ave	0.1847	0.2408	0.1000	26.1	20.0	30.4*	20.0
Dibromofluoromethane (Surr)	Ave	0.2513	0.2520		30.1	30.0	0.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2792	0.2961		31.8	30.0	6.0	20.0
Toluene-d8 (Surr)	Ave	1.328	1.184		26.8	30.0	-10.8	20.0
4-Bromofluorobenzene (Surr)	Ave	0.9414	0.9033		28.8	30.0	-4.0	20.0

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20170509-90669.b\05091702.D
 Lims ID: ccvis
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 09-May-2017 10:32:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 490-0090669-002
 Operator ID: JJR Instrument ID: HP33
 Sublist: chrom-8260HP33*sub22
 Method: \\ChromNA\Nashville\ChromData\HP33\20170509-90669.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 10-May-2017 10:17:05 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D

Column 1 : Det: MS SCAN

Process Host: XAWRK022

First Level Reviewer: chumongkolratn

Date: 10-May-2017 10:17:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.623	3.623	0.000	98	891089	30.0	30.0	
* 2 Chlorobenzene-d5	117	5.929	5.929	0.000	86	740567	30.0	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.094	8.094	0.000	93	349546	30.0	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.209	3.209	0.000	98	224585	30.0	30.1	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.434	3.434	0.000	0	263836	30.0	31.8	
\$ 7 Toluene-d8 (Surr)	98	4.724	4.724	0.000	99	877133	30.0	26.8	
\$ 8 4-Bromofluorobenzene (Surr	95	6.999	6.999	0.000	96	315741	30.0	28.8	
11 Propene	41	1.196	1.196	0.000	94	42759	NC	NC	
12 Dichlorodifluoromethane	85	1.214	1.214	0.000	99	115039	20.0	25.5	
13 Chloromethane	50	1.311	1.311	0.000	99	98459	20.0	12.4	
14 Vinyl chloride	62	1.360	1.360	0.000	98	149949	20.0	17.0	
15 Butadiene	54	1.378	1.378	0.000	97	149060	20.0	16.7	
16 Bromomethane	96	1.524	1.524	0.000	99	63648	20.0	16.7	
17 Chloroethane	64	1.573	1.573	0.000	99	100072	20.0	17.4	
18 Dichlorofluoromethane	67	1.676	1.676	0.000	98	243698	20.0	18.3	
19 Trichlorofluoromethane	101	1.688	1.688	0.000	99	231150	20.0	22.9	
20 Ethanol	46	1.816	1.816	0.000	89	27030	800.0	820.6	
21 Ethyl ether	59	1.828	1.828	0.000	90	122309	20.0	18.5	
22 1,1,2-Trichloro-1,2,2-trif	101	1.932	1.932	0.000	96	153961	20.0	21.8	
23 Acrolein	56	1.944	1.944	0.000	33	18170	49.4	54.8	
24 1,1-Dichloroethene	96	1.956	1.956	0.000	98	133568	20.0	20.5	
25 Acetone	58	2.017	2.017	0.000	86	58122	100.0	90.0	
26 Iodomethane	142	2.053	2.053	0.000	98	141786	20.0	17.5	
27 Isopropyl alcohol	45	2.078	2.078	0.000	30	82595	200.0	229.4	
28 Carbon disulfide	76	2.084	2.084	0.000	100	419864	20.0	20.4	
32 Acetonitrile	41	2.145	2.145	0.000	71	191866	NC	NC	
30 3-Chloro-1-propene	76	2.145	2.145	0.000	86	146120	20.0	20.2	
31 Methyl acetate	43	2.157	2.157	0.000	98	199950	40.0	38.0	
33 Methylene Chloride	84	2.230	2.230	0.000	92	155436	20.0	18.3	
34 2-Methyl-2-propanol	59	2.272	2.272	0.000	97	122244	200.0	214.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Methyl tert-butyl ether	73	2.333	2.333	0.000	96	439918	20.0	21.3	
36 trans-1,2-Dichloroethene	61	2.345	2.345	0.000	93	206097	20.0	19.6	
37 Acrylonitrile	53	2.388	2.388	0.000	94	519638	200.0	206.1	
38 Hexane	57	2.449	2.449	0.000	92	257622	20.0	20.3	
39 Isopropyl ether	45	2.577	2.577	0.000	93	490184	20.0	17.9	
40 1,1-Dichloroethane	63	2.589	2.589	0.000	100	272313	20.0	19.7	
41 Vinyl acetate	86	2.601	2.601	0.000	100	70380	40.0	38.8	
42 2-Chloro-1,3-butadiene	53	2.625	2.625	0.000	92	255790	20.0	20.2	
43 Tert-butyl ethyl ether	59	2.777	2.777	0.000	90	470480	20.0	19.5	
44 2,2-Dichloropropane	77	2.911	2.911	0.000	95	242717	20.0	22.8	
45 cis-1,2-Dichloroethene	96	2.929	2.929	0.000	96	170875	20.0	20.7	
47 2-Butanone (MEK)	72	2.942	2.942	0.000	96	87676	100.0	111.3	
46 Ethyl acetate	70	2.942	2.942	0.000	96	32971	40.0	40.7	
48 Propionitrile	54	3.021	3.021	0.000	98	194813	200.0	201.2	
49 Chlorobromomethane	130	3.075	3.075	0.000	85	97152	20.0	20.6	
51 Tetrahydrofuran	42	3.081	3.081	0.000	35	104937	40.0	37.9	
50 Methacrylonitrile	41	3.081	3.081	0.000	92	891123	200.0	198.7	
52 Chloroform	83	3.106	3.106	0.000	98	267443	20.0	21.1	
53 Cyclohexane	56	3.197	3.197	0.000	92	292091	20.0	19.7	
54 1,1,1-Trichloroethane	97	3.203	3.203	0.000	97	243877	20.0	22.7	
56 Carbon tetrachloride	117	3.282	3.282	0.000	97	216731	20.0	24.2	
57 1,1-Dichloropropene	75	3.300	3.300	0.000	95	217760	20.0	21.2	
58 Isobutyl alcohol	43	3.404	3.404	0.000	54	230670	500.0	465.1	
59 Benzene	78	3.434	3.434	0.000	97	632730	20.0	20.0	
60 t-Amyl alcohol	59	3.446	3.446	0.000	76	113507	200.0	227.9	
61 Tert-amyl methyl ether	73	3.471	3.471	0.000	99	524676	20.0	21.4	
62 1,2-Dichloroethane	62	3.483	3.483	0.000	97	207395	20.0	21.4	
63 n-Heptane	43	3.532	3.532	0.000	86	238613	20.0	17.9	
64 n-Butanol	56	3.854	3.854	0.000	39	73674	500.0	489.7	
65 Trichloroethene	130	3.854	3.854	0.000	97	171733	20.0	21.1	
66 Ethyl acrylate	55	3.933	3.933	0.000	97	410014	20.0	19.4	
67 Methylcyclohexane	83	3.945	3.945	0.000	90	313961	20.0	20.9	
68 1,2-Dichloropropane	63	4.037	4.037	0.000	87	154339	20.0	19.1	
69 Methyl methacrylate	41	4.091	4.091	0.000	84	267259	40.0	34.6	
70 Dibromomethane	93	4.128	4.128	0.000	93	93398	20.0	22.0	
71 1,4-Dioxane	88	4.140	4.140	0.000	36	29819	400.0	419.1	
73 Dichlorobromomethane	83	4.225	4.225	0.000	99	209087	20.0	24.0	
74 2-Nitropropane	43	4.444	4.444	0.000	86	125080	40.0	32.4	
75 2-Chloroethyl vinyl ether	63	4.450	4.450	0.000	85	86041	20.0	16.7	
76 cis-1,3-Dichloropropene	75	4.560	4.560	0.000	95	249485	20.0	18.3	
77 4-Methyl-2-pentanone (MIBK)	58	4.663	4.663	0.000	96	290894	100.0	97.8	
78 Toluene	91	4.773	4.773	0.000	94	672210	20.0	18.2	
79 trans-1,3-Dichloropropene	75	5.004	5.004	0.000	98	219091	20.0	19.1	
80 Ethyl methacrylate	69	5.022	5.022	0.000	89	203178	20.0	19.2	
81 1,1,2-Trichloroethane	97	5.150	5.150	0.000	93	139977	20.0	20.1	
82 Tetrachloroethene	166	5.192	5.192	0.000	97	208437	20.0	21.7	
83 1,3-Dichloropropane	76	5.290	5.290	0.000	93	242657	20.0	20.2	
84 2-Hexanone	58	5.332	5.332	0.000	95	266085	100.0	109.9	
85 n-Butyl acetate	43	5.411	5.411	0.000	98	233597	20.0	22.2	
86 Chlorodibromomethane	127	5.454	5.454	0.000	98	128764	20.0	23.8	
87 Ethylene Dibromide	107	5.557	5.557	0.000	99	140726	20.0	21.4	
88 1-Chlorohexane	91	5.910	5.910	0.000	87	251385	20.0	23.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
89 Chlorobenzene	112	5.953	5.953	0.000	95	480555	20.0	20.9	
90 Ethylbenzene	91	6.020	6.020	0.000	98	811520	20.0	20.9	
91 1,1,1,2-Tetrachloroethane	131	6.032	6.032	0.000	93	176207	20.0	22.4	
92 m-Xylene & p-Xylene	91	6.129	6.129	0.000	0	624673	20.0	20.8	
93 o-Xylene	91	6.482	6.482	0.000	94	640530	20.0	21.2	
94 Styrene	104	6.513	6.513	0.000	96	543300	20.0	21.5	
95 Bromoform	173	6.701	6.701	0.000	98	111311	20.0	26.1	
96 Isopropylbenzene	105	6.805	6.805	0.000	96	838870	20.0	22.0	
97 Cyclohexanone	55	6.969	6.969	0.000	92	40827	200.0	205.0	
98 Bromobenzene	77	7.127	7.127	0.000	92	277496	20.0	19.8	
99 1,1,2,2-Tetrachloroethane	83	7.170	7.170	0.000	97	172219	20.0	22.9	
100 N-Propylbenzene	91	7.194	7.194	0.000	99	980827	20.0	21.9	
101 1,2,3-Trichloropropane	110	7.206	7.206	0.000	95	58474	20.0	23.8	
102 trans-1,4-Dichloro-2-buten	53	7.230	7.230	0.000	81	47376	20.0	21.9	
103 2-Chlorotoluene	91	7.297	7.297	0.000	97	647415	20.0	21.5	
104 4-Ethyltoluene	105	7.303	7.303	0.000	98	822337	NC	NC	
105 1,3,5-Trimethylbenzene	105	7.370	7.370	0.000	94	733355	20.0	21.4	
106 4-Chlorotoluene	91	7.413	7.413	0.000	96	596387	20.0	21.4	
107 tert-Butylbenzene	119	7.662	7.662	0.000	95	606518	20.0	21.6	
108 1,2,4-Trimethylbenzene	105	7.729	7.729	0.000	97	671822	20.0	21.5	
110 sec-Butylbenzene	105	7.875	7.875	0.000	98	881572	20.0	21.2	
112 4-Isopropyltoluene	119	8.021	8.021	0.000	98	764220	20.0	21.8	
111 1,3-Dichlorobenzene	146	8.027	8.027	0.000	98	383922	20.0	21.9	
113 Dicyclopentadiene	66	8.070	8.070	0.000	96	833001	NC	NC	
114 1,4-Dichlorobenzene	146	8.119	8.119	0.000	96	403112	20.0	22.5	
115 1,2,3-Trimethylbenzene	105	8.137	8.137	0.000	97	662079	20.0	20.7	
116 Benzyl chloride	91	8.258	8.258	0.000	99	314183	20.0	24.4	
117 n-Butylbenzene	91	8.423	8.423	0.000	98	613313	20.0	20.3	
118 1,2-Dichlorobenzene	146	8.484	8.484	0.000	97	341115	20.0	21.7	
119 1,2-Dibromo-3-Chloropropan	157	9.274	9.274	0.000	92	33473	20.0	26.7	
120 1,3,5-Trichlorobenzene	180	9.433	9.433	0.000	98	222801	20.0	19.9	
121 1,2,4-Trichlorobenzene	180	10.150	10.150	0.000	94	157988	20.0	19.8	
122 Hexachlorobutadiene	225	10.296	10.296	0.000	96	96744	20.0	18.7	
123 Naphthalene	128	10.455	10.455	0.000	99	312733	20.0	23.6	
124 1,2,3-Trichlorobenzene	180	10.753	10.753	0.000	95	120754	20.0	22.4	
125 2-Methylnaphthalene	142	11.708	11.708	0.000	86	71473	20.0	24.2	
126 1-Methylnaphthalene	142	11.884	11.884	0.000	94	56124	20.0	26.1	
S 148 Xylenes, Total	1				0		40.0	42.0	
S 149 1,2-Dichloroethene, Total	1				0		40.0	40.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

V1_Mega_I_00070

Amount Added: 20.00

Units: uL

V1_gases_I_00210

Amount Added: 20.00

Units: uL

VOA_ISSS150_W_00015

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170509-90669.b\\05091702.D

Injection Date: 09-May-2017 10:32:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: ccvis

Worklist Smp#: 2

Client ID:

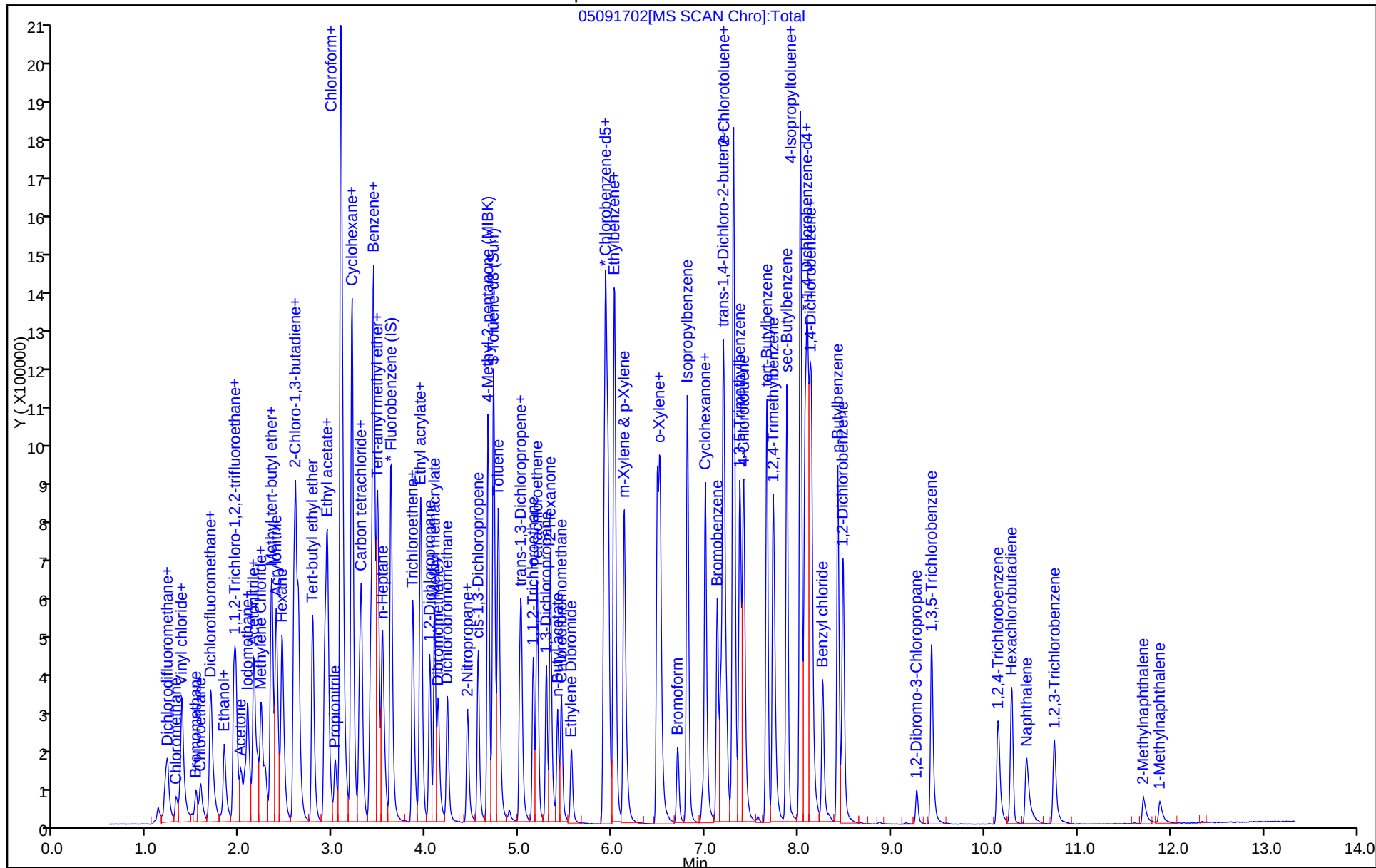
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 8260HP33

Limit Group: MSV 8260C ICAL



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 480-117063-1

SDG No.: _____

Lab Sample ID: ICV 490-415044/17 Calibration Date: 03/16/2017 23:01

Instrument ID: HP39 Calib Start Date: 03/16/2017 17:49

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/16/2017 21:43

Lab File ID: 03161717.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	0.2879	0.3251	0.1000	22.6	20.0	12.9	30.0
Chloromethane	Lin2		0.2750	0.1000	19.7	20.0	-1.3	30.0
Vinyl chloride	Ave	0.3240	0.3255	0.1000	20.1	20.0	0.5	30.0
Butadiene	Lin1		0.2846	0.1000	18.2	20.0	-8.9	30.0
Bromomethane	Qual		0.1600	0.1000	21.2	20.0	6.1	30.0
Chloroethane	Ave	0.2233	0.2034	0.1000	18.2	20.0	-8.9	30.0
Dichlorofluoromethane	Ave	0.5153	0.4768	0.1000	18.5	20.0	-7.5	30.0
Trichlorofluoromethane	Ave	0.4264	0.4226	0.1000	19.8	20.0	-0.9	30.0
Ethanol	Ave	0.0006	0.0006*	0.0010	804	800	0.5	40.0
Ethyl ether	Ave	0.1669	0.1655	0.1000	19.8	20.0	-0.8	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2565	0.2373	0.1000	18.5	20.0	-7.5	30.0
Acrolein	Ave	0.0160	0.0165	0.0100	50.9	49.4	3.2	40.0
1,1-Dichloroethene	Ave	0.2726	0.2634	0.1000	19.3	20.0	-3.4	30.0
Acetone	Lin2		0.0122	0.0100	105	100	5.4	30.0
Iodomethane	Lin1		0.5151	0.1000	25.3	20.0	26.5	30.0
Isopropyl alcohol	Lin2		0.0068	0.0010	201	200	0.7	30.0
Carbon disulfide	Lin2		0.7510	0.1000	20.1	20.0	0.4	30.0
3-Chloro-1-propene	Lin2		0.2151	0.1000	18.8	20.0	-6.2	30.0
Methyl acetate	Ave	0.1042	0.1171	0.1000	45.0	40.0	12.4	30.0
Acetonitrile	Ave	0.0130	0.0110	0.0010	169	200	-15.3	30.0
Methylene Chloride	Lin2		0.2799	0.0100	19.6	20.0	-1.9	30.0
2-Methyl-2-propanol	Ave	0.0111	0.0107	0.0010	193	200	-3.7	40.0
Methyl tert-butyl ether	Ave	0.5310	0.5316	0.1000	20.0	20.0	0.1	30.0
trans-1,2-Dichloroethene	Ave	0.3632	0.3443	0.1000	19.0	20.0	-5.2	30.0
Acrylonitrile	Ave	0.0518	0.0512	0.0100	198	200	-1.1	30.0
n-Hexane	Ave	0.3605	0.3586	0.1000	19.9	20.0	-0.5	30.0
Isopropyl ether	Ave	0.8105	0.8433	0.1000	20.8	20.0	4.0	30.0
1,1-Dichloroethane	Ave	0.5007	0.4980	0.2000	19.9	20.0	-0.5	30.0
Vinyl acetate	Ave	0.0384	0.0303*	0.1000	31.5	40.0	-21.3	40.0
2-Chloro-1,3-butadiene	Ave	0.3863	0.3780	0.1000	19.6	20.0	-2.1	30.0
Tert-butyl ethyl ether	Ave	0.6970	0.7046	0.1000	20.2	20.0	1.1	30.0
2,2-Dichloropropane	Ave	0.4149	0.4021	0.1000	19.4	20.0	-3.1	30.0
cis-1,2-Dichloroethene	Ave	0.3327	0.3285	0.1000	19.7	20.0	-1.3	30.0
2-Butanone (MEK)	Ave	0.0170	0.0169	0.0100	99.1	100	-0.9	30.0
Ethyl acetate	Ave	0.0176	0.0182	0.0100	41.4	40.0	3.5	30.0
Propionitrile	Ave	0.0193	0.0194	0.0100	201	200	0.3	30.0
Chlorobromomethane	Ave	0.1803	0.1708	0.1000	18.9	20.0	-5.3	30.0
Methacrylonitrile	Ave	0.0914	0.0898*	0.1000	196	200	-1.8	30.0
Tetrahydrofuran	Ave	0.0526	0.0524	0.0500	39.9	40.0	-0.3	30.0
Chloroform	Ave	0.4580	0.4666	0.2000	20.4	20.0	1.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 480-117063-1

SDG No.: _____

Lab Sample ID: ICV 490-415044/17 Calibration Date: 03/16/2017 23:01

Instrument ID: HP39 Calib Start Date: 03/16/2017 17:49

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/16/2017 21:43

Lab File ID: 03161717.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	0.4019	0.4106	0.1000	20.4	20.0	2.2	30.0
Cyclohexane	Ave	0.4582	0.4409	0.1000	19.2	20.0	-3.8	30.0
1,1-Dichloropropene	Ave	0.3800	0.3722	0.1000	19.6	20.0	-2.1	30.0
Carbon tetrachloride	Ave	0.3621	0.3586	0.1000	19.8	20.0	-1.0	30.0
Isobutyl alcohol	Ave	0.0106	0.0103	0.0010	487	500	-2.5	30.0
t-Amyl alcohol	Lin2		0.0110	0.0010	201	200	0.5	40.0
Benzene	Ave	1.182	1.157	0.5000	19.6	20.0	-2.1	30.0
Tert-amyl methyl ether	Ave	0.7102	0.7106	0.1000	20.0	20.0	0.0	30.0
1,2-Dichloroethane	Ave	0.2782	0.2721	0.1000	19.6	20.0	-2.2	30.0
n-Heptane	Ave	0.3037	0.3049	0.1000	20.1	20.0	0.4	30.0
n-Butanol	Ave	0.0035	0.0033	0.0010	483	500	-3.3	30.0
Trichloroethene	Ave	0.3411	0.3486	0.2000	20.4	20.0	2.2	30.0
Ethyl acrylate	Ave	0.2019	0.2016	0.1000	20.0	20.0	-0.1	
Methylcyclohexane	Ave	0.4961	0.4741	0.1000	19.1	20.0	-4.4	30.0
1,2-Dichloropropane	Ave	0.2801	0.2959	0.1000	21.1	20.0	5.6	30.0
Methyl methacrylate	Ave	0.1506	0.1541	0.1000	40.9	40.0	2.3	30.0
1,4-Dioxane	Ave	0.0014	0.0014	0.0010	379	400	-5.3	30.0
Dibromomethane	Lin2		0.1333	0.0500	20.6	20.0	2.8	30.0
Bromodichloromethane	Ave	0.3426	0.3527	0.2000	20.6	20.0	2.9	30.0
2-Chloroethyl vinyl ether	Ave	0.1310	0.1287	0.1000	19.6	20.0	-1.8	30.0
2-Nitropropane	Ave	0.0590	0.0588	0.0100	39.9	40.0	-0.3	30.0
cis-1,3-Dichloropropene	Ave	0.4950	0.5608	0.2000	22.7	20.0	13.3	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0713	0.0728	0.0500	102	100	2.2	30.0
Toluene	Ave	1.643	1.669	0.4000	20.3	20.0	1.5	30.0
Ethyl methacrylate	Ave	0.3177	0.3208	0.1000	20.2	20.0	1.0	30.0
trans-1,3-Dichloropropene	Ave	0.4170	0.4326	0.0100	20.7	20.0	3.7	30.0
1,1,2-Trichloroethane	Ave	0.2477	0.2579	0.1000	20.8	20.0	4.1	30.0
Tetrachloroethene	Ave	0.4656	0.4742	0.2000	20.4	20.0	1.8	30.0
1,3-Dichloropropane	Ave	0.4305	0.4483	0.1000	20.8	20.0	4.1	30.0
2-Hexanone	Ave	0.0667	0.0669	0.0500	100	100	0.3	30.0
n-Butyl acetate	Ave	0.2552	0.2547	0.1000	20.0	20.0	-0.2	30.0
Dibromochloromethane	Lin1		0.2502	0.1000	21.8	20.0	8.8	30.0
1,2-Dibromoethane	Ave	0.2362	0.2424	0.1000	20.5	20.0	2.6	30.0
1-Chlorohexane	Ave	0.4280	0.4466	0.1000	20.9	20.0	4.3	30.0
Chlorobenzene	Ave	1.084	1.147	0.5000	21.2	20.0	5.8	30.0
Ethylbenzene	Ave	1.795	1.850	0.1000	20.6	20.0	3.0	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3754	0.4041	0.1000	21.5	20.0	7.6	30.0
m-Xylene & p-Xylene	Ave	1.380	1.436	0.1000	20.8	20.0	4.0	30.0
o-Xylene	Ave	1.408	1.461	0.3000	20.8	20.0	3.8	30.0
Styrene	Ave	1.161	1.230	0.3000	21.2	20.0	6.0	30.0
Bromoform	Ave	0.1846	0.1926	0.0100	20.9	20.0	4.3	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 480-117063-1

SDG No.: _____

Lab Sample ID: ICV 490-415044/17 Calibration Date: 03/16/2017 23:01

Instrument ID: HP39 Calib Start Date: 03/16/2017 17:49

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/16/2017 21:43

Lab File ID: 03161717.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
Isopropylbenzene	Ave	1.744	1.886	0.1000	21.6	20.0	8.1	30.0
Cyclohexanone	Ave	0.0046	0.0041	0.0010	175	200	-12.3	30.0
Bromobenzene	Ave	0.8050	0.8666	0.1000	21.5	20.0	7.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.4362	0.4512	0.3000	20.7	20.0	3.4	30.0
N-Propylbenzene	Ave	3.534	3.812	0.1000	21.6	20.0	7.9	30.0
trans-1,4-Dichloro-2-butene	Ave	0.1103	0.1159	0.1000	21.0	20.0	5.1	30.0
1,2,3-Trichloropropane	Ave	0.1510	0.1542	0.1000	20.4	20.0	2.1	30.0
2-Chlorotoluene	Ave	2.457	2.628	0.1000	21.4	20.0	7.0	30.0
1,3,5-Trimethylbenzene	Ave	2.559	2.770	0.1000	21.7	20.0	8.3	30.0
4-Chlorotoluene	Ave	2.220	2.335	0.1000	21.0	20.0	5.2	30.0
tert-Butylbenzene	Ave	2.201	2.440	0.1000	22.2	20.0	10.9	30.0
1,2,4-Trimethylbenzene	Ave	2.559	2.732	0.1000	21.4	20.0	6.8	30.0
sec-Butylbenzene	Ave	2.962	3.244	0.1000	21.9	20.0	9.5	30.0
4-Isopropyltoluene	Ave	2.602	2.909	0.1000	22.4	20.0	11.8	30.0
1,3-Dichlorobenzene	Ave	1.508	1.607	0.6000	21.3	20.0	6.6	30.0
1,4-Dichlorobenzene	Ave	1.520	1.640	0.5000	21.6	20.0	7.8	30.0
1,2,3-Trimethylbenzene	Ave	2.494	2.730	0.1000	21.9	20.0	9.4	30.0
Benzyl chloride	Lin2		0.3947	0.0100	20.4	20.0	1.8	30.0
n-Butylbenzene	Ave	1.955	2.294	0.1000	23.5	20.0	17.3	30.0
1,2-Dichlorobenzene	Ave	1.296	1.410	0.4000	21.8	20.0	8.8	30.0
1,2-Dibromo-3-Chloropropane	Lin1		0.0821	0.0100	18.5	20.0	-7.5	30.0
1,3,5-Trichlorobenzene	Ave	0.8571	0.9744	0.1000	22.7	20.0	13.7	30.0
1,2,4-Trichlorobenzene	Ave	0.6844	0.7568	0.2000	22.1	20.0	10.6	30.0
Hexachlorobutadiene	Ave	0.3389	0.3737	0.1000	22.1	20.0	10.3	30.0
Naphthalene	Ave	1.235	1.381	0.0100	22.4	20.0	11.8	30.0
1,2,3-Trichlorobenzene	Ave	0.5806	0.6530	0.1000	22.5	20.0	12.5	30.0
2-Methylnaphthalene	Ave	0.6958	0.7209	0.0100	20.7	20.0	3.6	40.0
1-Methylnaphthalene	Ave	0.5271	0.6143	0.1000	23.3	20.0	16.5	40.0
Dibromofluoromethane (Surr)	Ave	0.2364	0.2328		24.6	25.0	-1.5	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2122	0.2000		23.6	25.0	-5.8	30.0
Toluene-d8 (Surr)	Ave	1.233	1.223		24.8	25.0	-0.8	30.0
4-Bromofluorobenzene (Surr)	Ave	0.7964	0.7808		24.5	25.0	-2.0	30.0

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161717.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 16-Mar-2017 23:01:30 ALS Bottle#: 17 Worklist Smp#: 17
 Purge Vol: 10.000 mL Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: 490-0088178-017
 Operator ID: AQS HP-39 Instrument ID: HP39
 Sublist:
 Method: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\8260HP39.m
 Limit Group: MSV 8260C ICAL
 Method Label: 8260B Volatile Organics 8260/SA/NV05-90
 Last Update: 18-Mar-2017 17:24:07 Calib Date: 16-Mar-2017 21:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161714.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: stvartaka

Date: 17-Mar-2017 10:16:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.396	4.384	0.012	99	1021484	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.817	6.805	0.012	83	810008	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.977	8.971	0.006	95	461180	25.0	25.0	
\$ 4 Dibromofluoromethane (Surr	111	3.952	3.946	0.006	94	237765	25.0	24.6	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.195	4.189	0.006	94	204313	25.0	23.6	
\$ 6 Toluene-d8 (Surr)	98	5.576	5.564	0.012	92	990985	25.0	24.8	
\$ 7 4-Bromofluorobenzene (Surr	95	7.882	7.870	0.012	97	360094	25.0	24.5	
9 Propene	41	1.421	1.415	0.006	99	258928	NC	NC	
10 Dichlorodifluoromethane	85	1.445	1.439	0.006	100	265670	20.0	22.6	
11 Chloromethane	50	1.597	1.591	0.006	100	224713	20.0	19.7	
12 Vinyl chloride	62	1.664	1.658	0.006	98	265992	20.0	20.1	
13 Butadiene	54	1.689	1.683	0.006	97	232582	20.0	18.2	
14 Bromomethane	96	1.908	1.902	0.006	88	130742	20.0	21.2	
15 Chloroethane	64	1.975	1.962	0.012	99	166175	20.0	18.2	
16 Dichlorofluoromethane	67	2.108	2.096	0.012	99	389619	20.0	18.5	
17 Trichlorofluoromethane	101	2.127	2.121	0.006	99	345306	20.0	19.8	
18 Ethanol	46	2.279	2.279	0.000	96	19069	800.0	804.2	
19 Ethyl ether	59	2.303	2.291	0.012	90	135268	20.0	19.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.437	2.425	0.012	90	193923	20.0	18.5	
20 Acrolein	56	2.437	2.431	0.006	96	33328	49.4	50.9	
22 1,1-Dichloroethene	96	2.473	2.467	0.006	96	215222	20.0	19.3	
23 Acetone	58	2.534	2.528	0.006	99	49646	100.0	105.4	
24 Iodomethane	142	2.601	2.589	0.012	96	420924	20.0	25.3	
26 Isopropyl alcohol	45	2.613	2.607	0.006	99	55241	200.0	201.3	
27 Carbon disulfide	76	2.638	2.626	0.012	98	613703	20.0	20.1	
29 3-Chloro-1-propene	76	2.711	2.699	0.013	50	175747	20.0	18.8	
30 Methyl acetate	43	2.717	2.705	0.012	97	191370	40.0	45.0	
28 Acetonitrile	40	2.747	2.741	0.006	94	90145	200.0	169.4	
31 Methylene Chloride	84	2.802	2.796	0.006	90	228692	20.0	19.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 2-Methyl-2-propanol	59	2.863	2.857	0.006	100	87284	200.0	192.6	
35 Methyl tert-butyl ether	73	2.924	2.918	0.006	94	434385	20.0	20.0	
34 trans-1,2-Dichloroethene	61	2.954	2.942	0.012	97	281358	20.0	19.0	
33 Acrylonitrile	53	2.990	2.978	0.012	99	418666	200.0	197.8	
36 Hexane	57	3.063	3.051	0.012	90	293018	20.0	19.9	
39 Isopropyl ether	45	3.203	3.197	0.006	96	689105	20.0	20.8	
37 1,1-Dichloroethane	63	3.240	3.234	0.006	96	406965	20.0	19.9	
38 Vinyl acetate	86	3.240	3.234	0.006	97	49445	40.0	31.5	
40 2-Chloro-1,3-butadiene	53	3.276	3.270	0.006	99	308881	20.0	19.6	
41 Tert-butyl ethyl ether	59	3.441	3.435	0.006	97	575825	20.0	20.2	
43 2,2-Dichloropropane	77	3.605	3.593	0.012	89	328559	20.0	19.4	
42 cis-1,2-Dichloroethene	96	3.623	3.617	0.006	82	268462	20.0	19.7	
45 Ethyl acetate	70	3.635	3.623	0.012	49	29760	40.0	41.4	
44 2-Butanone (MEK)	72	3.635	3.629	0.006	97	68936	100.0	99.1	
46 Propionitrile	54	3.727	3.714	0.013	88	158527	200.0	200.7	
47 Methacrylonitrile	41	3.800	3.787	0.013	98	733626	200.0	196.5	
48 Chlorobromomethane	130	3.800	3.794	0.006	84	139542	20.0	18.9	
49 Tetrahydrofuran	42	3.818	3.806	0.012	85	85630	40.0	39.9	
50 Chloroform	83	3.836	3.824	0.012	94	381314	20.0	20.4	
51 1,1,1-Trichloroethane	97	3.940	3.927	0.013	97	335559	20.0	20.4	
52 Cyclohexane	56	3.946	3.940	0.006	89	360324	20.0	19.2	
54 Carbon tetrachloride	117	4.043	4.031	0.012	98	293035	20.0	19.8	
53 1,1-Dichloropropene	75	4.043	4.037	0.006	97	304187	20.0	19.6	
55 Isobutyl alcohol	43	4.146	4.140	0.006	97	211261	500.0	487.3	
56 t-Amyl alcohol	59	4.201	4.189	0.012	46	89808	200.0	201.0	
57 Benzene	78	4.207	4.195	0.012	97	945667	20.0	19.6	
59 Tert-amyl methyl ether	73	4.225	4.213	0.012	98	580689	20.0	20.0	
58 1,2-Dichloroethane	62	4.250	4.244	0.006	96	222341	20.0	19.6	
60 n-Heptane	43	4.280	4.268	0.012	95	249176	20.0	20.1	
61 n-Butanol	56	4.615	4.609	0.006	85	68189	500.0	483.3	
62 Trichloroethene	130	4.651	4.645	0.006	95	284835	20.0	20.4	
63 Ethyl acrylate	55	4.706	4.694	0.012	100	164741	20.0	20.0	
64 Methylcyclohexane	83	4.749	4.743	0.006	85	387446	20.0	19.1	
65 1,2-Dichloropropane	63	4.852	4.840	0.012	97	241840	20.0	21.1	
66 Methyl methacrylate	41	4.876	4.870	0.006	87	251825	40.0	40.9	
68 1,4-Dioxane	88	4.955	4.949	0.006	33	22305	400.0	378.9	
67 Dibromomethane	93	4.962	4.956	0.006	91	108893	20.0	20.6	
69 Dichlorobromomethane	83	5.059	5.053	0.006	100	288180	20.0	20.6	
70 2-Nitropropane	43	5.254	5.248	0.006	67	96122	40.0	39.9	
71 2-Chloroethyl vinyl ether	63	5.254	5.248	0.006	95	83422	20.0	19.6	
72 cis-1,3-Dichloropropene	75	5.387	5.381	0.006	97	363414	20.0	22.7	
73 4-Methyl-2-pentanone (MIBK)	58	5.497	5.485	0.012	95	235980	100.0	102.2	
74 Toluene	91	5.631	5.619	0.012	99	1081399	20.0	20.3	
75 trans-1,3-Dichloropropene	75	5.844	5.832	0.012	96	280300	20.0	20.7	
76 Ethyl methacrylate	69	5.844	5.838	0.006	85	207892	20.0	20.2	
77 1,1,2-Trichloroethane	97	6.008	6.002	0.006	90	167141	20.0	20.8	
78 Tetrachloroethene	166	6.069	6.057	0.012	97	307254	20.0	20.4	
79 1,3-Dichloropropane	76	6.148	6.142	0.006	86	290489	20.0	20.8	
80 2-Hexanone	58	6.178	6.166	0.012	95	216730	100.0	100.3	
81 n-Butyl acetate	43	6.239	6.233	0.006	94	208106	20.0	20.0	
82 Chlorodibromomethane	127	6.349	6.343	0.006	90	162123	20.0	21.8	
83 Ethylene Dibromide	107	6.458	6.446	0.012	100	157097	20.0	20.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1-Chlorohexane	91	6.762	6.750	0.012	95	364974	20.0	20.9	
85 Chlorobenzene	112	6.841	6.829	0.012	97	743120	20.0	21.2	
87 Ethylbenzene	91	6.896	6.890	0.006	97	1198684	20.0	20.6	
86 1,1,1,2-Tetrachloroethane	131	6.914	6.902	0.012	96	261866	20.0	21.5	
88 m-Xylene & p-Xylene	91	7.000	6.987	0.013	99	930440	20.0	20.8	
89 o-Xylene	91	7.371	7.359	0.012	95	946783	20.0	20.8	
90 Styrene	104	7.395	7.383	0.012	95	797290	20.0	21.2	
91 Bromoform	173	7.626	7.620	0.006	99	124795	20.0	20.9	
92 Isopropylbenzene	105	7.687	7.681	0.006	95	1221920	20.0	21.6	
93 Cyclohexanone	55	7.888	7.876	0.012	41	33214	200.0	175.4	
94 Bromobenzene	156	8.034	8.022	0.012	86	319724	20.0	21.5	
95 1,1,2,2-Tetrachloroethane	83	8.052	8.046	0.006	94	166452	20.0	20.7	
98 N-Propylbenzene	91	8.076	8.064	0.012	99	1406455	20.0	21.6	
96 1,2,3-Trichloropropane	110	8.101	8.089	0.012	83	56898	20.0	20.4	
97 trans-1,4-Dichloro-2-buten	53	8.095	8.089	0.006	70	42771	20.0	21.0	
100 4-Ethyltoluene	105	8.180	8.168	0.012	97	1248832	NC	NC	
99 2-Chlorotoluene	91	8.192	8.180	0.012	98	969619	20.0	21.4	
101 1,3,5-Trimethylbenzene	105	8.235	8.228	0.006	96	1022011	20.0	21.7	
102 4-Chlorotoluene	91	8.295	8.283	0.012	96	861451	20.0	21.0	
103 tert-Butylbenzene	119	8.545	8.539	0.006	91	900364	20.0	22.2	
104 1,2,4-Trimethylbenzene	105	8.600	8.594	0.006	96	1007889	20.0	21.4	
106 sec-Butylbenzene	105	8.752	8.746	0.006	93	1196978	20.0	21.9	
108 4-Isopropyltoluene	119	8.885	8.879	0.006	97	1073096	20.0	22.4	
107 1,3-Dichlorobenzene	146	8.916	8.904	0.012	98	592944	20.0	21.3	
110 Dicyclopentadiene	66	8.977	8.971	0.006	92	1160072	NC	NC	
109 1,4-Dichlorobenzene	146	9.001	8.995	0.006	96	604912	20.0	21.6	
111 1,2,3-Trimethylbenzene	105	9.019	9.013	0.006	99	1007043	20.0	21.9	
112 Benzyl chloride	91	9.153	9.141	0.012	99	255762	20.0	20.4	
114 n-Butylbenzene	91	9.293	9.281	0.012	97	846178	20.0	23.5	
113 1,2-Dichlorobenzene	146	9.378	9.366	0.012	99	520321	20.0	21.8	
115 1,2-Dibromo-3-Chloropropan	157	10.266	10.260	0.006	91	30299	20.0	18.5	
116 1,3,5-Trichlorobenzene	180	10.437	10.431	0.006	97	359499	20.0	22.7	
117 1,2,4-Trichlorobenzene	180	11.167	11.161	0.006	94	279211	20.0	22.1	
118 Hexachlorobutadiene	225	11.295	11.289	0.006	94	137878	20.0	22.1	
119 Naphthalene	128	11.447	11.435	0.012	96	509538	20.0	22.4	
120 1,2,3-Trichlorobenzene	180	11.690	11.678	0.012	95	240933	20.0	22.5	
121 2-Methylnaphthalene	142	12.517	12.505	0.012	92	265971	20.0	20.7	
122 1-Methylnaphthalene	142	12.700	12.688	0.012	92	226651	20.0	23.3	
S 136 1,2-Dichloroethene, Total	1				0		40.0	38.7	
S 135 Xylenes, Total	1				0		40.0	41.6	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

V2_gases_I_00154

Amount Added: 20.00

Units: uL

V2_Mega_I_00073

Amount Added: 20.00

Units: uL

VOA_ISSS_50_W_00035

Amount Added: 5.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP39\\20170316-88178.b\\03161717.D

Injection Date: 16-Mar-2017 23:01:30

Instrument ID: HP39

Operator ID: AQS HP-39

Lims ID: ICV

Worklist Smp#: 17

Client ID:

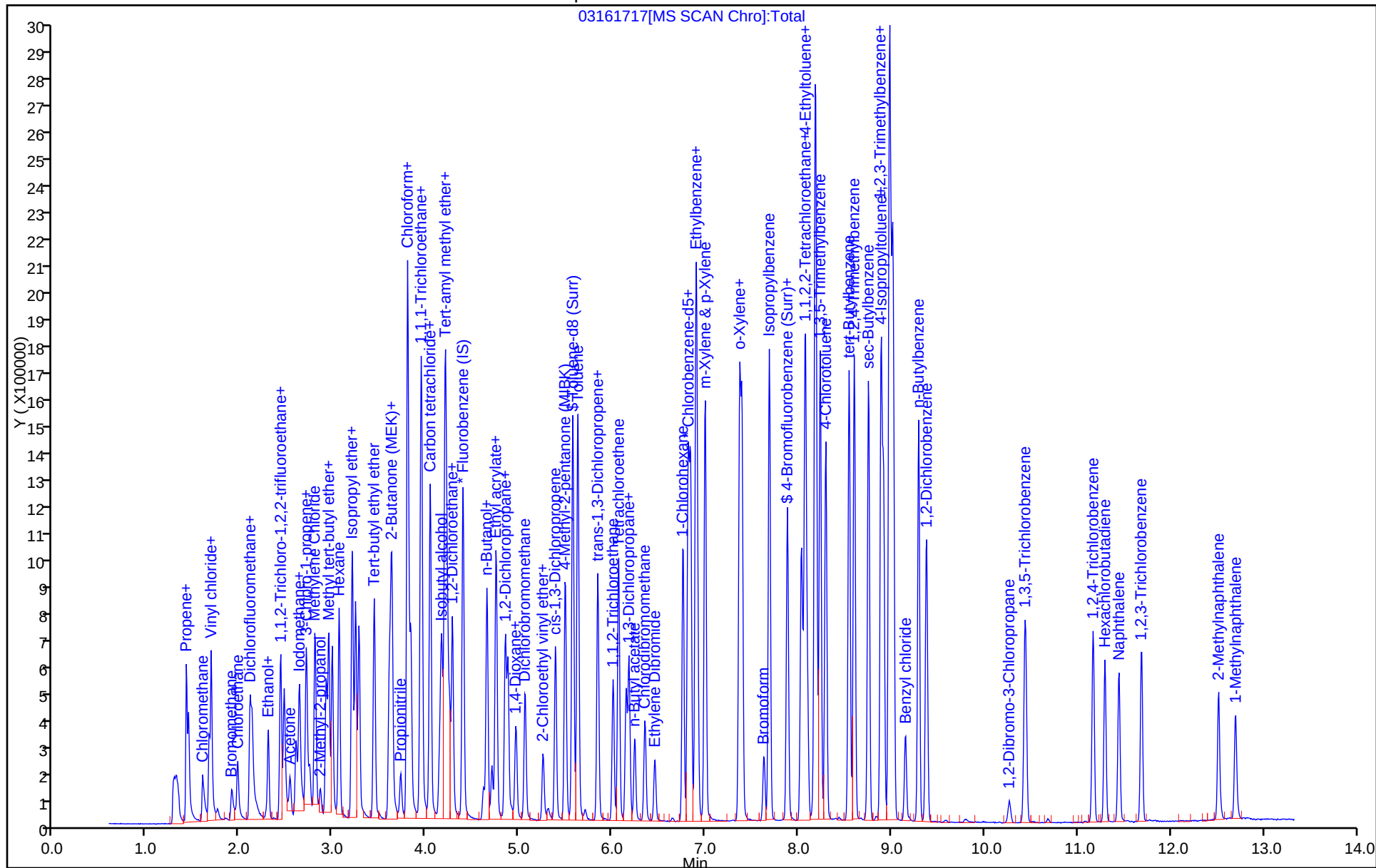
Purge Vol: 10.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 17

Method: 8260HP39

Limit Group: MSV 8260C ICAL



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 480-117063-1

SDG No.: _____

Lab Sample ID: CCVIS 490-428184/2 Calibration Date: 05/08/2017 11:00

Instrument ID: HP39 Calib Start Date: 03/16/2017 17:49

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/16/2017 21:43

Lab File ID: 05081702.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	0.2879	0.3082	0.1000	21.4	20.0	7.0	20.0
Chloromethane	Lin2		0.2801	0.1000	20.1	20.0	0.5	20.0
Vinyl chloride	Ave	0.3240	0.3270	0.1000	20.2	20.0	1.0	20.0
Butadiene	Lin1		0.3044	0.1000	19.5	20.0	-2.5	20.0
Bromomethane	Qual		0.1657	0.1000	21.8	20.0	9.0	20.0
Chloroethane	Ave	0.2233	0.2211	0.1000	19.8	20.0	-1.0	20.0
Dichlorofluoromethane	Ave	0.5153	0.5480	0.1000	21.3	20.0	6.3	20.0
Trichlorofluoromethane	Ave	0.4264	0.5584	0.1000	26.2	20.0	30.9*	20.0
Ethanol	Ave	0.0006	0.0006*	0.0010	851	800	6.3	20.0
Ethyl ether	Ave	0.1669	0.1804	0.1000	21.6	20.0	8.1	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2565	0.3113	0.1000	24.3	20.0	21.3*	20.0
Acrolein	Ave	0.0160	0.0195	0.0100	60.1	49.4	21.6*	20.0
1,1-Dichloroethene	Ave	0.2726	0.2893	0.1000	21.2	20.0	6.2	20.0
Acetone	Lin2		0.0122	0.0100	105	100	5.4	20.0
Iodomethane	Lin1		0.3900	0.1000	19.2	20.0	-4.0	20.0
Isopropyl alcohol	Lin2		0.0061	0.0010	180	200	-9.8	20.0
Carbon disulfide	Lin2		0.8601	0.1000	23.0	20.0	15.1	20.0
3-Chloro-1-propene	Lin2		0.2204	0.1000	19.2	20.0	-3.9	20.0
Methyl acetate	Ave	0.1042	0.0923*	0.1000	35.4	40.0	-11.4	20.0
Acetonitrile	Ave	0.0130	0.0094	0.0010	144	200	-28.1*	20.0
Methylene Chloride	Lin2		0.3246	0.0100	22.9	20.0	14.6	20.0
2-Methyl-2-propanol	Ave	0.0111	0.0106	0.0010	191	200	-4.7	20.0
Methyl tert-butyl ether	Ave	0.5310	0.5595	0.1000	21.1	20.0	5.4	20.0
trans-1,2-Dichloroethene	Ave	0.3632	0.4057	0.1000	22.3	20.0	11.7	20.0
Acrylonitrile	Ave	0.0518	0.0505	0.0100	195	200	-2.5	20.0
n-Hexane	Ave	0.3605	0.4357	0.1000	24.2	20.0	20.9*	20.0
Isopropyl ether	Ave	0.8105	0.7967	0.1000	19.7	20.0	-1.7	20.0
1,1-Dichloroethane	Ave	0.5007	0.5509	0.2000	22.0	20.0	10.0	20.0
Vinyl acetate	Ave	0.0384	0.0468*	0.1000	48.7	40.0	21.7*	20.0
2-Chloro-1,3-butadiene	Ave	0.3863	0.4628	0.1000	24.0	20.0	19.8	20.0
Tert-butyl ethyl ether	Ave	0.6970	0.7194	0.1000	20.6	20.0	3.2	20.0
2,2-Dichloropropane	Ave	0.4149	0.4952	0.1000	23.9	20.0	19.4	20.0
cis-1,2-Dichloroethene	Ave	0.3327	0.3777	0.1000	22.7	20.0	13.5	20.0
Ethyl acetate	Ave	0.0176	0.0176	0.0100	39.9	40.0	-0.2	20.0
2-Butanone (MEK)	Ave	0.0170	0.0161	0.0100	94.8	100	-5.2	20.0
Propionitrile	Ave	0.0193	0.0190	0.0100	196	200	-2.0	20.0
Methacrylonitrile	Ave	0.0914	0.0867*	0.1000	190	200	-5.1	20.0
Chlorobromomethane	Ave	0.1803	0.2044	0.1000	22.7	20.0	13.3	20.0
Tetrahydrofuran	Ave	0.0526	0.0499*	0.0500	38.0	40.0	-5.0	20.0
Chloroform	Ave	0.4580	0.5392	0.2000	23.5	20.0	17.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 480-117063-1

SDG No.: _____

Lab Sample ID: CCVIS 490-428184/2 Calibration Date: 05/08/2017 11:00

Instrument ID: HP39 Calib Start Date: 03/16/2017 17:49

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/16/2017 21:43

Lab File ID: 05081702.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	0.4019	0.5102	0.1000	25.4	20.0	27.0*	20.0
Cyclohexane	Ave	0.4582	0.5123	0.1000	22.4	20.0	11.8	20.0
1,1-Dichloropropene	Ave	0.3800	0.4377	0.1000	23.0	20.0	15.2	20.0
Carbon tetrachloride	Ave	0.3621	0.4645	0.1000	25.7	20.0	28.3*	20.0
Isobutyl alcohol	Ave	0.0106	0.0107	0.0010	505	500	0.9	20.0
t-Amyl alcohol	Lin2		0.0100	0.0010	182	200	-9.2	20.0
Benzene	Ave	1.182	1.326	0.5000	22.4	20.0	12.2	20.0
Tert-amyl methyl ether	Ave	0.7102	0.7192	0.1000	20.3	20.0	1.3	20.0
1,2-Dichloroethane	Ave	0.2782	0.3316	0.1000	23.8	20.0	19.2	20.0
n-Heptane	Ave	0.3037	0.3337	0.1000	22.0	20.0	9.9	20.0
n-Butanol	Ave	0.0035	0.0029	0.0010	413	500	-17.5	20.0
Trichloroethene	Ave	0.3411	0.3942	0.2000	23.1	20.0	15.6	20.0
Ethyl acrylate	Ave	0.2019	0.1862	0.1000	18.4	20.0	-7.8	20.0
Methylcyclohexane	Ave	0.4961	0.5833	0.1000	23.5	20.0	17.6	20.0
1,2-Dichloropropane	Ave	0.2801	0.2997	0.1000	21.4	20.0	7.0	20.0
Methyl methacrylate	Ave	0.1506	0.1482	0.1000	39.4	40.0	-1.6	20.0
1,4-Dioxane	Ave	0.0014	0.0015	0.0010	413	400	3.3	20.0
Dibromomethane	Lin2		0.1446	0.0500	22.3	20.0	11.7	20.0
Bromodichloromethane	Ave	0.3426	0.3985	0.2000	23.3	20.0	16.3	20.0
2-Chloroethyl vinyl ether	Ave	0.1310	0.1217	0.1000	18.6	20.0	-7.1	20.0
2-Nitropropane	Ave	0.0590	0.0700	0.0100	47.5	40.0	18.7	20.0
cis-1,3-Dichloropropene	Ave	0.4950	0.5595	0.2000	22.6	20.0	13.0	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0713	0.0661	0.0500	92.7	100	-7.3	20.0
Toluene	Ave	1.643	1.821	0.4000	22.2	20.0	10.8	20.0
trans-1,3-Dichloropropene	Ave	0.4170	0.4595	0.0100	22.0	20.0	10.2	20.0
Ethyl methacrylate	Ave	0.3177	0.3107	0.1000	19.6	20.0	-2.2	20.0
1,1,2-Trichloroethane	Ave	0.2477	0.2725	0.1000	22.0	20.0	10.0	20.0
Tetrachloroethene	Ave	0.4656	0.5522	0.2000	23.7	20.0	18.6	20.0
1,3-Dichloropropane	Ave	0.4305	0.4647	0.1000	21.6	20.0	7.9	20.0
2-Hexanone	Ave	0.0667	0.0616	0.0500	92.4	100	-7.6	20.0
n-Butyl acetate	Ave	0.2552	0.2249	0.1000	17.6	20.0	-11.9	20.0
Dibromochloromethane	Lin1		0.2648	0.1000	23.0	20.0	15.2	20.0
1,2-Dibromoethane	Ave	0.2362	0.2569	0.1000	21.8	20.0	8.8	20.0
1-Chlorohexane	Ave	0.4280	0.4977	0.1000	23.3	20.0	16.3	20.0
Chlorobenzene	Ave	1.084	1.218	0.5000	22.5	20.0	12.4	20.0
Ethylbenzene	Ave	1.795	2.051	0.1000	22.8	20.0	14.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3754	0.4363	0.1000	23.2	20.0	16.2	20.0
m-Xylene & p-Xylene	Ave	1.380	1.580	0.1000	22.9	20.0	14.5	20.0
o-Xylene	Ave	1.408	1.653	0.3000	23.5	20.0	17.4	20.0
Styrene	Ave	1.161	1.405	0.3000	24.2	20.0	21.0*	20.0
Bromoform	Ave	0.1846	0.2048	0.0100	22.2	20.0	10.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Nashville Job No.: 480-117063-1

SDG No.: _____

Lab Sample ID: CCVIS 490-428184/2 Calibration Date: 05/08/2017 11:00

Instrument ID: HP39 Calib Start Date: 03/16/2017 17:49

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/16/2017 21:43

Lab File ID: 05081702.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
Isopropylbenzene	Ave	1.744	2.069	0.1000	23.7	20.0	18.6	20.0
Cyclohexanone	Ave	0.0046	0.0065	0.0010	280	200	40.1*	20.0
Bromobenzene	Ave	0.8050	0.8915	0.1000	22.1	20.0	10.7	20.0
1,1,2,2-Tetrachloroethane	Ave	0.4362	0.4440	0.3000	20.4	20.0	1.8	20.0
N-Propylbenzene	Ave	3.534	3.906	0.1000	22.1	20.0	10.5	20.0
1,2,3-Trichloropropane	Ave	0.1510	0.1513	0.1000	20.0	20.0	0.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1103	0.1309	0.1000	23.7	20.0	18.7	20.0
2-Chlorotoluene	Ave	2.457	2.750	0.1000	22.4	20.0	11.9	20.0
1,3,5-Trimethylbenzene	Ave	2.559	2.937	0.1000	23.0	20.0	14.8	20.0
4-Chlorotoluene	Ave	2.220	2.599	0.1000	23.4	20.0	17.1	20.0
tert-Butylbenzene	Ave	2.201	2.477	0.1000	22.5	20.0	12.6	20.0
1,2,4-Trimethylbenzene	Ave	2.559	3.001	0.1000	23.5	20.0	17.3	20.0
sec-Butylbenzene	Ave	2.962	3.458	0.1000	23.3	20.0	16.7	20.0
4-Isopropyltoluene	Ave	2.602	3.000	0.1000	23.1	20.0	15.3	20.0
1,3-Dichlorobenzene	Ave	1.508	1.811	0.6000	24.0	20.0	20.1*	20.0
1,4-Dichlorobenzene	Ave	1.520	1.797	0.5000	23.6	20.0	18.2	20.0
1,2,3-Trimethylbenzene	Ave	2.494	2.962	0.1000	23.7	20.0	18.7	20.0
Benzyl chloride	Lin2		0.5873	0.0100	28.5	20.0	42.4*	20.0
n-Butylbenzene	Ave	1.955	2.418	0.1000	24.7	20.0	23.7*	20.0
1,2-Dichlorobenzene	Ave	1.296	1.522	0.4000	23.5	20.0	17.4	20.0
1,2-Dibromo-3-Chloropropane	Lin1		0.0851	0.0100	19.1	20.0	-4.3	20.0
1,3,5-Trichlorobenzene	Ave	0.8571	0.8992	0.1000	21.0	20.0	4.9	20.0
1,2,4-Trichlorobenzene	Ave	0.6844	0.6354	0.2000	18.6	20.0	-7.2	20.0
Hexachlorobutadiene	Ave	0.3389	0.3876	0.1000	22.9	20.0	14.4	20.0
Naphthalene	Ave	1.235	1.105	0.0100	17.9	20.0	-10.5	20.0
1,2,3-Trichlorobenzene	Ave	0.5806	0.5170	0.1000	17.8	20.0	-10.9	20.0
2-Methylnaphthalene	Ave	0.6958	0.2930	0.0100	8.42	20.0	-57.9*	20.0
1-Methylnaphthalene	Ave	0.5271	0.2042	0.1000	7.75	20.0	-61.3*	20.0
Dibromofluoromethane (Surr)	Ave	0.2364	0.2338		24.7	25.0	-1.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2122	0.2187		25.8	25.0	3.0	20.0
Toluene-d8 (Surr)	Ave	1.233	1.204		24.4	25.0	-2.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7964	0.7625		23.9	25.0	-4.3	20.0

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP39\20170508-90599.b\05081702.D
 Lims ID: ccvis
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 08-May-2017 11:00:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 10.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 490-0090599-002
 Operator ID: MJH HP-39 Instrument ID: HP39
 Sublist: chrom-8260HP39*sub27
 Method: \\ChromNA\Nashville\ChromData\HP39\20170508-90599.b\8260HP39.m
 Limit Group: MSV 8260C ICAL
 Method Label: 8260B Volatile Organics 8260/SA/NV05-90
 Last Update: 09-May-2017 12:51:58 Calib Date: 16-Mar-2017 21:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161714.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK030

First Level Reviewer: rickettsb

Date: 08-May-2017 12:08:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.353	4.353	0.000	99	1118071	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.768	6.768	0.000	83	910530	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.934	8.934	0.000	77	547334	25.0	25.0	
\$ 4 Dibromofluoromethane (Surr	111	3.909	3.909	0.000	94	261344	25.0	24.7	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.152	4.152	0.000	93	244518	25.0	25.8	
\$ 6 Toluene-d8 (Surr)	98	5.527	5.527	0.000	92	1095850	25.0	24.4	
\$ 7 4-Bromofluorobenzene (Surr	95	7.833	7.833	0.000	95	417323	25.0	23.9	
9 Propene	41	1.403	1.403	0.000	98	159859	NC	NC	
10 Dichlorodifluoromethane	85	1.427	1.427	0.000	99	275682	20.0	21.4	
11 Chloromethane	50	1.573	1.573	0.000	99	250490	20.0	20.1	
12 Vinyl chloride	62	1.646	1.646	0.000	97	292526	20.0	20.2	
13 Butadiene	54	1.664	1.664	0.000	97	272245	20.0	19.5	
14 Bromomethane	96	1.883	1.883	0.000	91	148166	20.0	21.8	
15 Chloroethane	64	1.944	1.944	0.000	99	197735	20.0	19.8	
16 Dichlorofluoromethane	67	2.078	2.078	0.000	97	490114	20.0	21.3	
17 Trichlorofluoromethane	101	2.096	2.096	0.000	99	499457	20.0	26.2	
18 Ethanol	46	2.254	2.254	0.000	98	22081	800.0	850.8	
19 Ethyl ether	59	2.272	2.272	0.000	88	161335	20.0	21.6	
21 1,1,2-Trichloro-1,2,2-trif	101	2.406	2.406	0.000	89	278398	20.0	24.3	
20 Acrolein	56	2.406	2.406	0.000	35	43002	49.4	60.1	
22 1,1-Dichloroethene	96	2.443	2.443	0.000	95	258803	20.0	21.2	
23 Acetone	58	2.504	2.504	0.000	100	54381	100.0	105.4	
24 Iodomethane	142	2.564	2.564	0.000	97	348832	20.0	19.2	
26 Isopropyl alcohol	45	2.577	2.577	0.000	97	54300	200.0	180.4	
27 Carbon disulfide	76	2.601	2.601	0.000	98	769336	20.0	23.0	
29 3-Chloro-1-propene	76	2.674	2.674	0.000	58	197131	20.0	19.2	
30 Methyl acetate	43	2.680	2.680	0.000	97	165122	40.0	35.4	
28 Acetonitrile	40	2.710	2.710	0.000	91	83747	200.0	143.8	
31 Methylene Chloride	84	2.765	2.765	0.000	85	290295	20.0	22.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 2-Methyl-2-propanol	59	2.826	2.826	0.000	89	94555	200.0	190.6	
35 Methyl tert-butyl ether	73	2.887	2.887	0.000	94	500438	20.0	21.1	
34 trans-1,2-Dichloroethene	61	2.917	2.917	0.000	95	362870	20.0	22.3	
33 Acrylonitrile	53	2.954	2.954	0.000	99	451859	200.0	195.1	
36 Hexane	57	3.033	3.033	0.000	89	389755	20.0	24.2	
39 Isopropyl ether	45	3.167	3.167	0.000	94	712634	20.0	19.7	
38 Vinyl acetate	86	3.203	3.203	0.000	96	83657	40.0	48.7	
37 1,1-Dichloroethane	63	3.203	3.203	0.000	78	492742	20.0	22.0	
40 2-Chloro-1,3-butadiene	53	3.240	3.240	0.000	99	413926	20.0	24.0	
41 Tert-butyl ethyl ether	59	3.404	3.404	0.000	96	643433	20.0	20.6	
43 2,2-Dichloropropane	77	3.562	3.562	0.000	89	442930	20.0	23.9	
42 cis-1,2-Dichloroethene	96	3.587	3.587	0.000	81	337838	20.0	22.7	
45 Ethyl acetate	70	3.593	3.593	0.000	49	31419	40.0	39.9	
44 2-Butanone (MEK)	72	3.599	3.599	0.000	97	72171	100.0	94.8	
46 Propionitrile	54	3.684	3.684	0.000	87	169558	200.0	196.1	
47 Methacrylonitrile	41	3.757	3.757	0.000	98	775317	200.0	189.7	
48 Chlorobromomethane	130	3.763	3.763	0.000	83	182780	20.0	22.7	
49 Tetrahydrofuran	42	3.775	3.775	0.000	82	89313	40.0	38.0	
50 Chloroform	83	3.793	3.793	0.000	93	482303	20.0	23.5	
51 1,1,1-Trichloroethane	97	3.897	3.897	0.000	97	456342	20.0	25.4	
52 Cyclohexane	56	3.909	3.909	0.000	88	458214	20.0	22.4	
54 Carbon tetrachloride	117	4.000	4.000	0.000	98	415501	20.0	25.7	
53 1,1-Dichloropropene	75	4.000	4.000	0.000	96	391461	20.0	23.0	
55 Isobutyl alcohol	43	4.104	4.104	0.000	92	239477	500.0	504.6	
56 t-Amyl alcohol	59	4.158	4.158	0.000	46	88957	200.0	181.6	
57 Benzene	78	4.164	4.164	0.000	96	1186042	20.0	22.4	
59 Tert-amyl methyl ether	73	4.183	4.183	0.000	98	643246	20.0	20.3	
58 1,2-Dichloroethane	62	4.207	4.207	0.000	97	296628	20.0	23.8	
60 n-Heptane	43	4.237	4.237	0.000	93	298443	20.0	22.0	
61 n-Butanol	56	4.572	4.572	0.000	85	63702	500.0	412.5	
62 Trichloroethene	130	4.609	4.609	0.000	95	352572	20.0	23.1	
63 Ethyl acrylate	55	4.663	4.663	0.000	100	166546	20.0	18.4	
64 Methylcyclohexane	83	4.706	4.706	0.000	85	521717	20.0	23.5	
65 1,2-Dichloropropane	63	4.803	4.803	0.000	96	268097	20.0	21.4	
66 Methyl methacrylate	41	4.834	4.834	0.000	93	265164	40.0	39.4	
68 1,4-Dioxane	88	4.907	4.907	0.000	32	26628	400.0	413.2	
67 Dibromomethane	93	4.919	4.919	0.000	91	129364	20.0	22.3	
69 Dichlorobromomethane	83	5.016	5.016	0.000	99	356465	20.0	23.3	
71 2-Chloroethyl vinyl ether	63	5.211	5.211	0.000	88	88673	20.0	18.6	
70 2-Nitropropane	43	5.211	5.211	0.000	83	125239	40.0	47.5	
72 cis-1,3-Dichloropropene	75	5.345	5.345	0.000	97	407523	20.0	22.6	
73 4-Methyl-2-pentanone (MIBK)	58	5.448	5.448	0.000	94	240667	100.0	92.7	
74 Toluene	91	5.582	5.582	0.000	99	1326591	20.0	22.2	
75 trans-1,3-Dichloropropene	75	5.795	5.795	0.000	96	334738	20.0	22.0	
76 Ethyl methacrylate	69	5.801	5.801	0.000	86	226292	20.0	19.6	
77 1,1,2-Trichloroethane	97	5.965	5.965	0.000	88	198495	20.0	22.0	
78 Tetrachloroethene	166	6.020	6.020	0.000	97	402217	20.0	23.7	
79 1,3-Dichloropropane	76	6.105	6.105	0.000	88	338465	20.0	21.6	
80 2-Hexanone	58	6.129	6.129	0.000	93	224408	100.0	92.4	
81 n-Butyl acetate	43	6.196	6.196	0.000	97	201174	20.0	17.6	
82 Chlorodibromomethane	127	6.306	6.306	0.000	89	192852	20.0	23.0	
83 Ethylene Dibromide	107	6.409	6.409	0.000	99	187119	20.0	21.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1-Chlorohexane	91	6.713	6.713	0.000	94	445193	20.0	23.3	
85 Chlorobenzene	112	6.793	6.793	0.000	96	887491	20.0	22.5	
87 Ethylbenzene	91	6.853	6.853	0.000	97	1493709	20.0	22.8	
86 1,1,1,2-Tetrachloroethane	131	6.866	6.866	0.000	95	317814	20.0	23.2	
88 m-Xylene & p-Xylene	91	6.951	6.951	0.000	99	1150766	20.0	22.9	
89 o-Xylene	91	7.322	7.322	0.000	95	1203990	20.0	23.5	
90 Styrene	104	7.346	7.346	0.000	94	1023205	20.0	24.2	
91 Bromoform	173	7.583	7.583	0.000	99	149157	20.0	22.2	
92 Isopropylbenzene	105	7.644	7.644	0.000	95	1506855	20.0	23.7	
93 Cyclohexanone	55	7.833	7.833	0.000	43	58076	200.0	280.2	
94 Bromobenzene	156	7.985	7.985	0.000	88	390345	20.0	22.1	
95 1,1,2,2-Tetrachloroethane	83	8.009	8.009	0.000	95	194405	20.0	20.4	
98 N-Propylbenzene	91	8.028	8.028	0.000	98	1710402	20.0	22.1	
97 trans-1,4-Dichloro-2-buten	53	8.052	8.052	0.000	71	57329	20.0	23.7	
96 1,2,3-Trichloropropane	110	8.052	8.052	0.000	82	66265	20.0	20.0	
100 4-Ethyltoluene	105	8.131	8.131	0.000	99	1497094	NC	NC	
99 2-Chlorotoluene	91	8.143	8.143	0.000	96	1204088	20.0	22.4	
101 1,3,5-Trimethylbenzene	105	8.192	8.192	0.000	95	1286141	20.0	23.0	
102 4-Chlorotoluene	91	8.247	8.247	0.000	96	1138013	20.0	23.4	
103 tert-Butylbenzene	119	8.502	8.502	0.000	92	1084727	20.0	22.5	
104 1,2,4-Trimethylbenzene	105	8.557	8.557	0.000	97	1314024	20.0	23.5	
106 sec-Butylbenzene	105	8.709	8.709	0.000	93	1514141	20.0	23.3	
108 4-Isopropyltoluene	119	8.843	8.843	0.000	96	1313586	20.0	23.1	
107 1,3-Dichlorobenzene	146	8.867	8.867	0.000	98	792788	20.0	24.0	
110 Dicyclopentadiene	66	8.934	8.934	0.000	86	1331778	NC	NC	
109 1,4-Dichlorobenzene	146	8.958	8.958	0.000	96	786633	20.0	23.6	
111 1,2,3-Trimethylbenzene	105	8.977	8.977	0.000	100	1296855	20.0	23.7	
112 Benzyl chloride	91	9.104	9.104	0.000	99	427788	20.0	28.5	
114 n-Butylbenzene	91	9.244	9.244	0.000	97	1058605	20.0	24.7	
113 1,2-Dichlorobenzene	146	9.329	9.329	0.000	99	666228	20.0	23.5	
115 1,2-Dibromo-3-Chloropropan	157	10.212	10.212	0.000	90	37248	20.0	19.1	
116 1,3,5-Trichlorobenzene	180	10.382	10.382	0.000	97	393713	20.0	21.0	
117 1,2,4-Trichlorobenzene	180	11.118	11.118	0.000	94	278201	20.0	18.6	
118 Hexachlorobutadiene	225	11.246	11.246	0.000	96	169694	20.0	22.9	
119 Naphthalene	128	11.398	11.398	0.000	96	483709	20.0	17.9	
120 1,2,3-Trichlorobenzene	180	11.641	11.641	0.000	97	226385	20.0	17.8	
121 2-Methylnaphthalene	142	12.469	12.469	0.000	91	128292	20.0	8.42	
122 1-Methylnaphthalene	142	12.651	12.651	0.000	93	89398	20.0	7.75	
S 135 Xylenes, Total	1				0		40.0	46.4	
S 136 1,2-Dichloroethene, Total	1				0		40.0	45.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

V1_gases_I_00210

Amount Added: 100.00

Units: uL

V1_Mega_I_00070

Amount Added: 100.00

Units: uL

VOA_ISSS_50_W_00040

Amount Added: 5.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP39\\20170508-90599.b\\05081702.D

Injection Date: 08-May-2017 11:00:30

Instrument ID: HP39

Operator ID: MJH HP-39

Lims ID: ccvis

Worklist Smp#: 2

Client ID:

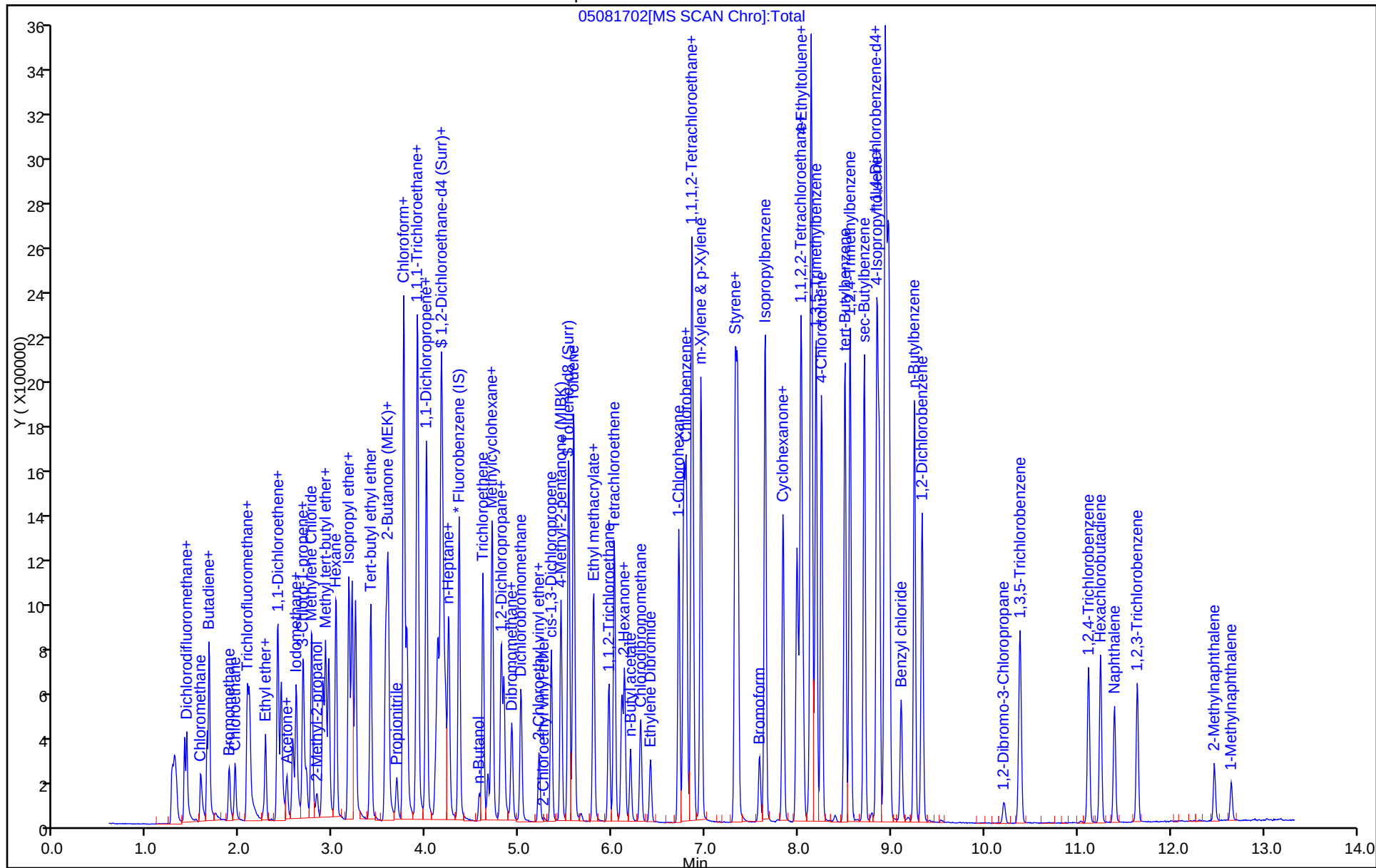
Purge Vol: 10.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 8260HP39

Limit Group: MSV 8260C ICAL



TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081607.D
 Lims ID: bfb
 Client ID:
 Sample Type: BFB
 Inject. Date: 08-Nov-2016 22:54:30 ALS Bottle#: 7 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: rinse
 Operator ID: JJR Instrument ID: HP33
 Method: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 12-Nov-2016 12:38:20 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: redmondj

Date: 09-Nov-2016 11:39:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.617	3.617	0.000	98	778346	30.0	30.0	
* 2 Chlorobenzene-d5	117	5.935	5.935	0.000	87	558027	30.0	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.101	8.101	0.000	95	256220	30.0	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.203	3.203	0.000	98	192634	30.0	29.5	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.435	3.435	0.000	0	210637	30.0	29.1	
\$ 7 Toluene-d8 (Surr)	98	4.724	4.724	0.000	99	745637	30.0	30.2	
\$ 8 4-Bromofluorobenzene (Surr	95	7.006	7.006	0.000	93	246693	30.0	30.7	
\$ 10 BFB	95	7.006	7.006	0.000	0	246693	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

VOA_BFB_150_W_00014

Amount Added: 20.00

Units: uL

VOA_ISSS150_W_00014

Amount Added: 20.00

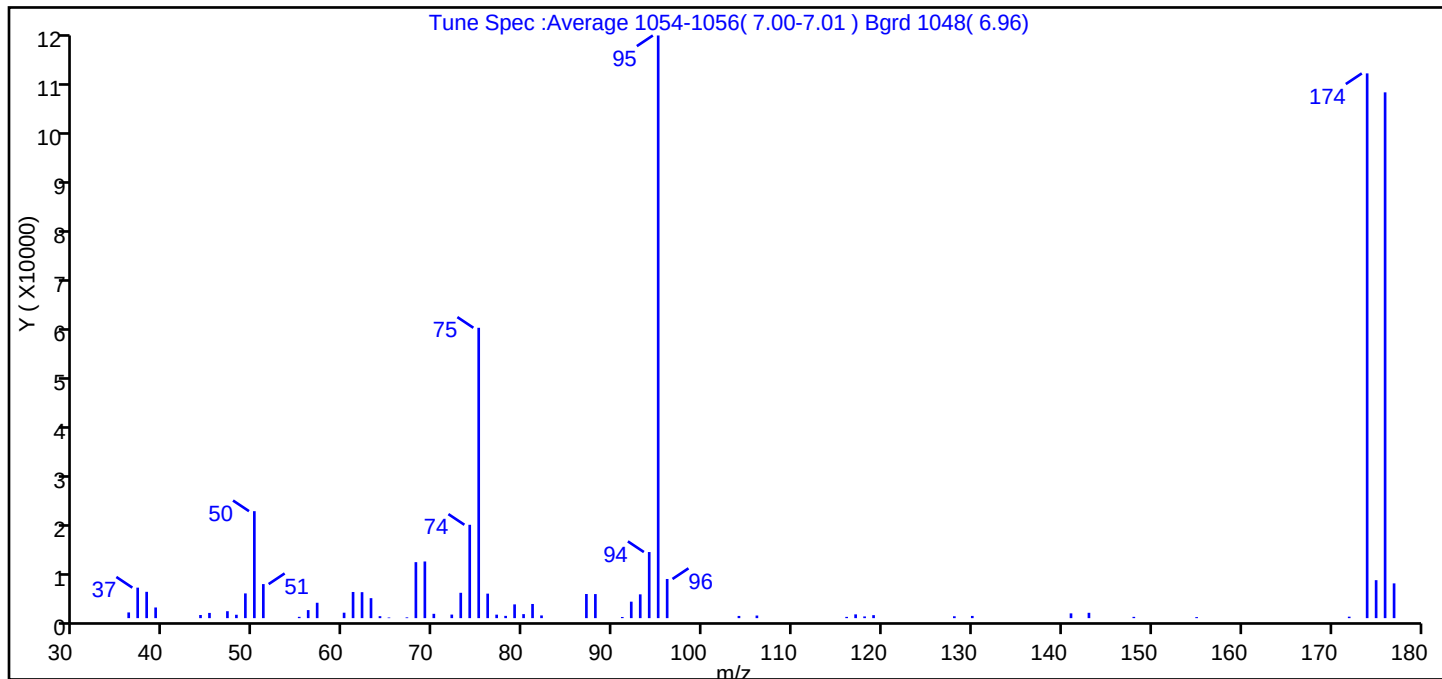
Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081607.D
Injection Date: 08-Nov-2016 22:54:30 Instrument ID: HP33
Lims ID: bfb
Client ID:
Operator ID: JJR ALS Bottle#: 7 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260HP33 Limit Group: MSV 8260C ICAL
Tune Method: BFB Method 8260

\$ 10 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.4
75	30 to 60% of m/z 95	49.8
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	93.5
175	5 to 9% of m/z 174	6.5 (7.0)
176	Greater than 95% but less than 101% of m/z 174	90.2 (96.5)
177	5 to 9% of m/z 176	6.0 (6.6)

Data File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081607.D\8260HP33.rslt\spectra.d
Injection Date: 08-Nov-2016 22:54:30
Spectrum: Tune Spec :Average 1054-1056(7.00-7.01) Bgrd 1048(6.96)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 60

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1130	61.00	5168	78.00	452	116.00	250
37.00	6024	62.00	5131	79.00	2719	117.00	746
38.00	5201	63.00	3948	80.00	793	118.00	336
39.00	2107	64.00	389	81.00	2798	119.00	592
44.00	622	65.00	125	82.00	537	128.00	370
45.00	1032	67.00	153	87.00	4768	130.00	439
47.00	1371	68.00	11060	88.00	4755	141.00	945
48.00	669	69.00	11192	91.00	227	143.00	1056
49.00	4885	70.00	856	92.00	3255	148.00	254
50.00	21128	72.00	704	93.00	4700	155.00	205
51.00	6726	73.00	5007	94.00	13055	172.00	289
55.00	259	74.00	18440	95.00	115088	174.00	107600
56.00	1591	75.00	57352	96.00	7735	175.00	7500
57.00	3039	76.00	4842	104.00	437	176.00	103856
60.00	1077	77.00	690	106.00	515	177.00	6866

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\05061732.D
 Lims ID: bfb
 Client ID:
 Sample Type: BFB
 Inject. Date: 07-May-2017 02:08:30 ALS Bottle#: 42 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 490-0090567-001
 Operator ID: JJR Instrument ID: HP33
 Method: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 08-May-2017 09:43:43 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: redmondj

Date: 07-May-2017 12:56:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.638	3.638	0.000	99	658021	30.0	30.0	
* 2 Chlorobenzene-d5	117	5.944	5.944	0.000	86	521713	30.0	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.103	8.103	0.000	95	223778	30.0	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.206	3.206	0.000	97	163020	30.0	29.6	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.437	3.437	0.000	0	185386	30.0	30.3	
\$ 7 Toluene-d8 (Surr)	98	4.739	4.739	0.000	99	651626	30.0	28.2	
\$ 8 4-Bromofluorobenzene (Surr	95	7.008	7.008	0.000	94	205856	30.0	29.3	
\$ 10 BFB	95	7.008	7.008	0.000	0	205856	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

VOA_BFB_150_W_00015	Amount Added: 20.00	Units: uL	
VO1_Bromfrm_I_00028	Amount Added: 40.00	Units: uL	
VOA_ISSS150_W_00015	Amount Added: 20.00	Units: uL	Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\05061732.D

Injection Date: 07-May-2017 02:08:30

Instrument ID: HP33

Lims ID: bfb

Client ID:

Operator ID: JJR

ALS Bottle#: 42 Worklist Smp#: 1

Injection Vol: 5.0 mL

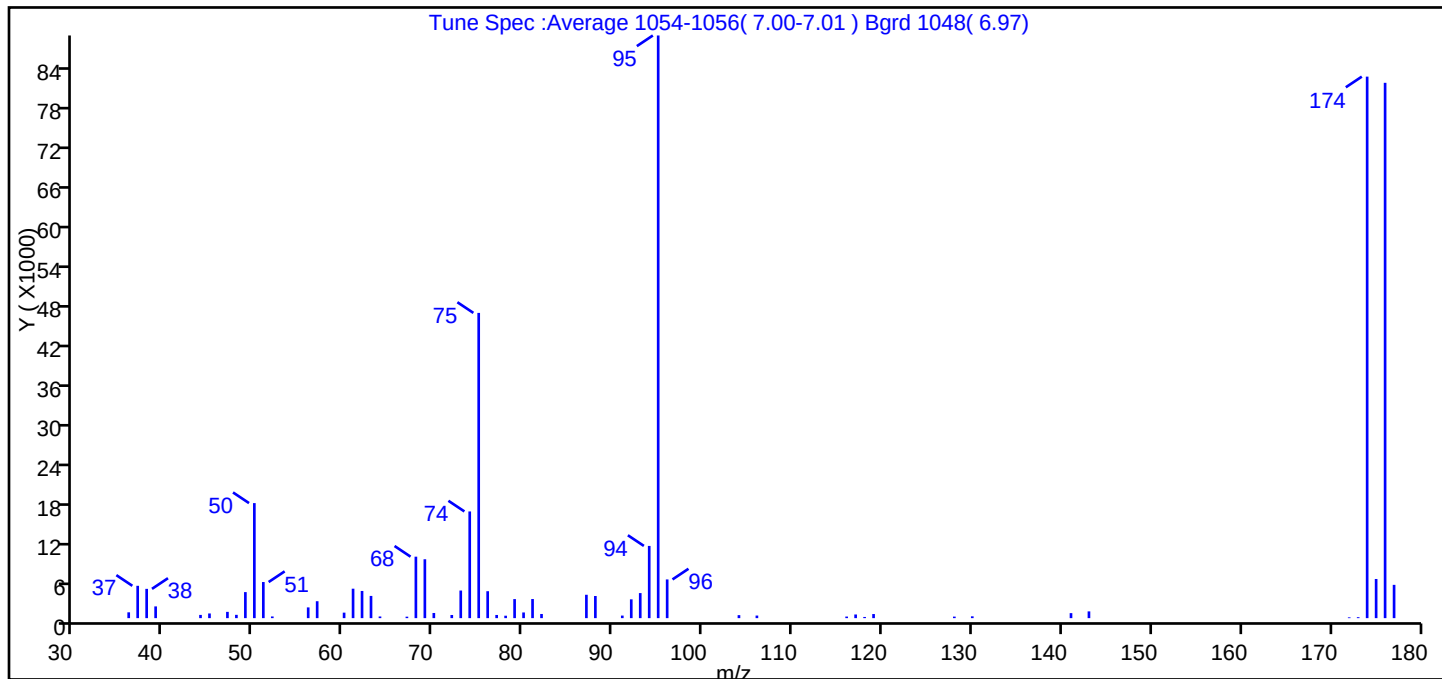
Dil. Factor: 1.0000

Method: 8260HP33

Limit Group: MSV 8260C ICAL

Tune Method: BFB Method 8260

\$ 10 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.7
75	30 to 60% of m/z 95	52.4
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.2 (0.2)
174	50 to 120% of m/z 95	92.9
175	5 to 9% of m/z 174	6.7 (7.2)
176	Greater than 95% but less than 101% of m/z 174	91.9 (98.9)
177	5 to 9% of m/z 176	5.7 (6.2)

Data File: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\05061732.D\8260HP33.rslt\spectra.d
 Injection Date: 07-May-2017 02:08:30
 Spectrum: Tune Spec :Average 1054-1056(7.00-7.01) Bgrd 1048(6.97)
 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	881	61.00	4454	79.00	2881	117.00	554
37.00	4891	62.00	4111	80.00	860	118.00	178
38.00	4429	63.00	3361	81.00	2891	119.00	620
39.00	1776	64.00	252	82.00	629	128.00	232
44.00	489	67.00	222	87.00	3535	130.00	275
45.00	708	68.00	9297	88.00	3348	141.00	758
47.00	950	69.00	8906	91.00	389	143.00	1022
48.00	500	70.00	780	92.00	2844	172.00	117
49.00	3938	72.00	477	93.00	3790	173.00	142
50.00	17400	73.00	4176	94.00	10923	174.00	81904
51.00	5462	74.00	16138	95.00	88128	175.00	5922
52.00	255	75.00	46168	96.00	5855	176.00	80968
56.00	1625	76.00	4074	104.00	453	177.00	5036
57.00	2560	77.00	480	106.00	392		
60.00	833	78.00	369	116.00	240		

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20170509-90669.b\05091701.D
 Lims ID: bfb
 Client ID:
 Sample Type: BFB
 Inject. Date: 09-May-2017 10:04:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 490-0090669-001
 Operator ID: JJR Instrument ID: HP33
 Method: \\ChromNA\Nashville\ChromData\HP33\20170509-90669.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 09-May-2017 12:16:29 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: redmondj

Date: 09-May-2017 12:16:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.618	3.618	0.000	98	885735	30.0	30.0	
* 2 Chlorobenzene-d5	117	5.929	5.929	0.000	85	752837	30.0	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.095	8.095	0.000	96	339551	30.0	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.204	3.204	0.000	97	212700	30.0	28.7	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.435	3.435	0.000	0	244142	30.0	29.6	
\$ 7 Toluene-d8 (Surr)	98	4.725	4.725	0.000	99	874503	30.0	26.2	
\$ 8 4-Bromofluorobenzene (Surr	95	7.000	7.000	0.000	96	309537	30.0	29.1	
\$ 10 BFB	95	7.000	7.000	0.000	0	309537	NR	NR	
95 Bromoform	173	6.702	6.702	0.000	98	87369	20.0	20.2	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

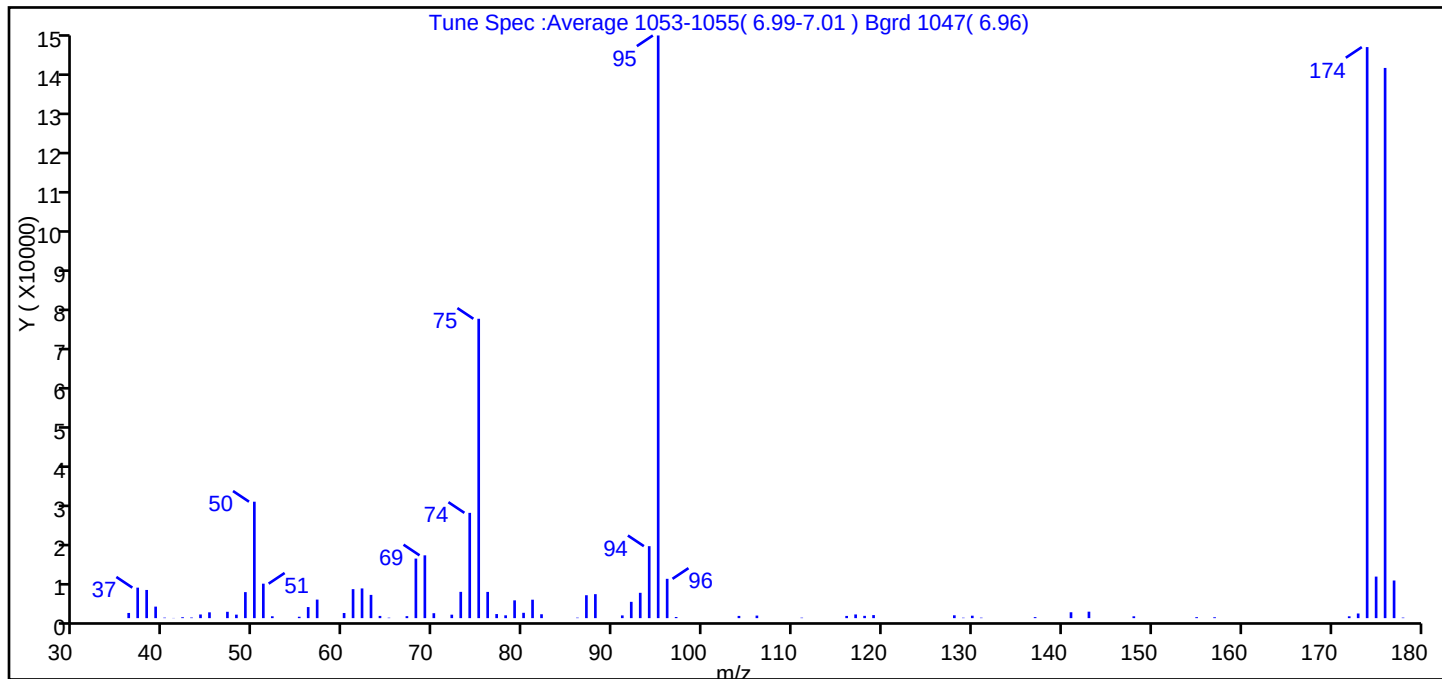
Reagents:

VOA_BFB_150_W_00015	Amount Added: 20.00	Units: uL	
VO1_Bromfrm_I_00028	Amount Added: 40.00	Units: uL	
VOA_ISSS150_W_00015	Amount Added: 20.00	Units: uL	Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\Nashville\ChromData\HP33\20170509-90669.b\05091701.D
Injection Date: 09-May-2017 10:04:30 Instrument ID: HP33
Lims ID: bfb
Client ID:
Operator ID: JJR ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260HP33 Limit Group: MSV 8260C ICAL
Tune Method: BFB Method 8260

\$ 10 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.0
75	30 to 60% of m/z 95	51.4
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.8 (0.8)
174	50 to 120% of m/z 95	98.0
175	5 to 9% of m/z 174	7.1 (7.3)
176	Greater than 95% but less than 101% of m/z 174	94.4 (96.3)
177	5 to 9% of m/z 176	6.5 (6.8)

Data File: \\ChromNA\Nashville\ChromData\HP33\20170509-90669.b\05091701.D\8260HP33.rslt\spectra.d
Injection Date: 09-May-2017 10:04:30
Spectrum: Tune Spec :Average 1053-1055(6.99-7.01) Bgrd 1047(6.96)
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	1258	60.00	1243	81.00	4474	128.00	692
37.00	7396	61.00	7033	82.00	946	129.00	103
38.00	6837	62.00	7206	86.00	117	130.00	595
39.00	2795	63.00	5638	87.00	5559	131.00	113
40.00	121	64.00	540	88.00	5818	137.00	248
41.00	45	65.00	108	91.00	662	141.00	1430
42.00	223	67.00	483	92.00	3956	143.00	1569
43.00	147	68.00	14446	93.00	6144	148.00	446
44.00	889	69.00	15233	94.00	17456	155.00	236
45.00	1413	70.00	1197	95.00	141312	157.00	213
47.00	1540	72.00	841	96.00	9537	172.00	446
48.00	848	73.00	6375	97.00	271	173.00	1129
49.00	6312	74.00	25536	104.00	543	174.00	138496
50.00	28240	75.00	72608	106.00	622	175.00	10076
51.00	8363	76.00	6363	111.00	112	176.00	133440
52.00	452	77.00	991	116.00	536	177.00	9130
55.00	339	78.00	686	117.00	897	178.00	128
56.00	2687	79.00	4315	118.00	557		
57.00	4500	80.00	1297	119.00	740		

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161704.D
 Lims ID: bfb
 Client ID:
 Sample Type: BFB
 Inject. Date: 16-Mar-2017 17:11:30 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 10.0 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 490-0088178-004
 Operator ID: AQS HP-39 Instrument ID: HP39
 Method: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\8260HP39.m
 Limit Group: MSV 8260C ICAL
 Method Label: 8260B Volatile Organics 8260/SA/NV05-90
 Last Update: 21-Mar-2017 13:38:03 Calib Date: 16-Mar-2017 21:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161714.D

Column 1 : Det: MS SCAN

Process Host: XAWRK017

First Level Reviewer: stvartaka

Date: 16-Mar-2017 19:36:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.365	4.365	0.000	99	1114791	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.787	6.787	0.000	84	866824	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.946	8.946	0.000	94	460965	25.0	25.0	
\$ 4 Dibromofluoromethane (Surr	111	3.921	3.921	0.000	95	264451	25.0	25.1	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.165	4.165	0.000	96	234184	25.0	24.7	
\$ 6 Toluene-d8 (Surr)	98	5.546	5.546	0.000	92	1062277	25.0	24.9	
\$ 7 4-Bromofluorobenzene (Surr	95	7.851	7.851	0.000	97	385221	25.0	26.2	
\$ 8 BFB	95	7.851	7.851	0.000	0	385221	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

VOA_BFB_50_W_00034

Amount Added: 40.00

Units: uL

VOA_ISSS_50_W_00035

Amount Added: 5.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161704.D

Injection Date: 16-Mar-2017 17:11:30

Instrument ID: HP39

Lims ID: bfb

Client ID:

Operator ID: AQS HP-39

ALS Bottle#: 4 Worklist Smp#: 4

Injection Vol: 10.0 mL

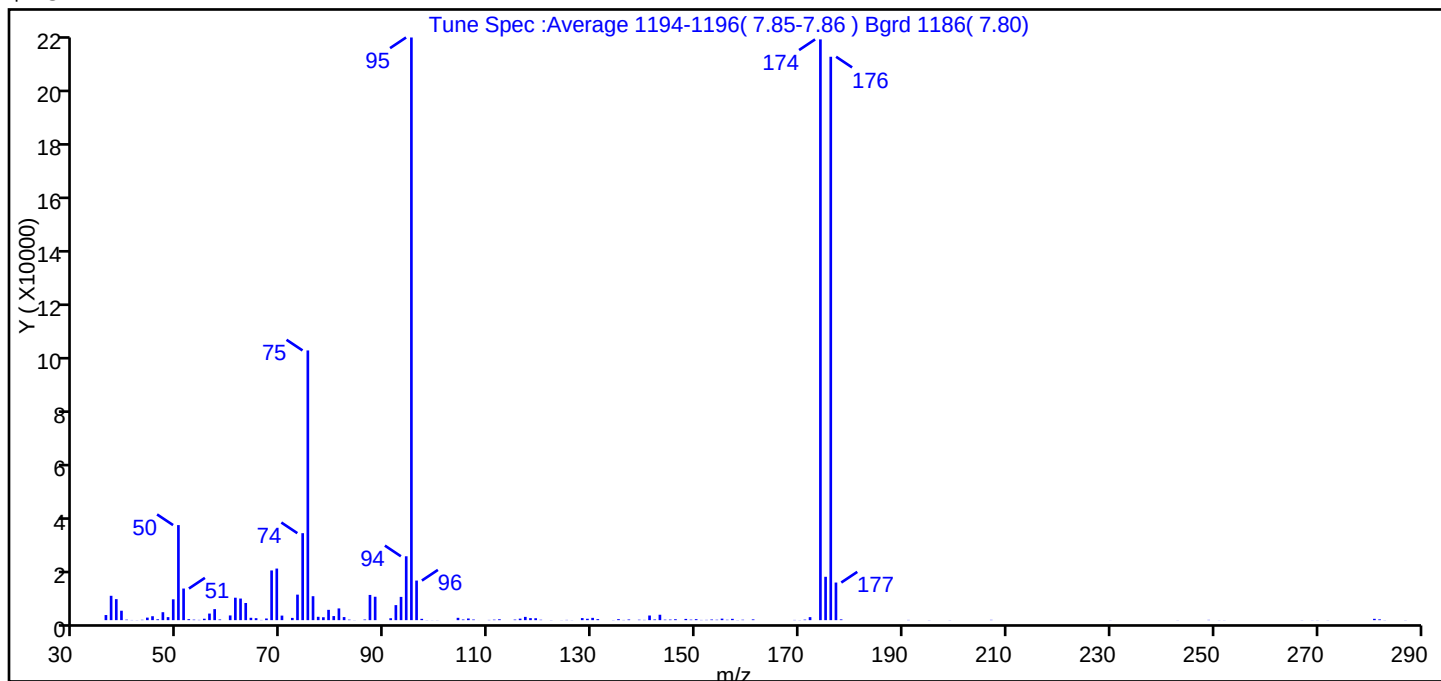
Dil. Factor: 1.0000

Method: 8260HP39

Limit Group: MSV 8260C ICAL

Tune Method: BFB Method 8260

\$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.3
75	30 to 60% of m/z 95	46.3
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	99.7
175	5 to 9% of m/z 174	7.4 (7.5)
176	Greater than 95% but less than 101% of m/z 174	96.7 (97.0)
177	5 to 9% of m/z 176	6.5 (6.7)

Data File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161704.D\8260HP39.rslt\spectra.d
Injection Date: 16-Mar-2017 17:11:30
Spectrum: Tune Spec :Average 1194-1196(7.85-7.86) Bgrd 1186(7.80)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 134

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1859	72.00	819	112.00	321	155.00	551
37.00	8890	73.00	9316	115.00	206	156.00	138
38.00	7670	74.00	31752	116.00	549	157.00	477
39.00	3442	75.00	98472	117.00	1192	158.00	48
40.00	183	76.00	8742	118.00	732	159.00	154
41.00	63	77.00	1221	119.00	697	161.00	273
42.00	47	78.00	1060	120.00	143	169.00	79
43.00	132	79.00	3761	122.00	50	170.00	41
44.00	925	80.00	1486	124.00	34	171.00	190
45.00	1429	81.00	4281	125.00	89	172.00	1097
46.00	312	82.00	1121	126.00	38	174.00	212032
47.00	2901	83.00	179	128.00	746	175.00	15829
48.00	1099	84.00	41	129.00	508	176.00	205696
49.00	7608	86.00	220	130.00	834	177.00	13728
50.00	34704	87.00	9205	131.00	371	178.00	273
51.00	11539	88.00	8545	134.00	55	191.00	82
52.00	365	91.00	695	135.00	361	195.00	48
53.00	184	92.00	5484	136.00	72	199.00	44
54.00	95	93.00	8486	137.00	245	207.00	109
55.00	519	94.00	23320	139.00	157	230.00	34
56.00	2399	95.00	212736	140.00	100	243.00	36
57.00	4026	96.00	14452	141.00	1689	249.00	101
58.00	250	97.00	478	142.00	250	251.00	38
60.00	1713	98.00	48	143.00	1970	252.00	33
61.00	8190	99.00	34	144.00	180	267.00	41
62.00	7882	100.00	38	145.00	214	269.00	37
63.00	6264	103.00	4	146.00	331	270.00	41
64.00	863	104.00	851	148.00	451	272.00	38
65.00	718	105.00	230	149.00	185	281.00	481
66.00	75	106.00	601	150.00	361	282.00	284
67.00	601	107.00	221	151.00	77	283.00	45
68.00	18144	108.00	10	152.00	102	287.00	44
69.00	18832	110.00	84	153.00	234		

Report Date: 21-Mar-2017 13:38:05

Chrom Revision: 2.2 13-Mar-2017 15:50:30

Data File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161704.D\8260HP39.rslt\spectra.d

Injection Date: 16-Mar-2017 17:11:30

Spectrum: Tune Spec :Average 1194-1196(7.85-7.86) Bgrd 1186(7.80)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 134

m/z	Y	m/z	Y	m/z	Y	m/z	Y
70.00	1659	111.00	176	154.00	147		

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP39\20170508-90599.b\05081701.D
 Lims ID: bfb
 Client ID:
 Sample Type: BFB
 Inject. Date: 08-May-2017 10:34:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 10.0 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 490-0090599-001
 Operator ID: MJH HP-39 Instrument ID: HP39
 Method: \\ChromNA\Nashville\ChromData\HP39\20170508-90599.b\8260HP39.m
 Limit Group: MSV 8260C ICAL
 Method Label: 8260B Volatile Organics 8260/SA/NV05-90
 Last Update: 09-May-2017 10:44:54 Calib Date: 16-Mar-2017 21:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161714.D

Column 1 : Det: MS SCAN

Process Host: XAWRK030

First Level Reviewer: khanphomeea

Date: 09-May-2017 10:44:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.353	4.353	0.000	99	1152181	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.768	6.768	0.000	84	908864	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.934	8.934	0.000	93	449384	25.0	25.0	
\$ 4 Dibromofluoromethane (Surr	111	3.909	3.909	0.000	95	277926	25.0	25.5	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.152	4.152	0.000	98	249779	25.0	25.5	
\$ 6 Toluene-d8 (Surr)	98	5.527	5.527	0.000	93	1106295	25.0	24.7	
\$ 7 4-Bromofluorobenzene (Surr	95	7.833	7.833	0.000	97	399400	25.0	27.9	
\$ 8 BFB	95	7.833	7.833	0.000	0	399400	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

VOA_BFB_50_W_00034

Amount Added: 40.00

Units: uL

VOA_ISSS_50_W_00040

Amount Added: 5.00

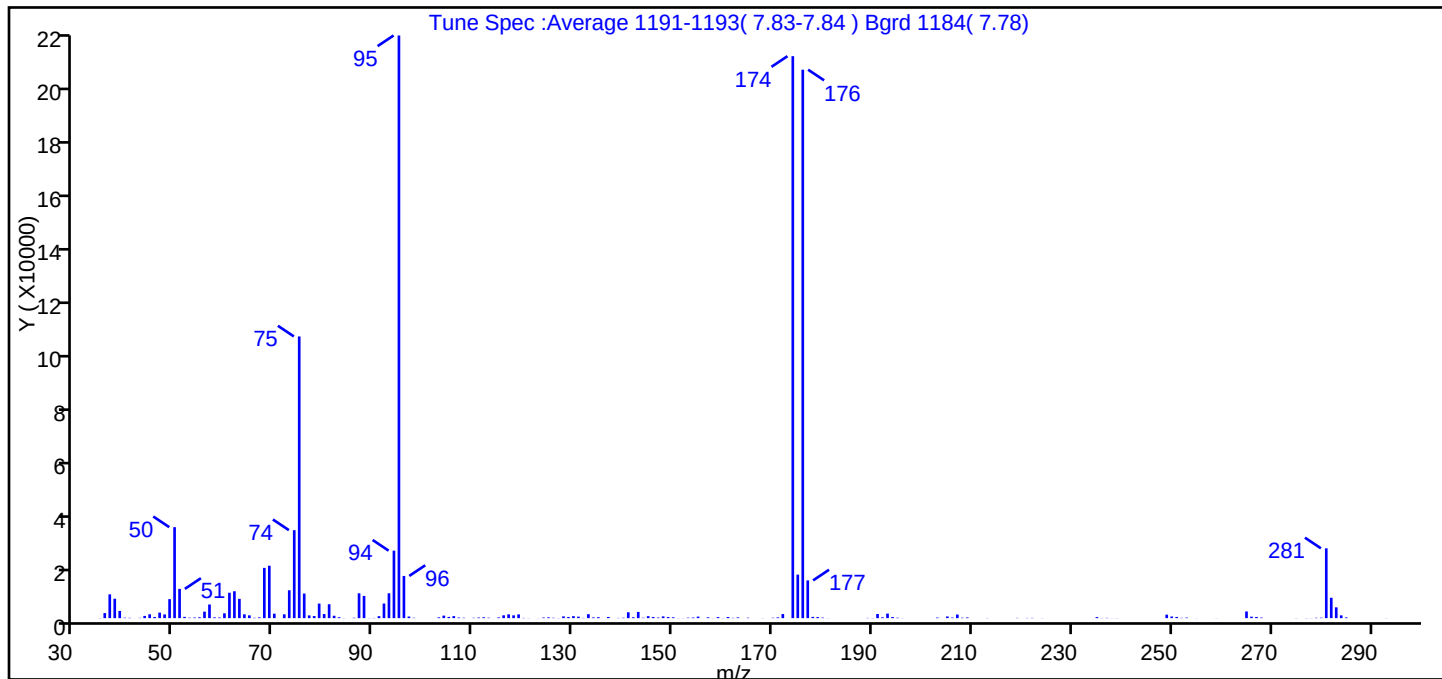
Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\Nashville\ChromData\HP39\20170508-90599.b\05081701.D
Injection Date: 08-May-2017 10:34:30 Instrument ID: HP39
Lims ID: bfb
Client ID:
Operator ID: MJH HP-39 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 10.0 mL Dil. Factor: 1.0000
Method: 8260HP39 Limit Group: MSV 8260C ICAL
Tune Method: BFB Method 8260

\$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.6
75	30 to 60% of m/z 95	48.3
96	5 to 9% of m/z 95	7.2
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	96.4
175	5 to 9% of m/z 174	7.5 (7.7)
176	Greater than 95% but less than 101% of m/z 174	94.1 (97.6)
177	5 to 9% of m/z 176	6.5 (6.9)

Data File: \\ChromNA\Nashville\ChromData\HP39\20170508-90599.b\05081701.D\8260HP39.rslt\spectra.d
Injection Date: 08-May-2017 10:34:30
Spectrum: Tune Spec :Average 1191-1193(7.83-7.84) Bgrd 1184(7.78)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 176

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	51	80.00	1530	132.00	80	191.00	1554
36.00	1896	81.00	5201	133.00	1488	192.00	303
37.00	8904	82.00	900	134.00	266	193.00	1699
38.00	7259	83.00	340	135.00	360	194.00	422
39.00	2698	84.00	52	137.00	443	195.00	163
40.00	177	86.00	153	139.00	89	196.00	39
41.00	132	87.00	9302	140.00	145	203.00	218
42.00	15	88.00	8315	141.00	2195	205.00	624
43.00	100	89.00	52	142.00	329	206.00	218
44.00	833	90.00	73	143.00	2328	207.00	1347
45.00	1445	91.00	742	144.00	138	208.00	158
46.00	443	92.00	5468	145.00	745	209.00	261
47.00	2070	93.00	9308	146.00	422	213.00	59
48.00	1395	94.00	25256	147.00	216	219.00	94
49.00	7110	95.00	218048	148.00	653	221.00	78
50.00	34048	96.00	15793	149.00	411	222.00	100
51.00	10953	97.00	600	150.00	313	224.00	42
52.00	474	98.00	139	151.00	44	235.00	397
53.00	171	103.00	297	152.00	43	236.00	66
54.00	227	104.00	945	153.00	166	237.00	104
55.00	320	105.00	452	154.00	234	238.00	35
56.00	2429	106.00	760	155.00	575	239.00	43
57.00	5114	107.00	226	157.00	304	249.00	1309
58.00	289	108.00	144	158.00	38	250.00	611
59.00	236	110.00	126	159.00	381	251.00	462
60.00	1815	111.00	223	160.00	47	252.00	111
61.00	9509	112.00	318	161.00	418	253.00	204
62.00	10063	113.00	157	162.00	116	255.00	33
63.00	7228	115.00	269	163.00	271	259.00	40
64.00	1426	116.00	1064	165.00	163	265.00	2498
65.00	1057	117.00	1422	168.00	40	266.00	554
66.00	139	118.00	1053	170.00	143	267.00	439
67.00	272	119.00	1405	171.00	287	268.00	208

Report Date: 09-May-2017 10:44:55

Chrom Revision: 2.2 18-Apr-2017 07:43:58

Data File: \\ChromNA\Nashville\ChromData\HP39\20170508-90599.b\05081701.D\8260HP39.rslt\spectra.d

Injection Date: 08-May-2017 10:34:30

Spectrum: Tune Spec :Average 1191-1193(7.83-7.84) Bgrd 1184(7.78)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 176

m/z	Y	m/z	Y	m/z	Y	m/z	Y
68.00	18808	120.00	94	172.00	1542	275.00	49
69.00	19608	121.00	46	174.00	210304	277.00	58
70.00	1668	123.00	33	175.00	16292	278.00	38
72.00	1428	124.00	221	176.00	205248	279.00	141
73.00	10437	125.00	295	177.00	14125	280.00	172
74.00	32928	126.00	140	178.00	467	281.00	26128
75.00	105416	127.00	49	179.00	401	282.00	7626
76.00	9199	128.00	656	180.00	188	283.00	4041
77.00	1022	129.00	427	181.00	36	284.00	1039
78.00	786	130.00	742	189.00	91	285.00	273
79.00	5451	131.00	557	190.00	57	293.00	40

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 490-428030/7

Matrix: Water Lab File ID: 05061738.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 05/07/2017 04:50

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.: 428030 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.19
75-34-3	1,1-Dichloroethane	ND		1.0	0.24
75-35-4	1,1-Dichloroethene	ND		1.0	0.25
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	0.94
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.19
107-06-2	1,2-Dichloroethane	ND		1.0	0.20
78-87-5	1,2-Dichloropropane	ND		1.0	0.25
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.18
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.17
78-93-3	2-Butanone (MEK)	ND		50	2.6
591-78-6	2-Hexanone	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.81
67-64-1	Acetone	ND		25	2.7
71-43-2	Benzene	ND		1.0	0.20
75-25-2	Bromoform	ND		1.0	0.29
74-83-9	Bromomethane	ND		1.0	0.35
75-15-0	Carbon disulfide	ND		1.0	0.22
56-23-5	Carbon tetrachloride	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.25
75-00-3	Chloroethane	ND		1.0	0.36
67-66-3	Chloroform	ND		1.0	0.23
74-87-3	Chloromethane	ND		1.0	0.36
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.21
110-82-7	Cyclohexane	ND		5.0	0.13
75-27-4	Bromodichloromethane	ND		1.0	0.17
75-71-8	Dichlorodifluoromethane	ND		1.0	0.17
100-41-4	Ethylbenzene	ND		1.0	0.19
106-93-4	1,2-Dibromoethane	ND		1.0	0.21
98-82-8	Isopropylbenzene	ND		1.0	0.33
79-20-9	Methyl acetate	ND		10	0.58

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 490-428030/7
 Matrix: Water Lab File ID: 05061738.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 05/07/2017 04:50
 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.: 428030 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.17
108-87-2	Methylcyclohexane	ND		5.0	0.090
75-09-2	Methylene Chloride	ND		5.0	1.0
127-18-4	Tetrachloroethene	ND		1.0	0.14
108-88-3	Toluene	ND		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.17
79-01-6	Trichloroethene	ND		1.0	0.20
75-69-4	Trichlorofluoromethane	ND		1.0	0.21
75-01-4	Vinyl chloride	ND		1.0	0.18
1330-20-7	Xylenes, Total	ND		3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.17
100-42-5	Styrene	ND		1.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
460-00-4	4-Bromofluorobenzene (Surr)	102		70-130
2037-26-5	Toluene-d8 (Surr)	95		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\05061738.D
 Lims ID: mb
 Client ID:
 Sample Type: MB
 Inject. Date: 07-May-2017 04:50:30 ALS Bottle#: 48 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 490-0090567-007
 Operator ID: JJR Instrument ID: HP33
 Method: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 08-May-2017 10:03:27 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: wanguns

Date: 08-May-2017 10:03:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.629	3.635	-0.006	98	663450	30.0	30.0	
* 2 Chlorobenzene-d5	117	5.941	5.941	0.000	86	508709	30.0	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.100	8.100	0.000	95	215658	30.0	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.203	3.203	0.000	97	161743	30.0	29.1	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.434	3.434	0.000	0	182631	30.0	29.6	
\$ 7 Toluene-d8 (Surr)	98	4.736	4.736	0.000	99	641369	30.0	28.5	
\$ 8 4-Bromofluorobenzene (Surr	95	7.005	7.005	0.000	94	206564	30.0	30.5	
33 Methylene Chloride	84	2.224	2.224	0.000	87	1530		0.2419	
125 2-Methylnaphthalene	142	11.720	11.720	0.000	86	17341		9.53	
126 1-Methylnaphthalene	142	11.897	11.896	0.001	90	20449		15.4	

Reagents:

VOA_ISSS150_W_00015

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061738.D

Injection Date: 07-May-2017 04:50:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: mb

Worklist Smp#: 7

Client ID:

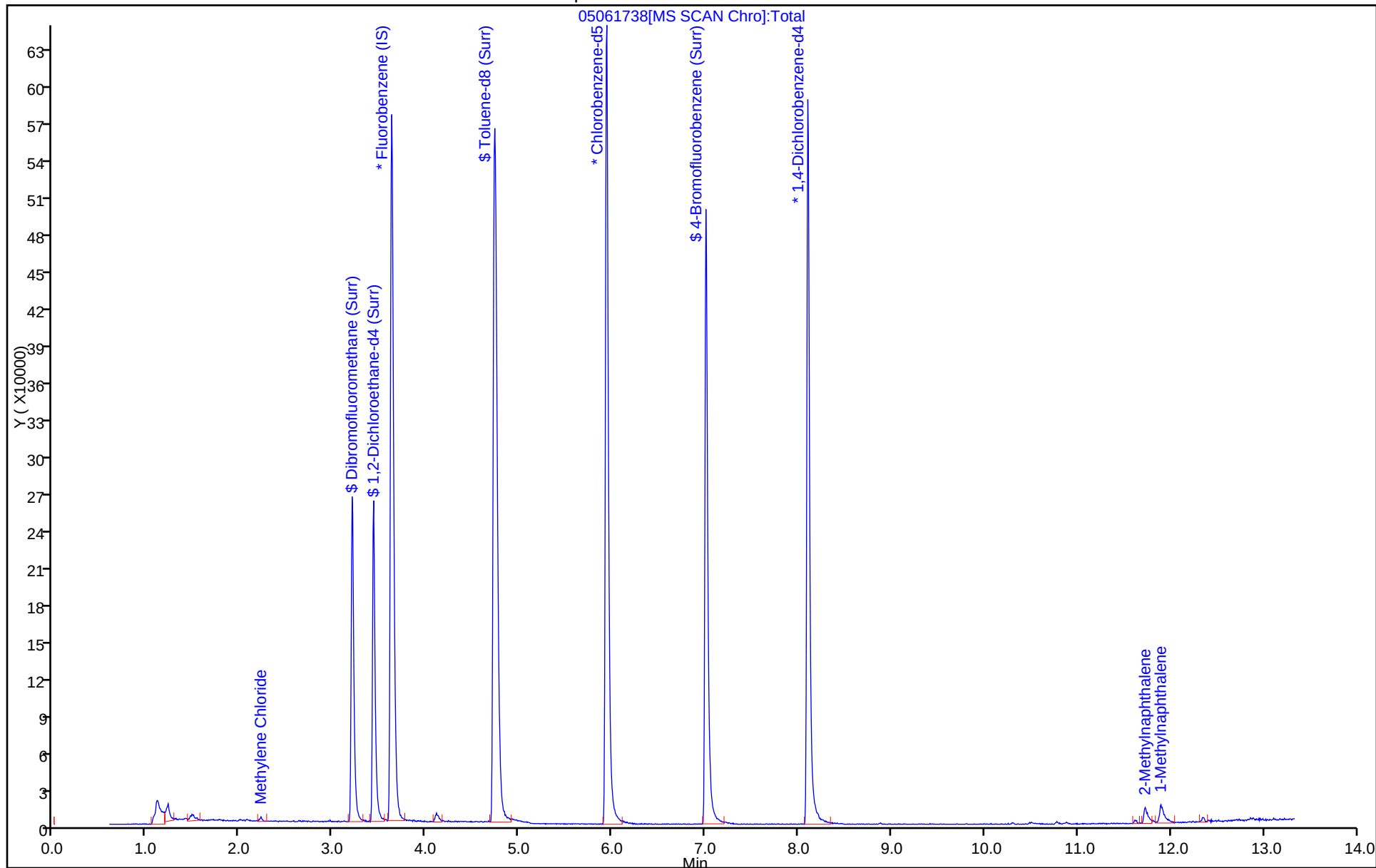
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 48

Method: 8260HP33

Limit Group: MSV 8260C ICAL



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 490-428184/7

Matrix: Water Lab File ID: 05081707.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 10 (mL) Date Analyzed: 05/08/2017 13:10

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.: 428184 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.19
75-34-3	1,1-Dichloroethane	ND		1.0	0.24
75-35-4	1,1-Dichloroethene	ND		1.0	0.25
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	0.94
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.19
107-06-2	1,2-Dichloroethane	ND		1.0	0.20
78-87-5	1,2-Dichloropropane	ND		1.0	0.25
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.18
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.17
78-93-3	2-Butanone (MEK)	ND		50	2.6
591-78-6	2-Hexanone	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.81
67-64-1	Acetone	ND		25	2.7
71-43-2	Benzene	ND		1.0	0.20
75-25-2	Bromoform	ND		1.0	0.29
74-83-9	Bromomethane	ND		1.0	0.35
75-15-0	Carbon disulfide	ND		1.0	0.22
56-23-5	Carbon tetrachloride	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.25
75-00-3	Chloroethane	ND		1.0	0.36
67-66-3	Chloroform	ND		1.0	0.23
74-87-3	Chloromethane	ND		1.0	0.36
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.21
110-82-7	Cyclohexane	ND		5.0	0.13
75-27-4	Bromodichloromethane	ND		1.0	0.17
75-71-8	Dichlorodifluoromethane	ND		1.0	0.17
100-41-4	Ethylbenzene	ND		1.0	0.19
106-93-4	1,2-Dibromoethane	ND		1.0	0.21
98-82-8	Isopropylbenzene	ND		1.0	0.33
79-20-9	Methyl acetate	ND		10	0.58

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 490-428184/7

Matrix: Water Lab File ID: 05081707.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 10 (mL) Date Analyzed: 05/08/2017 13:10

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.: 428184 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.17
108-87-2	Methylcyclohexane	ND		5.0	0.090
75-09-2	Methylene Chloride	ND		5.0	1.0
127-18-4	Tetrachloroethene	ND		1.0	0.14
108-88-3	Toluene	ND		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.17
79-01-6	Trichloroethene	ND		1.0	0.20
75-69-4	Trichlorofluoromethane	ND		1.0	0.21
75-01-4	Vinyl chloride	ND		1.0	0.18
1330-20-7	Xylenes, Total	ND		3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.17
100-42-5	Styrene	ND		1.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-130
460-00-4	4-Bromofluorobenzene (Surr)	115		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130
1868-53-7	Dibromofluoromethane (Surr)	102		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP39\20170508-90599.b\05081707.D
 Lims ID: mb
 Client ID:
 Sample Type: MB
 Inject. Date: 08-May-2017 13:10:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 10.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 490-0090599-007
 Operator ID: MJH HP-39 Instrument ID: HP39
 Method: \\ChromNA\Nashville\ChromData\HP39\20170508-90599.b\8260HP39.m
 Limit Group: MSV 8260C ICAL
 Method Label: 8260B Volatile Organics 8260/SA/NV05-90
 Last Update: 09-May-2017 10:53:13 Calib Date: 16-Mar-2017 21:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161714.D

Column 1 : Det: MS SCAN

Process Host: XAWRK030

First Level Reviewer: khanphomeea

Date: 09-May-2017 10:53:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.365	4.353	0.012	99	1041857	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.781	6.768	0.013	84	836415	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.946	8.934	0.012	93	409065	25.0	25.0	
\$ 4 Dibromofluoromethane (Surr	111	3.921	3.909	0.012	95	251830	25.0	25.6	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.165	4.152	0.013	98	228596	25.0	25.8	
\$ 6 Toluene-d8 (Surr)	98	5.540	5.533	0.007	92	1019390	25.0	24.7	
\$ 7 4-Bromofluorobenzene (Surr	95	7.845	7.833	0.012	95	374589	25.0	28.7	
131 Propene TIC	41	2.005	2.005	0.000	0	122		NR	
126 Dicyclopentadiene TIC	66	7.863	7.863	0.000	0	184		NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

VOA_ISSS_50_W_00040

Amount Added: 5.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP39\\20170508-90599.b\\05081707.D

Injection Date: 08-May-2017 13:10:30

Instrument ID: HP39

Operator ID: MJH HP-39

Lims ID: mb

Worklist Smp#: 7

Client ID:

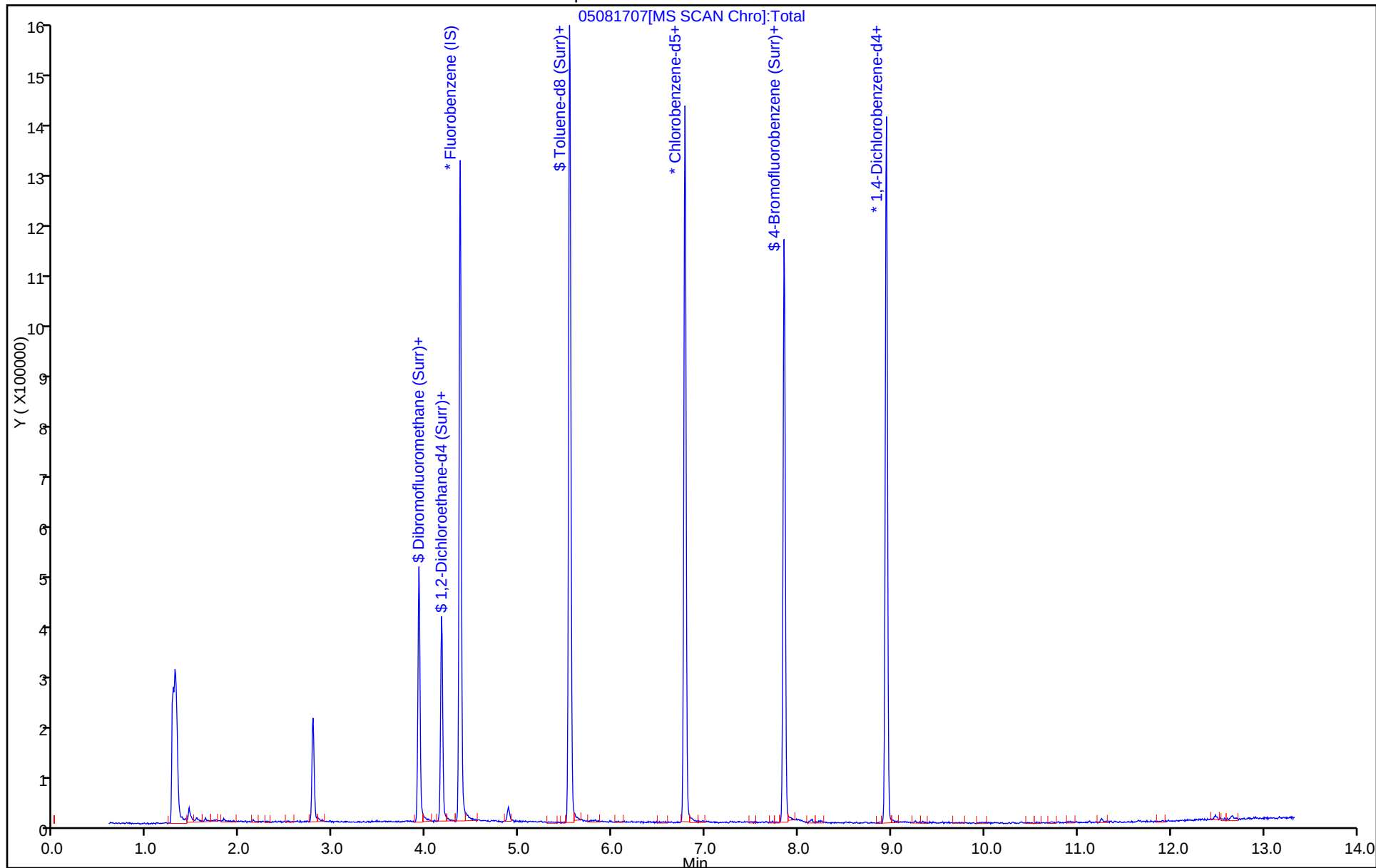
Purge Vol: 10.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 8260HP39

Limit Group: MSV 8260C ICAL



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 490-428592/7

Matrix: Water Lab File ID: 05091707.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 05/09/2017 12:48

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.: 428592 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.19
75-34-3	1,1-Dichloroethane	ND		1.0	0.24
75-35-4	1,1-Dichloroethene	ND		1.0	0.25
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	0.94
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.19
107-06-2	1,2-Dichloroethane	ND		1.0	0.20
78-87-5	1,2-Dichloropropane	ND		1.0	0.25
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.18
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.17
78-93-3	2-Butanone (MEK)	ND		50	2.6
591-78-6	2-Hexanone	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.81
67-64-1	Acetone	ND		25	2.7
71-43-2	Benzene	ND		1.0	0.20
75-25-2	Bromoform	ND		1.0	0.29
74-83-9	Bromomethane	ND		1.0	0.35
75-15-0	Carbon disulfide	ND		1.0	0.22
56-23-5	Carbon tetrachloride	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.25
75-00-3	Chloroethane	ND		1.0	0.36
67-66-3	Chloroform	ND		1.0	0.23
74-87-3	Chloromethane	ND		1.0	0.36
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.21
110-82-7	Cyclohexane	ND		5.0	0.13
75-27-4	Bromodichloromethane	ND		1.0	0.17
75-71-8	Dichlorodifluoromethane	ND		1.0	0.17
100-41-4	Ethylbenzene	ND		1.0	0.19
106-93-4	1,2-Dibromoethane	ND		1.0	0.21
98-82-8	Isopropylbenzene	ND		1.0	0.33
79-20-9	Methyl acetate	ND		10	0.58

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 490-428592/7
 Matrix: Water Lab File ID: 05091707.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 05/09/2017 12:48
 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.: 428592 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.17
108-87-2	Methylcyclohexane	ND		5.0	0.090
75-09-2	Methylene Chloride	ND		5.0	1.0
127-18-4	Tetrachloroethene	ND		1.0	0.14
108-88-3	Toluene	ND		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.17
79-01-6	Trichloroethene	ND		1.0	0.20
75-69-4	Trichlorofluoromethane	ND		1.0	0.21
75-01-4	Vinyl chloride	ND		1.0	0.18
1330-20-7	Xylenes, Total	ND		3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.17
100-42-5	Styrene	ND		1.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	92		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20170509-90669.b\05091707.D
 Lims ID: mb
 Client ID:
 Sample Type: MB
 Inject. Date: 09-May-2017 12:48:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 490-0090669-007
 Operator ID: JJR Instrument ID: HP33
 Method: \\ChromNA\Nashville\ChromData\HP33\20170509-90669.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 10-May-2017 10:29:13 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: chumongkolratn

Date: 10-May-2017 10:29:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.620	3.623	-0.003	99	885048	30.0	30.0	
* 2 Chlorobenzene-d5	117	5.932	5.929	0.004	86	724240	30.0	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.098	8.094	0.004	95	305249	30.0	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.206	3.209	-0.003	97	216475	30.0	29.2	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.438	3.434	0.004	0	249249	30.0	30.3	
\$ 7 Toluene-d8 (Surr)	98	4.721	4.724	-0.003	100	880610	30.0	27.5	
\$ 8 4-Bromofluorobenzene (Surr	95	7.003	6.999	0.003	96	290507	30.0	30.3	
13 Chloromethane	50	1.302	1.311	-0.009	27	1527		0.1929	
33 Methylene Chloride	84	2.221	2.230	-0.009	86	1504		0.1782	
125 2-Methylnaphthalene	142	11.729	11.708	0.021	85	18938		7.36	
126 1-Methylnaphthalene	142	11.894	11.884	0.010	90	20308		10.8	

Reagents:

VOA_ISSS150_W_00015

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170509-90669.b\\05091707.D

Injection Date: 09-May-2017 12:48:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: mb

Worklist Smp#: 7

Client ID:

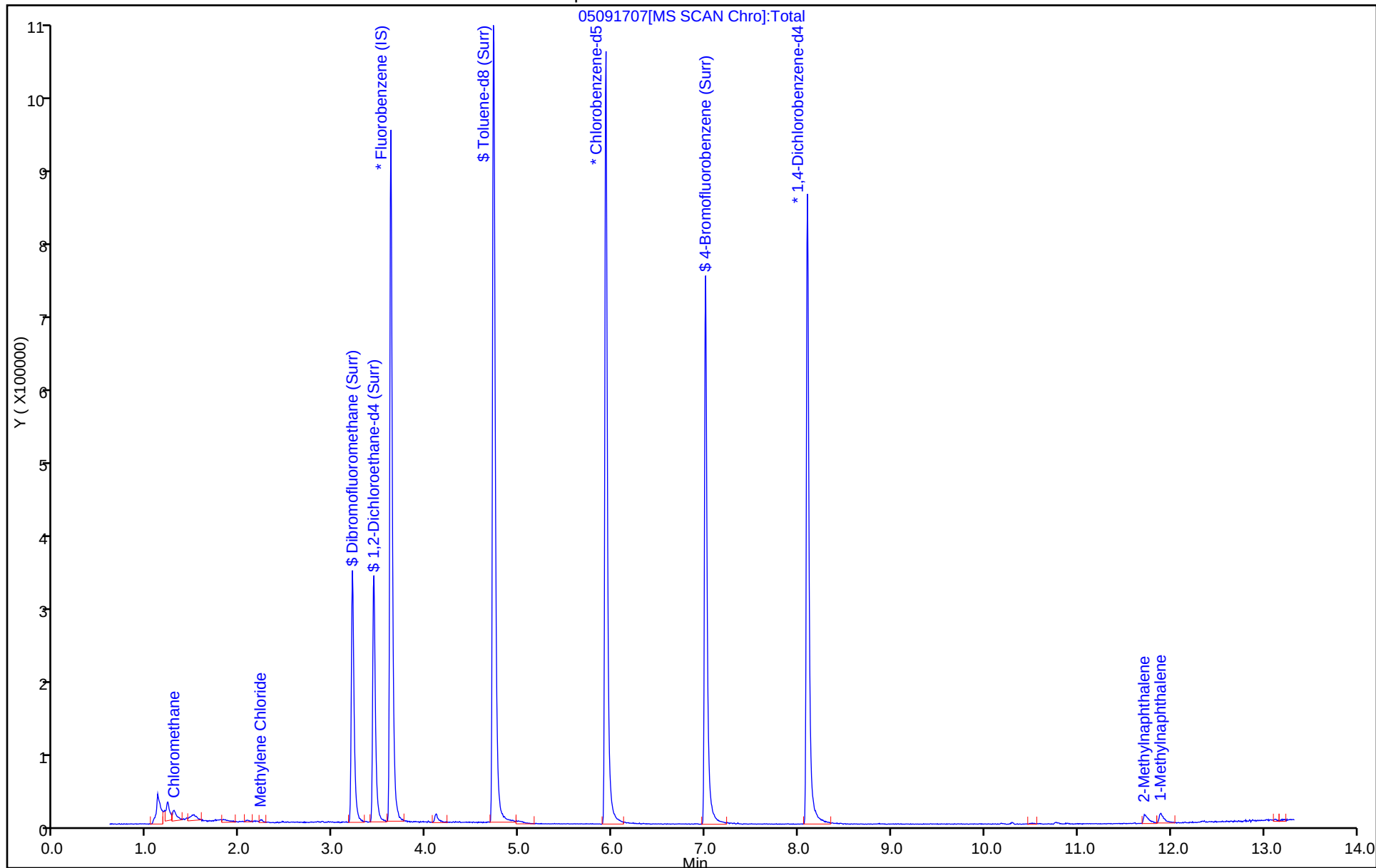
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 8260HP33

Limit Group: MSV 8260C ICAL



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 490-428030/3

Matrix: Water Lab File ID: 05061734.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 05/07/2017 03:02

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.: 428030 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	20.2		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	19.7		1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	19.1		1.0	0.15
79-00-5	1,1,2-Trichloroethane	18.0		1.0	0.19
75-34-3	1,1-Dichloroethane	18.4		1.0	0.24
75-35-4	1,1-Dichloroethene	19.5		1.0	0.25
120-82-1	1,2,4-Trichlorobenzene	19.0		1.0	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	20.0		10	0.94
95-50-1	1,2-Dichlorobenzene	19.6		1.0	0.19
107-06-2	1,2-Dichloroethane	20.4		1.0	0.20
78-87-5	1,2-Dichloropropane	17.7		1.0	0.25
541-73-1	1,3-Dichlorobenzene	19.4		1.0	0.18
106-46-7	1,4-Dichlorobenzene	19.3		1.0	0.17
78-93-3	2-Butanone (MEK)	86.7		50	2.6
591-78-6	2-Hexanone	85.1		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	81.4		10	0.81
67-64-1	Acetone	74.8		25	2.7
71-43-2	Benzene	18.6		1.0	0.20
75-25-2	Bromoform	21.4		1.0	0.29
74-83-9	Bromomethane	25.6		1.0	0.35
75-15-0	Carbon disulfide	18.3		1.0	0.22
56-23-5	Carbon tetrachloride	21.2		1.0	0.18
108-90-7	Chlorobenzene	19.5		1.0	0.18
124-48-1	Dibromochloromethane	21.2		1.0	0.25
75-00-3	Chloroethane	19.0		1.0	0.36
67-66-3	Chloroform	19.5		1.0	0.23
74-87-3	Chloromethane	16.0		1.0	0.36
156-59-2	cis-1,2-Dichloroethene	19.2		1.0	0.21
110-82-7	Cyclohexane	17.5		5.0	0.13
75-27-4	Bromodichloromethane	22.2		1.0	0.17
75-71-8	Dichlorodifluoromethane	16.8		1.0	0.17
100-41-4	Ethylbenzene	19.6		1.0	0.19
106-93-4	1,2-Dibromoethane	19.6		1.0	0.21
98-82-8	Isopropylbenzene	20.6		1.0	0.33
79-20-9	Methyl acetate	32.3		10	0.58

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 490-428030/3
 Matrix: Water Lab File ID: 05061734.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 05/07/2017 03:02
 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.: 428030 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	19.0		1.0	0.17
108-87-2	Methylcyclohexane	18.5		5.0	0.090
75-09-2	Methylene Chloride	17.0		5.0	1.0
127-18-4	Tetrachloroethene	20.0		1.0	0.14
108-88-3	Toluene	18.0		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	18.3		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	17.4		1.0	0.17
79-01-6	Trichloroethene	18.9		1.0	0.20
75-69-4	Trichlorofluoromethane	24.1		1.0	0.21
75-01-4	Vinyl chloride	18.8		1.0	0.18
1330-20-7	Xylenes, Total	39.5		3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	17.3		1.0	0.17
100-42-5	Styrene	19.4		1.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-130
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	93		70-130
1868-53-7	Dibromofluoromethane (Surr)	95		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\05061734.D
 Lims ID: lcs
 Client ID:
 Sample Type: LCS
 Inject. Date: 07-May-2017 03:02:30 ALS Bottle#: 44 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 490-0090567-003
 Operator ID: JJR Instrument ID: HP33
 Method: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 08-May-2017 09:55:02 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: wanguns

Date: 08-May-2017 09:58:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.635	3.635	0.000	99	689873	30.0	30.0	
* 2 Chlorobenzene-d5	117	5.941	5.941	0.000	87	544220	30.0	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.101	8.100	0.001	96	248623	30.0	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.204	3.203	0.001	97	165060	30.0	28.6	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.435	3.434	0.001	0	201919	30.0	31.4	
\$ 7 Toluene-d8 (Surr)	98	4.737	4.736	0.001	99	675055	30.0	28.0	
\$ 8 4-Bromofluorobenzene (Surr	95	7.006	7.005	0.001	94	233938	30.0	30.0	
11 Propene	41	1.184	1.184	0.000	95	35338	NC	NC	
12 Dichlorodifluoromethane	85	1.214	1.214	0.000	98	58598	20.0	16.8	
13 Chloromethane	50	1.306	1.305	0.001	99	98496	20.0	16.0	
14 Vinyl chloride	62	1.348	1.348	0.000	98	128276	20.0	18.8	
15 Butadiene	54	1.366	1.366	0.000	97	132252	20.0	19.1	
16 Bromomethane	96	1.512	1.518	-0.006	98	74342	20.0	25.6	
17 Chloroethane	64	1.567	1.567	0.000	100	84342	20.0	19.0	
18 Dichlorofluoromethane	67	1.671	1.670	0.000	98	200367	20.0	19.4	
19 Trichlorofluoromethane	101	1.677	1.676	0.001	99	188652	20.0	24.1	
20 Ethanol	46	1.810	1.816	-0.006	89	15439	800.0	599.5	
21 Ethyl ether	59	1.823	1.822	0.001	92	86125	20.0	16.8	
22 1,1,2-Trichloro-1,2,2-trif	101	1.926	1.926	0.000	96	104616	20.0	19.1	
23 Acrolein	56	1.932	1.932	0.000	32	10617	49.4	41.4	
24 1,1-Dichloroethene	96	1.950	1.950	0.000	97	98655	20.0	19.5	
25 Acetone	58	1.999	2.005	-0.006	86	37358	100.0	74.8	
26 Iodomethane	142	2.048	2.047	0.001	99	120492	20.0	19.2	
27 Isopropyl alcohol	45	2.072	2.066	0.006	29	41313	200.0	148.2	
28 Carbon disulfide	76	2.072	2.078	-0.006	100	291253	20.0	18.3	
32 Acetonitrile	41	2.139	2.139	0.000	71	139005	NC	NC	
30 3-Chloro-1-propene	76	2.139	2.139	0.000	88	90484	20.0	16.2	
31 Methyl acetate	43	2.151	2.151	0.000	98	131569	40.0	32.3	
33 Methylene Chloride	84	2.218	2.224	-0.006	93	111968	20.0	17.0	
34 2-Methyl-2-propanol	59	2.267	2.266	0.001	97	70472	200.0	159.7	
35 Methyl tert-butyl ether	73	2.328	2.327	0.001	96	303555	20.0	19.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 trans-1,2-Dichloroethene	61	2.340	2.339	0.001	96	148875	20.0	18.3	
37 Acrylonitrile	53	2.382	2.382	0.000	94	326050	200.0	167.1	
38 Hexane	57	2.480	2.473	0.007	92	158459	20.0	16.1	
40 1,1-Dichloroethane	63	2.589	2.589	0.000	99	197243	20.0	18.4	
39 Isopropyl ether	45	2.589	2.589	0.000	85	348005	20.0	16.5	
41 Vinyl acetate	86	2.595	2.595	0.000	99	48464	40.0	34.6	
42 2-Chloro-1,3-butadiene	53	2.626	2.625	0.001	93	180616	20.0	18.5	
43 Tert-butyl ethyl ether	59	2.784	2.783	0.001	89	339230	20.0	18.1	
44 2,2-Dichloropropane	77	2.905	2.905	0.000	95	160531	20.0	19.4	
45 cis-1,2-Dichloroethene	96	2.924	2.929	-0.005	97	122867	20.0	19.2	
47 2-Butanone (MEK)	72	2.936	2.936	0.000	96	52852	100.0	86.7	
46 Ethyl acetate	70	2.936	2.936	0.000	97	20685	40.0	33.0	
48 Propionitrile	54	3.015	3.015	0.000	98	119667	200.0	159.7	
49 Chlorobromomethane	130	3.070	3.069	0.001	85	72038	20.0	19.7	
51 Tetrahydrofuran	42	3.082	3.082	0.000	33	65326	40.0	30.5	
50 Methacrylonitrile	41	3.076	3.082	-0.006	92	563675	200.0	162.4	
52 Chloroform	83	3.100	3.100	0.000	98	191464	20.0	19.5	
54 1,1,1-Trichloroethane	97	3.197	3.197	0.000	91	168107	20.0	20.2	
53 Cyclohexane	56	3.197	3.197	0.000	91	201266	20.0	17.5	
56 Carbon tetrachloride	117	3.283	3.282	0.001	97	146725	20.0	21.2	
57 1,1-Dichloropropene	75	3.307	3.307	0.000	95	154081	20.0	19.3	
58 Isobutyl alcohol	43	3.398	3.398	0.000	92	75977	500.0	197.9	
59 Benzene	78	3.441	3.440	0.001	95	454574	20.0	18.6	
60 t-Amyl alcohol	59	3.441	3.440	0.001	59	65859	200.0	170.8	
62 1,2-Dichloroethane	62	3.483	3.483	0.000	94	153183	20.0	20.4	
61 Tert-amyl methyl ether	73	3.483	3.483	0.000	97	359937	20.0	19.0	
63 n-Heptane	43	3.538	3.538	0.000	91	141795	20.0	13.7	
64 n-Butanol	56	3.854	3.854	0.000	37	40412	500.0	346.9	
65 Trichloroethene	130	3.861	3.860	0.001	96	119212	20.0	18.9	
66 Ethyl acrylate	55	3.952	3.951	0.001	98	278854	20.0	17.1	
67 Methylcyclohexane	83	3.958	3.958	0.000	92	215568	20.0	18.5	
68 1,2-Dichloropropane	63	4.043	4.043	0.000	87	110693	20.0	17.7	
69 Methyl methacrylate	41	4.098	4.097	0.001	85	176190	40.0	29.0	
70 Dibromomethane	93	4.128	4.128	0.000	94	64971	20.0	19.8	
71 1,4-Dioxane	88	4.134	4.134	0.000	35	18508	400.0	336.0	
73 Dichlorobromomethane	83	4.226	4.225	0.001	99	149525	20.0	22.2	
74 2-Nitropropane	43	4.445	4.444	0.001	96	88660	40.0	29.6	
75 2-Chloroethyl vinyl ether	63	4.451	4.450	0.001	93	61239	20.0	16.1	
76 cis-1,3-Dichloropropene	75	4.560	4.560	0.000	96	172864	20.0	17.3	
77 4-Methyl-2-pentanone (MIBK)	58	4.670	4.669	0.001	96	177991	100.0	81.4	
78 Toluene	91	4.785	4.791	-0.006	93	487560	20.0	18.0	
79 trans-1,3-Dichloropropene	75	5.010	5.010	0.000	98	147358	20.0	17.4	
80 Ethyl methacrylate	69	5.029	5.034	-0.005	88	131906	20.0	17.0	
81 1,1,2-Trichloroethane	97	5.150	5.156	-0.006	93	92391	20.0	18.0	
82 Tetrachloroethene	166	5.205	5.205	0.000	97	140966	20.0	20.0	
83 1,3-Dichloropropane	76	5.296	5.296	0.000	92	164634	20.0	18.6	
84 2-Hexanone	58	5.339	5.345	-0.006	96	151321	100.0	85.1	
85 n-Butyl acetate	43	5.418	5.418	0.000	97	156838	20.0	19.2	
86 Chlorodibromomethane	127	5.454	5.460	-0.006	98	84255	20.0	21.2	
87 Ethylene Dibromide	107	5.564	5.564	0.000	99	94769	20.0	19.6	
88 1-Chlorohexane	91	5.917	5.923	-0.006	87	172097	20.0	20.4	
89 Chlorobenzene	112	5.965	5.965	0.000	95	329792	20.0	19.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
90 Ethylbenzene	91	6.026	6.032	-0.006	98	561470	20.0	19.6	
91 1,1,1,2-Tetrachloroethane	131	6.038	6.038	0.000	94	117594	20.0	20.4	
92 m-Xylene & p-Xylene	91	6.136	6.135	0.001	0	434288	20.0	19.7	
93 o-Xylene	91	6.495	6.494	0.001	94	440140	20.0	19.8	
94 Styrene	104	6.519	6.525	-0.006	95	359831	20.0	19.4	
95 Bromoform	173	6.708	6.707	0.001	97	66800	20.0	21.4	
96 Isopropylbenzene	105	6.811	6.817	-0.006	96	578584	20.0	20.6	
97 Cyclohexanone	55	6.975	6.975	0.000	92	26459	200.0	171.6	
98 Bromobenzene	77	7.133	7.133	0.000	92	190823	20.0	19.1	
99 1,1,2,2-Tetrachloroethane	83	7.170	7.170	0.000	97	105435	20.0	19.7	
100 N-Propylbenzene	91	7.200	7.200	0.000	99	654118	20.0	20.5	
101 1,2,3-Trichloropropane	110	7.213	7.218	-0.005	95	35396	20.0	20.3	
102 trans-1,4-Dichloro-2-buten	53	7.237	7.237	0.000	74	26481	20.0	17.2	
103 2-Chlorotoluene	91	7.310	7.310	0.000	98	440111	20.0	20.5	
104 4-Ethyltoluene	105	7.310	7.316	-0.006	98	542047	NC	NC	
105 1,3,5-Trimethylbenzene	105	7.377	7.376	0.001	94	491069	20.0	20.2	
106 4-Chlorotoluene	91	7.419	7.419	0.000	97	402406	20.0	20.3	
107 tert-Butylbenzene	119	7.669	7.668	0.001	95	406922	20.0	20.4	
108 1,2,4-Trimethylbenzene	105	7.736	7.741	-0.005	97	448676	20.0	20.2	
110 sec-Butylbenzene	105	7.882	7.881	0.001	98	575055	20.0	19.4	
112 4-Isopropyltoluene	119	8.028	8.027	0.001	98	496830	20.0	19.9	
111 1,3-Dichlorobenzene	146	8.034	8.033	0.001	97	241240	20.0	19.4	
113 Dicyclopentadiene	66	8.076	8.076	0.000	97	562955	NC	NC	
114 1,4-Dichlorobenzene	146	8.125	8.125	0.000	95	245970	20.0	19.3	
115 1,2,3-Trimethylbenzene	105	8.143	8.149	-0.006	98	436044	20.0	19.2	
116 Benzyl chloride	91	8.265	8.265	0.000	99	149490	20.0	15.8	
117 n-Butylbenzene	91	8.429	8.429	0.000	98	393708	20.0	18.4	
118 1,2-Dichlorobenzene	146	8.490	8.490	0.000	96	218891	20.0	19.6	
119 1,2-Dibromo-3-Chloropropan	157	9.281	9.281	0.000	92	17820	20.0	20.0	
120 1,3,5-Trichlorobenzene	180	9.439	9.439	0.000	97	142499	20.0	17.9	
121 1,2,4-Trichlorobenzene	180	10.151	10.157	-0.006	94	107789	20.0	19.0	
122 Hexachlorobutadiene	225	10.297	10.297	0.000	95	64260	20.0	17.4	
123 Naphthalene	128	10.461	10.467	-0.006	99	228648	20.0	24.3	
124 1,2,3-Trichlorobenzene	180	10.759	10.759	0.000	95	87857	20.0	22.9	
125 2-Methylnaphthalene	142	11.714	11.720	-0.006	86	63497	20.0	30.3	
126 1-Methylnaphthalene	142	11.891	11.896	-0.005	93	54507	20.0	35.6	
S 148 Xylenes, Total	1				0		40.0	39.5	
S 149 1,2-Dichloroethene, Total	1				0		40.0	37.5	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

V1_gases_I_00210

Amount Added: 20.00

Units: uL

V1_Mega_I_00069

Amount Added: 20.00

Units: uL

VOA_ISSS150_W_00015

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061734.D

Injection Date: 07-May-2017 03:02:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: lcs

Worklist Smp#: 3

Client ID:

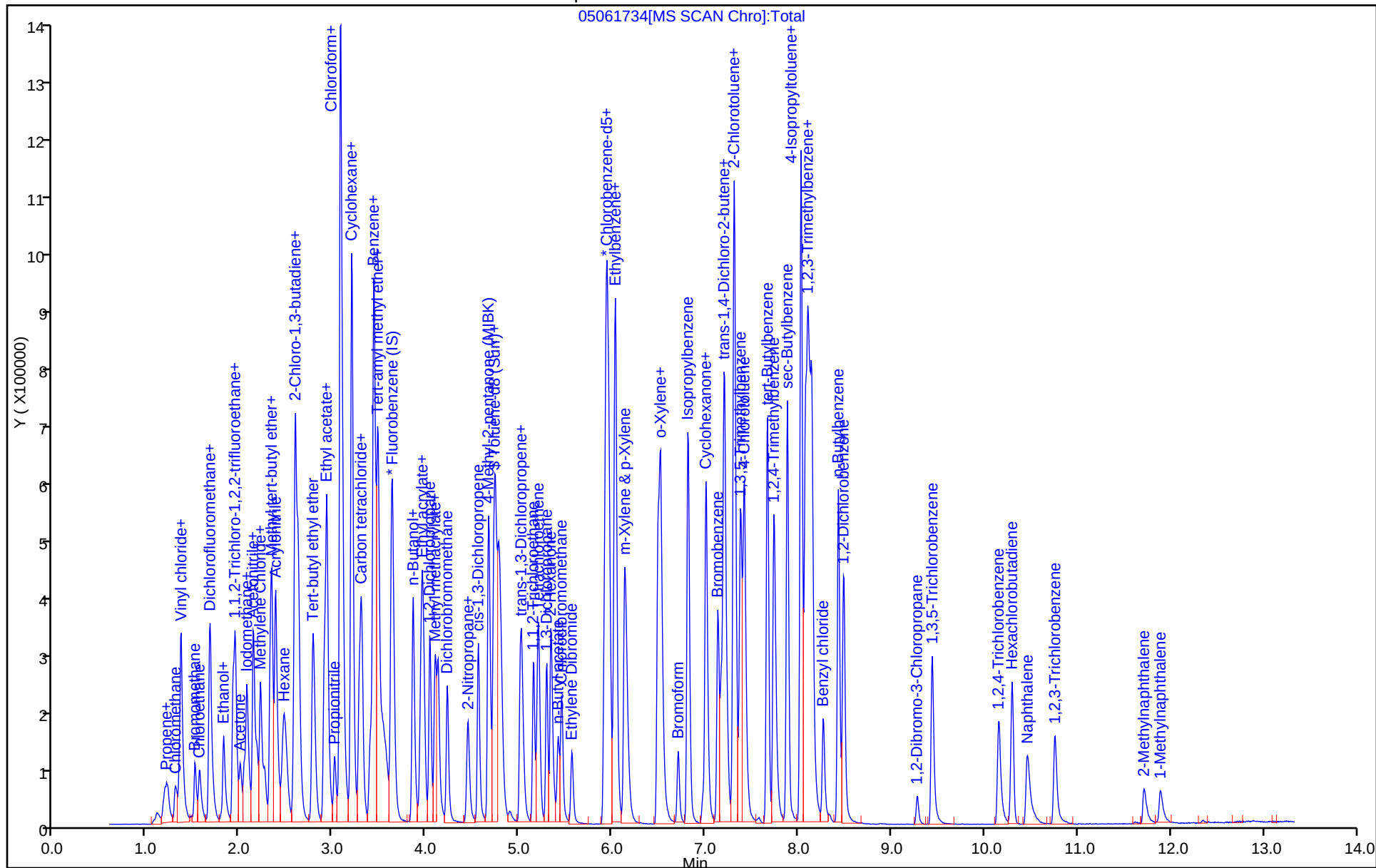
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 44

Method: 8260HP33

Limit Group: MSV 8260C ICAL



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 490-428184/3

Matrix: Water Lab File ID: 05081703.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 10 (mL) Date Analyzed: 05/08/2017 11:26

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.: 428184 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	26.4		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	22.4		1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25.2		1.0	0.15
79-00-5	1,1,2-Trichloroethane	22.5		1.0	0.19
75-34-3	1,1-Dichloroethane	21.8		1.0	0.24
75-35-4	1,1-Dichloroethene	21.9		1.0	0.25
120-82-1	1,2,4-Trichlorobenzene	19.8		1.0	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	19.3		10	0.94
95-50-1	1,2-Dichlorobenzene	24.0		1.0	0.19
107-06-2	1,2-Dichloroethane	22.7		1.0	0.20
78-87-5	1,2-Dichloropropane	21.6		1.0	0.25
541-73-1	1,3-Dichlorobenzene	24.3		1.0	0.18
106-46-7	1,4-Dichlorobenzene	24.1		1.0	0.17
78-93-3	2-Butanone (MEK)	93.9		50	2.6
591-78-6	2-Hexanone	90.9		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	95.8		10	0.81
67-64-1	Acetone	104		25	2.7
71-43-2	Benzene	22.9		1.0	0.20
75-25-2	Bromoform	22.0		1.0	0.29
74-83-9	Bromomethane	25.4		1.0	0.35
75-15-0	Carbon disulfide	23.8		1.0	0.22
56-23-5	Carbon tetrachloride	26.4		1.0	0.18
108-90-7	Chlorobenzene	23.4		1.0	0.18
124-48-1	Dibromochloromethane	22.8		1.0	0.25
75-00-3	Chloroethane	20.4		1.0	0.36
67-66-3	Chloroform	23.7		1.0	0.23
74-87-3	Chloromethane	22.2		1.0	0.36
156-59-2	cis-1,2-Dichloroethene	23.3		1.0	0.21
110-82-7	Cyclohexane	23.7		5.0	0.13
75-27-4	Bromodichloromethane	24.2		1.0	0.17
75-71-8	Dichlorodifluoromethane	21.9		1.0	0.17
100-41-4	Ethylbenzene	24.0		1.0	0.19
106-93-4	1,2-Dibromoethane	22.2		1.0	0.21
98-82-8	Isopropylbenzene	24.4		1.0	0.33
79-20-9	Methyl acetate	35.7		10	0.58

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 490-428184/3
 Matrix: Water Lab File ID: 05081703.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 10 (mL) Date Analyzed: 05/08/2017 11:26
 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.: 428184 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	21.9		1.0	0.17
108-87-2	Methylcyclohexane	24.6		5.0	0.090
75-09-2	Methylene Chloride	22.9		5.0	1.0
127-18-4	Tetrachloroethene	24.7		1.0	0.14
108-88-3	Toluene	23.0		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	23.1		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	22.6		1.0	0.17
79-01-6	Trichloroethene	23.5		1.0	0.20
75-69-4	Trichlorofluoromethane	26.6		1.0	0.21
75-01-4	Vinyl chloride	21.2		1.0	0.18
1330-20-7	Xylenes, Total	48.5		3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	23.8		1.0	0.17
100-42-5	Styrene	25.0		1.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-130
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP39\20170508-90599.b\05081703.D
 Lims ID: lcs
 Client ID:
 Sample Type: LCS
 Inject. Date: 08-May-2017 11:26:30 ALS Bottle#: 3 Worklist Smp#: 3
 Purge Vol: 10.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 490-0090599-003
 Operator ID: MJH HP-39 Instrument ID: HP39
 Method: \\ChromNA\Nashville\ChromData\HP39\20170508-90599.b\8260HP39.m
 Limit Group: MSV 8260C ICAL
 Method Label: 8260B Volatile Organics 8260/SA/NV05-90
 Last Update: 09-May-2017 10:48:16 Calib Date: 16-Mar-2017 21:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161714.D

Column 1 : Det: MS SCAN

Process Host: XAWRK030

First Level Reviewer: khanphomeea

Date: 09-May-2017 10:48:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.353	4.353	0.000	99	1113915	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.768	6.768	0.000	83	902892	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.934	8.934	0.000	76	540176	25.0	25.0	
\$ 4 Dibromofluoromethane (Surr	111	3.909	3.909	0.000	94	259888	25.0	24.7	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.152	4.152	0.000	92	242027	25.0	25.6	
\$ 6 Toluene-d8 (Surr)	98	5.533	5.533	0.000	92	1083902	25.0	24.3	
\$ 7 4-Bromofluorobenzene (Surr	95	7.833	7.833	0.000	96	430891	25.0	25.0	
9 Propene	41	1.403	1.403	0.000	100	176536	NC	NC	
10 Dichlorodifluoromethane	85	1.427	1.427	0.000	99	280944	20.0	21.9	
11 Chloromethane	50	1.579	1.579	0.000	99	276304	20.0	22.2	
12 Vinyl chloride	62	1.646	1.646	0.000	97	306081	20.0	21.2	
13 Butadiene	54	1.670	1.670	0.000	97	294932	20.0	21.2	
14 Bromomethane	96	1.883	1.883	0.000	89	181478	20.0	25.4	
15 Chloroethane	64	1.950	1.950	0.000	99	203254	20.0	20.4	
16 Dichlorofluoromethane	67	2.078	2.078	0.000	99	497328	20.0	21.7	
17 Trichlorofluoromethane	101	2.102	2.102	0.000	98	505663	20.0	26.6	
18 Ethanol	46	2.248	2.248	0.000	97	21530	800.0	832.6	
19 Ethyl ether	59	2.272	2.272	0.000	89	161364	20.0	21.7	
21 1,1,2-Trichloro-1,2,2-trif	101	2.406	2.406	0.000	93	288374	20.0	25.2	
20 Acrolein	56	2.412	2.412	0.000	98	43301	49.4	60.7	
22 1,1-Dichloroethene	96	2.443	2.443	0.000	95	265719	20.0	21.9	
23 Acetone	58	2.504	2.504	0.000	99	53695	100.0	104.5	
24 Iodomethane	142	2.564	2.564	0.000	97	377794	20.0	20.9	
26 Isopropyl alcohol	45	2.583	2.583	0.000	98	58439	200.0	195.2	
27 Carbon disulfide	76	2.607	2.607	0.000	98	793176	20.0	23.8	
29 3-Chloro-1-propene	76	2.674	2.674	0.000	60	203548	20.0	19.9	
30 Methyl acetate	43	2.686	2.686	0.000	96	165614	40.0	35.7	
28 Acetonitrile	40	2.710	2.710	0.000	90	78434	200.0	135.1	
31 Methylene Chloride	84	2.771	2.771	0.000	86	289087	20.0	22.9	
32 2-Methyl-2-propanol	59	2.826	2.826	0.000	100	91721	200.0	185.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Methyl tert-butyl ether	73	2.893	2.893	0.000	94	518011	20.0	21.9	
34 trans-1,2-Dichloroethene	61	2.917	2.917	0.000	95	373864	20.0	23.1	
33 Acrylonitrile	53	2.954	2.954	0.000	100	450045	200.0	195.0	
36 Hexane	57	3.033	3.033	0.000	90	399509	20.0	24.9	
39 Isopropyl ether	45	3.173	3.173	0.000	94	743307	20.0	20.6	
38 Vinyl acetate	86	3.203	3.203	0.000	97	82088	40.0	47.9	
37 1,1-Dichloroethane	63	3.203	3.203	0.000	96	487283	20.0	21.8	
40 2-Chloro-1,3-butadiene	53	3.240	3.240	0.000	99	436739	20.0	25.4	
41 Tert-butyl ethyl ether	59	3.404	3.404	0.000	96	668203	20.0	21.5	
43 2,2-Dichloropropane	77	3.568	3.568	0.000	88	447673	20.0	24.2	
42 cis-1,2-Dichloroethene	96	3.587	3.587	0.000	81	345393	20.0	23.3	
45 Ethyl acetate	70	3.593	3.593	0.000	48	29584	40.0	37.7	
44 2-Butanone (MEK)	72	3.599	3.599	0.000	97	71209	100.0	93.9	
46 Propionitrile	54	3.684	3.684	0.000	88	163693	200.0	190.0	
47 Methacrylonitrile	41	3.757	3.757	0.000	99	762258	200.0	187.2	
48 Chlorobromomethane	130	3.763	3.763	0.000	80	180282	20.0	22.4	
49 Tetrahydrofuran	42	3.775	3.775	0.000	82	85680	40.0	36.6	
50 Chloroform	83	3.793	3.793	0.000	92	484089	20.0	23.7	
51 1,1,1-Trichloroethane	97	3.897	3.897	0.000	97	472088	20.0	26.4	
52 Cyclohexane	56	3.909	3.909	0.000	87	484239	20.0	23.7	
54 Carbon tetrachloride	117	4.000	4.000	0.000	98	426637	20.0	26.4	
53 1,1-Dichloropropene	75	4.006	4.006	0.000	96	402668	20.0	23.8	
55 Isobutyl alcohol	43	4.122	4.122	0.000	94	233276	500.0	493.4	
56 t-Amyl alcohol	59	4.158	4.158	0.000	45	88821	200.0	182.0	
57 Benzene	78	4.164	4.164	0.000	96	1208615	20.0	22.9	
59 Tert-amyl methyl ether	73	4.183	4.183	0.000	98	658218	20.0	20.8	
58 1,2-Dichloroethane	62	4.207	4.207	0.000	97	281416	20.0	22.7	
60 n-Heptane	43	4.244	4.244	0.000	94	312154	20.0	23.1	
61 n-Butanol	56	4.572	4.572	0.000	88	68052	500.0	442.3	
62 Trichloroethene	130	4.609	4.609	0.000	97	357743	20.0	23.5	
63 Ethyl acrylate	55	4.663	4.663	0.000	100	164368	20.0	18.3	
64 Methylcyclohexane	83	4.712	4.712	0.000	85	544041	20.0	24.6	
65 1,2-Dichloropropane	63	4.809	4.809	0.000	94	270128	20.0	21.6	
66 Methyl methacrylate	41	4.834	4.834	0.000	88	271604	40.0	40.5	
68 1,4-Dioxane	88	4.913	4.913	0.000	32	25524	400.0	397.6	
67 Dibromomethane	93	4.919	4.919	0.000	91	131430	20.0	22.8	
69 Dichlorobromomethane	83	5.016	5.016	0.000	99	368744	20.0	24.2	
71 2-Chloroethyl vinyl ether	63	5.211	5.211	0.000	89	93210	20.0	19.7	
70 2-Nitropropane	43	5.217	5.217	0.000	84	122644	40.0	46.7	
72 cis-1,3-Dichloropropene	75	5.345	5.345	0.000	97	425017	20.0	23.8	
73 4-Methyl-2-pentanone (MIBK)	58	5.448	5.448	0.000	94	246707	100.0	95.8	
74 Toluene	91	5.588	5.588	0.000	99	1364098	20.0	23.0	
75 trans-1,3-Dichloropropene	75	5.795	5.795	0.000	96	340682	20.0	22.6	
76 Ethyl methacrylate	69	5.807	5.807	0.000	86	226577	20.0	19.7	
77 1,1,2-Trichloroethane	97	5.965	5.965	0.000	90	201181	20.0	22.5	
78 Tetrachloroethene	166	6.026	6.026	0.000	97	415495	20.0	24.7	
79 1,3-Dichloropropane	76	6.105	6.105	0.000	88	339013	20.0	21.8	
80 2-Hexanone	58	6.129	6.129	0.000	94	219015	100.0	90.9	
81 n-Butyl acetate	43	6.196	6.196	0.000	97	199899	20.0	17.6	
82 Chlorodibromomethane	127	6.306	6.306	0.000	89	189546	20.0	22.8	
83 Ethylene Dibromide	107	6.409	6.409	0.000	99	189592	20.0	22.2	
84 1-Chlorohexane	91	6.713	6.713	0.000	94	459405	20.0	24.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 Chlorobenzene	112	6.799	6.799	0.000	96	917315	20.0	23.4	
87 Ethylbenzene	91	6.853	6.853	0.000	97	1553020	20.0	24.0	
86 1,1,1,2-Tetrachloroethane	131	6.866	6.866	0.000	95	324123	20.0	23.9	
88 m-Xylene & p-Xylene	91	6.957	6.957	0.000	100	1216751	20.0	24.4	
89 o-Xylene	91	7.322	7.322	0.000	95	1223797	20.0	24.1	
90 Styrene	104	7.346	7.346	0.000	95	1046387	20.0	25.0	
91 Bromoform	173	7.583	7.583	0.000	99	146691	20.0	22.0	
92 Isopropylbenzene	105	7.644	7.644	0.000	95	1539113	20.0	24.4	
93 Cyclohexanone	55	7.833	7.833	0.000	43	55166	200.0	267.2	
94 Bromobenzene	156	7.985	7.985	0.000	87	410441	20.0	23.6	
95 1,1,2,2-Tetrachloroethane	83	8.009	8.009	0.000	94	211094	20.0	22.4	
98 N-Propylbenzene	91	8.028	8.028	0.000	98	1826733	20.0	23.9	
97 trans-1,4-Dichloro-2-buten	53	8.046	8.046	0.000	71	58877	20.0	24.7	
96 1,2,3-Trichloropropane	110	8.052	8.052	0.000	82	67460	20.0	20.7	
100 4-Ethyltoluene	105	8.131	8.131	0.000	98	1591714	NC	NC	
99 2-Chlorotoluene	91	8.143	8.143	0.000	96	1276461	20.0	24.0	
101 1,3,5-Trimethylbenzene	105	8.192	8.192	0.000	95	1349410	20.0	24.4	
102 4-Chlorotoluene	91	8.253	8.253	0.000	96	1147518	20.0	23.9	
103 tert-Butylbenzene	119	8.502	8.502	0.000	92	1128539	20.0	23.7	
104 1,2,4-Trimethylbenzene	105	8.557	8.557	0.000	96	1343987	20.0	24.3	
106 sec-Butylbenzene	105	8.709	8.709	0.000	94	1540731	20.0	24.1	
108 4-Isopropyltoluene	119	8.843	8.843	0.000	96	1345924	20.0	23.9	
107 1,3-Dichlorobenzene	146	8.867	8.867	0.000	98	790851	20.0	24.3	
110 Dicyclopentadiene	66	8.934	8.934	0.000	87	1377886	NC	NC	
109 1,4-Dichlorobenzene	146	8.958	8.958	0.000	96	792384	20.0	24.1	
111 1,2,3-Trimethylbenzene	105	8.977	8.977	0.000	100	1316067	20.0	24.4	
112 Benzyl chloride	91	9.104	9.104	0.000	99	417427	20.0	28.1	
114 n-Butylbenzene	91	9.250	9.250	0.000	97	1085981	20.0	25.7	
113 1,2-Dichlorobenzene	146	9.329	9.329	0.000	100	672869	20.0	24.0	
115 1,2-Dibromo-3-Chloropropan	157	10.212	10.212	0.000	90	37152	20.0	19.3	
116 1,3,5-Trichlorobenzene	180	10.382	10.382	0.000	97	406565	20.0	22.0	
117 1,2,4-Trichlorobenzene	180	11.118	11.118	0.000	94	293088	20.0	19.8	
118 Hexachlorobutadiene	225	11.246	11.246	0.000	95	182022	20.0	24.9	
119 Naphthalene	128	11.398	11.398	0.000	97	500965	20.0	18.8	
120 1,2,3-Trichlorobenzene	180	11.641	11.641	0.000	96	239808	20.0	19.1	
121 2-Methylnaphthalene	142	12.475	12.475	0.000	92	176074	20.0	11.7	
122 1-Methylnaphthalene	142	12.657	12.657	0.000	92	141185	20.0	12.4	
S 136 1,2-Dichloroethene, Total	1				0		40.0	46.4	
S 135 Xylenes, Total	1				0		40.0	48.5	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

V1_gases_I_00210

Amount Added: 100.00

Units: uL

V1_Mega_I_00070

Amount Added: 100.00

Units: uL

VOA_ISSS_50_W_00040

Amount Added: 5.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP39\\20170508-90599.b\\05081703.D

Injection Date: 08-May-2017 11:26:30

Instrument ID: HP39

Operator ID: MJH HP-39

Lims ID: lcs

Worklist Smp#: 3

Client ID:

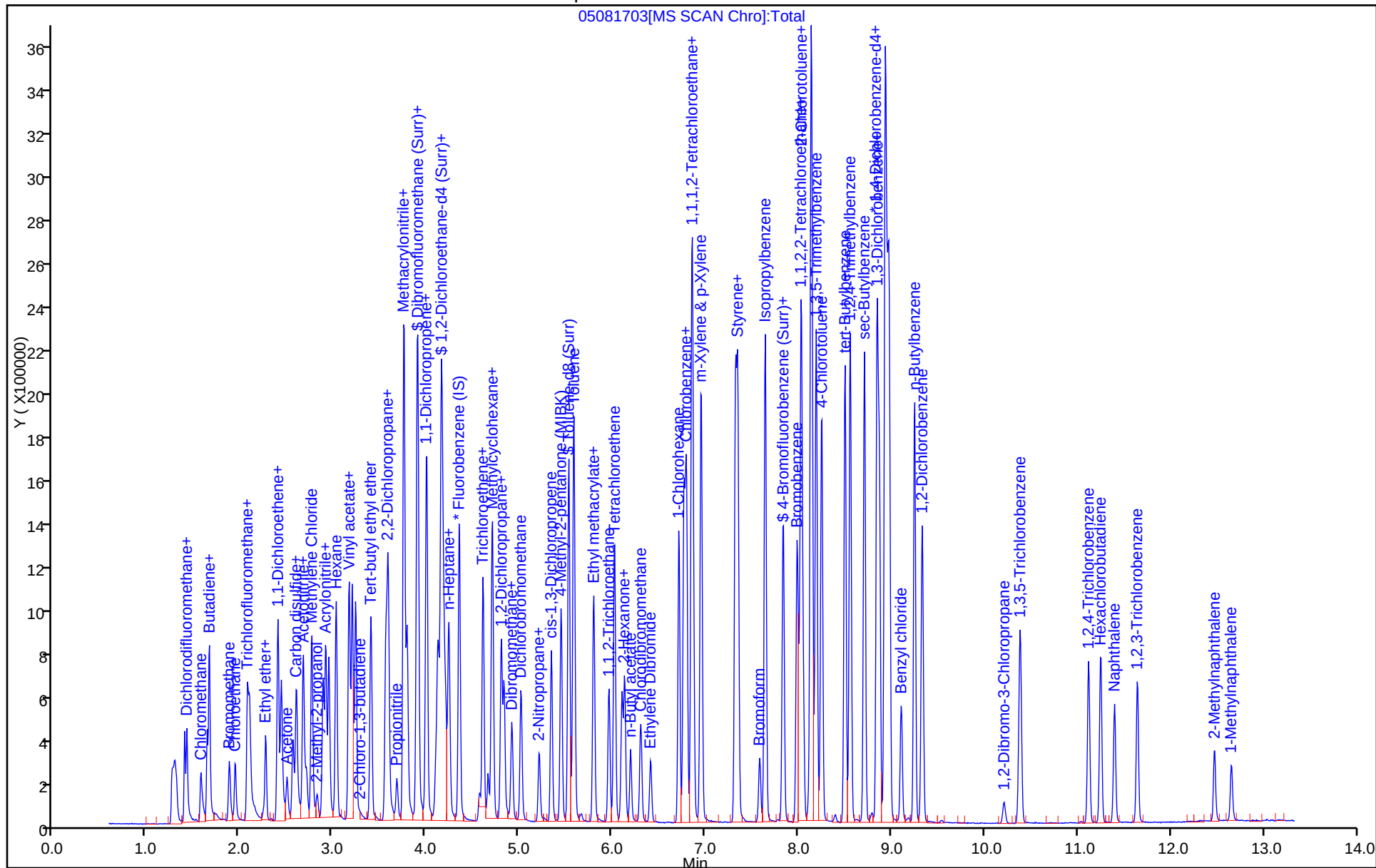
Purge Vol: 10.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 8260HP39

Limit Group: MSV 8260C ICAL



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 490-428592/3

Matrix: Water Lab File ID: 05091703.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 05/09/2017 10:59

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.: 428592 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	21.2		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	20.8		1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	21.1		1.0	0.15
79-00-5	1,1,2-Trichloroethane	17.9		1.0	0.19
75-34-3	1,1-Dichloroethane	18.8		1.0	0.24
75-35-4	1,1-Dichloroethene	20.5		1.0	0.25
120-82-1	1,2,4-Trichlorobenzene	21.5		1.0	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	24.1		10	0.94
95-50-1	1,2-Dichlorobenzene	20.4		1.0	0.19
107-06-2	1,2-Dichloroethane	20.3		1.0	0.20
78-87-5	1,2-Dichloropropane	17.6		1.0	0.25
541-73-1	1,3-Dichlorobenzene	20.6		1.0	0.18
106-46-7	1,4-Dichlorobenzene	20.8		1.0	0.17
78-93-3	2-Butanone (MEK)	95.0		50	2.6
591-78-6	2-Hexanone	94.9		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	83.9		10	0.81
67-64-1	Acetone	81.6		25	2.7
71-43-2	Benzene	18.9		1.0	0.20
75-25-2	Bromoform	23.2		1.0	0.29
74-83-9	Bromomethane	18.7		1.0	0.35
75-15-0	Carbon disulfide	18.8		1.0	0.22
56-23-5	Carbon tetrachloride	22.1		1.0	0.18
108-90-7	Chlorobenzene	19.9		1.0	0.18
124-48-1	Dibromochloromethane	21.8		1.0	0.25
75-00-3	Chloroethane	18.8		1.0	0.36
67-66-3	Chloroform	20.4		1.0	0.23
74-87-3	Chloromethane	13.6		1.0	0.36
156-59-2	cis-1,2-Dichloroethene	19.9		1.0	0.21
110-82-7	Cyclohexane	18.2		5.0	0.13
75-27-4	Bromodichloromethane	22.2		1.0	0.17
75-71-8	Dichlorodifluoromethane	29.1		1.0	0.17
100-41-4	Ethylbenzene	19.5		1.0	0.19
106-93-4	1,2-Dibromoethane	20.0		1.0	0.21
98-82-8	Isopropylbenzene	20.8		1.0	0.33
79-20-9	Methyl acetate	35.9		10	0.58

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 490-428592/3
 Matrix: Water Lab File ID: 05091703.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 05/09/2017 10:59
 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.: 428592 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	19.9		1.0	0.17
108-87-2	Methylcyclohexane	19.1		5.0	0.090
75-09-2	Methylene Chloride	17.4		5.0	1.0
127-18-4	Tetrachloroethene	18.8		1.0	0.14
108-88-3	Toluene	17.2		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	18.8		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	18.1		1.0	0.17
79-01-6	Trichloroethene	19.7		1.0	0.20
75-69-4	Trichlorofluoromethane	25.1		1.0	0.21
75-01-4	Vinyl chloride	18.9		1.0	0.18
1330-20-7	Xylenes, Total	38.8		3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	17.5		1.0	0.17
100-42-5	Styrene	19.8		1.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		70-130
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	90		70-130
1868-53-7	Dibromofluoromethane (Surr)	102		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20170509-90669.b\05091703.D
 Lims ID: lcs
 Client ID:
 Sample Type: LCS
 Inject. Date: 09-May-2017 10:59:30 ALS Bottle#: 3 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 490-0090669-003
 Operator ID: JJR Instrument ID: HP33
 Method: \\ChromNA\Nashville\ChromData\HP33\20170509-90669.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 10-May-2017 10:17:05 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: chumongkolratn

Date: 10-May-2017 10:20:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.623	3.623	0.000	98	894197	30.0	30.0	
* 2 Chlorobenzene-d5	117	5.929	5.929	0.001	86	720277	30.0	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.094	8.094	0.000	96	331251	30.0	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.209	3.209	0.000	98	228410	30.0	30.5	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.434	3.434	0.000	0	266623	30.0	32.0	
\$ 7 Toluene-d8 (Surr)	98	4.724	4.724	0.000	99	858101	30.0	26.9	
\$ 8 4-Bromofluorobenzene (Surr	95	6.999	6.999	0.000	95	314922	30.0	30.3	
11 Propene	41	1.190	1.196	-0.006	92	41095	NC	NC	
12 Dichlorodifluoromethane	85	1.220	1.214	0.006	99	131952	20.0	29.1	
13 Chloromethane	50	1.311	1.311	0.000	99	108500	20.0	13.6	
14 Vinyl chloride	62	1.360	1.360	0.000	98	167130	20.0	18.9	
15 Butadiene	54	1.378	1.378	0.000	97	162566	20.0	18.1	
16 Bromomethane	96	1.530	1.524	0.006	98	71071	20.0	18.7	
17 Chloroethane	64	1.579	1.573	0.006	99	108537	20.0	18.8	
18 Dichlorofluoromethane	67	1.676	1.676	0.000	98	271210	20.0	20.3	
19 Trichlorofluoromethane	101	1.688	1.688	0.000	97	254649	20.0	25.1	
20 Ethanol	46	1.828	1.816	0.012	80	21428	800.0	643.5	
21 Ethyl ether	59	1.834	1.828	0.006	92	120056	20.0	18.1	
22 1,1,2-Trichloro-1,2,2-trif	101	1.932	1.932	0.000	96	149391	20.0	21.1	
23 Acrolein	56	1.944	1.944	0.000	34	17981	49.4	54.1	
24 1,1-Dichloroethene	96	1.956	1.956	0.000	98	133892	20.0	20.5	
25 Acetone	58	2.011	2.017	-0.006	86	52843	100.0	81.6	
26 Iodomethane	142	2.053	2.053	0.000	97	130844	20.0	16.1	
27 Isopropyl alcohol	45	2.072	2.078	-0.006	28	65109	200.0	180.2	
28 Carbon disulfide	76	2.084	2.084	0.000	100	388577	20.0	18.8	
32 Acetonitrile	41	2.145	2.145	0.000	70	175522	NC	NC	
30 3-Chloro-1-propene	76	2.145	2.145	0.000	85	127140	20.0	17.5	
31 Methyl acetate	43	2.157	2.157	0.000	98	189459	40.0	35.9	
33 Methylene Chloride	84	2.230	2.230	0.000	92	148445	20.0	17.4	
34 2-Methyl-2-propanol	59	2.272	2.272	0.000	98	99003	200.0	173.1	
35 Methyl tert-butyl ether	73	2.333	2.333	0.000	97	413528	20.0	19.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 trans-1,2-Dichloroethene	61	2.345	2.345	0.000	94	198240	20.0	18.8	
37 Acrylonitrile	53	2.388	2.388	0.000	94	452589	200.0	178.9	
38 Hexane	57	2.455	2.449	0.006	92	234260	20.0	18.4	
39 Isopropyl ether	45	2.577	2.577	0.001	93	463312	20.0	16.9	
40 1,1-Dichloroethane	63	2.595	2.589	0.006	100	260815	20.0	18.8	
41 Vinyl acetate	86	2.601	2.601	0.000	99	67447	40.0	37.1	
42 2-Chloro-1,3-butadiene	53	2.625	2.625	0.000	93	232360	20.0	18.3	
43 Tert-butyl ethyl ether	59	2.777	2.777	0.000	90	448553	20.0	18.5	
44 2,2-Dichloropropane	77	2.911	2.911	0.000	95	229207	20.0	21.4	
45 cis-1,2-Dichloroethene	96	2.930	2.929	0.001	95	165135	20.0	19.9	
47 2-Butanone (MEK)	72	2.942	2.942	0.000	96	75120	100.0	95.0	
46 Ethyl acetate	70	2.942	2.942	0.000	96	29361	40.0	36.1	
48 Propionitrile	54	3.021	3.021	0.000	99	170556	200.0	175.6	
49 Chlorobromomethane	130	3.076	3.075	0.001	83	90644	20.0	19.2	
51 Tetrahydrofuran	42	3.088	3.081	0.007	33	94919	40.0	34.2	
50 Methacrylonitrile	41	3.082	3.081	0.001	92	805018	200.0	178.9	
52 Chloroform	83	3.106	3.106	0.000	98	259711	20.0	20.4	
53 Cyclohexane	56	3.197	3.197	0.000	91	271003	20.0	18.2	
54 1,1,1-Trichloroethane	97	3.203	3.203	0.000	97	229015	20.0	21.2	
56 Carbon tetrachloride	117	3.282	3.282	0.000	97	198749	20.0	22.1	
57 1,1-Dichloropropene	75	3.307	3.300	0.007	95	202199	20.0	19.6	
58 Isobutyl alcohol	43	3.404	3.404	0.000	62	195278	500.0	392.4	
59 Benzene	78	3.434	3.434	0.000	97	598578	20.0	18.9	
60 t-Amyl alcohol	59	3.447	3.446	0.001	48	88216	200.0	176.5	
61 Tert-amyl methyl ether	73	3.477	3.471	0.006	99	482723	20.0	19.6	
62 1,2-Dichloroethane	62	3.489	3.483	0.006	97	197799	20.0	20.3	
63 n-Heptane	43	3.532	3.532	0.000	86	214457	20.0	16.0	
64 n-Butanol	56	3.854	3.854	0.000	88	56249	500.0	372.6	
65 Trichloroethene	130	3.860	3.854	0.006	96	160739	20.0	19.7	
66 Ethyl acrylate	55	3.939	3.933	0.006	97	384973	20.0	18.2	
67 Methylcyclohexane	83	3.945	3.945	0.000	90	288656	20.0	19.1	
68 1,2-Dichloropropane	63	4.043	4.037	0.006	87	143153	20.0	17.6	
69 Methyl methacrylate	41	4.091	4.091	0.000	84	241072	40.0	30.8	
70 Dibromomethane	93	4.128	4.128	0.000	93	87092	20.0	20.4	
71 1,4-Dioxane	88	4.140	4.140	0.000	36	23502	400.0	329.1	
73 Dichlorobromomethane	83	4.231	4.225	0.006	99	194085	20.0	22.2	
74 2-Nitropropane	43	4.444	4.444	0.000	83	110382	40.0	28.5	
75 2-Chloroethyl vinyl ether	63	4.450	4.450	0.000	88	77327	20.0	15.4	
76 cis-1,3-Dichloropropene	75	4.560	4.560	0.000	95	231697	20.0	17.5	
77 4-Methyl-2-pentanone (MIBK)	58	4.663	4.663	0.000	96	242641	100.0	83.9	
78 Toluene	91	4.779	4.773	0.006	93	618647	20.0	17.2	
79 trans-1,3-Dichloropropene	75	5.010	5.004	0.006	98	202245	20.0	18.1	
80 Ethyl methacrylate	69	5.028	5.022	0.006	88	180732	20.0	17.6	
81 1,1,2-Trichloroethane	97	5.150	5.150	0.000	93	121411	20.0	17.9	
82 Tetrachloroethene	166	5.193	5.192	0.001	97	175520	20.0	18.8	
83 1,3-Dichloropropane	76	5.296	5.290	0.006	92	217195	20.0	18.6	
84 2-Hexanone	58	5.332	5.332	0.000	96	223458	100.0	94.9	
85 n-Butyl acetate	43	5.412	5.411	0.001	98	204429	20.0	19.3	
86 Chlorodibromomethane	127	5.454	5.454	0.000	98	114591	20.0	21.8	
87 Ethylene Dibromide	107	5.558	5.557	0.001	99	128130	20.0	20.0	
88 1-Chlorohexane	91	5.910	5.910	0.000	87	224926	20.0	20.6	
89 Chlorobenzene	112	5.959	5.953	0.006	95	445607	20.0	19.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
90 Ethylbenzene	91	6.020	6.020	0.000	98	738851	20.0	19.5	
91 1,1,1,2-Tetrachloroethane	131	6.032	6.032	0.000	93	160263	20.0	21.0	
92 m-Xylene & p-Xylene	91	6.129	6.129	0.000	0	556599	20.0	19.1	
93 o-Xylene	91	6.482	6.482	0.000	94	580052	20.0	19.7	
94 Styrene	104	6.513	6.513	0.000	96	486473	20.0	19.8	
95 Bromoform	173	6.701	6.701	0.000	97	96077	20.0	23.2	
96 Isopropylbenzene	105	6.805	6.805	0.000	96	772325	20.0	20.8	
97 Cyclohexanone	55	6.969	6.969	0.000	93	33559	200.0	167.9	
98 Bromobenzene	77	7.127	7.127	0.000	92	248639	20.0	18.7	
99 1,1,2,2-Tetrachloroethane	83	7.170	7.170	0.000	96	148158	20.0	20.8	
100 N-Propylbenzene	91	7.194	7.194	0.000	99	878365	20.0	20.7	
101 1,2,3-Trichloropropane	110	7.212	7.206	0.006	95	49959	20.0	21.5	
102 trans-1,4-Dichloro-2-buten	53	7.231	7.230	0.000	77	38898	20.0	19.0	
103 2-Chlorotoluene	91	7.304	7.297	0.007	97	578367	20.0	20.2	
104 4-Ethyltoluene	105	7.304	7.303	0.001	98	731926	NC	NC	
105 1,3,5-Trimethylbenzene	105	7.370	7.370	0.000	94	642981	20.0	19.8	
106 4-Chlorotoluene	91	7.413	7.413	0.000	96	533448	20.0	20.2	
107 tert-Butylbenzene	119	7.662	7.662	0.000	95	543140	20.0	20.4	
108 1,2,4-Trimethylbenzene	105	7.729	7.729	0.000	97	605782	20.0	20.4	
110 sec-Butylbenzene	105	7.875	7.875	0.000	98	780386	20.0	19.8	
112 4-Isopropyltoluene	119	8.021	8.021	0.000	97	670466	20.0	20.2	
111 1,3-Dichlorobenzene	146	8.027	8.027	0.000	98	341513	20.0	20.6	
113 Dicyclopentadiene	66	8.070	8.070	0.000	96	762392	NC	NC	
114 1,4-Dichlorobenzene	146	8.119	8.119	0.000	95	352793	20.0	20.8	
115 1,2,3-Trimethylbenzene	105	8.137	8.137	0.000	98	593100	20.0	19.6	
116 Benzyl chloride	91	8.265	8.258	0.007	99	267636	20.0	21.3	
117 n-Butylbenzene	91	8.423	8.423	0.000	98	554956	20.0	19.4	
118 1,2-Dichlorobenzene	146	8.484	8.484	0.000	97	303430	20.0	20.4	
119 1,2-Dibromo-3-Chloropropan	157	9.275	9.274	0.001	94	28654	20.0	24.1	
120 1,3,5-Trichlorobenzene	180	9.433	9.433	0.000	97	210344	20.0	19.9	
121 1,2,4-Trichlorobenzene	180	10.144	10.150	-0.006	93	163031	20.0	21.5	
122 Hexachlorobutadiene	225	10.290	10.296	-0.006	96	100091	20.0	20.4	
123 Naphthalene	128	10.455	10.455	0.000	99	343222	20.0	27.4	
124 1,2,3-Trichlorobenzene	180	10.753	10.753	0.000	95	126800	20.0	24.8	
125 2-Methylnaphthalene	142	11.708	11.708	0.000	86	94072	20.0	33.7	
126 1-Methylnaphthalene	142	11.884	11.884	0.000	93	82410	20.0	40.4	
S 148 Xylenes, Total	1				0		40.0	38.8	
S 149 1,2-Dichloroethene, Total	1				0		40.0	38.7	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

V1_gases_I_00210

Amount Added: 20.00

Units: uL

V1_Mega_I_00070

Amount Added: 20.00

Units: uL

VOA_ISSS150_W_00015

Amount Added: 20.00

Units: uL

Run Reagent

Data File: \\ChromNA\Nashville\ChromData\HP33\20170509-90669.b\05091703.D

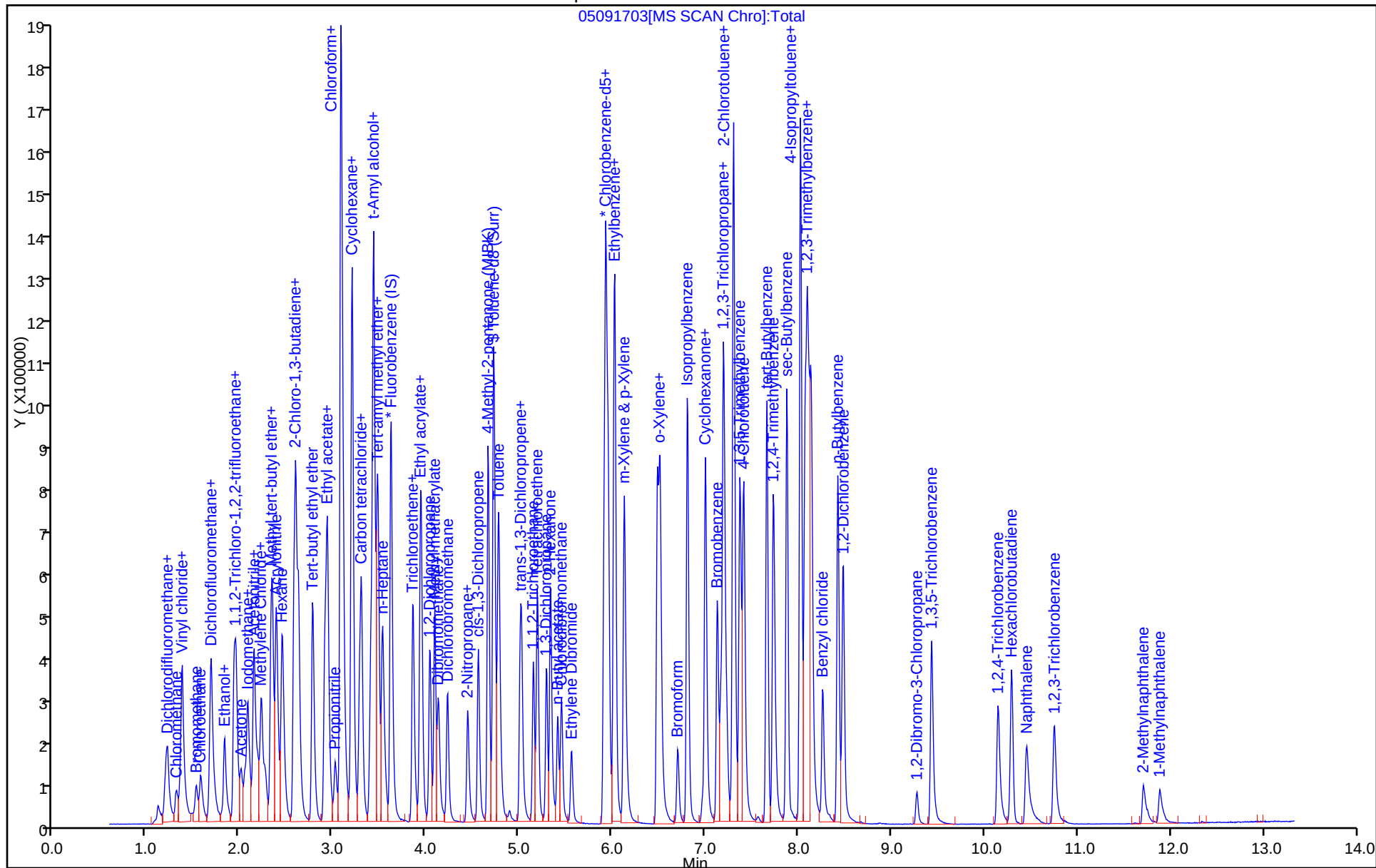
Operator ID: JJR

Worklist Smp#: 3

ALS Bottle#: 3

Dil. Factor: 1.0000

Limit Group: MSV 8260C ICAL



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 490-428030/4

Matrix: Water Lab File ID: 05061735.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 05/07/2017 03:29

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.: 428030 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	22.5		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	21.7		1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	21.1		1.0	0.15
79-00-5	1,1,2-Trichloroethane	19.4		1.0	0.19
75-34-3	1,1-Dichloroethane	19.9		1.0	0.24
75-35-4	1,1-Dichloroethene	21.1		1.0	0.25
120-82-1	1,2,4-Trichlorobenzene	21.6		1.0	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	22.7		10	0.94
95-50-1	1,2-Dichlorobenzene	21.7		1.0	0.19
107-06-2	1,2-Dichloroethane	21.1		1.0	0.20
78-87-5	1,2-Dichloropropane	18.8		1.0	0.25
541-73-1	1,3-Dichlorobenzene	21.7		1.0	0.18
106-46-7	1,4-Dichlorobenzene	21.8		1.0	0.17
78-93-3	2-Butanone (MEK)	93.7		50	2.6
591-78-6	2-Hexanone	93.6		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	85.7		10	0.81
67-64-1	Acetone	79.1		25	2.7
71-43-2	Benzene	20.1		1.0	0.20
75-25-2	Bromoform	23.0		1.0	0.29
74-83-9	Bromomethane	19.1		1.0	0.35
75-15-0	Carbon disulfide	19.8		1.0	0.22
56-23-5	Carbon tetrachloride	23.2		1.0	0.18
108-90-7	Chlorobenzene	21.1		1.0	0.18
124-48-1	Dibromochloromethane	22.8		1.0	0.25
75-00-3	Chloroethane	17.8		1.0	0.36
67-66-3	Chloroform	21.0		1.0	0.23
74-87-3	Chloromethane	13.9		1.0	0.36
156-59-2	cis-1,2-Dichloroethene	20.6		1.0	0.21
110-82-7	Cyclohexane	19.6		5.0	0.13
75-27-4	Bromodichloromethane	22.8		1.0	0.17
75-71-8	Dichlorodifluoromethane	28.0		1.0	0.17
100-41-4	Ethylbenzene	21.6		1.0	0.19
106-93-4	1,2-Dibromoethane	20.9		1.0	0.21
98-82-8	Isopropylbenzene	22.9		1.0	0.33
79-20-9	Methyl acetate	34.0		10	0.58

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 490-428030/4
 Matrix: Water Lab File ID: 05061735.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 05/07/2017 03:29
 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.: 428030 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	20.2		1.0	0.17
108-87-2	Methylcyclohexane	20.5		5.0	0.090
75-09-2	Methylene Chloride	17.9		5.0	1.0
127-18-4	Tetrachloroethene	22.3		1.0	0.14
108-88-3	Toluene	18.9		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	19.9		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	19.3		1.0	0.17
79-01-6	Trichloroethene	20.6		1.0	0.20
75-69-4	Trichlorofluoromethane	23.5		1.0	0.21
75-01-4	Vinyl chloride	17.9		1.0	0.18
1330-20-7	Xylenes, Total	43.9		3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	18.4		1.0	0.17
100-42-5	Styrene	21.9		1.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-130
460-00-4	4-Bromofluorobenzene (Surr)	104		70-130
2037-26-5	Toluene-d8 (Surr)	93		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\05061735.D
 Lims ID: lcsd
 Client ID:
 Sample Type: LCSD
 Inject. Date: 07-May-2017 03:29:30 ALS Bottle#: 45 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCSD
 Misc. Info.: 490-0090567-004
 Operator ID: JJR Instrument ID: HP33
 Method: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 08-May-2017 09:55:02 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: wanguns

Date: 08-May-2017 10:00:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.622	3.635	-0.013	98	684730	30.0	30.0	
* 2 Chlorobenzene-d5	117	5.934	5.941	-0.007	86	537349	30.0	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.100	8.100	0.000	94	245309	30.0	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.215	3.203	0.012	98	166645	30.0	29.1	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.440	3.434	0.006	0	200121	30.0	31.4	
\$ 7 Toluene-d8 (Surr)	98	4.729	4.736	-0.007	99	665133	30.0	28.0	
\$ 8 4-Bromofluorobenzene (Surr	95	7.005	7.005	0.000	92	240568	30.0	31.3	
11 Propene	41	1.195	1.184	0.011	90	40066	NC	NC	
12 Dichlorodifluoromethane	85	1.213	1.214	-0.001	99	97175	20.0	28.0	
13 Chloromethane	50	1.317	1.305	0.012	99	85349	20.0	13.9	
14 Vinyl chloride	62	1.365	1.348	0.017	98	121501	20.0	17.9	
15 Butadiene	54	1.377	1.366	0.011	97	123048	20.0	17.9	
16 Bromomethane	96	1.530	1.518	0.012	98	55534	20.0	19.1	
17 Chloroethane	64	1.578	1.567	0.011	100	78504	20.0	17.8	
18 Dichlorofluoromethane	67	1.682	1.670	0.012	98	191683	20.0	18.7	
19 Trichlorofluoromethane	101	1.694	1.676	0.018	99	182861	20.0	23.5	
20 Ethanol	46	1.828	1.816	0.012	82	15661	800.0	613.2	
21 Ethyl ether	59	1.834	1.822	0.012	93	92389	20.0	18.2	
22 1,1,2-Trichloro-1,2,2-trif	101	1.937	1.926	0.011	97	114508	20.0	21.1	
23 Acrolein	56	1.949	1.932	0.017	36	18380	49.4	72.2	
24 1,1-Dichloroethene	96	1.961	1.950	0.011	97	105869	20.0	21.1	
25 Acetone	58	2.016	2.005	0.011	87	39232	100.0	79.1	
26 Iodomethane	142	2.059	2.047	0.012	98	95925	20.0	15.4	
27 Isopropyl alcohol	45	2.083	2.066	0.017	28	44071	200.0	159.3	
28 Carbon disulfide	76	2.083	2.078	0.005	100	312686	20.0	19.8	
32 Acetonitrile	41	2.150	2.139	0.011	70	150375	NC	NC	
30 3-Chloro-1-propene	76	2.150	2.139	0.011	87	122452	20.0	22.1	
31 Methyl acetate	43	2.156	2.151	0.005	98	137379	40.0	34.0	
33 Methylene Chloride	84	2.229	2.224	0.005	93	116914	20.0	17.9	
34 2-Methyl-2-propanol	59	2.272	2.266	0.006	99	76483	200.0	174.7	
35 Methyl tert-butyl ether	73	2.333	2.327	0.006	96	321266	20.0	20.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 trans-1,2-Dichloroethene	61	2.351	2.339	0.012	96	160962	20.0	19.9	
37 Acrylonitrile	53	2.393	2.382	0.011	95	344757	200.0	178.0	
38 Hexane	57	2.454	2.473	-0.019	92	175580	20.0	18.0	
40 1,1-Dichloroethane	63	2.594	2.589	0.005	99	211485	20.0	19.9	
39 Isopropyl ether	45	2.582	2.589	-0.007	92	374418	20.0	17.8	
41 Vinyl acetate	86	2.606	2.595	0.011	99	49848	40.0	35.8	
42 2-Chloro-1,3-butadiene	53	2.631	2.625	0.006	94	193866	20.0	20.0	
43 Tert-butyl ethyl ether	59	2.783	2.783	0.000	90	354197	20.0	19.1	
44 2,2-Dichloropropane	77	2.910	2.905	0.005	95	169580	20.0	20.7	
45 cis-1,2-Dichloroethene	96	2.935	2.929	0.006	96	130787	20.0	20.6	
47 2-Butanone (MEK)	72	2.947	2.936	0.011	96	56699	100.0	93.7	
46 Ethyl acetate	70	2.941	2.936	0.005	95	21578	40.0	34.6	
48 Propionitrile	54	3.026	3.015	0.011	98	127358	200.0	171.2	
49 Chlorobromomethane	130	3.081	3.069	0.012	85	71043	20.0	19.6	
51 Tetrahydrofuran	42	3.087	3.082	0.005	29	72302	40.0	34.0	
50 Methacrylonitrile	41	3.087	3.082	0.005	91	600660	200.0	174.3	
52 Chloroform	83	3.111	3.100	0.011	98	204852	20.0	21.0	
54 1,1,1-Trichloroethane	97	3.203	3.197	0.005	96	185722	20.0	22.5	
53 Cyclohexane	56	3.203	3.197	0.005	91	223766	20.0	19.6	
56 Carbon tetrachloride	117	3.288	3.282	0.006	97	159800	20.0	23.2	
57 1,1-Dichloropropene	75	3.306	3.307	-0.001	95	167320	20.0	21.2	
58 Isobutyl alcohol	43	3.409	3.398	0.011	57	147066	500.0	385.9	
59 Benzene	78	3.434	3.440	-0.006	97	487406	20.0	20.1	
60 t-Amyl alcohol	59	3.446	3.440	0.006	48	69564	200.0	181.8	
62 1,2-Dichloroethane	62	3.488	3.483	0.005	97	156743	20.0	21.1	
61 Tert-amyl methyl ether	73	3.476	3.483	-0.007	98	376460	20.0	20.0	
63 n-Heptane	43	3.531	3.538	-0.007	87	153038	20.0	14.9	
64 n-Butanol	56	3.853	3.854	-0.001	37	42718	500.0	369.5	
65 Trichloroethene	130	3.860	3.860	0.000	97	128664	20.0	20.6	
66 Ethyl acrylate	55	3.939	3.951	-0.012	97	303551	20.0	18.7	
67 Methylcyclohexane	83	3.945	3.958	-0.013	90	236504	20.0	20.5	
68 1,2-Dichloropropane	63	4.042	4.043	-0.001	87	116640	20.0	18.8	
69 Methyl methacrylate	41	4.091	4.097	-0.006	85	188819	40.0	31.6	
70 Dibromomethane	93	4.133	4.128	0.005	94	67760	20.0	20.8	
71 1,4-Dioxane	88	4.145	4.134	0.011	32	18935	400.0	346.3	
73 Dichlorobromomethane	83	4.231	4.225	0.006	99	152542	20.0	22.8	
74 2-Nitropropane	43	4.444	4.444	0.000	95	90421	40.0	30.5	
75 2-Chloroethyl vinyl ether	63	4.450	4.450	0.000	96	62555	20.0	16.7	
76 cis-1,3-Dichloropropene	75	4.559	4.560	-0.001	96	182248	20.0	18.4	
77 4-Methyl-2-pentanone (MIBK)	58	4.669	4.669	0.000	96	185016	100.0	85.7	
78 Toluene	91	4.778	4.791	-0.013	94	505974	20.0	18.9	
79 trans-1,3-Dichloropropene	75	5.009	5.010	-0.001	98	160638	20.0	19.3	
80 Ethyl methacrylate	69	5.028	5.034	-0.006	89	139278	20.0	18.1	
81 1,1,2-Trichloroethane	97	5.155	5.156	-0.001	94	98213	20.0	19.4	
82 Tetrachloroethene	166	5.198	5.205	-0.007	97	155333	20.0	22.3	
83 1,3-Dichloropropane	76	5.295	5.296	-0.001	92	169346	20.0	19.4	
84 2-Hexanone	58	5.338	5.345	-0.007	96	164484	100.0	93.6	
85 n-Butyl acetate	43	5.411	5.418	-0.007	98	155587	20.0	19.2	
86 Chlorodibromomethane	127	5.459	5.460	-0.001	98	89403	20.0	22.8	
87 Ethylene Dibromide	107	5.563	5.564	-0.001	98	99633	20.0	20.9	
88 1-Chlorohexane	91	5.916	5.923	-0.007	87	186693	20.0	22.3	
89 Chlorobenzene	112	5.958	5.965	-0.007	95	353139	20.0	21.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
90 Ethylbenzene	91	6.019	6.032	-0.013	98	609470	20.0	21.6	
91 1,1,1,2-Tetrachloroethane	131	6.031	6.038	-0.007	93	127622	20.0	22.4	
92 m-Xylene & p-Xylene	91	6.129	6.135	-0.006	0	477852	20.0	21.9	
93 o-Xylene	91	6.488	6.494	-0.006	94	482696	20.0	22.0	
94 Styrene	104	6.518	6.525	-0.007	96	401950	20.0	21.9	
95 Bromoform	173	6.707	6.707	0.000	97	70813	20.0	23.0	
96 Isopropylbenzene	105	6.810	6.817	-0.007	96	632870	20.0	22.9	
97 Cyclohexanone	55	6.974	6.975	-0.001	92	26926	200.0	175.9	
98 Bromobenzene	77	7.132	7.133	-0.001	92	205400	20.0	20.9	
99 1,1,2,2-Tetrachloroethane	83	7.169	7.170	-0.001	96	114673	20.0	21.7	
100 N-Propylbenzene	91	7.199	7.200	-0.001	100	719785	20.0	22.9	
101 1,2,3-Trichloropropane	110	7.212	7.218	-0.006	95	38188	20.0	22.2	
102 trans-1,4-Dichloro-2-buten	53	7.236	7.237	-0.001	77	26652	20.0	17.6	
103 2-Chlorotoluene	91	7.303	7.310	-0.007	97	475484	20.0	22.5	
104 4-Ethyltoluene	105	7.309	7.316	-0.007	98	589971	NC	NC	
105 1,3,5-Trimethylbenzene	105	7.376	7.376	0.000	94	509349	20.0	21.2	
106 4-Chlorotoluene	91	7.412	7.419	-0.007	96	437915	20.0	22.4	
107 tert-Butylbenzene	119	7.662	7.668	-0.006	95	441472	20.0	22.4	
108 1,2,4-Trimethylbenzene	105	7.735	7.741	-0.006	97	481288	20.0	21.9	
110 sec-Butylbenzene	105	7.881	7.881	0.000	98	639707	20.0	21.9	
112 4-Isopropyltoluene	119	8.027	8.027	0.000	98	543247	20.0	22.1	
111 1,3-Dichlorobenzene	146	8.027	8.033	-0.006	97	267274	20.0	21.7	
113 Dicyclopentadiene	66	8.075	8.076	-0.001	97	609359	NC	NC	
114 1,4-Dichlorobenzene	146	8.124	8.125	-0.001	95	273634	20.0	21.8	
115 1,2,3-Trimethylbenzene	105	8.142	8.149	-0.007	98	474426	20.0	21.1	
116 Benzyl chloride	91	8.264	8.265	-0.001	99	167456	20.0	17.9	
117 n-Butylbenzene	91	8.428	8.429	-0.001	98	442424	20.0	20.9	
118 1,2-Dichlorobenzene	146	8.483	8.490	-0.007	96	239488	20.0	21.7	
119 1,2-Dibromo-3-Chloropropan	157	9.280	9.281	-0.001	94	19978	20.0	22.7	
120 1,3,5-Trichlorobenzene	180	9.438	9.439	-0.001	97	160375	20.0	20.4	
121 1,2,4-Trichlorobenzene	180	10.150	10.157	-0.007	94	121341	20.0	21.6	
122 Hexachlorobutadiene	225	10.296	10.297	-0.001	95	75296	20.0	20.7	
123 Naphthalene	128	10.460	10.467	-0.007	99	246480	20.0	26.5	
124 1,2,3-Trichlorobenzene	180	10.752	10.759	-0.007	95	100067	20.0	26.4	
125 2-Methylnaphthalene	142	11.713	11.720	-0.007	86	74793	20.0	36.1	
126 1-Methylnaphthalene	142	11.884	11.896	-0.012	93	70323	20.0	46.6	
S 148 Xylenes, Total	1				0		40.0	43.9	
S 149 1,2-Dichloroethene, Total	1				0		40.0	40.5	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

V1_Mega_I_00069

Amount Added: 20.00

Units: uL

V1_gases_I_00210

Amount Added: 20.00

Units: uL

VOA_ISSS150_W_00015

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061735.D

Injection Date: 07-May-2017 03:29:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: lcsd

Worklist Smp#: 4

Client ID:

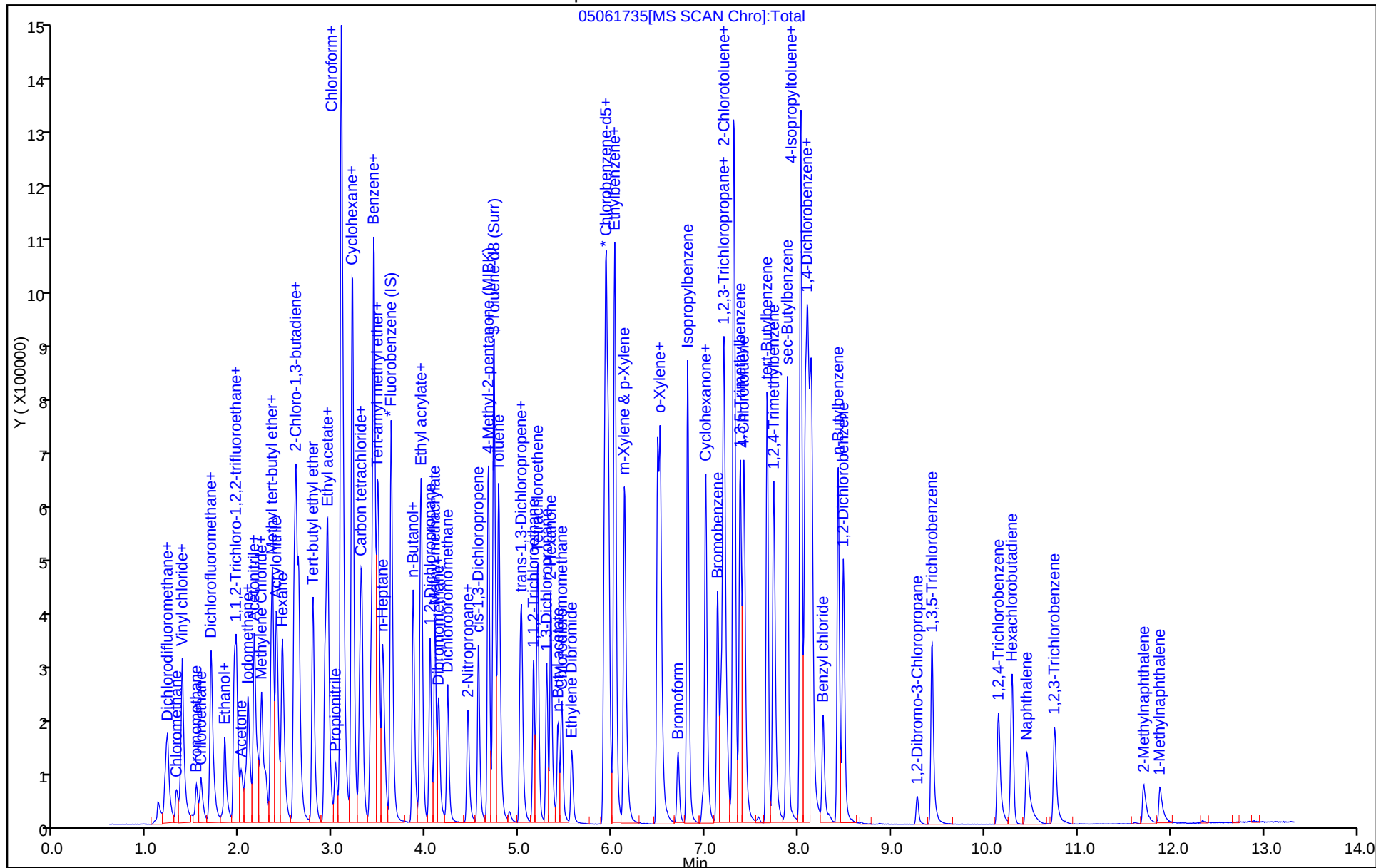
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 45

Method: 8260HP33

Limit Group: MSV 8260C ICAL



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 490-428184/4

Matrix: Water Lab File ID: 05081704.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 10 (mL) Date Analyzed: 05/08/2017 11:52

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.: 428184 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	24.6		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	22.2		1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	22.6		1.0	0.15
79-00-5	1,1,2-Trichloroethane	21.8		1.0	0.19
75-34-3	1,1-Dichloroethane	21.0		1.0	0.24
75-35-4	1,1-Dichloroethene	21.4		1.0	0.25
120-82-1	1,2,4-Trichlorobenzene	19.5		1.0	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	19.6		10	0.94
95-50-1	1,2-Dichlorobenzene	23.4		1.0	0.19
107-06-2	1,2-Dichloroethane	22.0		1.0	0.20
78-87-5	1,2-Dichloropropane	20.9		1.0	0.25
541-73-1	1,3-Dichlorobenzene	23.7		1.0	0.18
106-46-7	1,4-Dichlorobenzene	23.0		1.0	0.17
78-93-3	2-Butanone (MEK)	101		50	2.6
591-78-6	2-Hexanone	95.2		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	95.9		10	0.81
67-64-1	Acetone	104		25	2.7
71-43-2	Benzene	22.2		1.0	0.20
75-25-2	Bromoform	21.6		1.0	0.29
74-83-9	Bromomethane	23.2		1.0	0.35
75-15-0	Carbon disulfide	22.1		1.0	0.22
56-23-5	Carbon tetrachloride	24.9		1.0	0.18
108-90-7	Chlorobenzene	22.5		1.0	0.18
124-48-1	Dibromochloromethane	22.3		1.0	0.25
75-00-3	Chloroethane	19.2		1.0	0.36
67-66-3	Chloroform	22.5		1.0	0.23
74-87-3	Chloromethane	20.0		1.0	0.36
156-59-2	cis-1,2-Dichloroethene	22.1		1.0	0.21
110-82-7	Cyclohexane	22.0		5.0	0.13
75-27-4	Bromodichloromethane	23.2		1.0	0.17
75-71-8	Dichlorodifluoromethane	20.8		1.0	0.17
100-41-4	Ethylbenzene	22.6		1.0	0.19
106-93-4	1,2-Dibromoethane	22.1		1.0	0.21
98-82-8	Isopropylbenzene	23.1		1.0	0.33
79-20-9	Methyl acetate	35.2		10	0.58

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 490-428184/4
 Matrix: Water Lab File ID: 05081704.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 10 (mL) Date Analyzed: 05/08/2017 11:52
 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.: 428184 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	21.2		1.0	0.17
108-87-2	Methylcyclohexane	23.2		5.0	0.090
75-09-2	Methylene Chloride	22.1		5.0	1.0
127-18-4	Tetrachloroethene	22.7		1.0	0.14
108-88-3	Toluene	22.1		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	21.4		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	22.0		1.0	0.17
79-01-6	Trichloroethene	22.3		1.0	0.20
75-69-4	Trichlorofluoromethane	24.9		1.0	0.21
75-01-4	Vinyl chloride	19.4		1.0	0.18
1330-20-7	Xylenes, Total	46.2		3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	23.0		1.0	0.17
100-42-5	Styrene	23.6		1.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-130
460-00-4	4-Bromofluorobenzene (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP39\20170508-90599.b\05081704.D
 Lims ID: lcsd
 Client ID:
 Sample Type: LCSD
 Inject. Date: 08-May-2017 11:52:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 10.000 mL Dil. Factor: 1.0000
 Sample Info: LCSD
 Misc. Info.: 490-0090599-004
 Operator ID: MJH HP-39 Instrument ID: HP39
 Method: \\ChromNA\Nashville\ChromData\HP39\20170508-90599.b\8260HP39.m
 Limit Group: MSV 8260C ICAL
 Method Label: 8260B Volatile Organics 8260/SA/NV05-90
 Last Update: 09-May-2017 10:48:16 Calib Date: 16-Mar-2017 21:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161714.D

Column 1 : Det: MS SCAN

Process Host: XAWRK030

First Level Reviewer: khanphomeea

Date: 09-May-2017 10:50:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.359	4.353	0.006	99	1130636	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.774	6.768	0.006	83	904825	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.934	8.934	0.000	78	533621	25.0	25.0	
\$ 4 Dibromofluoromethane (Surr	111	3.915	3.909	0.006	94	264668	25.0	24.8	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.159	4.152	0.007	90	246059	25.0	25.6	
\$ 6 Toluene-d8 (Surr)	98	5.533	5.533	0.000	92	1076833	25.0	24.1	
\$ 7 4-Bromofluorobenzene (Surr	95	7.839	7.833	0.006	95	405968	25.0	23.9	
9 Propene	41	1.403	1.403	0.000	100	162677	NC	NC	
10 Dichlorodifluoromethane	85	1.427	1.427	0.000	99	270287	20.0	20.8	
11 Chloromethane	50	1.579	1.579	0.000	99	252262	20.0	20.0	
12 Vinyl chloride	62	1.646	1.646	0.000	98	283995	20.0	19.4	
13 Butadiene	54	1.670	1.670	0.000	97	282913	20.0	20.0	
14 Bromomethane	96	1.889	1.883	0.006	90	163025	20.0	23.2	
15 Chloroethane	64	1.950	1.950	0.000	99	194078	20.0	19.2	
16 Dichlorofluoromethane	67	2.078	2.078	0.000	98	471162	20.0	20.2	
17 Trichlorofluoromethane	101	2.102	2.102	0.000	98	479511	20.0	24.9	
18 Ethanol	46	2.254	2.248	0.006	100	20025	800.0	763.0	
19 Ethyl ether	59	2.279	2.272	0.007	87	160317	20.0	21.2	
21 1,1,2-Trichloro-1,2,2-trif	101	2.406	2.406	0.000	90	261674	20.0	22.6	
20 Acrolein	56	2.413	2.412	0.001	35	45422	49.4	62.7	
22 1,1-Dichloroethene	96	2.443	2.443	0.000	96	264016	20.0	21.4	
23 Acetone	58	2.510	2.504	0.006	100	54444	100.0	104.4	
24 Iodomethane	142	2.571	2.564	0.007	97	349236	20.0	19.0	
26 Isopropyl alcohol	45	2.583	2.583	0.000	99	53276	200.0	174.9	
27 Carbon disulfide	76	2.607	2.607	0.000	99	745602	20.0	22.1	
29 3-Chloro-1-propene	76	2.680	2.674	0.006	55	212377	20.0	20.5	
30 Methyl acetate	43	2.686	2.686	0.000	96	165907	40.0	35.2	
28 Acetonitrile	40	2.717	2.710	0.007	87	82302	200.0	139.7	
31 Methylene Chloride	84	2.771	2.771	0.000	87	283545	20.0	22.1	
32 2-Methyl-2-propanol	59	2.832	2.826	0.006	100	91048	200.0	181.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Methyl tert-butyl ether	73	2.893	2.893	0.000	94	508022	20.0	21.2	
34 trans-1,2-Dichloroethene	61	2.924	2.917	0.007	95	351385	20.0	21.4	
33 Acrylonitrile	53	2.954	2.954	0.000	98	455468	200.0	194.4	
36 Hexane	57	3.033	3.033	0.000	90	376855	20.0	23.1	
39 Isopropyl ether	45	3.173	3.173	0.000	94	721071	20.0	19.7	
38 Vinyl acetate	86	3.209	3.203	0.006	96	84857	40.0	48.8	
37 1,1-Dichloroethane	63	3.203	3.203	0.000	76	475609	20.0	21.0	
40 2-Chloro-1,3-butadiene	53	3.246	3.240	0.006	99	401630	20.0	23.0	
41 Tert-butyl ethyl ether	59	3.404	3.404	0.000	96	651512	20.0	20.7	
43 2,2-Dichloropropane	77	3.568	3.568	0.000	88	430497	20.0	22.9	
42 cis-1,2-Dichloroethene	96	3.587	3.587	0.000	81	332051	20.0	22.1	
45 Ethyl acetate	70	3.593	3.593	0.000	48	30738	40.0	38.6	
44 2-Butanone (MEK)	72	3.599	3.599	0.000	97	77761	100.0	101.0	
46 Propionitrile	54	3.690	3.684	0.006	87	173384	200.0	198.3	
47 Methacrylonitrile	41	3.763	3.757	0.006	96	768571	200.0	186.0	
48 Chlorobromomethane	130	3.763	3.763	0.000	74	172650	20.0	21.2	
49 Tetrahydrofuran	42	3.781	3.775	0.006	80	88026	40.0	37.0	
50 Chloroform	83	3.794	3.793	0.001	94	465448	20.0	22.5	
51 1,1,1-Trichloroethane	97	3.903	3.897	0.006	97	446304	20.0	24.6	
52 Cyclohexane	56	3.909	3.909	0.000	86	455377	20.0	22.0	
54 Carbon tetrachloride	117	4.000	4.000	0.000	97	407788	20.0	24.9	
53 1,1-Dichloropropene	75	4.006	4.006	0.000	98	397132	20.0	23.1	
55 Isobutyl alcohol	43	4.104	4.122	-0.018	99	230832	500.0	481.0	
56 t-Amyl alcohol	59	4.159	4.158	0.001	50	89544	200.0	180.8	
57 Benzene	78	4.171	4.164	0.007	96	1184394	20.0	22.2	
59 Tert-amyl methyl ether	73	4.189	4.183	0.006	98	660661	20.0	20.6	
58 1,2-Dichloroethane	62	4.213	4.207	0.006	98	276734	20.0	22.0	
60 n-Heptane	43	4.244	4.244	0.000	94	310057	20.0	22.6	
61 n-Butanol	56	4.572	4.572	0.000	86	66381	500.0	425.1	
62 Trichloroethene	130	4.615	4.609	0.006	96	343649	20.0	22.3	
63 Ethyl acrylate	55	4.663	4.663	0.000	100	178304	20.0	19.5	
64 Methylcyclohexane	83	4.712	4.712	0.000	85	521507	20.0	23.2	
65 1,2-Dichloropropane	63	4.809	4.809	0.000	94	264560	20.0	20.9	
66 Methyl methacrylate	41	4.840	4.834	0.006	93	255109	40.0	37.5	
68 1,4-Dioxane	88	4.913	4.913	0.000	35	25012	400.0	383.9	
67 Dibromomethane	93	4.925	4.919	0.006	91	126706	20.0	21.6	
69 Dichlorobromomethane	83	5.022	5.016	0.006	99	359634	20.0	23.2	
71 2-Chloroethyl vinyl ether	63	5.217	5.211	0.006	87	90711	20.0	19.1	
70 2-Nitropropane	43	5.217	5.217	0.000	84	127845	40.0	47.9	
72 cis-1,3-Dichloropropene	75	5.345	5.345	0.000	97	412326	20.0	23.0	
73 4-Methyl-2-pentanone (MIBK)	58	5.448	5.448	0.000	95	247267	100.0	95.9	
74 Toluene	91	5.588	5.588	0.000	99	1314960	20.0	22.1	
75 trans-1,3-Dichloropropene	75	5.801	5.795	0.006	96	332634	20.0	22.0	
76 Ethyl methacrylate	69	5.807	5.807	0.000	87	226265	20.0	19.7	
77 1,1,2-Trichloroethane	97	5.965	5.965	0.000	90	195416	20.0	21.8	
78 Tetrachloroethene	166	6.026	6.026	0.000	98	382873	20.0	22.7	
79 1,3-Dichloropropane	76	6.105	6.105	0.000	88	336041	20.0	21.6	
80 2-Hexanone	58	6.136	6.129	0.007	93	229874	100.0	95.2	
81 n-Butyl acetate	43	6.197	6.196	0.001	95	213512	20.0	18.5	
82 Chlorodibromomethane	127	6.306	6.306	0.000	89	185140	20.0	22.3	
83 Ethylene Dibromide	107	6.416	6.409	0.007	99	188898	20.0	22.1	
84 1-Chlorohexane	91	6.720	6.713	0.007	94	434835	20.0	22.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 Chlorobenzene	112	6.799	6.799	0.000	96	883914	20.0	22.5	
87 Ethylbenzene	91	6.854	6.853	0.001	97	1468188	20.0	22.6	
86 1,1,1,2-Tetrachloroethane	131	6.872	6.866	0.006	94	310785	20.0	22.9	
88 m-Xylene & p-Xylene	91	6.957	6.957	0.000	100	1154833	20.0	23.1	
89 o-Xylene	91	7.328	7.322	0.006	95	1176095	20.0	23.1	
90 Styrene	104	7.352	7.346	0.006	94	990171	20.0	23.6	
91 Bromoform	173	7.584	7.583	0.001	98	144028	20.0	21.6	
92 Isopropylbenzene	105	7.644	7.644	0.000	95	1455204	20.0	23.1	
93 Cyclohexanone	55	7.839	7.833	0.006	43	52994	200.0	252.8	
94 Bromobenzene	156	7.991	7.985	0.006	87	397313	20.0	23.1	
95 1,1,2,2-Tetrachloroethane	83	8.009	8.009	0.000	94	206503	20.0	22.2	
98 N-Propylbenzene	91	8.034	8.028	0.006	99	1750985	20.0	23.2	
97 trans-1,4-Dichloro-2-buten	53	8.052	8.046	0.006	72	58190	20.0	24.7	
96 1,2,3-Trichloropropane	110	8.052	8.052	0.000	83	67179	20.0	20.8	
100 4-Ethyltoluene	105	8.137	8.131	0.006	96	1547672	NC	NC	
99 2-Chlorotoluene	91	8.143	8.143	0.000	97	1238698	20.0	23.6	
101 1,3,5-Trimethylbenzene	105	8.192	8.192	0.000	96	1294487	20.0	23.7	
102 4-Chlorotoluene	91	8.253	8.253	0.000	96	1120996	20.0	23.7	
103 tert-Butylbenzene	119	8.502	8.502	0.000	91	1063334	20.0	22.6	
104 1,2,4-Trimethylbenzene	105	8.557	8.557	0.000	96	1272258	20.0	23.3	
106 sec-Butylbenzene	105	8.709	8.709	0.000	94	1463702	20.0	23.2	
108 4-Isopropyltoluene	119	8.849	8.843	0.006	97	1284674	20.0	23.1	
107 1,3-Dichlorobenzene	146	8.873	8.867	0.006	98	763256	20.0	23.7	
110 Dicyclopentadiene	66	8.934	8.934	0.000	86	1297102	NC	NC	
109 1,4-Dichlorobenzene	146	8.958	8.958	0.000	95	747662	20.0	23.0	
111 1,2,3-Trimethylbenzene	105	8.977	8.977	0.000	100	1232583	20.0	23.2	
112 Benzyl chloride	91	9.104	9.104	0.000	99	406401	20.0	27.4	
114 n-Butylbenzene	91	9.250	9.250	0.000	97	1013936	20.0	24.3	
113 1,2-Dichlorobenzene	146	9.336	9.329	0.007	99	647752	20.0	23.4	
115 1,2-Dibromo-3-Chloropropan	157	10.212	10.212	0.000	92	37150	20.0	19.6	
116 1,3,5-Trichlorobenzene	180	10.388	10.382	0.006	97	385937	20.0	21.1	
117 1,2,4-Trichlorobenzene	180	11.124	11.118	0.006	94	285141	20.0	19.5	
118 Hexachlorobutadiene	225	11.246	11.246	0.000	96	173408	20.0	24.0	
119 Naphthalene	128	11.398	11.398	0.000	96	503157	20.0	19.1	
120 1,2,3-Trichlorobenzene	180	11.647	11.641	0.006	96	242243	20.0	19.5	
121 2-Methylnaphthalene	142	12.475	12.475	0.000	93	202086	20.0	13.6	
122 1-Methylnaphthalene	142	12.657	12.657	0.000	93	153173	20.0	13.6	
S 136 1,2-Dichloroethene, Total	1				0		40.0	43.5	
S 135 Xylenes, Total	1				0		40.0	46.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

V1_gases_I_00210

Amount Added: 100.00

Units: uL

V1_Mega_I_00070

Amount Added: 100.00

Units: uL

VOA_ISSS_50_W_00040

Amount Added: 5.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP39\\20170508-90599.b\\05081704.D

Injection Date: 08-May-2017 11:52:30

Instrument ID: HP39

Operator ID: MJH HP-39

Lims ID: lcsd

Worklist Smp#: 4

Client ID:

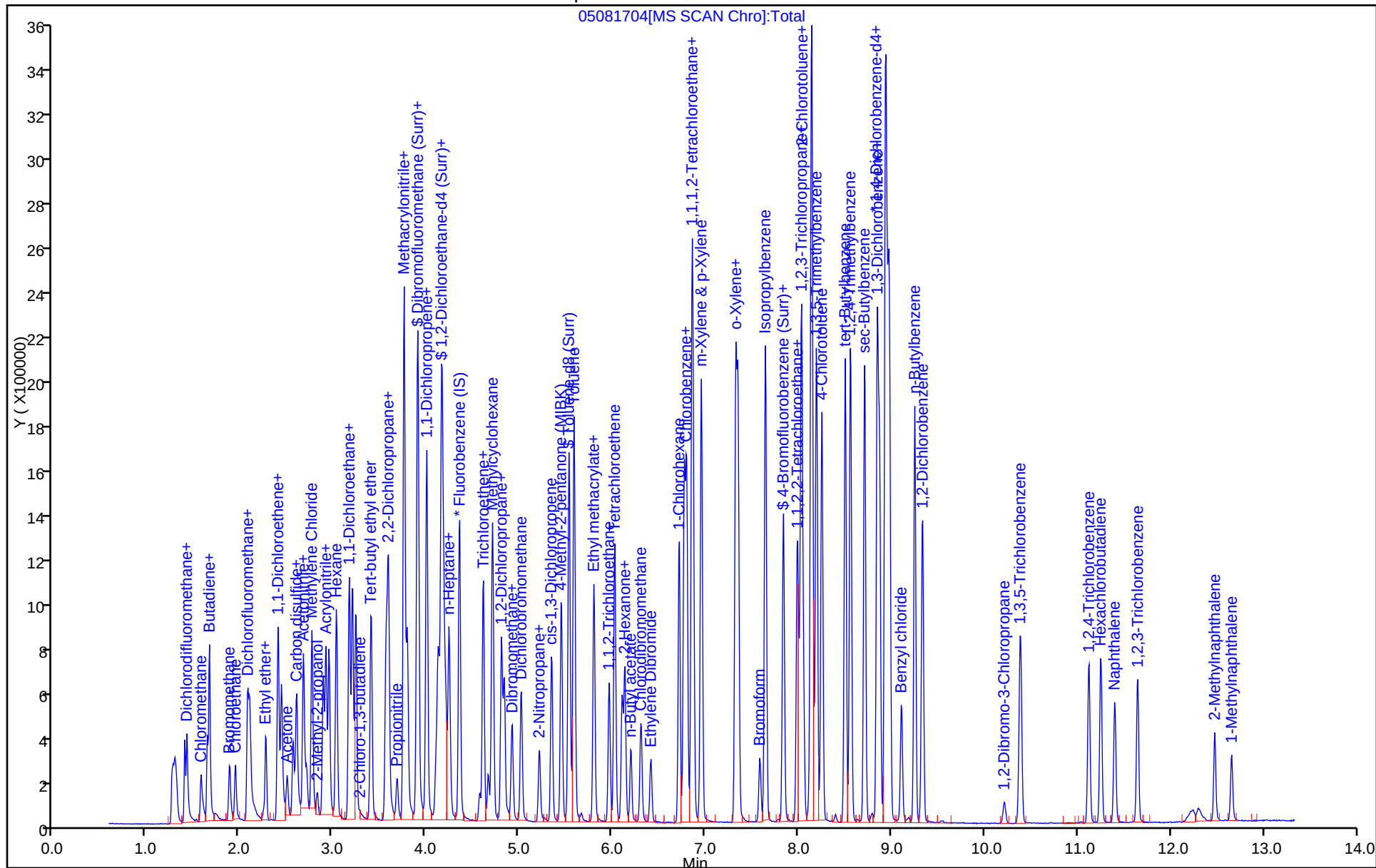
Purge Vol: 10.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 8260HP39

Limit Group: MSV 8260C ICAL



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 490-428592/4

Matrix: Water Lab File ID: 05091704.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 05/09/2017 11:27

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.: 428592 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	21.2		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	20.4		1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20.6		1.0	0.15
79-00-5	1,1,2-Trichloroethane	18.7		1.0	0.19
75-34-3	1,1-Dichloroethane	18.6		1.0	0.24
75-35-4	1,1-Dichloroethene	19.5		1.0	0.25
120-82-1	1,2,4-Trichlorobenzene	20.8		1.0	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	23.8		10	0.94
95-50-1	1,2-Dichlorobenzene	19.8		1.0	0.19
107-06-2	1,2-Dichloroethane	21.0		1.0	0.20
78-87-5	1,2-Dichloropropane	18.1		1.0	0.25
541-73-1	1,3-Dichlorobenzene	19.7		1.0	0.18
106-46-7	1,4-Dichlorobenzene	19.5		1.0	0.17
78-93-3	2-Butanone (MEK)	98.6		50	2.6
591-78-6	2-Hexanone	95.3		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	87.7		10	0.81
67-64-1	Acetone	85.3		25	2.7
71-43-2	Benzene	18.9		1.0	0.20
75-25-2	Bromoform	22.8		1.0	0.29
74-83-9	Bromomethane	19.9		1.0	0.35
75-15-0	Carbon disulfide	18.6		1.0	0.22
56-23-5	Carbon tetrachloride	22.3		1.0	0.18
108-90-7	Chlorobenzene	19.6		1.0	0.18
124-48-1	Dibromochloromethane	21.5		1.0	0.25
75-00-3	Chloroethane	18.5		1.0	0.36
67-66-3	Chloroform	19.8		1.0	0.23
74-87-3	Chloromethane	12.3		1.0	0.36
156-59-2	cis-1,2-Dichloroethene	19.5		1.0	0.21
110-82-7	Cyclohexane	18.5		5.0	0.13
75-27-4	Bromodichloromethane	22.6		1.0	0.17
75-71-8	Dichlorodifluoromethane	26.0		1.0	0.17
100-41-4	Ethylbenzene	19.6		1.0	0.19
106-93-4	1,2-Dibromoethane	20.0		1.0	0.21
98-82-8	Isopropylbenzene	20.2		1.0	0.33
79-20-9	Methyl acetate	34.9		10	0.58

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 490-428592/4
 Matrix: Water Lab File ID: 05091704.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 05/09/2017 11:27
 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.: 428592 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	20.2		1.0	0.17
108-87-2	Methylcyclohexane	19.1		5.0	0.090
75-09-2	Methylene Chloride	17.2		5.0	1.0
127-18-4	Tetrachloroethene	20.0		1.0	0.14
108-88-3	Toluene	16.7		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	18.6		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	18.2		1.0	0.17
79-01-6	Trichloroethene	19.8		1.0	0.20
75-69-4	Trichlorofluoromethane	24.1		1.0	0.21
75-01-4	Vinyl chloride	18.2		1.0	0.18
1330-20-7	Xylenes, Total	39.1		3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	17.5		1.0	0.17
100-42-5	Styrene	19.5		1.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		70-130
460-00-4	4-Bromofluorobenzene (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	89		70-130
1868-53-7	Dibromofluoromethane (Surr)	100		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20170509-90669.b\05091704.D
 Lims ID: lcsd
 Client ID:
 Sample Type: LCSD
 Inject. Date: 09-May-2017 11:27:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCSD
 Misc. Info.: 490-0090669-004
 Operator ID: JJR Instrument ID: HP33
 Method: \\ChromNA\Nashville\ChromData\HP33\20170509-90669.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 10-May-2017 10:17:05 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: chumongkolratn Date: 10-May-2017 10:25:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.619	3.623	-0.004	98	933925	30.0	30.0	
* 2 Chlorobenzene-d5	117	5.931	5.929	0.003	86	761802	30.0	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.096	8.094	0.002	95	360125	30.0	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.205	3.209	-0.004	97	234580	30.0	30.0	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.436	3.434	0.002	0	281446	30.0	32.4	
\$ 7 Toluene-d8 (Surr)	98	4.720	4.724	-0.004	99	895116	30.0	26.6	
\$ 8 4-Bromofluorobenzene (Surr	95	7.001	6.999	0.002	95	325888	30.0	28.8	
11 Propene	41	1.192	1.196	-0.004	96	37814	NC	NC	
12 Dichlorodifluoromethane	85	1.210	1.214	-0.004	99	122827	20.0	26.0	
13 Chloromethane	50	1.307	1.311	-0.004	100	102311	20.0	12.3	
14 Vinyl chloride	62	1.356	1.360	-0.004	98	168226	20.0	18.2	
15 Butadiene	54	1.374	1.378	-0.004	97	167789	20.0	17.9	
16 Bromomethane	96	1.526	1.524	0.002	99	78772	20.0	19.9	
17 Chloroethane	64	1.575	1.573	0.002	99	111367	20.0	18.5	
18 Dichlorofluoromethane	67	1.678	1.676	0.002	98	274492	20.0	19.7	
19 Trichlorofluoromethane	101	1.684	1.688	-0.004	98	255290	20.0	24.1	
20 Ethanol	46	1.824	1.816	0.008	78	22586	800.0	649.6	
21 Ethyl ether	59	1.830	1.828	0.002	92	126153	20.0	18.2	
22 1,1,2-Trichloro-1,2,2-trif	101	1.928	1.932	-0.004	96	151982	20.0	20.6	
23 Acrolein	56	1.940	1.944	-0.004	31	19317	49.4	55.6	
24 1,1-Dichloroethene	96	1.952	1.956	-0.004	97	133048	20.0	19.5	
25 Acetone	58	2.007	2.017	-0.010	86	57676	100.0	85.3	
26 Iodomethane	142	2.049	2.053	-0.004	98	138204	20.0	16.3	
27 Isopropyl alcohol	45	2.074	2.078	-0.004	29	72195	200.0	191.3	
28 Carbon disulfide	76	2.080	2.084	-0.004	100	400813	20.0	18.6	
32 Acetonitrile	41	2.141	2.145	-0.004	70	176504	NC	NC	
30 3-Chloro-1-propene	76	2.141	2.145	-0.004	84	133396	20.0	17.6	
31 Methyl acetate	43	2.153	2.157	-0.004	99	192499	40.0	34.9	
33 Methylene Chloride	84	2.226	2.230	-0.004	92	153511	20.0	17.2	
34 2-Methyl-2-propanol	59	2.268	2.272	-0.004	99	104351	200.0	174.7	
35 Methyl tert-butyl ether	73	2.329	2.333	-0.004	97	437478	20.0	20.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 trans-1,2-Dichloroethene	61	2.341	2.345	-0.004	94	205734	20.0	18.6	
37 Acrylonitrile	53	2.384	2.388	-0.004	94	490099	200.0	185.5	
38 Hexane	57	2.451	2.449	0.002	92	240399	20.0	18.0	
39 Isopropyl ether	45	2.579	2.577	0.003	92	486243	20.0	17.0	
40 1,1-Dichloroethane	63	2.591	2.589	0.002	99	270411	20.0	18.6	
41 Vinyl acetate	86	2.603	2.601	0.002	99	71756	40.0	37.8	
42 2-Chloro-1,3-butadiene	53	2.627	2.625	0.002	94	246580	20.0	18.6	
43 Tert-butyl ethyl ether	59	2.779	2.777	0.002	89	469958	20.0	18.6	
44 2,2-Dichloropropane	77	2.907	2.911	-0.004	95	236418	20.0	21.1	
45 cis-1,2-Dichloroethene	96	2.925	2.929	-0.004	95	168852	20.0	19.5	
47 2-Butanone (MEK)	72	2.938	2.942	-0.004	96	81407	100.0	98.6	
46 Ethyl acetate	70	2.938	2.942	-0.004	93	31461	40.0	37.0	
48 Propionitrile	54	3.023	3.021	0.002	98	181740	200.0	179.1	
49 Chlorobromomethane	130	3.071	3.075	-0.004	84	93749	20.0	19.0	
51 Tetrahydrofuran	42	3.084	3.081	0.003	41	100964	40.0	34.8	
50 Methacrylonitrile	41	3.084	3.081	0.003	92	848332	200.0	180.5	
52 Chloroform	83	3.102	3.106	-0.004	98	263491	20.0	19.8	
53 Cyclohexane	56	3.199	3.197	0.002	91	287487	20.0	18.5	
54 1,1,1-Trichloroethane	97	3.199	3.203	-0.004	92	238895	20.0	21.2	
56 Carbon tetrachloride	117	3.284	3.282	0.002	97	209049	20.0	22.3	
57 1,1-Dichloropropene	75	3.303	3.300	0.003	95	213752	20.0	19.8	
58 Isobutyl alcohol	43	3.406	3.404	0.002	81	183896	500.0	353.8	
59 Benzene	78	3.430	3.434	-0.004	97	627435	20.0	18.9	
60 t-Amyl alcohol	59	3.443	3.446	-0.003	72	100509	200.0	192.6	
61 Tert-amyl methyl ether	73	3.473	3.471	0.002	98	512563	20.0	20.0	
62 1,2-Dichloroethane	62	3.485	3.483	0.002	97	212998	20.0	21.0	
63 n-Heptane	43	3.528	3.532	-0.004	87	223714	20.0	16.0	
64 n-Butanol	56	3.850	3.854	-0.004	38	61976	500.0	393.0	
65 Trichloroethene	130	3.856	3.854	0.002	96	168773	20.0	19.8	
66 Ethyl acrylate	55	3.935	3.933	0.002	97	406117	20.0	18.4	
67 Methylcyclohexane	83	3.941	3.945	-0.004	89	300601	20.0	19.1	
68 1,2-Dichloropropane	63	4.039	4.037	0.002	87	153138	20.0	18.1	
69 Methyl methacrylate	41	4.087	4.091	-0.004	86	264421	40.0	32.5	
70 Dibromomethane	93	4.130	4.128	0.002	93	91955	20.0	20.7	
71 1,4-Dioxane	88	4.142	4.140	0.002	30	25383	400.0	340.4	
73 Dichlorobromomethane	83	4.227	4.225	0.002	99	206523	20.0	22.6	
74 2-Nitropropane	43	4.440	4.444	-0.004	87	118351	40.0	29.2	
75 2-Chloroethyl vinyl ether	63	4.446	4.450	-0.004	86	82182	20.0	15.5	
76 cis-1,3-Dichloropropene	75	4.556	4.560	-0.004	95	245760	20.0	17.5	
77 4-Methyl-2-pentanone (MIBK)	58	4.665	4.663	0.002	96	268502	100.0	87.7	
78 Toluene	91	4.775	4.773	0.002	94	635721	20.0	16.7	
79 trans-1,3-Dichloropropene	75	5.006	5.004	0.002	98	214667	20.0	18.2	
80 Ethyl methacrylate	69	5.024	5.022	0.002	89	189777	20.0	17.4	
81 1,1,2-Trichloroethane	97	5.152	5.150	0.002	93	134104	20.0	18.7	
82 Tetrachloroethene	166	5.195	5.192	0.003	97	197835	20.0	20.0	
83 1,3-Dichloropropane	76	5.292	5.290	0.002	93	233096	20.0	18.8	
84 2-Hexanone	58	5.335	5.332	0.002	96	237367	100.0	95.3	
85 n-Butyl acetate	43	5.408	5.411	-0.003	98	211672	20.0	19.2	
86 Chlorodibromomethane	127	5.450	5.454	-0.004	98	119893	20.0	21.5	
87 Ethylene Dibromide	107	5.560	5.557	0.003	99	135496	20.0	20.0	
88 1-Chlorohexane	91	5.912	5.910	0.002	87	239779	20.0	21.0	
89 Chlorobenzene	112	5.955	5.953	0.002	95	463959	20.0	19.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
90 Ethylbenzene	91	6.016	6.020	-0.004	98	785567	20.0	19.6	
91 1,1,1,2-Tetrachloroethane	131	6.028	6.032	-0.004	94	167033	20.0	20.7	
92 m-Xylene & p-Xylene	91	6.125	6.129	-0.004	0	608766	20.0	19.7	
93 o-Xylene	91	6.484	6.482	0.002	94	605243	20.0	19.4	
94 Styrene	104	6.509	6.513	-0.004	96	507163	20.0	19.5	
95 Bromoform	173	6.703	6.701	0.002	98	99568	20.0	22.8	
96 Isopropylbenzene	105	6.807	6.805	0.002	96	791886	20.0	20.2	
97 Cyclohexanone	55	6.971	6.969	0.002	93	34471	200.0	165.1	
98 Bromobenzene	77	7.123	7.127	-0.004	92	262571	20.0	18.2	
99 1,1,2,2-Tetrachloroethane	83	7.166	7.170	-0.004	96	158268	20.0	20.4	
100 N-Propylbenzene	91	7.190	7.194	-0.004	100	918887	20.0	19.9	
101 1,2,3-Trichloropropane	110	7.208	7.206	0.002	95	52915	20.0	20.9	
102 trans-1,4-Dichloro-2-buten	53	7.233	7.230	0.003	69	41946	20.0	18.8	
103 2-Chlorotoluene	91	7.299	7.297	0.002	97	603231	20.0	19.4	
104 4-Ethyltoluene	105	7.306	7.303	0.003	97	765014	NC	NC	
105 1,3,5-Trimethylbenzene	105	7.372	7.370	0.002	94	676515	20.0	19.2	
106 4-Chlorotoluene	91	7.409	7.413	-0.004	96	558271	20.0	19.5	
107 tert-Butylbenzene	119	7.658	7.662	-0.004	95	562857	20.0	19.5	
108 1,2,4-Trimethylbenzene	105	7.731	7.729	0.002	97	631023	20.0	19.6	
110 sec-Butylbenzene	105	7.877	7.875	0.002	98	815550	20.0	19.0	
112 4-Isopropyltoluene	119	8.017	8.021	-0.004	97	699102	20.0	19.4	
111 1,3-Dichlorobenzene	146	8.023	8.027	-0.004	98	355896	20.0	19.7	
113 Dicyclopentadiene	66	8.072	8.070	0.002	96	785292	NC	NC	
114 1,4-Dichlorobenzene	146	8.115	8.119	-0.004	96	359152	20.0	19.5	
115 1,2,3-Trimethylbenzene	105	8.139	8.137	0.002	98	624634	20.0	18.9	
116 Benzyl chloride	91	8.261	8.258	0.003	99	281536	20.0	21.2	
117 n-Butylbenzene	91	8.425	8.423	0.002	98	583267	20.0	18.8	
118 1,2-Dichlorobenzene	146	8.480	8.484	-0.004	96	320716	20.0	19.8	
119 1,2-Dibromo-3-Chloropropan	157	9.271	9.274	-0.004	94	30726	20.0	23.8	
120 1,3,5-Trichlorobenzene	180	9.429	9.433	-0.004	98	217528	20.0	18.9	
121 1,2,4-Trichlorobenzene	180	10.147	10.150	-0.003	94	171416	20.0	20.8	
122 Hexachlorobutadiene	225	10.293	10.296	-0.003	96	104121	20.0	19.5	
123 Naphthalene	128	10.451	10.455	-0.004	99	374772	20.0	27.5	
124 1,2,3-Trichlorobenzene	180	10.749	10.753	-0.004	95	147880	20.0	26.6	
125 2-Methylnaphthalene	142	11.704	11.708	-0.004	86	127374	20.0	41.9	
126 1-Methylnaphthalene	142	11.880	11.884	-0.004	94	108187	20.0	48.8	
S 148 Xylenes, Total	1				0		40.0	39.2	
S 149 1,2-Dichloroethene, Total	1				0		40.0	38.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

V1_Mega_I_00070

Amount Added: 20.00

Units: uL

V1_gases_I_00210

Amount Added: 20.00

Units: uL

VOA_ISSS150_W_00015

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170509-90669.b\\05091704.D

Injection Date: 09-May-2017 11:27:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: lcsd

Worklist Smp#: 4

Client ID:

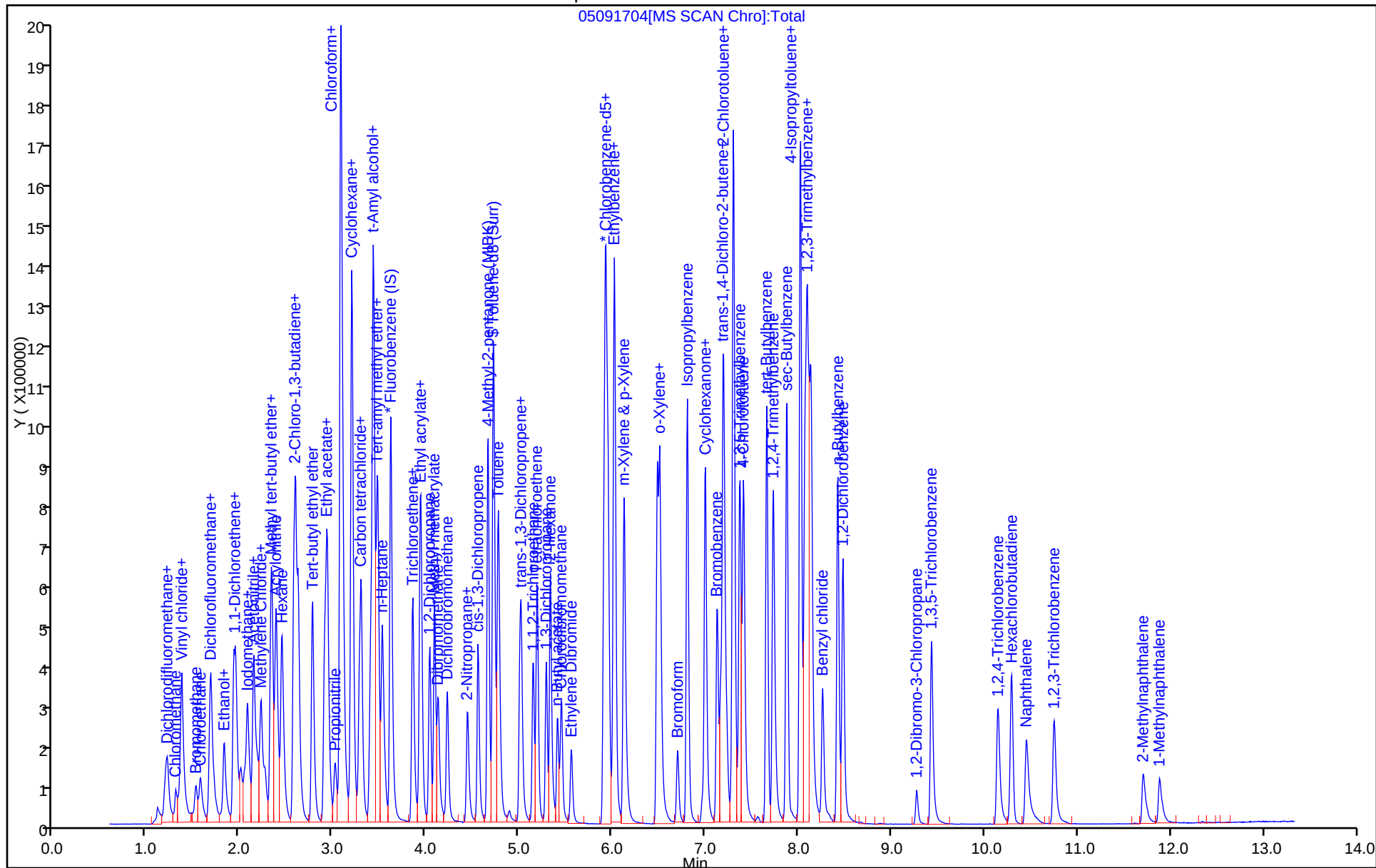
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 8260HP33

Limit Group: MSV 8260C ICAL



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Nashville</u>	Job No.: <u>480-117063-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-1 MS</u>	Lab Sample ID: <u>480-117063-1 MS</u>
Matrix: <u>Water</u>	Lab File ID: <u>05061757.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/26/2017 08:45</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>05/07/2017 13:24</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>428030</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	22.2		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	20.9		1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20.1		1.0	0.15
79-00-5	1,1,2-Trichloroethane	18.4		1.0	0.19
75-34-3	1,1-Dichloroethane	19.1		1.0	0.24
75-35-4	1,1-Dichloroethene	20.0		1.0	0.25
120-82-1	1,2,4-Trichlorobenzene	17.3		1.0	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	21.1		10	0.94
95-50-1	1,2-Dichlorobenzene	20.5		1.0	0.19
107-06-2	1,2-Dichloroethane	20.9		1.0	0.20
78-87-5	1,2-Dichloropropane	18.6		1.0	0.25
541-73-1	1,3-Dichlorobenzene	20.0		1.0	0.18
106-46-7	1,4-Dichlorobenzene	20.7		1.0	0.17
78-93-3	2-Butanone (MEK)	97.4		50	2.6
591-78-6	2-Hexanone	96.0		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	89.3		10	0.81
67-64-1	Acetone	89.7		25	2.7
71-43-2	Benzene	19.6		1.0	0.20
75-25-2	Bromoform	21.7		1.0	0.29
74-83-9	Bromomethane	23.4		1.0	0.35
75-15-0	Carbon disulfide	18.7		1.0	0.22
56-23-5	Carbon tetrachloride	23.0		1.0	0.18
108-90-7	Chlorobenzene	20.0		1.0	0.18
124-48-1	Dibromochloromethane	21.4		1.0	0.25
75-00-3	Chloroethane	19.6		1.0	0.36
67-66-3	Chloroform	20.0		1.0	0.23
74-87-3	Chloromethane	14.3		1.0	0.36
156-59-2	cis-1,2-Dichloroethene	19.5		1.0	0.21
110-82-7	Cyclohexane	19.0		5.0	0.13
75-27-4	Bromodichloromethane	22.5		1.0	0.17
75-71-8	Dichlorodifluoromethane	15.5		1.0	0.17
100-41-4	Ethylbenzene	20.1		1.0	0.19
106-93-4	1,2-Dibromoethane	20.2		1.0	0.21
98-82-8	Isopropylbenzene	20.8		1.0	0.33
79-20-9	Methyl acetate	29.4		10	0.58

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Client Sample ID: MW-1 MS Lab Sample ID: 480-117063-1 MS
 Matrix: Water Lab File ID: 05061757.D
 Analysis Method: 8260C Date Collected: 04/26/2017 08:45
 Sample wt/vol: 5 (mL) Date Analyzed: 05/07/2017 13:24
 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.: 428030 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	19.3		1.0	0.17
108-87-2	Methylcyclohexane	19.9		5.0	0.090
75-09-2	Methylene Chloride	16.6		5.0	1.0
127-18-4	Tetrachloroethene	19.9		1.0	0.14
108-88-3	Toluene	17.9		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	19.2		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	17.5		1.0	0.17
79-01-6	Trichloroethene	20.6		1.0	0.20
75-69-4	Trichlorofluoromethane	24.5		1.0	0.21
75-01-4	Vinyl chloride	18.6		1.0	0.18
1330-20-7	Xylenes, Total	40.0		3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	16.8		1.0	0.17
100-42-5	Styrene	19.4		1.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		70-130
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	92		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\05061757.D
 Lims ID: 480-117063-A-1 MS
 Client ID: MW-1
 Sample Type: MS
 Inject. Date: 07-May-2017 13:24:30 ALS Bottle#: 67 Worklist Smp#: 26
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-117063-A-1 MS
 Misc. Info.: 490-0090567-026
 Operator ID: JJR Instrument ID: HP33
 Method: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 08-May-2017 10:29:41 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: wanguns

Date: 08-May-2017 10:32:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.623	3.635	-0.012	98	624802	30.0	30.0	
* 2 Chlorobenzene-d5	117	5.935	5.941	-0.006	87	505554	30.0	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.095	8.100	-0.005	93	231653	30.0	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.197	3.203	-0.006	97	152360	30.0	29.1	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.429	3.434	-0.005	0	190664	30.0	32.8	
\$ 7 Toluene-d8 (Surr)	98	4.730	4.736	-0.006	99	615801	30.0	27.5	
\$ 8 4-Bromofluorobenzene (Surr	95	7.000	7.005	-0.005	93	218557	30.0	30.1	
11 Propene	41	1.178	1.184	-0.006	95	21551	NC	NC	
12 Dichlorodifluoromethane	85	1.208	1.214	-0.006	99	49021	20.0	15.5	
13 Chloromethane	50	1.305	1.305	0.000	99	79714	20.0	14.3	
14 Vinyl chloride	62	1.348	1.348	0.000	99	115527	20.0	18.6	
15 Butadiene	54	1.360	1.366	-0.006	97	118588	20.0	18.9	
16 Bromomethane	96	1.512	1.518	-0.006	99	61690	20.0	23.4	
17 Chloroethane	64	1.561	1.567	-0.006	99	79196	20.0	19.6	
18 Dichlorofluoromethane	67	1.664	1.670	-0.006	98	185013	20.0	19.8	
19 Trichlorofluoromethane	101	1.677	1.676	0.000	97	173873	20.0	24.5	
20 Ethanol	46	1.798	1.816	-0.018	95	14678	800.0	630.4	
21 Ethyl ether	59	1.816	1.822	-0.006	94	79125	20.0	17.0	
22 1,1,2-Trichloro-1,2,2-trif	101	1.920	1.926	-0.006	96	99449	20.0	20.1	
23 Acrolein	56	1.926	1.932	-0.006	32	8378	49.4	36.1	
24 1,1-Dichloroethene	96	1.944	1.950	-0.006	98	91278	20.0	20.0	
25 Acetone	58	1.999	2.005	-0.006	87	40581	100.0	89.7	
26 Iodomethane	142	2.042	2.047	-0.005	98	107101	20.0	18.9	
27 Isopropyl alcohol	45	2.066	2.066	0.000	34	65739	200.0	260.3	
28 Carbon disulfide	76	2.066	2.078	-0.012	100	269917	20.0	18.7	
32 Acetonitrile	41	2.133	2.139	-0.006	71	121876	NC	NC	
30 3-Chloro-1-propene	76	2.133	2.139	-0.006	87	86651	20.0	17.1	
31 Methyl acetate	43	2.145	2.151	-0.006	98	108394	40.0	29.4	
33 Methylene Chloride	84	2.218	2.224	-0.006	93	99092	20.0	16.6	
34 2-Methyl-2-propanol	59	2.261	2.266	-0.006	97	72805	200.0	182.2	
35 Methyl tert-butyl ether	73	2.321	2.327	-0.006	97	280142	20.0	19.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 trans-1,2-Dichloroethene	61	2.334	2.339	-0.005	96	141908	20.0	19.2	
37 Acrylonitrile	53	2.376	2.382	-0.006	94	326919	200.0	185.0	
38 Hexane	57	2.461	2.473	-0.012	92	145806	20.0	16.3	
39 Isopropyl ether	45	2.583	2.589	-0.006	86	321130	20.0	16.8	
40 1,1-Dichloroethane	63	2.583	2.589	-0.006	99	185379	20.0	19.1	
41 Vinyl acetate	86	2.595	2.595	0.000	99	39968	40.0	31.5	
42 2-Chloro-1,3-butadiene	53	2.619	2.625	-0.006	94	174964	20.0	19.7	
43 Tert-butyl ethyl ether	59	2.778	2.783	-0.005	90	308190	20.0	18.2	
44 2,2-Dichloropropane	77	2.899	2.905	-0.006	95	133477	20.0	17.8	
45 cis-1,2-Dichloroethene	96	2.918	2.929	-0.011	96	113073	20.0	19.5	
47 2-Butanone (MEK)	72	2.930	2.936	-0.006	96	53822	100.0	97.4	
46 Ethyl acetate	70	2.930	2.936	-0.006	93	18162	40.0	32.0	
48 Propionitrile	54	3.009	3.015	-0.006	99	122329	200.0	180.2	
49 Chlorobromomethane	130	3.064	3.069	-0.005	89	64855	20.0	19.6	
50 Methacrylonitrile	41	3.076	3.082	-0.006	92	566417	200.0	180.1	
51 Tetrahydrofuran	42	3.076	3.082	-0.006	44	68998	40.0	35.6	
52 Chloroform	83	3.094	3.100	-0.006	98	177803	20.0	20.0	
53 Cyclohexane	56	3.191	3.197	-0.006	91	198349	20.0	19.0	
54 1,1,1-Trichloroethane	97	3.191	3.197	-0.006	90	167112	20.0	22.2	
55 tert-Butyl Formate	59	3.191	3.278	-0.087	34	2287		NC	
56 Carbon tetrachloride	117	3.276	3.282	-0.006	97	144311	20.0	23.0	
57 1,1-Dichloropropene	75	3.295	3.307	-0.012	95	149897	20.0	20.8	
58 Isobutyl alcohol	43	3.392	3.398	-0.006	93	83307	500.0	239.6	
59 Benzene	78	3.435	3.440	-0.005	96	433623	20.0	19.6	
60 t-Amyl alcohol	59	3.441	3.440	0.001	80	67580	200.0	193.6	
61 Tert-amyl methyl ether	73	3.477	3.483	-0.006	98	335799	20.0	19.6	
62 1,2-Dichloroethane	62	3.477	3.483	-0.006	96	142092	20.0	20.9	
63 n-Heptane	43	3.532	3.538	-0.006	84	138036	20.0	14.8	
64 n-Butanol	56	3.848	3.854	-0.006	38	43979	500.0	416.9	
65 Trichloroethene	130	3.854	3.860	-0.006	97	117214	20.0	20.6	
66 Ethyl acrylate	55	3.946	3.951	-0.005	98	279859	20.0	18.9	
67 Methylcyclohexane	83	3.952	3.958	-0.006	92	209548	20.0	19.9	
68 1,2-Dichloropropane	63	4.031	4.043	-0.012	87	105426	20.0	18.6	
69 Methyl methacrylate	41	4.092	4.097	-0.005	85	175750	40.0	32.3	
70 Dibromomethane	93	4.122	4.128	-0.006	96	62194	20.0	20.9	
71 1,4-Dioxane	88	4.128	4.134	-0.006	35	18138	400.0	363.5	
73 Dichlorobromomethane	83	4.219	4.225	-0.006	99	137348	20.0	22.5	
74 2-Nitropropane	43	4.432	4.444	-0.012	98	48866	40.0	18.0	
76 cis-1,3-Dichloropropene	75	4.554	4.560	-0.006	96	156020	20.0	16.8	
77 4-Methyl-2-pentanone (MIBK)	58	4.663	4.669	-0.006	97	181389	100.0	89.3	
78 Toluene	91	4.785	4.791	-0.006	94	452527	20.0	17.9	
79 trans-1,3-Dichloropropene	75	5.004	5.010	-0.006	98	137589	20.0	17.5	
80 Ethyl methacrylate	69	5.028	5.034	-0.006	88	125634	20.0	17.4	
81 1,1,2-Trichloroethane	97	5.150	5.156	-0.006	93	87487	20.0	18.4	
82 Tetrachloroethene	166	5.199	5.205	-0.006	97	130296	20.0	19.9	
83 1,3-Dichloropropane	76	5.290	5.296	-0.006	92	153779	20.0	18.7	
84 2-Hexanone	58	5.339	5.345	-0.006	96	158667	100.0	96.0	
85 n-Butyl acetate	43	5.412	5.418	-0.006	98	134240	20.0	18.2	
86 Chlorodibromomethane	127	5.448	5.460	-0.012	98	79159	20.0	21.4	
87 Ethylene Dibromide	107	5.558	5.564	-0.006	97	90828	20.0	20.2	
88 1-Chlorohexane	91	5.911	5.923	-0.012	88	163308	20.0	21.4	
89 Chlorobenzene	112	5.959	5.965	-0.006	95	314906	20.0	20.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
90 Ethylbenzene	91	6.020	6.032	-0.012	98	534278	20.0	20.1	
91 1,1,1,2-Tetrachloroethane	131	6.032	6.038	-0.006	95	111378	20.0	20.8	
92 m-Xylene & p-Xylene	91	6.130	6.135	-0.005	0	410731	20.0	20.1	
93 o-Xylene	91	6.489	6.494	-0.005	94	411884	20.0	19.9	
94 Styrene	104	6.513	6.525	-0.012	95	334169	20.0	19.4	
95 Bromoform	173	6.701	6.707	-0.006	97	62819	20.0	21.7	
96 Isopropylbenzene	105	6.811	6.817	-0.006	96	542000	20.0	20.8	
97 Cyclohexanone	55	6.969	6.975	-0.006	91	23749	200.0	170.0	
98 Bromobenzene	77	7.127	7.133	-0.006	92	177967	20.0	19.2	
99 1,1,2,2-Tetrachloroethane	83	7.170	7.170	0.000	96	104324	20.0	20.9	
100 N-Propylbenzene	91	7.194	7.200	-0.006	99	631877	20.0	21.3	
101 1,2,3-Trichloropropane	110	7.206	7.218	-0.012	95	34555	20.0	21.2	
102 trans-1,4-Dichloro-2-buten	53	7.237	7.237	0.000	76	23409	20.0	16.4	
103 2-Chlorotoluene	91	7.304	7.310	-0.006	97	412403	20.0	20.6	
104 4-Ethyltoluene	105	7.304	7.316	-0.012	98	510363	NC	NC	
105 1,3,5-Trimethylbenzene	105	7.377	7.376	0.001	94	461211	20.0	20.3	
106 4-Chlorotoluene	91	7.413	7.419	-0.006	97	379622	20.0	20.6	
107 tert-Butylbenzene	119	7.663	7.668	-0.005	95	390934	20.0	21.0	
108 1,2,4-Trimethylbenzene	105	7.736	7.741	-0.005	97	423646	20.0	20.4	
110 sec-Butylbenzene	105	7.876	7.881	-0.005	98	567547	20.0	20.6	
112 4-Isopropyltoluene	119	8.022	8.027	-0.005	97	478761	20.0	20.6	
111 1,3-Dichlorobenzene	146	8.028	8.033	-0.005	98	231963	20.0	20.0	
113 Dicyclopentadiene	66	8.070	8.076	-0.006	96	535206	NC	NC	
114 1,4-Dichlorobenzene	146	8.119	8.125	-0.006	95	245135	20.0	20.7	
115 1,2,3-Trimethylbenzene	105	8.137	8.149	-0.012	98	426124	20.0	20.1	
116 Benzyl chloride	91	8.265	8.265	0.000	99	116120	20.0	13.2	
117 n-Butylbenzene	91	8.423	8.429	-0.006	98	381918	20.0	19.1	
118 1,2-Dichlorobenzene	146	8.484	8.490	-0.006	98	213470	20.0	20.5	
119 1,2-Dibromo-3-Chloropropan	157	9.275	9.281	-0.006	92	17513	20.0	21.1	
120 1,3,5-Trichlorobenzene	180	9.433	9.439	-0.006	98	131548	20.0	17.8	
121 1,2,4-Trichlorobenzene	180	10.145	10.157	-0.012	94	91327	20.0	17.3	
122 Hexachlorobutadiene	225	10.291	10.297	-0.006	95	58388	20.0	17.0	
123 Naphthalene	128	10.455	10.467	-0.012	99	177087	20.0	20.2	
124 1,2,3-Trichlorobenzene	180	10.753	10.759	-0.006	96	69857	20.0	19.5	
125 2-Methylnaphthalene	142	11.714	11.720	-0.006	85	33312	20.0	17.0	
126 1-Methylnaphthalene	142	11.891	11.896	-0.005	92	28472	20.0	20.0	
S 149 1,2-Dichloroethene, Total	1				0		40.0	38.7	
S 148 Xylenes, Total	1				0		40.0	40.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

V1_Mega_I_00069

Amount Added: 20.00

Units: uL

V1_gases_I_00210

Amount Added: 20.00

Units: uL

VOA_ISSS150_W_00015

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061757.D

Injection Date: 07-May-2017 13:24:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: 480-117063-A-1 MS

Worklist Smp#: 26

Client ID: MW-1

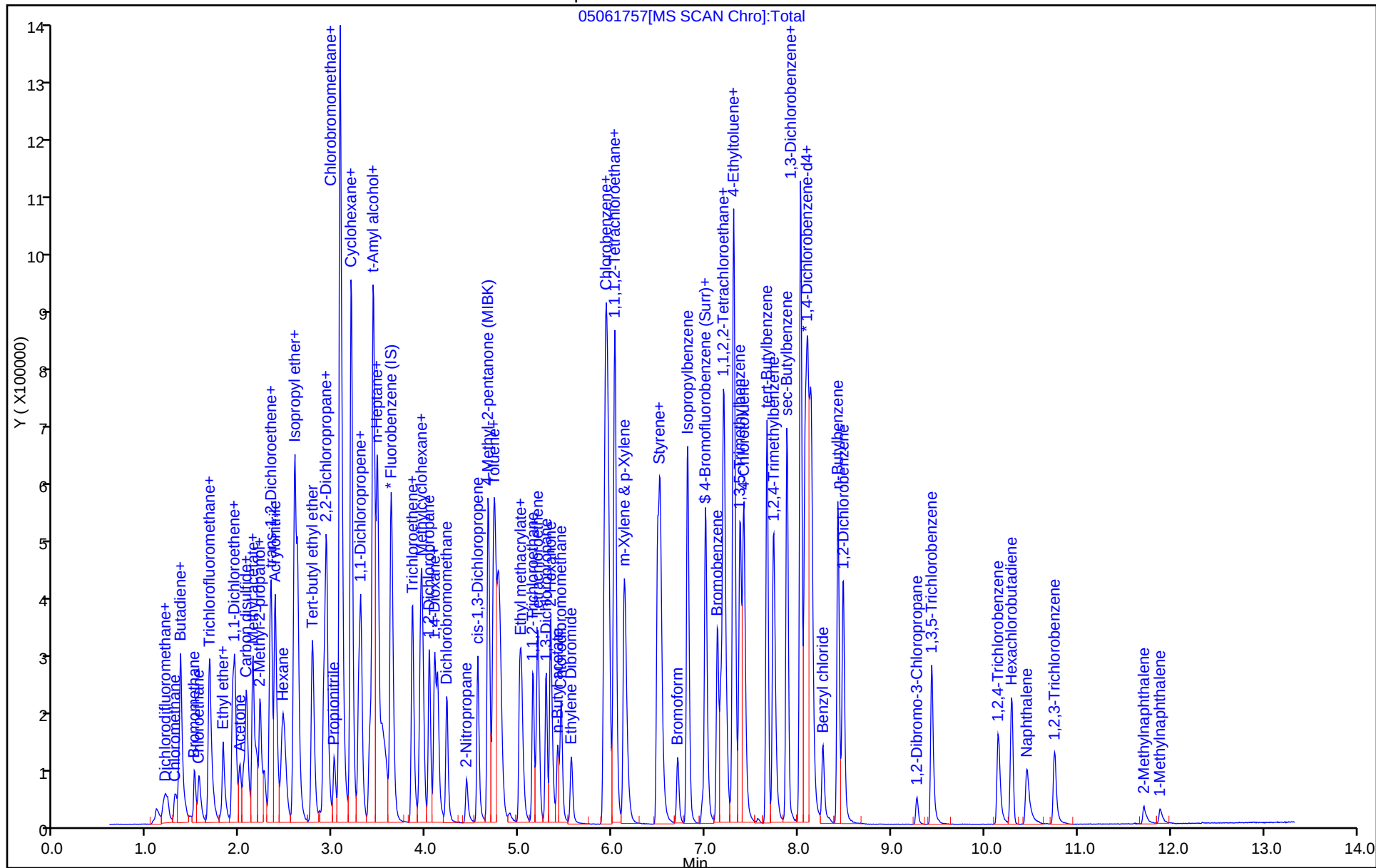
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 67

Method: 8260HP33

Limit Group: MSV 8260C ICAL



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Nashville</u>	Job No.: <u>480-117063-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-14 MS</u>	Lab Sample ID: <u>480-117063-16 MS</u>
Matrix: <u>Water</u>	Lab File ID: <u>05081725.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/26/2017 16:30</u>
Sample wt/vol: <u>10 (mL)</u>	Date Analyzed: <u>05/08/2017 20:58</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>50</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>428184</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1240		50	9.5
79-34-5	1,1,2,2-Tetrachloroethane	984		50	9.5
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1220		50	7.5
79-00-5	1,1,2-Trichloroethane	1070		50	9.5
75-34-3	1,1-Dichloroethane	1060		50	12
75-35-4	1,1-Dichloroethene	1140		50	13
120-82-1	1,2,4-Trichlorobenzene	868		50	10
96-12-8	1,2-Dibromo-3-Chloropropane	852		500	47
95-50-1	1,2-Dichlorobenzene	1130		50	9.5
107-06-2	1,2-Dichloroethane	1060		50	10
78-87-5	1,2-Dichloropropane	1030		50	13
541-73-1	1,3-Dichlorobenzene	1170		50	9.0
106-46-7	1,4-Dichlorobenzene	1120		50	8.5
78-93-3	2-Butanone (MEK)	4800		2500	130
591-78-6	2-Hexanone	4140		500	64
108-10-1	4-Methyl-2-pentanone (MIBK)	4390		500	41
67-64-1	Acetone	4250		1300	130
71-43-2	Benzene	1130		50	10
75-25-2	Bromoform	1050		50	15
74-83-9	Bromomethane	1150		50	18
75-15-0	Carbon disulfide	1120		50	11
56-23-5	Carbon tetrachloride	1240		50	9.0
108-90-7	Chlorobenzene	1120		50	9.0
124-48-1	Dibromochloromethane	1060		50	13
75-00-3	Chloroethane	974		50	18
67-66-3	Chloroform	1160		50	12
74-87-3	Chloromethane	1010		50	18
156-59-2	cis-1,2-Dichloroethene	2950		50	11
110-82-7	Cyclohexane	1160		250	6.5
75-27-4	Bromodichloromethane	1120		50	8.5
75-71-8	Dichlorodifluoromethane	1050		50	8.5
100-41-4	Ethylbenzene	1140		50	9.5
106-93-4	1,2-Dibromoethane	1050		50	11
98-82-8	Isopropylbenzene	1200		50	17
79-20-9	Methyl acetate	1670		500	29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1

SDG No.: _____

Client Sample ID: MW-14 MS Lab Sample ID: 480-117063-16 MS

Matrix: Water Lab File ID: 05081725.D

Analysis Method: 8260C Date Collected: 04/26/2017 16:30

Sample wt/vol: 10 (mL) Date Analyzed: 05/08/2017 20:58

Soil Aliquot Vol: _____ Dilution Factor: 50

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

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

Analysis Batch No.: 428184 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	997		50	8.5
108-87-2	Methylcyclohexane	1180		250	4.5
75-09-2	Methylene Chloride	1110		250	50
127-18-4	Tetrachloroethene	1200		50	7.0
108-88-3	Toluene	1110		50	8.5
156-60-5	trans-1,2-Dichloroethene	1080		50	12
10061-02-6	trans-1,3-Dichloropropene	1040		50	8.5
79-01-6	Trichloroethene	8710		50	10
75-69-4	Trichlorofluoromethane	1310		50	11
75-01-4	Vinyl chloride	1060		50	9.0
1330-20-7	Xylenes, Total	2330		150	29
10061-01-5	cis-1,3-Dichloropropene	1100		50	8.5
100-42-5	Styrene	1260		50	14

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	99		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP39\20170508-90599.b\05081725.D
 Lims ID: 480-117063-B-16 MS
 Client ID:
 Sample Type: MS
 Inject. Date: 08-May-2017 20:58:30 ALS Bottle#: 25 Worklist Smp#: 25
 Purge Vol: 10.000 mL Dil. Factor: 50.0000
 Sample Info: 480-117063-B-16 MS
 Misc. Info.: 490-0090599-025
 Operator ID: MJH HP-39 Instrument ID: HP39
 Method: \\ChromNA\Nashville\ChromData\HP39\20170508-90599.b\8260HP39.m
 Limit Group: MSV 8260C ICAL
 Method Label: 8260B Volatile Organics 8260/SA/NV05-90
 Last Update: 09-May-2017 12:45:35 Calib Date: 16-Mar-2017 21:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161714.D

Column 1 : Det: MS SCAN

Process Host: XAWRK030

First Level Reviewer: khanphomeea

Date: 09-May-2017 12:32:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.396	4.353	0.043	99	1089216	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.811	6.768	0.043	83	872133	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.977	8.934	0.043	77	521712	25.0	25.0	
\$ 4 Dibromofluoromethane (Surr	111	3.952	3.909	0.043	95	254349	25.0	24.7	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.195	4.152	0.043	92	232427	25.0	25.1	
\$ 6 Toluene-d8 (Surr)	98	5.570	5.527	0.043	92	1051872	25.0	24.5	
\$ 7 4-Bromofluorobenzene (Surr	95	7.875	7.833	0.042	95	405664	25.0	24.4	
9 Propene	41	1.421	1.403	0.019	99	152592	NC	NC	
10 Dichlorodifluoromethane	85	1.445	1.427	0.018	99	262675	20.0	20.9	
11 Chloromethane	50	1.597	1.573	0.024	100	245907	20.0	20.3	
12 Vinyl chloride	62	1.670	1.646	0.024	98	299801	20.0	21.2	
13 Butadiene	54	1.688	1.664	0.024	97	276887	20.0	20.4	
14 Bromomethane	96	1.907	1.883	0.024	90	154480	20.0	22.9	
15 Chloroethane	64	1.974	1.944	0.030	99	189442	20.0	19.5	
16 Dichlorofluoromethane	67	2.102	2.078	0.024	98	465432	20.0	20.7	
17 Trichlorofluoromethane	101	2.126	2.096	0.030	99	486690	20.0	26.2	
18 Ethanol	46	2.279	2.254	0.025	97	19176	800.0	758.4	
19 Ethyl ether	59	2.303	2.272	0.031	88	145969	20.0	20.1	
21 1,1,2-Trichloro-1,2,2-trif	101	2.437	2.406	0.031	89	272834	20.0	24.4	
20 Acrolein	56	2.437	2.406	0.031	34	36540	49.4	52.4	
22 1,1-Dichloroethene	96	2.473	2.443	0.030	96	271637	20.0	22.9	
23 Acetone	58	2.534	2.504	0.030	100	42915	100.0	85.0	
24 Iodomethane	142	2.601	2.564	0.037	97	358113	20.0	20.2	
26 Isopropyl alcohol	45	2.613	2.577	0.036	100	51819	200.0	176.6	
27 Carbon disulfide	76	2.637	2.601	0.036	98	731355	20.0	22.5	
29 3-Chloro-1-propene	76	2.710	2.674	0.036	60	204121	20.0	20.4	
30 Methyl acetate	43	2.717	2.680	0.037	97	152075	40.0	33.5	
28 Acetonitrile	40	2.741	2.710	0.031	1	70355	200.0	124.0	
31 Methylene Chloride	84	2.802	2.765	0.037	87	275084	20.0	22.3	
32 2-Methyl-2-propanol	59	2.856	2.826	0.030	99	77166	200.0	159.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Methyl tert-butyl ether	73	2.923	2.887	0.036	94	461095	20.0	19.9	
34 trans-1,2-Dichloroethene	61	2.954	2.917	0.037	96	341358	20.0	21.6	
33 Acrylonitrile	53	2.984	2.954	0.030	100	392531	200.0	173.9	
36 Hexane	57	3.063	3.033	0.030	89	366212	20.0	23.3	
39 Isopropyl ether	45	3.203	3.167	0.036	93	673254	20.0	19.1	
38 Vinyl acetate	86	3.240	3.203	0.037	97	74798	40.0	44.7	
37 1,1-Dichloroethane	63	3.240	3.203	0.037	95	462173	20.0	21.2	
40 2-Chloro-1,3-butadiene	53	3.276	3.240	0.036	99	401611	20.0	23.9	
41 Tert-butyl ethyl ether	59	3.441	3.404	0.037	96	592618	20.0	19.5	
43 2,2-Dichloropropane	77	3.605	3.562	0.043	86	404112	20.0	22.4	
42 cis-1,2-Dichloroethene	96	3.623	3.587	0.037	77	854708	20.0	59.0	
45 Ethyl acetate	70	3.629	3.593	0.036	49	34367	40.0	44.8	
44 2-Butanone (MEK)	72	3.635	3.599	0.036	98	71183	100.0	96.0	
46 Propionitrile	54	3.720	3.684	0.036	88	149219	200.0	177.1	
47 Methacrylonitrile	41	3.793	3.757	0.036	98	699509	200.0	175.7	
48 Chlorobromomethane	130	3.799	3.763	0.036	83	169743	20.0	21.6	
49 Tetrahydrofuran	42	3.812	3.775	0.037	76	74538	40.0	32.5	
50 Chloroform	83	3.830	3.793	0.037	92	461471	20.0	23.1	
51 1,1,1-Trichloroethane	97	3.933	3.897	0.036	97	434220	20.0	24.8	
52 Cyclohexane	56	3.945	3.909	0.036	92	463957	20.0	23.2	
54 Carbon tetrachloride	117	4.037	4.000	0.037	97	392462	20.0	24.9	
53 1,1-Dichloropropene	75	4.043	4.000	0.043	97	372564	20.0	22.5	
55 Isobutyl alcohol	43	4.164	4.104	0.060	89	203974	500.0	441.2	
56 t-Amyl alcohol	59	4.195	4.158	0.037	48	77725	200.0	162.6	
57 Benzene	78	4.207	4.164	0.043	96	1168011	20.0	22.7	
59 Tert-amyl methyl ether	73	4.225	4.183	0.042	98	601944	20.0	19.5	
58 1,2-Dichloroethane	62	4.250	4.207	0.043	97	258041	20.0	21.3	
60 n-Heptane	43	4.280	4.237	0.043	93	275196	20.0	20.8	
61 n-Butanol	56	4.609	4.572	0.037	87	56985	500.0	378.8	
62 Trichloroethene	130	4.651	4.609	0.042	97	2588042	20.0	174.2	
63 Ethyl acrylate	55	4.700	4.663	0.037	100	156123	20.0	17.8	
64 Methylcyclohexane	83	4.748	4.706	0.042	84	511053	20.0	23.6	
65 1,2-Dichloropropane	63	4.846	4.803	0.043	96	250237	20.0	20.5	
66 Methyl methacrylate	41	4.876	4.834	0.042	92	233612	40.0	35.6	
68 1,4-Dioxane	88	4.949	4.907	0.042	32	23544	400.0	375.1	
67 Dibromomethane	93	4.961	4.919	0.042	92	123736	20.0	21.9	
69 Dichlorobromomethane	83	5.059	5.016	0.043	99	333408	20.0	22.3	
71 2-Chloroethyl vinyl ether	63	5.253	5.211	0.042	79	44657	20.0	9.77	
70 2-Nitropropane	43	5.253	5.211	0.042	98	85526	40.0	33.3	
72 cis-1,3-Dichloropropene	75	5.387	5.345	0.042	97	380398	20.0	22.0	
73 4-Methyl-2-pentanone (MIBK)	58	5.491	5.448	0.043	93	218390	100.0	87.8	
74 Toluene	91	5.625	5.582	0.043	99	1276948	20.0	22.3	
75 trans-1,3-Dichloropropene	75	5.837	5.795	0.042	96	302681	20.0	20.8	
76 Ethyl methacrylate	69	5.844	5.801	0.043	86	200377	20.0	18.1	
77 1,1,2-Trichloroethane	97	6.002	5.965	0.037	90	184978	20.0	21.4	
78 Tetrachloroethene	166	6.063	6.020	0.043	97	389326	20.0	24.0	
79 1,3-Dichloropropane	76	6.142	6.105	0.037	87	306739	20.0	20.4	
80 2-Hexanone	58	6.172	6.129	0.043	93	192547	100.0	82.8	
81 n-Butyl acetate	43	6.233	6.196	0.037	95	177764	20.0	16.0	
82 Chlorodibromomethane	127	6.342	6.306	0.036	89	169583	20.0	21.1	
83 Ethylene Dibromide	107	6.452	6.409	0.043	97	173679	20.0	21.1	
84 1-Chlorohexane	91	6.756	6.713	0.043	93	437409	20.0	23.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 Chlorobenzene	112	6.835	6.793	0.042	96	844782	20.0	22.3	
87 Ethylbenzene	91	6.896	6.853	0.043	97	1433446	20.0	22.9	
86 1,1,1,2-Tetrachloroethane	131	6.908	6.866	0.042	94	298673	20.0	22.8	
88 m-Xylene & p-Xylene	91	6.993	6.951	0.042	99	1120417	20.0	23.3	
89 o-Xylene	91	7.364	7.322	0.042	95	1153581	20.0	23.5	
90 Styrene	104	7.389	7.346	0.043	94	1017407	20.0	25.1	
91 Bromoform	173	7.626	7.583	0.043	97	135089	20.0	21.0	
92 Isopropylbenzene	105	7.681	7.644	0.037	95	1457791	20.0	24.0	
93 Cyclohexanone	55	7.875	7.833	0.042	40	28129	200.0	139.3	
94 Bromobenzene	156	8.028	7.985	0.043	86	375870	20.0	22.4	
95 1,1,2,2-Tetrachloroethane	83	8.046	8.009	0.037	96	179218	20.0	19.7	
98 N-Propylbenzene	91	8.070	8.028	0.042	98	1686676	20.0	22.9	
97 trans-1,4-Dichloro-2-buten	53	8.088	8.052	0.036	72	48054	20.0	20.9	
96 1,2,3-Trichloropropane	110	8.094	8.052	0.042	84	63059	20.0	20.0	
100 4-Ethyltoluene	105	8.174	8.131	0.043	98	1490222	NC	NC	
99 2-Chlorotoluene	91	8.186	8.143	0.043	97	1186744	20.0	23.1	
101 1,3,5-Trimethylbenzene	105	8.228	8.192	0.036	95	1229441	20.0	23.0	
102 4-Chlorotoluene	91	8.289	8.247	0.042	96	1044175	20.0	22.5	
103 tert-Butylbenzene	119	8.539	8.502	0.037	91	1033556	20.0	22.5	
104 1,2,4-Trimethylbenzene	105	8.593	8.557	0.036	96	1235347	20.0	23.1	
106 sec-Butylbenzene	105	8.745	8.709	0.036	93	1435767	20.0	23.2	
108 4-Isopropyltoluene	119	8.885	8.843	0.042	97	1263890	20.0	23.3	
107 1,3-Dichlorobenzene	146	8.910	8.867	0.043	98	736389	20.0	23.4	
110 Dicyclopentadiene	66	8.977	8.934	0.043	86	1278781	NC	NC	
109 1,4-Dichlorobenzene	146	9.001	8.958	0.043	96	711269	20.0	22.4	
111 1,2,3-Trimethylbenzene	105	9.013	8.977	0.036	100	1206105	20.0	23.2	
112 Benzyl chloride	91	9.147	9.104	0.043	100	338383	20.0	24.2	
114 n-Butylbenzene	91	9.287	9.244	0.043	97	990830	20.0	24.3	
113 1,2-Dichlorobenzene	146	9.372	9.329	0.043	99	613156	20.0	22.7	
115 1,2-Dibromo-3-Chloropropan	157	10.254	10.212	0.042	89	31505	20.0	17.0	
116 1,3,5-Trichlorobenzene	180	10.431	10.382	0.049	97	364161	20.0	20.4	
117 1,2,4-Trichlorobenzene	180	11.161	11.118	0.043	94	248068	20.0	17.4	
118 Hexachlorobutadiene	225	11.288	11.246	0.042	95	156110	20.0	22.1	
119 Naphthalene	128	11.440	11.398	0.042	96	421485	20.0	16.4	
120 1,2,3-Trichlorobenzene	180	11.684	11.641	0.043	96	200975	20.0	16.6	
121 2-Methylnaphthalene	142	12.505	12.469	0.036	91	107765	20.0	7.42	
122 1-Methylnaphthalene	142	12.688	12.651	0.037	95	76857	20.0	6.99	
131 Propene TIC	41	2.011	2.005	0.006	0	292		NR	
127 4-Ethyltoluene TIC	105	7.364	7.297	0.067	0	338859		NR	
126 Dicyclopentadiene TIC	66	7.875	7.863	0.012	0	886		NR	
S 135 Xylenes, Total	1				0		40.0	46.8	
S 136 1,2-Dichloroethene, Total	1				0		40.0	80.5	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

Reagents:

V1_gases_I_00210	Amount Added: 10.00	Units: uL	
V1_Mega_I_00070	Amount Added: 10.00	Units: uL	
VOA_ISSS_50_W_00040	Amount Added: 5.00	Units: uL	Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP39\\20170508-90599.b\\05081725.D

Injection Date: 08-May-2017 20:58:30

Instrument ID: HP39

Operator ID: MJH HP-39

Lims ID: 480-117063-B-16 MS

Worklist Smp#: 25

Client ID:

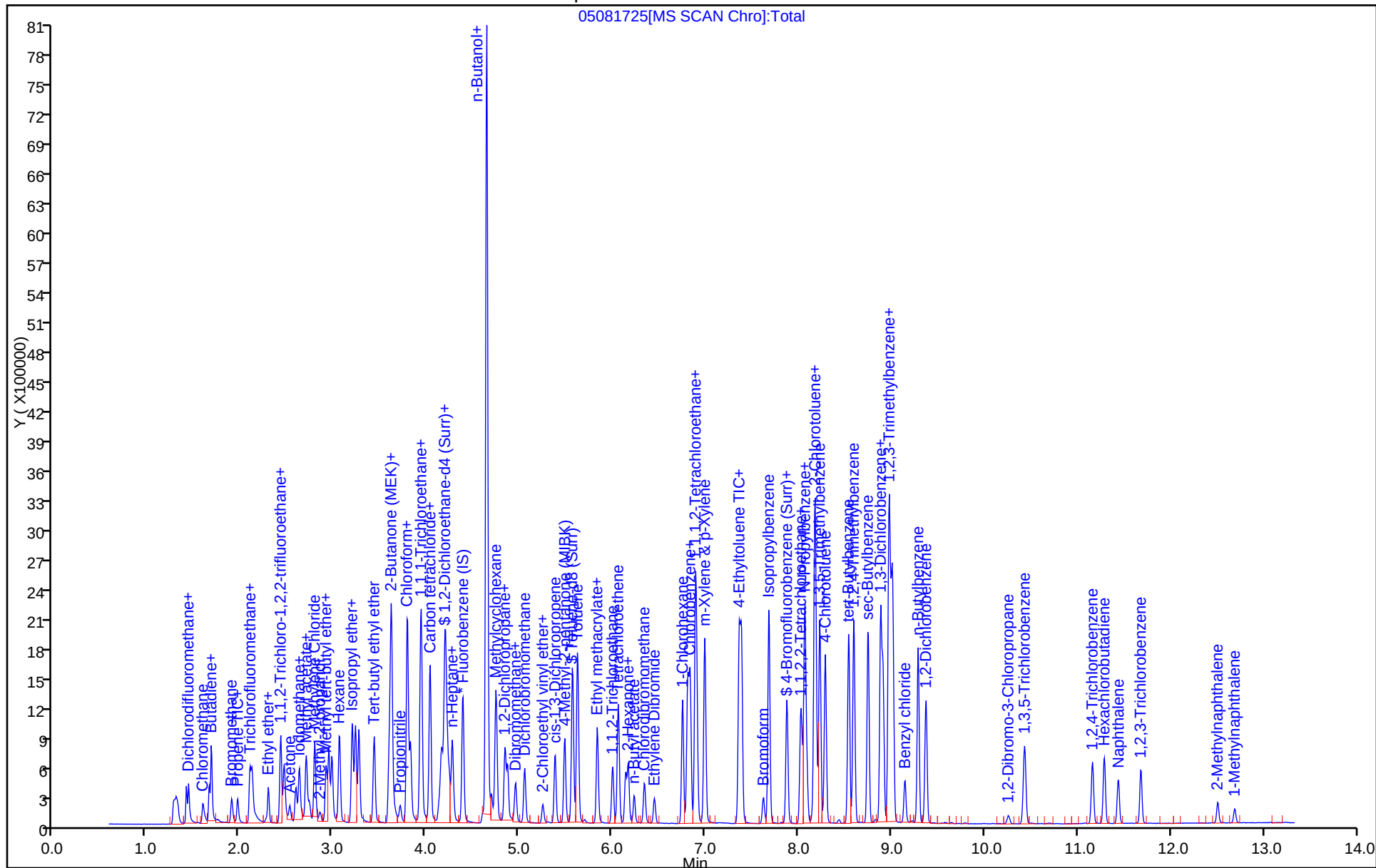
Purge Vol: 10.000 mL

Dil. Factor: 50.0000

ALS Bottle#: 25

Method: 8260HP39

Limit Group: MSV 8260C ICAL



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Nashville</u>	Job No.: <u>480-117063-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-1 MSD</u>	Lab Sample ID: <u>480-117063-1 MSD</u>
Matrix: <u>Water</u>	Lab File ID: <u>05061758.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/26/2017 08:45</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>05/07/2017 13:51</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>428030</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	21.9		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	21.0		1.0	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20.3		1.0	0.15
79-00-5	1,1,2-Trichloroethane	18.4		1.0	0.19
75-34-3	1,1-Dichloroethane	19.2		1.0	0.24
75-35-4	1,1-Dichloroethene	20.4		1.0	0.25
120-82-1	1,2,4-Trichlorobenzene	19.0		1.0	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	23.2		10	0.94
95-50-1	1,2-Dichlorobenzene	20.3		1.0	0.19
107-06-2	1,2-Dichloroethane	21.1		1.0	0.20
78-87-5	1,2-Dichloropropane	18.3		1.0	0.25
541-73-1	1,3-Dichlorobenzene	20.2		1.0	0.18
106-46-7	1,4-Dichlorobenzene	20.1		1.0	0.17
78-93-3	2-Butanone (MEK)	96.2		50	2.6
591-78-6	2-Hexanone	95.3		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	89.4		10	0.81
67-64-1	Acetone	88.1		25	2.7
71-43-2	Benzene	19.3		1.0	0.20
75-25-2	Bromoform	21.9		1.0	0.29
74-83-9	Bromomethane	25.1		1.0	0.35
75-15-0	Carbon disulfide	19.3		1.0	0.22
56-23-5	Carbon tetrachloride	23.2		1.0	0.18
108-90-7	Chlorobenzene	20.0		1.0	0.18
124-48-1	Dibromochloromethane	21.6		1.0	0.25
75-00-3	Chloroethane	19.5		1.0	0.36
67-66-3	Chloroform	20.0		1.0	0.23
74-87-3	Chloromethane	15.8		1.0	0.36
156-59-2	cis-1,2-Dichloroethene	19.6		1.0	0.21
110-82-7	Cyclohexane	19.0		5.0	0.13
75-27-4	Bromodichloromethane	22.3		1.0	0.17
75-71-8	Dichlorodifluoromethane	15.2		1.0	0.17
100-41-4	Ethylbenzene	20.1		1.0	0.19
106-93-4	1,2-Dibromoethane	20.2		1.0	0.21
98-82-8	Isopropylbenzene	20.9		1.0	0.33
79-20-9	Methyl acetate	30.2		10	0.58

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Client Sample ID: MW-1 MSD Lab Sample ID: 480-117063-1 MSD
 Matrix: Water Lab File ID: 05061758.D
 Analysis Method: 8260C Date Collected: 04/26/2017 08:45
 Sample wt/vol: 5 (mL) Date Analyzed: 05/07/2017 13:51
 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.: 428030 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	19.3		1.0	0.17
108-87-2	Methylcyclohexane	19.5		5.0	0.090
75-09-2	Methylene Chloride	16.6		5.0	1.0
127-18-4	Tetrachloroethene	20.2		1.0	0.14
108-88-3	Toluene	18.2		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	19.1		1.0	0.23
10061-02-6	trans-1,3-Dichloropropene	17.2		1.0	0.17
79-01-6	Trichloroethene	20.3		1.0	0.20
75-69-4	Trichlorofluoromethane	24.7		1.0	0.21
75-01-4	Vinyl chloride	19.0		1.0	0.18
1330-20-7	Xylenes, Total	40.1		3.0	0.58
10061-01-5	cis-1,3-Dichloropropene	17.2		1.0	0.17
100-42-5	Styrene	19.7		1.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		70-130
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	92		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\05061758.D
 Lims ID: 480-117063-A-1 MSD
 Client ID: MW-1
 Sample Type: MSD
 Inject. Date: 07-May-2017 13:51:30 ALS Bottle#: 68 Worklist Smp#: 27
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-117063-A-1 MSD
 Misc. Info.: 490-0090567-027
 Operator ID: JJR Instrument ID: HP33
 Method: \\ChromNA\Nashville\ChromData\HP33\20170506-90567.b\8260HP33.m
 Limit Group: MSV 8260C ICAL
 Last Update: 08-May-2017 10:29:41 Calib Date: 09-Nov-2016 02:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Nashville\ChromData\HP33\20161109-82377.b\11081616.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: wanguns

Date: 08-May-2017 10:36:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	3.623	3.635	-0.012	98	637483	30.0	30.0	
* 2 Chlorobenzene-d5	117	5.935	5.941	-0.006	87	501346	30.0	30.0	
* 3 1,4-Dichlorobenzene-d4	152	8.095	8.100	-0.005	93	226150	30.0	30.0	
\$ 5 Dibromofluoromethane (Surr	111	3.203	3.203	0.000	97	155891	30.0	29.2	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	3.429	3.434	-0.006	0	192455	30.0	32.4	
\$ 7 Toluene-d8 (Surr)	98	4.730	4.736	-0.006	99	615593	30.0	27.7	
\$ 8 4-Bromofluorobenzene (Surr	95	7.006	7.005	0.001	93	214182	30.0	30.2	
11 Propene	41	1.178	1.184	-0.006	97	28926	NC	NC	
12 Dichlorodifluoromethane	85	1.208	1.214	-0.006	98	49002	20.0	15.2	
13 Chloromethane	50	1.299	1.305	-0.006	99	90130	20.0	15.8	
14 Vinyl chloride	62	1.348	1.348	0.000	98	120337	20.0	19.0	
15 Butadiene	54	1.366	1.366	0.000	97	120576	20.0	18.9	
16 Bromomethane	96	1.512	1.518	-0.006	98	67459	20.0	25.1	
17 Chloroethane	64	1.561	1.567	-0.006	100	80311	20.0	19.5	
18 Dichlorofluoromethane	67	1.664	1.670	-0.006	99	190005	20.0	20.0	
19 Trichlorofluoromethane	101	1.676	1.676	0.000	97	178780	20.0	24.7	
20 Ethanol	46	1.810	1.816	-0.006	89	16284	800.0	687.4	
21 Ethyl ether	59	1.816	1.822	-0.006	90	81429	20.0	17.2	
22 1,1,2-Trichloro-1,2,2-trif	101	1.920	1.926	-0.006	96	102616	20.0	20.3	
23 Acrolein	56	1.926	1.932	-0.006	32	10293	49.4	43.4	
24 1,1-Dichloroethene	96	1.944	1.950	-0.006	98	95257	20.0	20.4	
25 Acetone	58	2.005	2.005	0.000	87	40669	100.0	88.1	
26 Iodomethane	142	2.041	2.047	-0.006	98	109947	20.0	19.0	
27 Isopropyl alcohol	45	2.060	2.066	-0.006	31	60374	200.0	234.3	
28 Carbon disulfide	76	2.072	2.078	-0.006	100	284258	20.0	19.3	
32 Acetonitrile	41	2.139	2.139	0.000	70	121129	NC	NC	
30 3-Chloro-1-propene	76	2.139	2.139	0.000	85	95073	20.0	18.4	
31 Methyl acetate	43	2.145	2.151	-0.006	98	113886	40.0	30.2	
33 Methylene Chloride	84	2.218	2.224	-0.006	93	100741	20.0	16.6	
34 2-Methyl-2-propanol	59	2.260	2.266	-0.006	98	77472	200.0	190.0	
35 Methyl tert-butyl ether	73	2.321	2.327	-0.006	97	285538	20.0	19.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 trans-1,2-Dichloroethene	61	2.340	2.339	0.001	95	143951	20.0	19.1	
37 Acrylonitrile	53	2.376	2.382	-0.006	94	324790	200.0	180.1	
38 Hexane	57	2.461	2.473	-0.012	92	145434	20.0	16.0	
39 Isopropyl ether	45	2.589	2.589	0.000	86	335009	20.0	17.1	
40 1,1-Dichloroethane	63	2.583	2.589	-0.006	99	190052	20.0	19.2	
41 Vinyl acetate	86	2.595	2.595	0.000	100	40455	40.0	31.3	
42 2-Chloro-1,3-butadiene	53	2.619	2.625	-0.006	93	180990	20.0	20.0	
43 Tert-butyl ethyl ether	59	2.778	2.783	-0.005	89	316213	20.0	18.3	
44 2,2-Dichloropropane	77	2.899	2.905	-0.006	95	132916	20.0	17.4	
45 cis-1,2-Dichloroethene	96	2.924	2.929	-0.005	96	115523	20.0	19.6	
47 2-Butanone (MEK)	72	2.936	2.936	0.000	96	54220	100.0	96.2	
46 Ethyl acetate	70	2.936	2.936	0.000	95	19170	40.0	33.1	
48 Propionitrile	54	3.015	3.015	0.000	98	121161	200.0	174.9	
49 Chlorobromomethane	130	3.070	3.069	0.001	87	66421	20.0	19.7	
50 Methacrylonitrile	41	3.076	3.082	-0.006	92	571215	200.0	178.0	
51 Tetrahydrofuran	42	3.076	3.082	-0.006	33	69106	40.0	34.9	
52 Chloroform	83	3.100	3.100	0.000	98	181560	20.0	20.0	
53 Cyclohexane	56	3.191	3.197	-0.006	91	201579	20.0	19.0	
54 1,1,1-Trichloroethane	97	3.191	3.197	-0.006	91	168616	20.0	21.9	
55 tert-Butyl Formate	59	3.197	3.278	-0.081	34	2110		NC	
56 Carbon tetrachloride	117	3.276	3.282	-0.006	97	148437	20.0	23.2	
57 1,1-Dichloropropene	75	3.301	3.307	-0.006	95	149523	20.0	20.3	
58 Isobutyl alcohol	43	3.392	3.398	-0.006	97	85818	500.0	241.9	
59 Benzene	78	3.435	3.440	-0.005	96	435957	20.0	19.3	
60 t-Amyl alcohol	59	3.441	3.440	0.001	75	66074	200.0	185.5	
61 Tert-amyl methyl ether	73	3.477	3.483	-0.006	98	340630	20.0	19.4	
62 1,2-Dichloroethane	62	3.477	3.483	-0.006	95	145931	20.0	21.1	
63 n-Heptane	43	3.532	3.538	-0.006	91	134433	20.0	14.1	
64 n-Butanol	56	3.848	3.854	-0.006	90	45481	500.0	422.5	
65 Trichloroethene	130	3.854	3.860	-0.006	96	118018	20.0	20.3	
66 Ethyl acrylate	55	3.946	3.951	-0.005	97	279524	20.0	18.5	
67 Methylcyclohexane	83	3.958	3.958	0.000	92	209475	20.0	19.5	
68 1,2-Dichloropropane	63	4.037	4.043	-0.006	86	105822	20.0	18.3	
69 Methyl methacrylate	41	4.092	4.097	-0.005	85	172859	40.0	31.0	
70 Dibromomethane	93	4.122	4.128	-0.006	94	60468	20.0	19.9	
71 1,4-Dioxane	88	4.134	4.134	0.000	35	18795	400.0	369.2	
73 Dichlorobromomethane	83	4.219	4.225	-0.006	99	139110	20.0	22.3	
74 2-Nitropropane	43	4.432	4.444	-0.012	99	47613	40.0	17.2	
76 cis-1,3-Dichloropropene	75	4.554	4.560	-0.006	96	158874	20.0	17.2	
77 4-Methyl-2-pentanone (MIBK)	58	4.670	4.669	0.001	96	180138	100.0	89.4	
78 Toluene	91	4.785	4.791	-0.006	94	455269	20.0	18.2	
79 trans-1,3-Dichloropropene	75	5.004	5.010	-0.006	98	133715	20.0	17.2	
80 Ethyl methacrylate	69	5.028	5.034	-0.006	89	122241	20.0	17.1	
81 1,1,2-Trichloroethane	97	5.150	5.156	-0.006	94	86749	20.0	18.4	
82 Tetrachloroethene	166	5.205	5.205	0.000	98	131550	20.0	20.2	
83 1,3-Dichloropropane	76	5.290	5.296	-0.006	92	151813	20.0	18.6	
84 2-Hexanone	58	5.339	5.345	-0.006	96	156129	100.0	95.3	
85 n-Butyl acetate	43	5.418	5.418	0.000	97	131870	20.0	17.5	
86 Chlorodibromomethane	127	5.454	5.460	-0.006	98	79018	20.0	21.6	
87 Ethylene Dibromide	107	5.558	5.564	-0.006	97	89868	20.0	20.2	
88 1-Chlorohexane	91	5.911	5.923	-0.012	89	161254	20.0	20.7	
89 Chlorobenzene	112	5.959	5.965	-0.006	95	312559	20.0	20.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
90 Ethylbenzene	91	6.026	6.032	-0.006	98	530292	20.0	20.1	
91 1,1,1,2-Tetrachloroethane	131	6.032	6.038	-0.006	95	108963	20.0	20.5	
92 m-Xylene & p-Xylene	91	6.136	6.135	0.001	0	408048	20.0	20.1	
93 o-Xylene	91	6.488	6.494	-0.006	94	409465	20.0	20.0	
94 Styrene	104	6.519	6.525	-0.006	96	336719	20.0	19.7	
95 Bromoform	173	6.701	6.707	-0.006	97	62967	20.0	21.9	
96 Isopropylbenzene	105	6.811	6.817	-0.006	96	540249	20.0	20.9	
97 Cyclohexanone	55	6.975	6.975	0.000	91	22787	200.0	159.9	
98 Bromobenzene	77	7.127	7.133	-0.006	94	177482	20.0	19.6	
99 1,1,2,2-Tetrachloroethane	83	7.170	7.170	0.000	96	102067	20.0	21.0	
100 N-Propylbenzene	91	7.194	7.200	-0.006	99	624010	20.0	21.5	
101 1,2,3-Trichloropropane	110	7.206	7.218	-0.012	95	34314	20.0	21.6	
102 trans-1,4-Dichloro-2-buten	53	7.231	7.237	-0.006	71	24744	20.0	17.7	
103 2-Chlorotoluene	91	7.304	7.310	-0.006	97	412079	20.0	21.1	
104 4-Ethyltoluene	105	7.310	7.316	-0.006	98	508849	NC	NC	
105 1,3,5-Trimethylbenzene	105	7.377	7.376	0.001	94	467483	20.0	21.1	
106 4-Chlorotoluene	91	7.413	7.419	-0.006	96	378684	20.0	21.1	
107 tert-Butylbenzene	119	7.663	7.668	-0.005	95	390633	20.0	21.5	
108 1,2,4-Trimethylbenzene	105	7.736	7.741	-0.005	97	418251	20.0	20.7	
110 sec-Butylbenzene	105	7.876	7.881	-0.005	98	554576	20.0	20.6	
112 4-Isopropyltoluene	119	8.022	8.027	-0.005	97	464914	20.0	20.5	
111 1,3-Dichlorobenzene	146	8.028	8.033	-0.005	97	229302	20.0	20.2	
113 Dicyclopentadiene	66	8.070	8.076	-0.006	96	528205	NC	NC	
114 1,4-Dichlorobenzene	146	8.119	8.125	-0.006	95	232473	20.0	20.1	
115 1,2,3-Trimethylbenzene	105	8.143	8.149	-0.006	98	407505	20.0	19.7	
116 Benzyl chloride	91	8.265	8.265	0.000	98	111263	20.0	12.8	
117 n-Butylbenzene	91	8.423	8.429	-0.006	98	381672	20.0	19.6	
118 1,2-Dichlorobenzene	146	8.484	8.490	-0.006	96	207064	20.0	20.3	
119 1,2-Dibromo-3-Chloropropan	157	9.275	9.281	-0.006	93	18782	20.0	23.2	
120 1,3,5-Trichlorobenzene	180	9.433	9.439	-0.006	97	132442	20.0	18.3	
121 1,2,4-Trichlorobenzene	180	10.145	10.157	-0.012	94	98301	20.0	19.0	
122 Hexachlorobutadiene	225	10.297	10.297	0.000	95	63566	20.0	18.9	
123 Naphthalene	128	10.455	10.467	-0.012	99	220128	20.0	25.7	
124 1,2,3-Trichlorobenzene	180	10.753	10.759	-0.006	95	83015	20.0	23.8	
125 2-Methylnaphthalene	142	11.708	11.720	-0.012	83	57323	20.0	30.1	
126 1-Methylnaphthalene	142	11.885	11.896	-0.011	93	52142	20.0	37.5	
S 149 1,2-Dichloroethene, Total	1				0		40.0	38.7	
S 148 Xylenes, Total	1				0		40.0	40.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

V1_Mega_I_00069

Amount Added: 20.00

Units: uL

V1_gases_I_00210

Amount Added: 20.00

Units: uL

VOA_ISSS150_W_00015

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP33\\20170506-90567.b\\05061758.D

Injection Date: 07-May-2017 13:51:30

Instrument ID: HP33

Operator ID: JJR

Lims ID: 480-117063-A-1 MSD

Worklist Smp#: 27

Client ID: MW-1

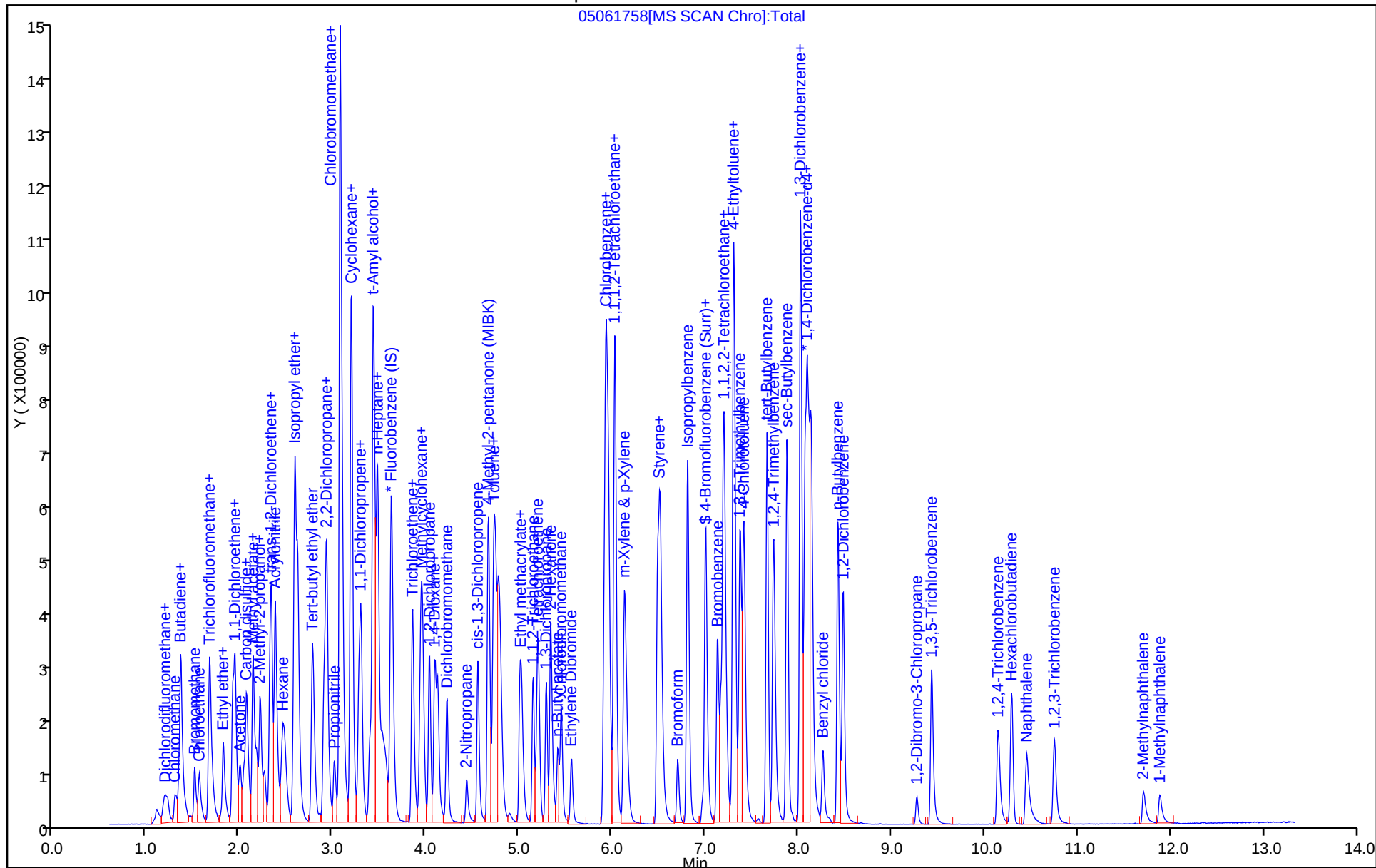
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 68

Method: 8260HP33

Limit Group: MSV 8260C ICAL



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Nashville</u>	Job No.: <u>480-117063-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-14 MSD</u>	Lab Sample ID: <u>480-117063-16 MSD</u>
Matrix: <u>Water</u>	Lab File ID: <u>05081726.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>04/26/2017 16:30</u>
Sample wt/vol: <u>10 (mL)</u>	Date Analyzed: <u>05/08/2017 21:23</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>50</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>428184</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1300		50	9.5
79-34-5	1,1,2,2-Tetrachloroethane	1030		50	9.5
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1230		50	7.5
79-00-5	1,1,2-Trichloroethane	1070		50	9.5
75-34-3	1,1-Dichloroethane	1100		50	12
75-35-4	1,1-Dichloroethene	1110		50	13
120-82-1	1,2,4-Trichlorobenzene	913		50	10
96-12-8	1,2-Dibromo-3-Chloropropane	912		500	47
95-50-1	1,2-Dichlorobenzene	1160		50	9.5
107-06-2	1,2-Dichloroethane	1090		50	10
78-87-5	1,2-Dichloropropane	1080		50	13
541-73-1	1,3-Dichlorobenzene	1180		50	9.0
106-46-7	1,4-Dichlorobenzene	1160		50	8.5
78-93-3	2-Butanone (MEK)	4840		2500	130
591-78-6	2-Hexanone	4310		500	64
108-10-1	4-Methyl-2-pentanone (MIBK)	4520		500	41
67-64-1	Acetone	4760		1300	130
71-43-2	Benzene	1160		50	10
75-25-2	Bromoform	1070		50	15
74-83-9	Bromomethane	1250		50	18
75-15-0	Carbon disulfide	1170		50	11
56-23-5	Carbon tetrachloride	1280		50	9.0
108-90-7	Chlorobenzene	1130		50	9.0
124-48-1	Dibromochloromethane	1090		50	13
75-00-3	Chloroethane	1000		50	18
67-66-3	Chloroform	1200		50	12
74-87-3	Chloromethane	1060		50	18
156-59-2	cis-1,2-Dichloroethene	3020		50	11
110-82-7	Cyclohexane	1220		250	6.5
75-27-4	Bromodichloromethane	1160		50	8.5
75-71-8	Dichlorodifluoromethane	1060		50	8.5
100-41-4	Ethylbenzene	1170		50	9.5
106-93-4	1,2-Dibromoethane	1100		50	11
98-82-8	Isopropylbenzene	1210		50	17
79-20-9	Methyl acetate	1770		500	29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Nashville Job No.: 480-117063-1
 SDG No.: _____
 Client Sample ID: MW-14 MSD Lab Sample ID: 480-117063-16 MSD
 Matrix: Water Lab File ID: 05081726.D
 Analysis Method: 8260C Date Collected: 04/26/2017 16:30
 Sample wt/vol: 10 (mL) Date Analyzed: 05/08/2017 21:23
 Soil Aliquot Vol: _____ Dilution Factor: 50
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 428184 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	1050		50	8.5
108-87-2	Methylcyclohexane	1240		250	4.5
75-09-2	Methylene Chloride	1140		250	50
127-18-4	Tetrachloroethene	1200		50	7.0
108-88-3	Toluene	1140		50	8.5
156-60-5	trans-1,2-Dichloroethene	1150		50	12
10061-02-6	trans-1,3-Dichloropropene	1080		50	8.5
79-01-6	Trichloroethene	8870		50	10
75-69-4	Trichlorofluoromethane	1290		50	11
75-01-4	Vinyl chloride	1080		50	9.0
1330-20-7	Xylenes, Total	2350		150	29
10061-01-5	cis-1,3-Dichloropropene	1140		50	8.5
100-42-5	Styrene	1260		50	14

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	98		70-130

TestAmerica Nashville
Target Compound Quantitation Report

Data File: \\ChromNA\Nashville\ChromData\HP39\20170508-90599.b\05081726.D
 Lims ID: 480-117063-B-16 MSD
 Client ID:
 Sample Type: MSD
 Inject. Date: 08-May-2017 21:23:30 ALS Bottle#: 26 Worklist Smp#: 26
 Purge Vol: 10.000 mL Dil. Factor: 50.0000
 Sample Info: 480-117063-B-16 MSD
 Misc. Info.: 490-0090599-026
 Operator ID: MJH HP-39 Instrument ID: HP39
 Method: \\ChromNA\Nashville\ChromData\HP39\20170508-90599.b\8260HP39.m
 Limit Group: MSV 8260C ICAL
 Method Label: 8260B Volatile Organics 8260/SA/NV05-90
 Last Update: 09-May-2017 12:45:35 Calib Date: 16-Mar-2017 21:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Nashville\ChromData\HP39\20170316-88178.b\03161714.D

Column 1 : Det: MS SCAN

Process Host: XAWRK030

First Level Reviewer: khanphomeea

Date: 09-May-2017 12:37:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene (IS)	96	4.396	4.353	0.043	99	1082296	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.811	6.768	0.043	83	872365	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.971	8.934	0.037	75	506339	25.0	25.0	
\$ 4 Dibromofluoromethane (Surr	111	3.952	3.909	0.043	95	250331	25.0	24.5	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.195	4.152	0.043	94	230927	25.0	25.1	
\$ 6 Toluene-d8 (Surr)	98	5.570	5.527	0.043	92	1049037	25.0	24.4	
\$ 7 4-Bromofluorobenzene (Surr	95	7.876	7.833	0.043	97	395042	25.0	24.5	
9 Propene	41	1.421	1.403	0.019	100	160012	NC	NC	
10 Dichlorodifluoromethane	85	1.445	1.427	0.018	99	264855	20.0	21.2	
11 Chloromethane	50	1.597	1.573	0.024	98	255762	20.0	21.2	
12 Vinyl chloride	62	1.670	1.646	0.024	98	302557	20.0	21.6	
13 Butadiene	54	1.689	1.664	0.024	97	283415	20.0	21.0	
14 Bromomethane	96	1.908	1.883	0.025	90	172006	20.0	24.9	
15 Chloroethane	64	1.974	1.944	0.030	99	193527	20.0	20.0	
16 Dichlorofluoromethane	67	2.108	2.078	0.030	97	462813	20.0	20.7	
17 Trichlorofluoromethane	101	2.127	2.096	0.031	99	477564	20.0	25.9	
18 Ethanol	46	2.285	2.254	0.031	97	20433	800.0	813.3	
19 Ethyl ether	59	2.303	2.272	0.031	89	151150	20.0	20.9	
21 1,1,2-Trichloro-1,2,2-trif	101	2.437	2.406	0.031	89	273767	20.0	24.7	
20 Acrolein	56	2.443	2.406	0.037	35	39498	49.4	57.0	
22 1,1-Dichloroethene	96	2.473	2.443	0.030	96	261126	20.0	22.1	
23 Acetone	58	2.534	2.504	0.030	99	47627	100.0	95.2	
24 Iodomethane	142	2.601	2.564	0.037	97	371610	20.0	21.1	
26 Isopropyl alcohol	45	2.613	2.577	0.036	98	55895	200.0	192.1	
27 Carbon disulfide	76	2.638	2.601	0.037	98	754480	20.0	23.3	
29 3-Chloro-1-propene	76	2.711	2.674	0.037	61	193820	20.0	19.5	
30 Methyl acetate	43	2.717	2.680	0.037	97	159732	40.0	35.4	
28 Acetonitrile	40	2.747	2.710	0.037	91	74985	200.0	133.0	
31 Methylene Chloride	84	2.802	2.765	0.037	88	280048	20.0	22.8	
32 2-Methyl-2-propanol	59	2.863	2.826	0.037	99	82526	200.0	171.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Methyl tert-butyl ether	73	2.923	2.887	0.036	94	482166	20.0	21.0	
34 trans-1,2-Dichloroethene	61	2.954	2.917	0.037	96	361487	20.0	23.0	
33 Acrylonitrile	53	2.984	2.954	0.030	99	414229	200.0	184.7	
36 Hexane	57	3.069	3.033	0.036	90	384260	20.0	24.6	
39 Isopropyl ether	45	3.203	3.167	0.036	93	704499	20.0	20.1	
38 Vinyl acetate	86	3.240	3.203	0.037	97	76536	40.0	46.0	
37 1,1-Dichloroethane	63	3.240	3.203	0.037	95	474798	20.0	21.9	
40 2-Chloro-1,3-butadiene	53	3.276	3.240	0.036	99	410277	20.0	24.5	
41 Tert-butyl ethyl ether	59	3.441	3.404	0.037	96	622066	20.0	20.6	
43 2,2-Dichloropropane	77	3.605	3.562	0.043	85	415147	20.0	23.1	
42 cis-1,2-Dichloroethene	96	3.623	3.587	0.037	77	869514	20.0	60.4	
45 Ethyl acetate	70	3.629	3.593	0.036	49	32986	40.0	43.3	
44 2-Butanone (MEK)	72	3.629	3.599	0.030	97	71345	100.0	96.8	
46 Propionitrile	54	3.720	3.684	0.036	88	158982	200.0	189.9	
47 Methacrylonitrile	41	3.793	3.757	0.036	98	715204	200.0	180.8	
48 Chlorobromomethane	130	3.800	3.763	0.037	89	170930	20.0	21.9	
49 Tetrahydrofuran	42	3.818	3.775	0.043	82	85516	40.0	37.6	
50 Chloroform	83	3.830	3.793	0.037	94	477379	20.0	24.1	
51 1,1,1-Trichloroethane	97	3.939	3.897	0.042	97	451210	20.0	25.9	
52 Cyclohexane	56	3.946	3.909	0.037	87	483358	20.0	24.4	
54 Carbon tetrachloride	117	4.037	4.000	0.037	98	402327	20.0	25.7	
53 1,1-Dichloropropene	75	4.043	4.000	0.043	97	383950	20.0	23.3	
55 Isobutyl alcohol	43	4.165	4.104	0.061	94	234341	500.0	510.1	
56 t-Amyl alcohol	59	4.195	4.158	0.037	46	79060	200.0	166.5	
57 Benzene	78	4.207	4.164	0.043	96	1189841	20.0	23.3	
59 Tert-amyl methyl ether	73	4.225	4.183	0.042	98	632258	20.0	20.6	
58 1,2-Dichloroethane	62	4.250	4.207	0.043	97	261675	20.0	21.7	
60 n-Heptane	43	4.280	4.237	0.043	93	300188	20.0	22.8	
61 n-Butanol	56	4.609	4.572	0.037	84	63956	500.0	427.8	
62 Trichloroethene	130	4.651	4.609	0.042	97	2619163	20.0	177.4	
63 Ethyl acrylate	55	4.706	4.663	0.043	99	163270	20.0	18.7	
64 Methylcyclohexane	83	4.749	4.706	0.043	84	530545	20.0	24.7	
65 1,2-Dichloropropane	63	4.846	4.803	0.043	96	262723	20.0	21.7	
66 Methyl methacrylate	41	4.876	4.834	0.042	92	346212	40.0	53.1	
68 1,4-Dioxane	88	4.949	4.907	0.042	33	24751	400.0	396.8	
67 Dibromomethane	93	4.961	4.919	0.042	91	123079	20.0	22.0	
69 Dichlorobromomethane	83	5.059	5.016	0.043	100	345246	20.0	23.3	
71 2-Chloroethyl vinyl ether	63	5.247	5.211	0.036	84	42016	20.0	9.19	
70 2-Nitropropane	43	5.253	5.211	0.042	98	87299	40.0	34.2	
72 cis-1,3-Dichloropropene	75	5.387	5.345	0.042	96	395417	20.0	22.9	
73 4-Methyl-2-pentanone (MIBK)	58	5.485	5.448	0.037	94	225022	100.0	90.5	
74 Toluene	91	5.625	5.582	0.043	99	1313180	20.0	22.9	
75 trans-1,3-Dichloropropene	75	5.838	5.795	0.043	95	314246	20.0	21.6	
76 Ethyl methacrylate	69	5.844	5.801	0.043	86	210222	20.0	19.0	
77 1,1,2-Trichloroethane	97	6.002	5.965	0.037	90	184272	20.0	21.3	
78 Tetrachloroethene	166	6.063	6.020	0.043	97	390714	20.0	24.0	
79 1,3-Dichloropropane	76	6.142	6.105	0.037	87	319991	20.0	21.3	
80 2-Hexanone	58	6.172	6.129	0.043	94	200457	100.0	86.1	
81 n-Butyl acetate	43	6.233	6.196	0.037	96	189135	20.0	17.1	
82 Chlorodibromomethane	127	6.349	6.306	0.043	90	174777	20.0	21.8	
83 Ethylene Dibromide	107	6.452	6.409	0.043	97	180511	20.0	21.9	
84 1-Chlorohexane	91	6.756	6.713	0.043	93	447952	20.0	24.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 Chlorobenzene	112	6.835	6.793	0.042	96	855908	20.0	22.6	
87 Ethylbenzene	91	6.896	6.853	0.043	97	1466894	20.0	23.4	
86 1,1,1,2-Tetrachloroethane	131	6.908	6.866	0.042	95	294979	20.0	22.5	
88 m-Xylene & p-Xylene	91	6.993	6.951	0.042	99	1146754	20.0	23.8	
89 o-Xylene	91	7.364	7.322	0.042	95	1143824	20.0	23.3	
90 Styrene	104	7.389	7.346	0.043	94	1020524	20.0	25.2	
91 Bromoform	173	7.626	7.583	0.043	99	137329	20.0	21.3	
92 Isopropylbenzene	105	7.681	7.644	0.037	95	1470216	20.0	24.2	
93 Cyclohexanone	55	7.876	7.833	0.043	40	28919	200.0	144.1	
94 Bromobenzene	156	8.028	7.985	0.043	87	378208	20.0	23.2	
95 1,1,2,2-Tetrachloroethane	83	8.046	8.009	0.037	96	182717	20.0	20.7	
98 N-Propylbenzene	91	8.070	8.028	0.042	98	1707119	20.0	23.9	
97 trans-1,4-Dichloro-2-buten	53	8.088	8.052	0.036	72	50640	20.0	22.7	
96 1,2,3-Trichloropropane	110	8.088	8.052	0.036	83	61854	20.0	20.2	
100 4-Ethyltoluene	105	8.174	8.131	0.043	98	1499035	NC	NC	
99 2-Chlorotoluene	91	8.186	8.143	0.043	97	1188082	20.0	23.9	
101 1,3,5-Trimethylbenzene	105	8.228	8.192	0.036	95	1264823	20.0	24.4	
102 4-Chlorotoluene	91	8.289	8.247	0.042	96	1055861	20.0	23.5	
103 tert-Butylbenzene	119	8.539	8.502	0.037	91	1041586	20.0	23.4	
104 1,2,4-Trimethylbenzene	105	8.593	8.557	0.036	96	1234167	20.0	23.8	
106 sec-Butylbenzene	105	8.752	8.709	0.043	93	1442942	20.0	24.1	
108 4-Isopropyltoluene	119	8.885	8.843	0.042	96	1247406	20.0	23.7	
107 1,3-Dichlorobenzene	146	8.910	8.867	0.043	97	722288	20.0	23.7	
110 Dicyclopentadiene	66	8.977	8.934	0.043	87	1287170	NC	NC	
109 1,4-Dichlorobenzene	146	8.995	8.958	0.037	95	714106	20.0	23.2	
111 1,2,3-Trimethylbenzene	105	9.013	8.977	0.036	100	1204537	20.0	23.8	
112 Benzyl chloride	91	9.141	9.104	0.037	100	344007	20.0	24.5	
114 n-Butylbenzene	91	9.287	9.244	0.043	96	991956	20.0	25.1	
113 1,2-Dichlorobenzene	146	9.372	9.329	0.043	99	607480	20.0	23.1	
115 1,2-Dibromo-3-Chloropropan	157	10.254	10.212	0.042	92	32801	20.0	18.2	
116 1,3,5-Trichlorobenzene	180	10.431	10.382	0.049	97	369928	20.0	21.3	
117 1,2,4-Trichlorobenzene	180	11.161	11.118	0.043	94	253035	20.0	18.3	
118 Hexachlorobutadiene	225	11.288	11.246	0.042	95	161523	20.0	23.5	
119 Naphthalene	128	11.434	11.398	0.036	96	451779	20.0	18.1	
120 1,2,3-Trichlorobenzene	180	11.678	11.641	0.037	97	216033	20.0	18.4	
121 2-Methylnaphthalene	142	12.505	12.469	0.036	93	156484	20.0	11.1	
122 1-Methylnaphthalene	142	12.688	12.651	0.037	93	122460	20.0	11.5	
131 Propene TIC	41	2.011	2.005	0.006	0	399		NR	
127 4-Ethyltoluene TIC	105	7.364	7.297	0.067	0	330765		NR	
126 Dicyclopentadiene TIC	66	7.869	7.863	0.006	0	264		NR	
S 135 Xylenes, Total	1				0		40.0	47.1	
S 136 1,2-Dichloroethene, Total	1				0		40.0	83.4	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

Reagents:

V1_gases_I_00210	Amount Added: 10.00	Units: uL	
V1_Mega_I_00070	Amount Added: 10.00	Units: uL	
VOA_ISSS_50_W_00040	Amount Added: 5.00	Units: uL	Run Reagent

TestAmerica Nashville

Data File: \\ChromNA\\Nashville\\ChromData\\HP39\\20170508-90599.b\\05081726.D

Injection Date: 08-May-2017 21:23:30 Instrument ID: HP39

Lims ID: 480-117063-B-16 MSD

Client ID:

Purge Vol: 10.000 mL

Dil. Factor: 50.0000

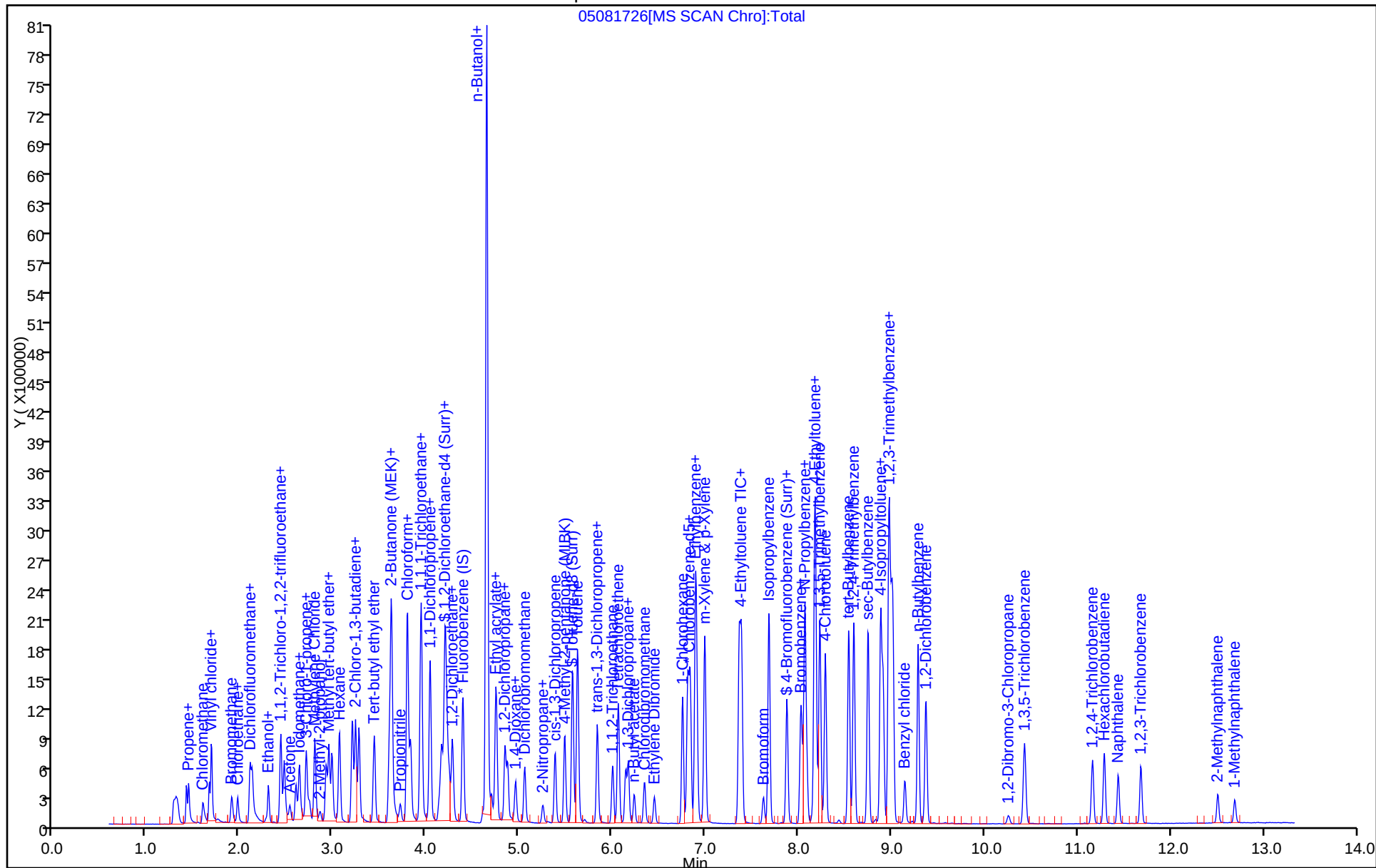
Method: 8260HP39

Limit Group: MSV 8260C ICAL

Operator ID: MJH HP-39

Worklist Smp#: 26

ALS Bottle#: 26



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica NashvilleJob No.: 480-117063-1

SDG No.: _____

Instrument ID: HP33Start Date: 11/08/2016 22:54Analysis Batch Number: 385231End Date: 11/09/2016 04:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-385231/1		11/08/2016 22:54	1	11081607.D	DB-624 0.18 (mm)
STD0005 490-385231/2 IC		11/08/2016 23:21	1	11081608.D	DB-624 0.18 (mm)
STD001 490-385231/3 IC		11/08/2016 23:48	1	11081609.D	DB-624 0.18 (mm)
STD002 490-385231/4 IC		11/09/2016 00:15	1	11081610.D	DB-624 0.18 (mm)
STD005 490-385231/5 IC		11/09/2016 00:41	1	11081611.D	DB-624 0.18 (mm)
STD010 490-385231/6 IC		11/09/2016 01:08	1	11081612.D	DB-624 0.18 (mm)
ICIS 490-385231/7		11/09/2016 01:35	1	11081613.D	DB-624 0.18 (mm)
STD050 490-385231/8 IC		11/09/2016 02:02	1	11081614.D	DB-624 0.18 (mm)
STD100 490-385231/9 IC		11/09/2016 02:29	1	11081615.D	DB-624 0.18 (mm)
STD200 490-385231/10 IC		11/09/2016 02:55	1	11081616.D	DB-624 0.18 (mm)
ICV 490-385231/13		11/09/2016 04:16	1	11081619.D	DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica NashvilleJob No.: 480-117063-1

SDG No.: _____

Instrument ID: HP33Start Date: 05/07/2017 02:08Analysis Batch Number: 428030End Date: 05/07/2017 13:51

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-428030/1		05/07/2017 02:08	1	05061732.D	DB-624 0.18 (mm)
CCVIS 490-428030/2		05/07/2017 02:35	1	05061733.D	DB-624 0.18 (mm)
LCS 490-428030/3		05/07/2017 03:02	1	05061734.D	DB-624 0.18 (mm)
LCSD 490-428030/4		05/07/2017 03:29	1	05061735.D	DB-624 0.18 (mm)
MB 490-428030/7		05/07/2017 04:50	1	05061738.D	DB-624 0.18 (mm)
480-117063-18		05/07/2017 05:44	1	05061740.D	DB-624 0.18 (mm)
480-117063-1		05/07/2017 06:11	1	05061741.D	DB-624 0.18 (mm)
480-117063-5		05/07/2017 06:38	1	05061742.D	DB-624 0.18 (mm)
480-117063-6		05/07/2017 07:05	1	05061743.D	DB-624 0.18 (mm)
480-117063-7		05/07/2017 07:32	1	05061744.D	DB-624 0.18 (mm)
480-117063-8		05/07/2017 07:59	1	05061745.D	DB-624 0.18 (mm)
480-117063-9		05/07/2017 08:26	1	05061746.D	DB-624 0.18 (mm)
480-117063-10		05/07/2017 08:53	1	05061747.D	DB-624 0.18 (mm)
480-117063-12		05/07/2017 09:20	1	05061748.D	DB-624 0.18 (mm)
ZZZZZ		05/07/2017 09:47	2000		DB-624 0.18 (mm)
480-117063-3		05/07/2017 10:15	20	05061750.D	DB-624 0.18 (mm)
480-117063-4		05/07/2017 10:42	250	05061751.D	DB-624 0.18 (mm)
480-117063-13		05/07/2017 11:09	5	05061752.D	DB-624 0.18 (mm)
480-117063-14		05/07/2017 11:36	25	05061753.D	DB-624 0.18 (mm)
480-117063-15		05/07/2017 12:03	200	05061754.D	DB-624 0.18 (mm)
ZZZZZ		05/07/2017 12:30	100		DB-624 0.18 (mm)
480-117063-17		05/07/2017 12:57	50	05061756.D	DB-624 0.18 (mm)
480-117063-1 MS		05/07/2017 13:24	1	05061757.D	DB-624 0.18 (mm)
480-117063-1 MSD		05/07/2017 13:51	1	05061758.D	DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 480-117063-1

SDG No.: _____

Instrument ID: HP33 Start Date: 05/09/2017 10:04Analysis Batch Number: 428592 End Date: 05/09/2017 21:51

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-428592/1		05/09/2017 10:04	1	05091701.D	DB-624 0.18 (mm)
CCVIS 490-428592/2		05/09/2017 10:32	1	05091702.D	DB-624 0.18 (mm)
LCS 490-428592/3		05/09/2017 10:59	1	05091703.D	DB-624 0.18 (mm)
LCSD 490-428592/4		05/09/2017 11:27	1	05091704.D	DB-624 0.18 (mm)
MB 490-428592/7		05/09/2017 12:48	1	05091707.D	DB-624 0.18 (mm)
ZZZZZ		05/09/2017 14:37	1		DB-624 0.18 (mm)
480-117063-11		05/09/2017 15:32	25	05091713.D	DB-624 0.18 (mm)
ZZZZZ		05/09/2017 21:24	1		DB-624 0.18 (mm)
ZZZZZ		05/09/2017 21:51	1		DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 480-117063-1

SDG No.: _____

Instrument ID: HP39 Start Date: 03/16/2017 17:11Analysis Batch Number: 415044 End Date: 03/16/2017 23:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-415044/4		03/16/2017 17:11	1	03161704.D	DB-624 0.18 (mm)
STD 490-415044/5 IC		03/16/2017 17:49	1	03161705.D	DB-624 0.18 (mm)
STD 490-415044/6 IC		03/16/2017 18:15	1	03161706.D	DB-624 0.18 (mm)
STD 490-415044/7 IC		03/16/2017 18:41	1	03161707.D	DB-624 0.18 (mm)
STD 490-415044/8 IC		03/16/2017 19:07	1	03161708.D	DB-624 0.18 (mm)
STD 490-415044/9 IC		03/16/2017 19:33	1	03161709.D	DB-624 0.18 (mm)
STD 490-415044/10 IC		03/16/2017 19:59	1	03161710.D	DB-624 0.18 (mm)
ICIS 490-415044/11		03/16/2017 20:25	1	03161711.D	DB-624 0.18 (mm)
STD 490-415044/12 IC		03/16/2017 20:51	1	03161712.D	DB-624 0.18 (mm)
STD 490-415044/13 IC		03/16/2017 21:17	1	03161713.D	DB-624 0.18 (mm)
STD 490-415044/14 IC		03/16/2017 21:43	1	03161714.D	DB-624 0.18 (mm)
ICV 490-415044/17		03/16/2017 23:01	1	03161717.D	DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Nashville Job No.: 480-117063-1

SDG No.: _____

Instrument ID: HP39 Start Date: 05/08/2017 10:34Analysis Batch Number: 428184 End Date: 05/08/2017 21:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 490-428184/1		05/08/2017 10:34	1	05081701.D	DB-624 0.18 (mm)
CCVIS 490-428184/2		05/08/2017 11:00	1	05081702.D	DB-624 0.18 (mm)
LCS 490-428184/3		05/08/2017 11:26	1	05081703.D	DB-624 0.18 (mm)
LCSD 490-428184/4		05/08/2017 11:52	1	05081704.D	DB-624 0.18 (mm)
MB 490-428184/7		05/08/2017 13:10	1	05081707.D	DB-624 0.18 (mm)
ZZZZZ		05/08/2017 13:36	1		DB-624 0.18 (mm)
480-117063-2		05/08/2017 14:02	500	05081709.D	DB-624 0.18 (mm)
480-117063-13		05/08/2017 14:28	100	05081710.D	DB-624 0.18 (mm)
480-117063-16		05/08/2017 14:54	50	05081711.D	DB-624 0.18 (mm)
480-117063-17		05/08/2017 15:20	500	05081712.D	DB-624 0.18 (mm)
480-117063-16 MS		05/08/2017 20:58	50	05081725.D	DB-624 0.18 (mm)
480-117063-16 MSD		05/08/2017 21:23	50	05081726.D	DB-624 0.18 (mm)

Method 8260C SIM

Volatile Organic Compounds (GC/MS
SIM) by Method 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 480-117063-1
 SDG No.: _____
 Matrix: Water Level: Low
 GC Column (1): Rtx-624 ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DCA #	BFB #
MW-1	480-117063-1	78	93
MW-2	480-117063-2	74	75
MW-3	480-117063-3	78	88
MW-4	480-117063-4	76	86
MW-4D	480-117063-5	77	92
MW-5	480-117063-6	79	91
MW-5D	480-117063-7	78	89
MW-6	480-117063-8	72	82
MW-7	480-117063-9	77	90
MW-8	480-117063-10	77	89
MW-9R	480-117063-11	78	89
MW-10	480-117063-12	79	87
MW-11R	480-117063-13	78	85
MW-12	480-117063-14	79	87
MW-13	480-117063-15	77	85
MW-14	480-117063-16	81	91
DUP-042517	480-117063-17	82	90
	MB 460-434882/9	82	93
	MB 460-435512/7	100	97
	LCS 460-434882/5	76	91
	LCS 460-435512/3	103	104
	LCSD 460-434882/6	76	93
	LCSD 460-435512/4	98	103
MW-1 MS	480-117063-1 MS	100	95
MW-1 MSD	480-117063-1 MSD	96	89

DCA = 1,2-Dichloroethane-d4 (Surr)
 BFB = 4-Bromofluorobenzene

QC LIMITS
 71-144
 72-133

Column to be used to flag recovery values

FORM II 8260C SIM

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 480-117063-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: D36127.D
Lab ID: LCS 460-434882/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	5.00	5.56	111	66-135	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 480-117063-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: D36265.D
Lab ID: LCS 460-435512/3 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	5.00	6.09	122	66-135	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 480-117063-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: D36128.D
Lab ID: LCSD 460-434882/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,4-Dioxane	5.00	5.57	111	0	30	66-135	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 480-117063-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: D36266.D
Lab ID: LCSD 460-435512/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,4-Dioxane	5.00	5.99	120	2	30	66-135	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 480-117063-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: D36286.D
Lab ID: 480-117063-1 MS Client ID: MW-1 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,4-Dioxane	5.00	ND	5.91	118	66-135	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 480-117063-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: D36287.D
Lab ID: 480-117063-1 MSD Client ID: MW-1 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,4-Dioxane	5.00	5.45	109	8	30	66-135	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 480-117063-1
 SDG No.: _____
 Lab File ID: D36131.D Lab Sample ID: MB 460-434882/9
 Matrix: Water Heated Purge: (Y/N) Y
 Instrument ID: CVOAMS4 Date Analyzed: 05/04/2017 09:44
 GC Column: Rtx-624 ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-434882/5	D36127.D	05/04/2017 08:10
	LCSD 460-434882/6	D36128.D	05/04/2017 08:34
MW-1	480-117063-1	D36132.D	05/04/2017 10:07
MW-2	480-117063-2	D36133.D	05/04/2017 10:31
MW-3	480-117063-3	D36134.D	05/04/2017 10:54
MW-4	480-117063-4	D36135.D	05/04/2017 11:18
MW-4D	480-117063-5	D36136.D	05/04/2017 11:42
MW-5	480-117063-6	D36137.D	05/04/2017 12:05
MW-5D	480-117063-7	D36138.D	05/04/2017 12:29
MW-6	480-117063-8	D36139.D	05/04/2017 12:52
MW-7	480-117063-9	D36140.D	05/04/2017 13:15
MW-8	480-117063-10	D36141.D	05/04/2017 13:39
MW-9R	480-117063-11	D36142.D	05/04/2017 14:02
MW-10	480-117063-12	D36143.D	05/04/2017 14:26
MW-11R	480-117063-13	D36144.D	05/04/2017 14:49
MW-12	480-117063-14	D36145.D	05/04/2017 15:12
MW-13	480-117063-15	D36146.D	05/04/2017 15:36
MW-14	480-117063-16	D36147.D	05/04/2017 15:59
DUP-042517	480-117063-17	D36148.D	05/04/2017 16:22

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 480-117063-1
SDG No.: _____
Lab File ID: D36269.D Lab Sample ID: MB 460-435512/7
Matrix: Water Heated Purge: (Y/N) Y
Instrument ID: CVOAMS4 Date Analyzed: 05/07/2017 10:27
GC Column: Rtx-624 ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-435512/3	D36265.D	05/07/2017 08:40
	LCSD 460-435512/4	D36266.D	05/07/2017 09:03
MW-1 MS	480-117063-1 MS	D36286.D	05/07/2017 17:09
MW-1 MSD	480-117063-1 MSD	D36287.D	05/07/2017 17:33

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

Lab Name: TestAmerica Edison Job No.: 480-117063-1
 SDG No.: _____
 Lab File ID: D36022.D BFB Injection Date: 05/02/2017
 Instrument ID: CVOAMS4 BFB Injection Time: 12:58
 Analysis Batch No.: 434447

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	46.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.0
173	Less than 2.0 % of mass 174	0.7 (0.8) 1
174	50.0 - 120.00 % of mass 95	83.2
175	5.0 - 9.0 % of mass 174	6.6 (7.9) 1
176	95.0 - 101.0 % of mass 174	79.3 (95.3) 1
177	5.0 - 9.0 % of mass 176	5.7 (7.2) 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
	STD04 460-434447/2	D36023.D	05/02/2017	13:31
	STD5 460-434447/5	D36026.D	05/02/2017	14:41
	STD20 460-434447/6	D36027.D	05/02/2017	15:32
	STD30 460-434447/7	D36028.D	05/02/2017	15:56
	STD40 460-434447/8	D36029.D	05/02/2017	16:20
	STD50 460-434447/9	D36030.D	05/02/2017	16:43
	STD10 460-434447/12	D36033.D	05/02/2017	17:54
	STD1 460-434447/14	D36035.D	05/02/2017	19:16

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

Lab Name: TestAmerica Edison Job No.: 480-117063-1
SDG No.: _____
Lab File ID: D36123.D BFB Injection Date: 05/04/2017
Instrument ID: CVOAMS4 BFB Injection Time: 06:26
Analysis Batch No.: 434882

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	22.2
75	30.0 - 60.0 % of mass 95	50.8
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	0.2 (0.3) 1
174	50.0 - 120.00 % of mass 95	65.4
175	5.0 - 9.0 % of mass 174	4.7 (7.1) 1
176	95.0 - 101.0 % of mass 174	63.4 (96.9) 1
177	5.0 - 9.0 % of mass 176	4.1 (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 460-434882/4	D36126.D	05/04/2017	07:32
	LCS 460-434882/5	D36127.D	05/04/2017	08:10
	LCSD 460-434882/6	D36128.D	05/04/2017	08:34
	MB 460-434882/9	D36131.D	05/04/2017	09:44
MW-1	480-117063-1	D36132.D	05/04/2017	10:07
MW-2	480-117063-2	D36133.D	05/04/2017	10:31
MW-3	480-117063-3	D36134.D	05/04/2017	10:54
MW-4	480-117063-4	D36135.D	05/04/2017	11:18
MW-4D	480-117063-5	D36136.D	05/04/2017	11:42
MW-5	480-117063-6	D36137.D	05/04/2017	12:05
MW-5D	480-117063-7	D36138.D	05/04/2017	12:29
MW-6	480-117063-8	D36139.D	05/04/2017	12:52
MW-7	480-117063-9	D36140.D	05/04/2017	13:15
MW-8	480-117063-10	D36141.D	05/04/2017	13:39
MW-9R	480-117063-11	D36142.D	05/04/2017	14:02
MW-10	480-117063-12	D36143.D	05/04/2017	14:26
MW-11R	480-117063-13	D36144.D	05/04/2017	14:49
MW-12	480-117063-14	D36145.D	05/04/2017	15:12
MW-13	480-117063-15	D36146.D	05/04/2017	15:36
MW-14	480-117063-16	D36147.D	05/04/2017	15:59
DUP-042517	480-117063-17	D36148.D	05/04/2017	16:22

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

Lab Name: TestAmerica Edison Job No.: 480-117063-1
 SDG No.: _____
 Lab File ID: D36234.D BFB Injection Date: 05/06/2017
 Instrument ID: CVOAMS4 BFB Injection Time: 17:29
 Analysis Batch No.: 435468

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	48.7
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	68.3
175	5.0 - 9.0 % of mass 174	5.3 (7.7) 1
176	95.0 - 101.0 % of mass 174	67.2 (98.3) 1
177	5.0 - 9.0 % of mass 176	4.6 (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
	STD04 460-435468/2	D36235.D	05/06/2017	17:58
	STD1 460-435468/3	D36236.D	05/06/2017	18:21
	STD5 460-435468/4	D36237.D	05/06/2017	18:45
	STD10 460-435468/5	D36238.D	05/06/2017	19:08
	STD20 460-435468/6	D36239.D	05/06/2017	19:32
	STD30 460-435468/7	D36240.D	05/06/2017	19:56
	STD40 460-435468/8	D36241.D	05/06/2017	20:20
	STD50 460-435468/9	D36242.D	05/06/2017	20:43

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

Lab Name: TestAmerica Edison Job No.: 480-117063-1
 SDG No.: _____
 Lab File ID: D36263.D BFB Injection Date: 05/07/2017
 Instrument ID: CVOAMS4 BFB Injection Time: 07:52
 Analysis Batch No.: 435512

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	49.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.1
173	Less than 2.0 % of mass 174	0.2 (0.2) 1
174	50.0 - 120.00 % of mass 95	75.1
175	5.0 - 9.0 % of mass 174	5.4 (7.2) 1
176	95.0 - 101.0 % of mass 174	71.7 (95.5) 1
177	5.0 - 9.0 % of mass 176	4.3 (6.1) 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 460-435512/2	D36264.D	05/07/2017	08:16
	LCS 460-435512/3	D36265.D	05/07/2017	08:40
	LCSD 460-435512/4	D36266.D	05/07/2017	09:03
	MB 460-435512/7	D36269.D	05/07/2017	10:27
MW-1 MS	480-117063-1 MS	D36286.D	05/07/2017	17:09
MW-1 MSD	480-117063-1 MSD	D36287.D	05/07/2017	17:33

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

Lab Name: TestAmerica Edison Job No.: 480-117063-1
 SDG No.: _____
 Sample No.: CCVIS 460-434882/4 Date Analyzed: 05/04/2017 07:32
 Instrument ID: CVOAMS4 GC Column: Rtx-624 ID: 0.25 (mm)
 Lab File ID (Standard): D36126.D Heated Purge: (Y/N) Y
 Calibration ID: 62237

	FB		DXE		CBNZd5	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	24811	6.21	506	7.05	7157	9.27
UPPER LIMIT	49622	6.71	1012	7.55	14314	9.77
LOWER LIMIT	12406	5.71	253	6.55	3579	8.77
LAB SAMPLE ID	CLIENT SAMPLE ID					
LCS 460-434882/5		23926	6.21	494	7.05	6817 9.27
LCSD 460-434882/6		23305	6.21	458	7.05	6508 9.28
MB 460-434882/9		23921	6.21	477	7.05	6665 9.27
480-117063-1	MW-1	23270	6.21	447	7.05	6485 9.27
480-117063-2	MW-2	24292	6.22	666	7.05	8751 9.28
480-117063-3	MW-3	26085	6.22	564	7.06	7265 9.28
480-117063-4	MW-4	26539	6.22	653	7.05	7345 9.27
480-117063-5	MW-4D	24110	6.21	432	7.05	6716 9.28
480-117063-6	MW-5	23642	6.21	492	7.05	6598 9.28
480-117063-7	MW-5D	23329	6.21	488	7.05	6388 9.28
480-117063-8	MW-6	22752	6.21	603	7.05	6218 9.28
480-117063-9	MW-7	23461	6.21	459	7.05	6492 9.27
480-117063-10	MW-8	22394	6.21	409	7.05	6121 9.28
480-117063-11	MW-9R	24031	6.21	505	7.05	6437 9.28
480-117063-12	MW-10	22780	6.21	532	7.05	6294 9.28
480-117063-13	MW-11R	25934	6.22	524	7.05	7181 9.28
480-117063-14	MW-12	24063	6.21	478	7.05	6514 9.28
480-117063-15	MW-13	25390	6.22	447	7.05	6822 9.27
480-117063-16	MW-14	23984	6.21	529	7.05	6567 9.28
480-117063-17	DUP-042517	22576	6.22	425	7.05	6210 9.27

FB = Fluorobenzene

DXE = 1,4-Dioxane-d8

CBNZd5 = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Edison Job No.: 480-117063-1
 SDG No.: _____
 Sample No.: CCVIS 460-435512/2 Date Analyzed: 05/07/2017 08:16
 Instrument ID: CVOAMS4 GC Column: Rtx-624 ID: 0.25 (mm)
 Lab File ID (Standard): D36264.D Heated Purge: (Y/N) Y
 Calibration ID: 62283

		FB		DXE		CBNZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		37828	6.21	750	7.05	10755	9.28
UPPER LIMIT		75656	6.71	1500	7.55	21510	9.78
LOWER LIMIT		18914	5.71	375	6.55	5378	8.78
LAB SAMPLE ID		CLIENT SAMPLE ID					
LCS 460-435512/3		39377	6.21	711	7.05	11071	9.27
LCSD 460-435512/4		38296	6.21	697	7.05	10654	9.27
MB 460-435512/7		37170	6.21	1043	7.05	10196	9.27
480-117063-1 MS	MW-1 MS	42387	6.21	746	7.05	11199	9.28
480-117063-1 MSD	MW-1 MSD	40252	6.21	775	7.05	10660	9.27

FB = Fluorobenzene

DXE = 1,4-Dioxane-d8

CBNZd5 = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 480-117063-1
SDG No.: _____
Client Sample ID: MW-1 Lab Sample ID: 480-117063-1
Matrix: Water Lab File ID: D36132.D
Analysis Method: 8260C SIM Date Collected: 04/26/2017 08:45
Sample wt/vol: 10 (mL) Date Analyzed: 05/04/2017 10:07
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 434882 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	78		71-144
460-00-4	4-Bromofluorobenzene	93		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\D36132.D
 Lims ID: 480-117063-C-1
 Client ID: MW-1
 Sample Type: Client
 Inject. Date: 04-May-2017 10:07:30 ALS Bottle#: 9 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-117063-C-1
 Misc. Info.: 460-0054674-010
 Operator ID: Instrument ID: CVOAMS4
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 04-May-2017 12:32:03 Calib Date: 02-May-2017 19:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: desais

Date: 04-May-2017 12:31:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	23270	0.5000	
* 2 1,4-Dioxane-d8	64	7.049	7.049	0.000	99	447	10.0	
* 3 Chlorobenzene-d5	82	9.274	9.274	0.000	100	6485	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.867	5.867	0.000	12	3330	0.3891	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	96	3449	0.4658	

Reagents:

SimissurNEW_00004 Amount Added: 2.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170504-54674.b\\D36132.D

Injection Date: 04-May-2017 10:07:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: 480-117063-C-1

Lab Sample ID: 460-117063-1

Worklist Smp#: 10

Client ID: MW-1

Purge Vol: 5.000 mL

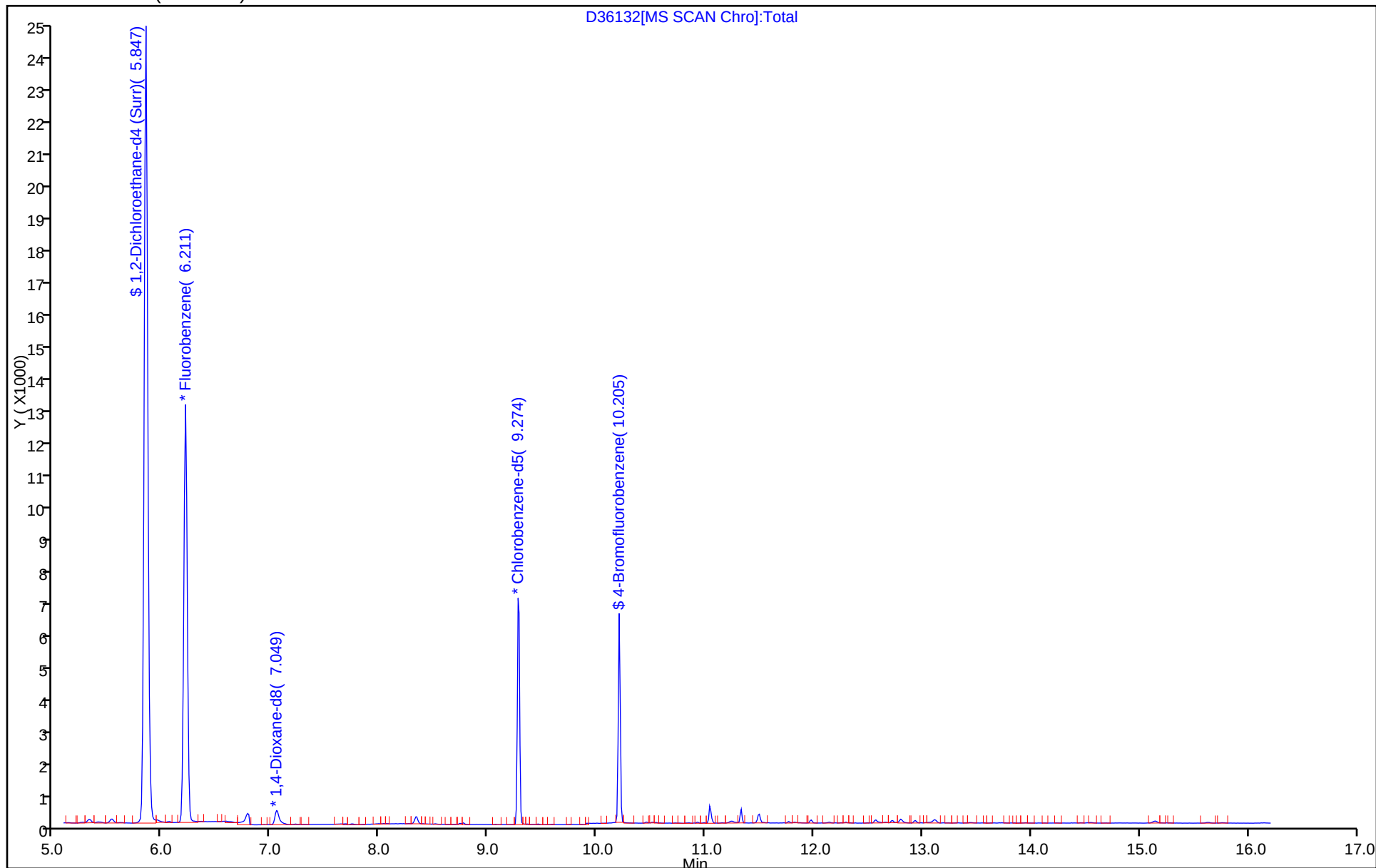
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 480-117063-1
SDG No.: _____
Client Sample ID: MW-2 Lab Sample ID: 480-117063-2
Matrix: Water Lab File ID: D36133.D
Analysis Method: 8260C SIM Date Collected: 04/24/2017 17:10
Sample wt/vol: 10 (mL) Date Analyzed: 05/04/2017 10:31
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 434882 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.33	J	0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	74		71-144
460-00-4	4-Bromofluorobenzene	75		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\D36133.D
 Lims ID: 480-117063-C-2
 Client ID: MW-2
 Sample Type: Client
 Inject. Date: 04-May-2017 10:31:30 ALS Bottle#: 10 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-117063-C-2
 Misc. Info.: 460-0054674-011
 Operator ID: Instrument ID: CVOAMS4
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 09-May-2017 17:27:14 Calib Date: 02-May-2017 19:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: boykink

Date: 04-May-2017 19:54:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.221	6.211	0.010	99	24292	0.5000	
* 2 1,4-Dioxane-d8	64	7.049	7.049	0.000	99	666	10.0	
* 3 Chlorobenzene-d5	82	9.275	9.274	0.001	96	8751	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.878	5.867	0.011	0	3328	0.3725	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	96	3747	0.3750	
7 1,4-Dioxane	88	7.110	7.110	0.000	27	26	0.3298	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SimissurNEW_00004

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\D36133.D

Injection Date: 04-May-2017 10:31:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: 480-117063-C-2

Lab Sample ID: 460-117063-2

Worklist Smp#: 11

Client ID: MW-2

Purge Vol: 5.000 mL

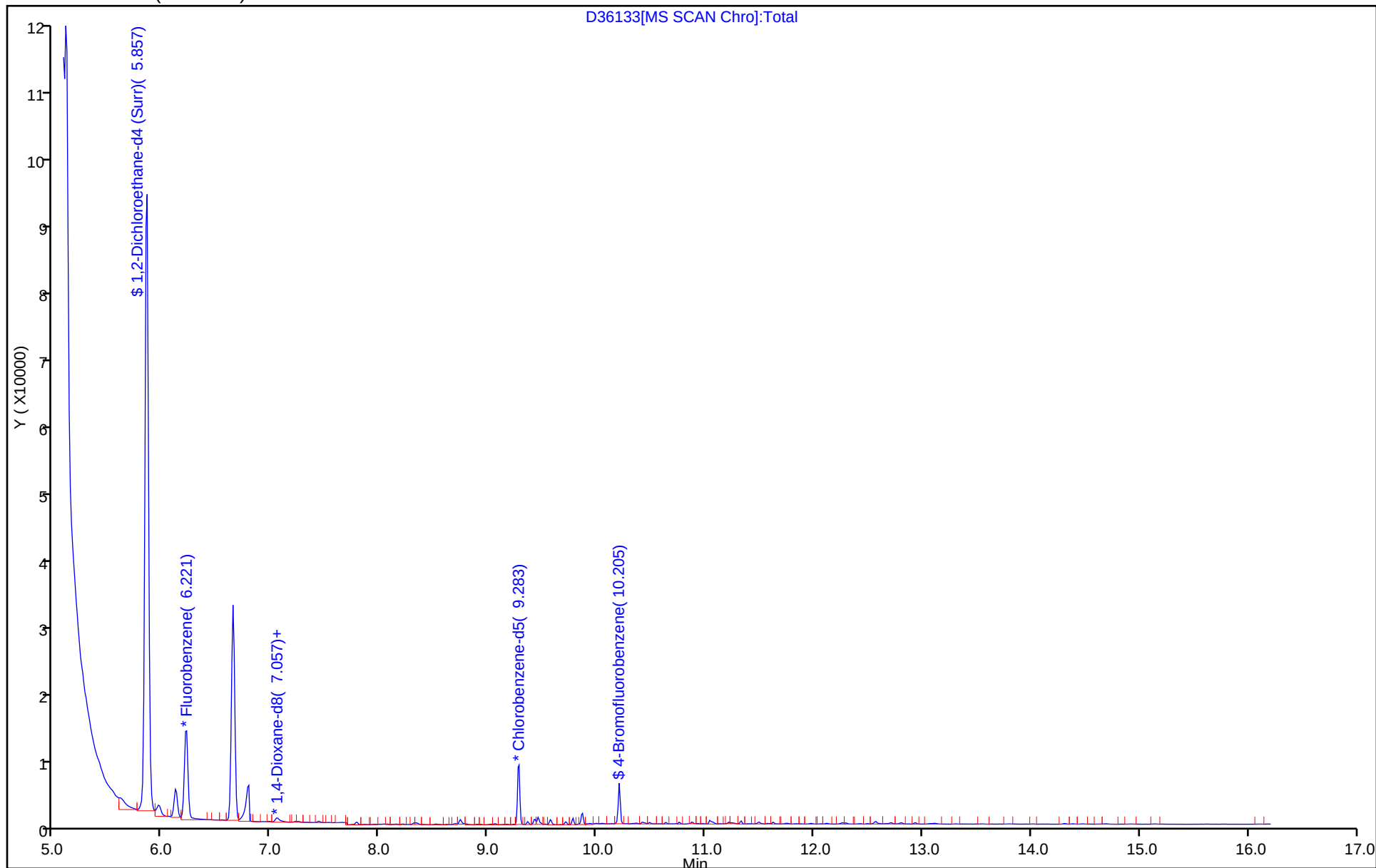
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\D36133.D

Injection Date: 04-May-2017 10:31:30

Instrument ID: CVOAMS4

Lims ID: 480-117063-C-2

Lab Sample ID: 460-117063-2

Client ID: MW-2

Operator ID:

ALS Bottle#: 10 Worklist Smp#: 11

Purge Vol: 5.000 mL

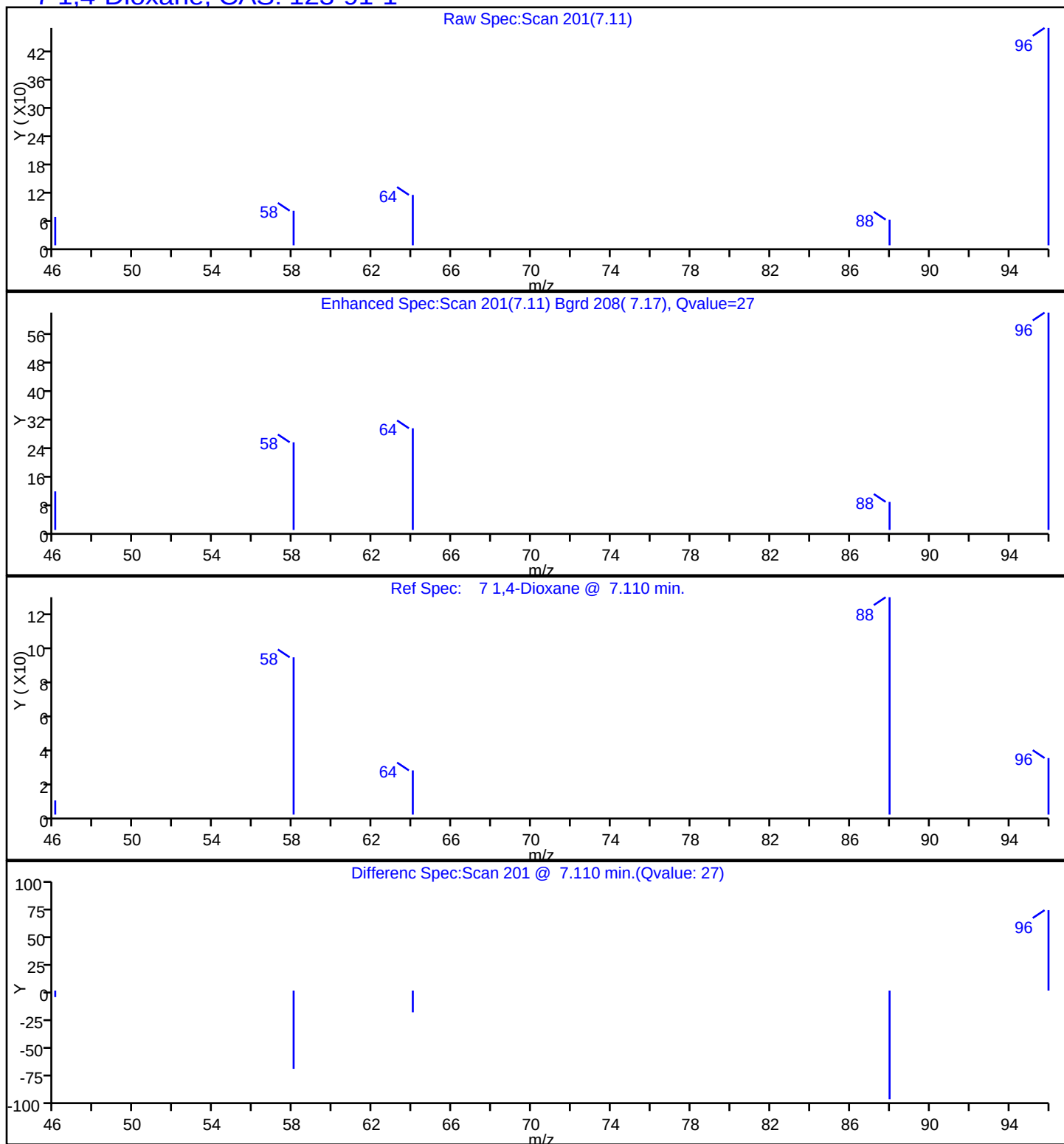
Dil. Factor: 1.0000

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector MS SCAN

7 1,4-Dioxane, CAS: 123-91-1

TestAmerica Edison

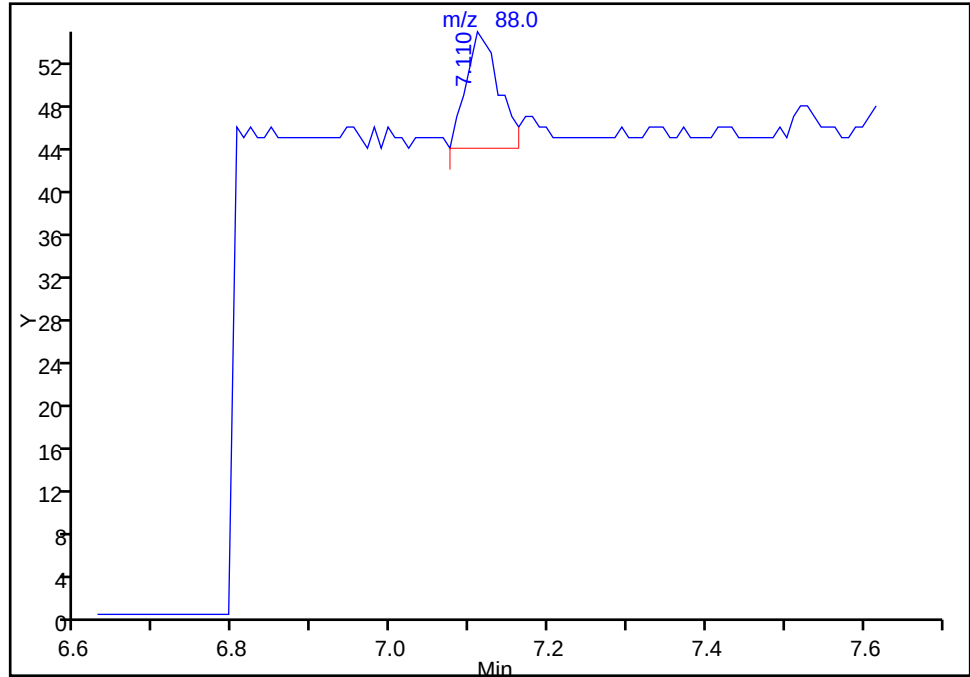
Data File:	\\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\D36133.D		
Injection Date:	04-May-2017 10:31:30	Instrument ID:	CVOAMS4
Lims ID:	480-117063-C-2	Lab Sample ID:	460-117063-2
Client ID:	MW-2		
Operator ID:		ALS Bottle#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260SIM_4	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector:	MS SCAN
		Worklist Smp#:	11

7 1,4-Dioxane, CAS: 123-91-1

Signal: 1

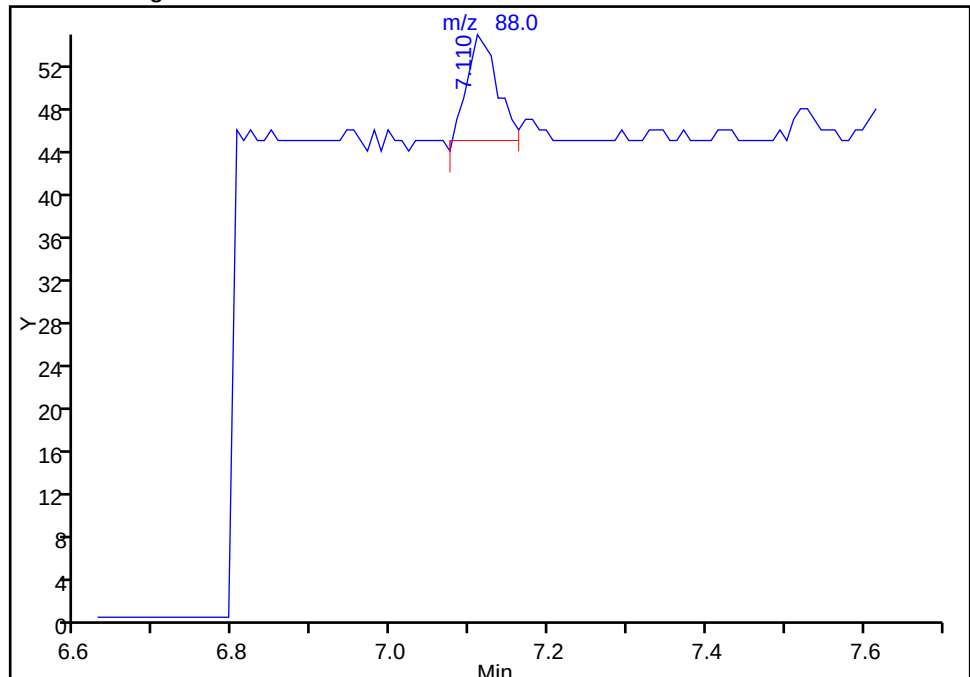
RT: 7.11
Area: 32
Amount: 0.405924
Amount Units: ug/l

Processing Integration Results



RT: 7.11
Area: 26
Amount: 0.329813
Amount Units: ug/l

Manual Integration Results



Reviewer: baronm, 09-May-2017 17:27:02

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 480-117063-1
SDG No.: _____
Client Sample ID: MW-3 Lab Sample ID: 480-117063-3
Matrix: Water Lab File ID: D36134.D
Analysis Method: 8260C SIM Date Collected: 04/26/2017 13:20
Sample wt/vol: 10 (mL) Date Analyzed: 05/04/2017 10:54
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 434882 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	78		71-144
460-00-4	4-Bromofluorobenzene	88		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\D36134.D
 Lims ID: 480-117063-C-3
 Client ID: MW-3
 Sample Type: Client
 Inject. Date: 04-May-2017 10:54:30 ALS Bottle#: 11 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-117063-C-3
 Misc. Info.: 460-0054674-012
 Operator ID: Instrument ID: CVOAMS4
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 04-May-2017 12:32:03 Calib Date: 02-May-2017 19:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: desais

Date: 04-May-2017 12:31:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.221	6.211	0.010	99	26085	0.5000	
* 2 1,4-Dioxane-d8	64	7.057	7.049	0.008	93	564	10.0	
* 3 Chlorobenzene-d5	82	9.275	9.274	0.001	98	7265	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.878	5.867	0.011	23	3730	0.3888	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	97	3666	0.4420	

Reagents:

SimissurNEW_00004 Amount Added: 2.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170504-54674.b\\D36134.D

Injection Date: 04-May-2017 10:54:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: 480-117063-C-3

Lab Sample ID: 460-117063-3

Worklist Smp#: 12

Client ID: MW-3

Purge Vol: 5.000 mL

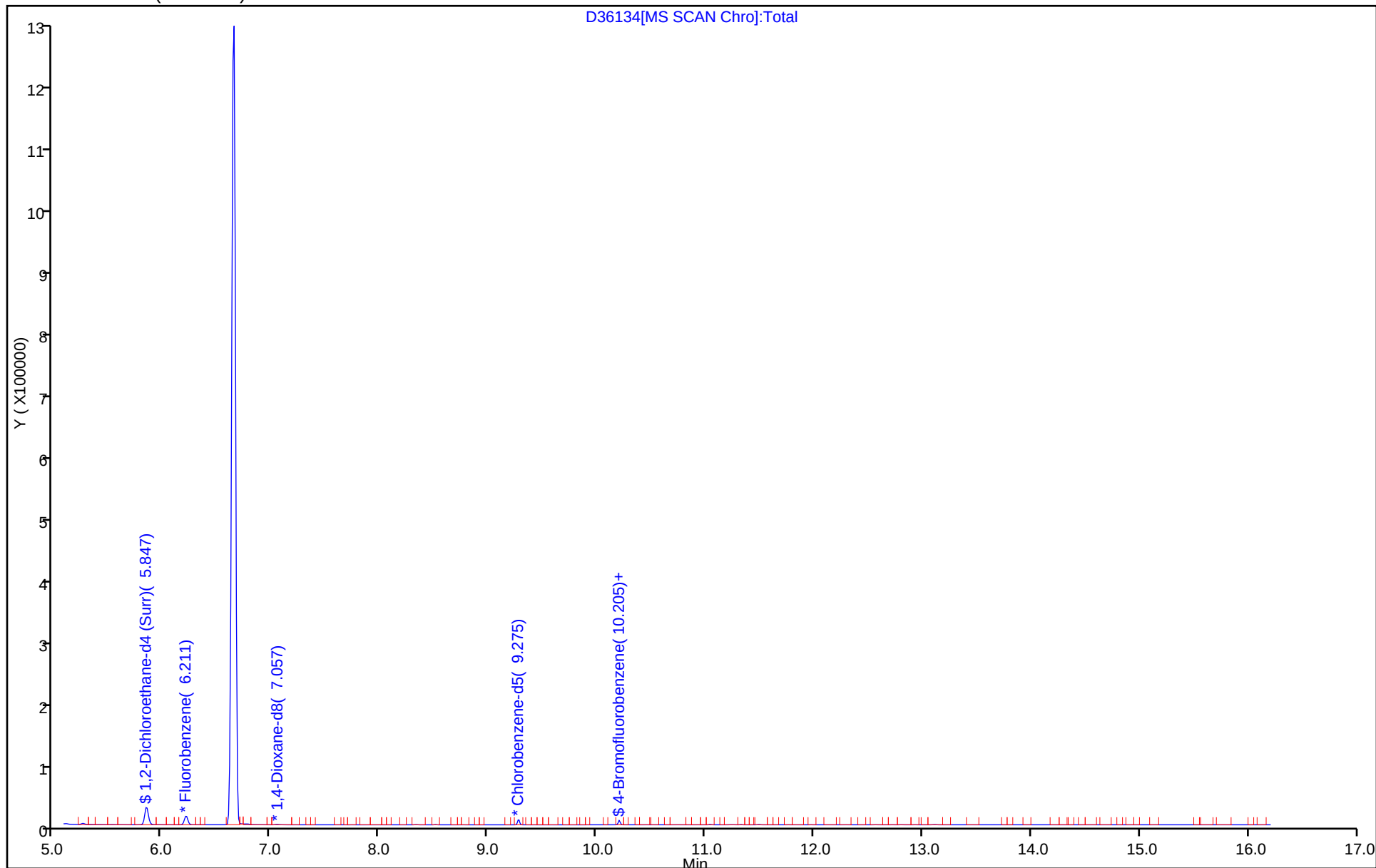
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 480-117063-1
SDG No.: _____
Client Sample ID: MW-4 Lab Sample ID: 480-117063-4
Matrix: Water Lab File ID: D36135.D
Analysis Method: 8260C SIM Date Collected: 04/25/2017 13:05
Sample wt/vol: 10 (mL) Date Analyzed: 05/04/2017 11:18
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 434882 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	76		71-144
460-00-4	4-Bromofluorobenzene	86		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\D36135.D
 Lims ID: 480-117063-C-4
 Client ID: MW-4
 Sample Type: Client
 Inject. Date: 04-May-2017 11:18:30 ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-117063-C-4
 Misc. Info.: 460-0054674-013
 Operator ID: Instrument ID: CVOAMS4
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 04-May-2017 12:32:03 Calib Date: 02-May-2017 19:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: desais

Date: 04-May-2017 12:32:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.221	6.211	0.010	99	26539	0.5000	
* 2 1,4-Dioxane-d8	64	7.049	7.049	-0.001	84	653	10.0	
* 3 Chlorobenzene-d5	82	9.274	9.274	0.000	98	7345	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.878	5.867	0.011	8	3722	0.3813	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	93	3599	0.4292	

Reagents:

SimissurNEW_00004 Amount Added: 2.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170504-54674.b\\D36135.D

Injection Date: 04-May-2017 11:18:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: 480-117063-C-4

Lab Sample ID: 460-117063-4

Worklist Smp#: 13

Client ID: MW-4

Purge Vol: 5.000 mL

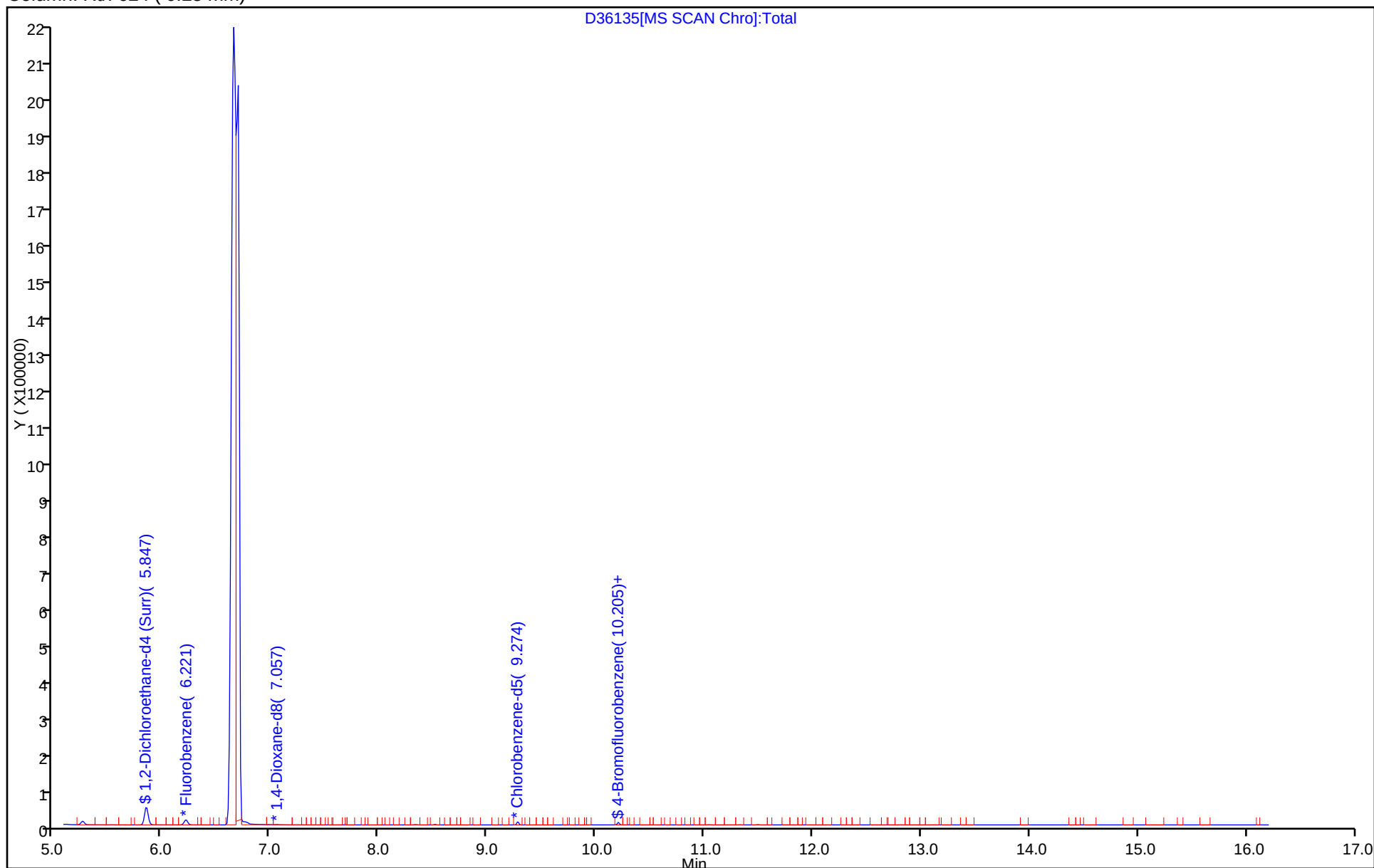
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 480-117063-1
SDG No.: _____
Client Sample ID: MW-4D Lab Sample ID: 480-117063-5
Matrix: Water Lab File ID: D36136.D
Analysis Method: 8260C SIM Date Collected: 04/25/2017 14:15
Sample wt/vol: 10 (mL) Date Analyzed: 05/04/2017 11:42
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 434882 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	77		71-144
460-00-4	4-Bromofluorobenzene	92		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\D36136.D
 Lims ID: 480-117063-C-5
 Client ID: MW-4D
 Sample Type: Client
 Inject. Date: 04-May-2017 11:42:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-117063-C-5
 Misc. Info.: 460-0054674-014
 Operator ID: Instrument ID: CVOAMS4
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 04-May-2017 12:32:03 Calib Date: 02-May-2017 19:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: desais

Date: 04-May-2017 12:32:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	24110	0.5000	
* 2 1,4-Dioxane-d8	64	7.049	7.049	0.000	97	432	10.0	
* 3 Chlorobenzene-d5	82	9.275	9.274	0.001	99	6716	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.878	5.867	0.011	41	3438	0.3877	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	96	3511	0.4579	

Reagents:

SimissurNEW_00004 Amount Added: 2.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170504-54674.b\\D36136.D

Injection Date: 04-May-2017 11:42:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: 480-117063-C-5

Lab Sample ID: 460-117063-5

Worklist Smp#: 14

Client ID: MW-4D

Purge Vol: 5.000 mL

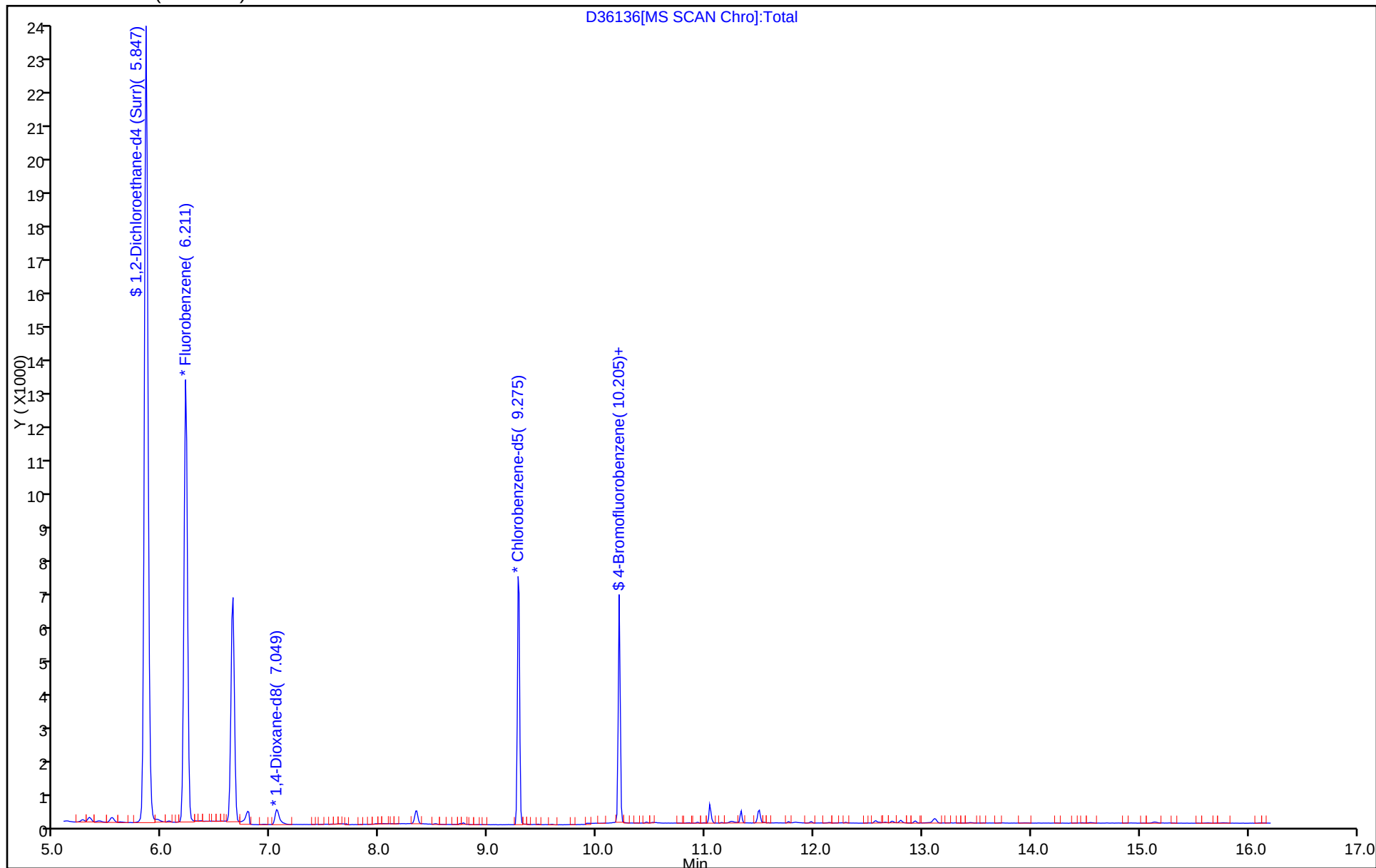
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 480-117063-1
SDG No.: _____
Client Sample ID: MW-5 Lab Sample ID: 480-117063-6
Matrix: Water Lab File ID: D36137.D
Analysis Method: 8260C SIM Date Collected: 04/25/2017 11:05
Sample wt/vol: 10 (mL) Date Analyzed: 05/04/2017 12:05
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 434882 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	79		71-144
460-00-4	4-Bromofluorobenzene	91		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\D36137.D
 Lims ID: 480-117063-C-6
 Client ID: MW-5
 Sample Type: Client
 Inject. Date: 04-May-2017 12:05:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-117063-C-6
 Misc. Info.: 460-0054674-015
 Operator ID: Instrument ID: CVOAMS4
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 04-May-2017 12:32:03 Calib Date: 02-May-2017 19:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: desais

Date: 04-May-2017 12:32:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	23642	0.5000	
* 2 1,4-Dioxane-d8	64	7.049	7.049	0.000	100	492	10.0	
* 3 Chlorobenzene-d5	82	9.275	9.274	0.001	99	6598	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.878	5.867	0.011	41	3446	0.3963	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	95	3417	0.4536	

Reagents:

SimissurNEW_00004 Amount Added: 2.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\D36137.D

Injection Date: 04-May-2017 12:05:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: 480-117063-C-6

Lab Sample ID: 460-117063-6

Worklist Smp#: 15

Client ID: MW-5

Purge Vol: 5.000 mL

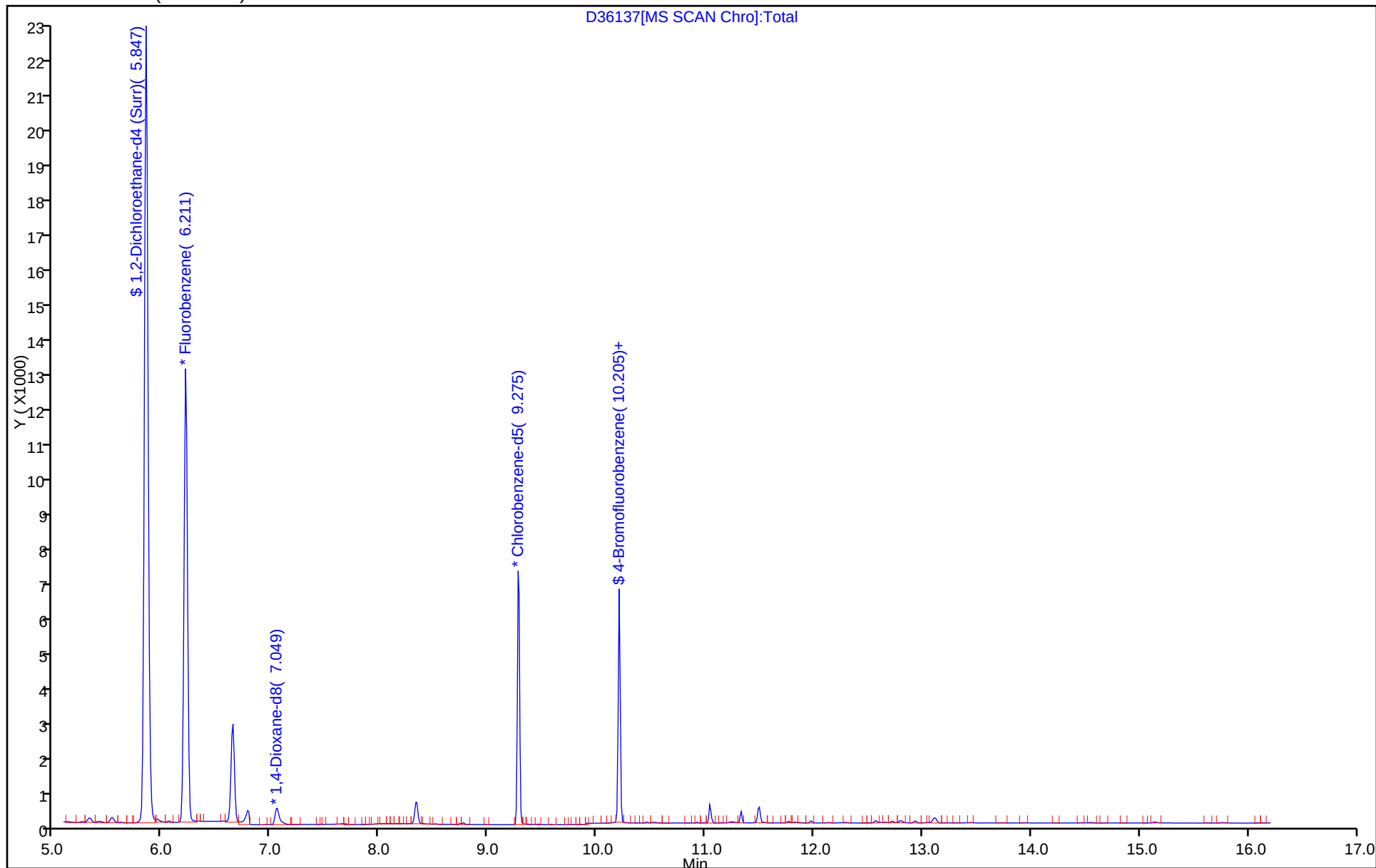
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 480-117063-1
SDG No.: _____
Client Sample ID: MW-5D Lab Sample ID: 480-117063-7
Matrix: Water Lab File ID: D36138.D
Analysis Method: 8260C SIM Date Collected: 04/25/2017 10:00
Sample wt/vol: 10 (mL) Date Analyzed: 05/04/2017 12:29
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 434882 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	78		71-144
460-00-4	4-Bromofluorobenzene	89		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\D36138.D
 Lims ID: 480-117063-C-7
 Client ID: MW-5D
 Sample Type: Client
 Inject. Date: 04-May-2017 12:29:30 ALS Bottle#: 15 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-117063-C-7
 Misc. Info.: 460-0054674-016
 Operator ID: Instrument ID: CVOAMS4
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 04-May-2017 19:54:58 Calib Date: 02-May-2017 19:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: boykink

Date: 04-May-2017 19:54:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	23329	0.5000	
* 2 1,4-Dioxane-d8	64	7.049	7.049	0.000	98	488	10.0	
* 3 Chlorobenzene-d5	82	9.275	9.274	0.001	99	6388	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.868	5.867	0.001	11	3343	0.3896	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	97	3236	0.4437	

Reagents:

SimissurNEW_00004 Amount Added: 2.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\D36138.D

Injection Date: 04-May-2017 12:29:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: 480-117063-C-7

Lab Sample ID: 460-117063-7

Worklist Smp#: 16

Client ID: MW-5D

Purge Vol: 5.000 mL

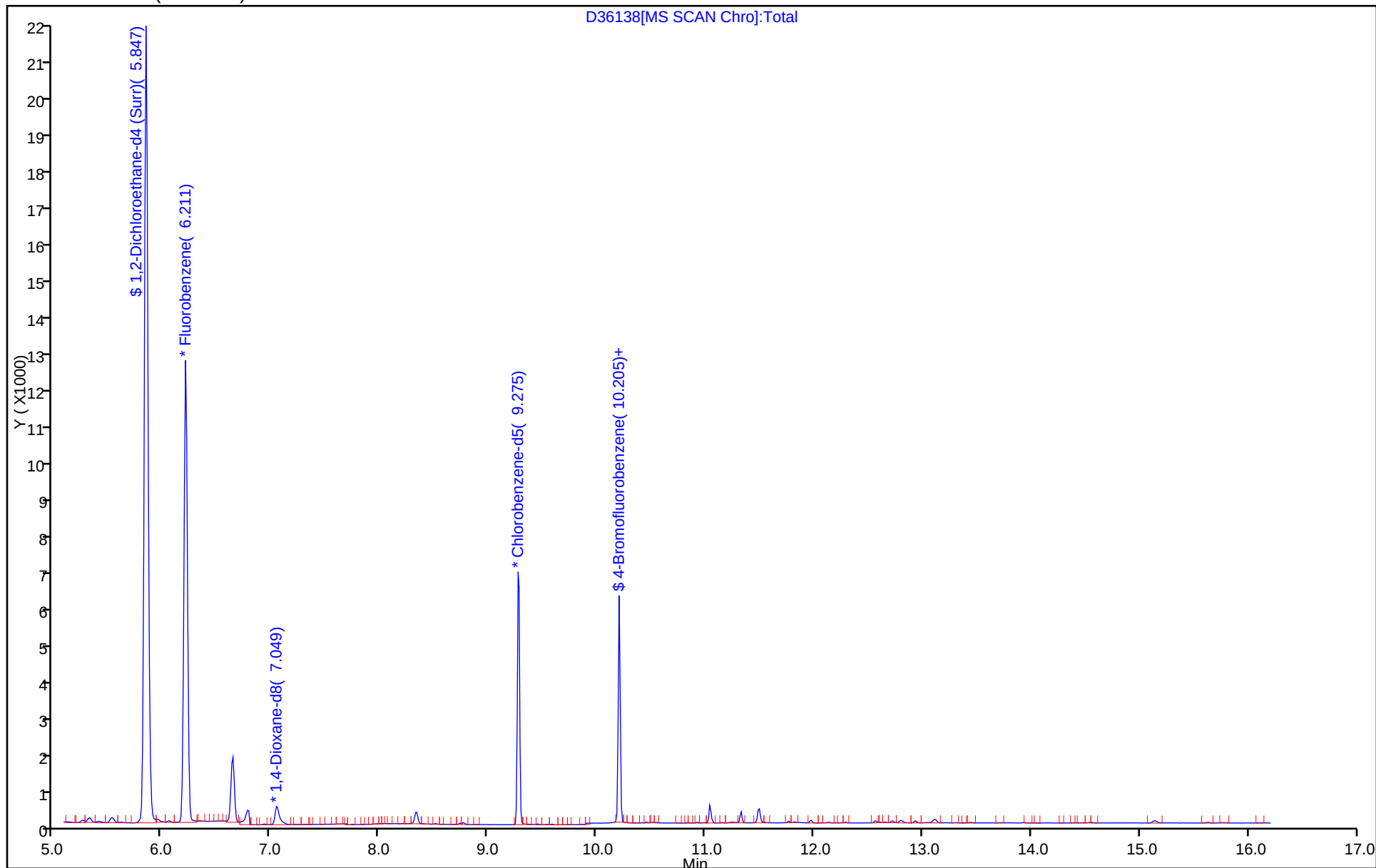
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 480-117063-1
 SDG No.: _____
 Client Sample ID: MW-6 Lab Sample ID: 480-117063-8
 Matrix: Water Lab File ID: D36139.D
 Analysis Method: 8260C SIM Date Collected: 04/24/2017 12:05
 Sample wt/vol: 10 (mL) Date Analyzed: 05/04/2017 12:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 434882 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	72		71-144
460-00-4	4-Bromofluorobenzene	82		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\D36139.D
 Lims ID: 480-117063-C-8
 Client ID: MW-6
 Sample Type: Client
 Inject. Date: 04-May-2017 12:52:30 ALS Bottle#: 16 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-117063-C-8
 Misc. Info.: 460-0054674-017
 Operator ID: Instrument ID: CVOAMS4
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 04-May-2017 19:57:54 Calib Date: 02-May-2017 19:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: boykink

Date: 04-May-2017 19:57:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	22752	0.5000	
* 2 1,4-Dioxane-d8	64	7.049	7.049	0.000	99	603	10.0	
* 3 Chlorobenzene-d5	82	9.275	9.274	0.001	99	6218	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.878	5.867	0.011	34	3001	0.3586	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	96	2904	0.4091	

Reagents:

SimissurNEW_00004 Amount Added: 2.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170504-54674.b\\D36139.D

Injection Date: 04-May-2017 12:52:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: 480-117063-C-8

Lab Sample ID: 460-117063-8

Worklist Smp#: 17

Client ID: MW-6

Purge Vol: 5.000 mL

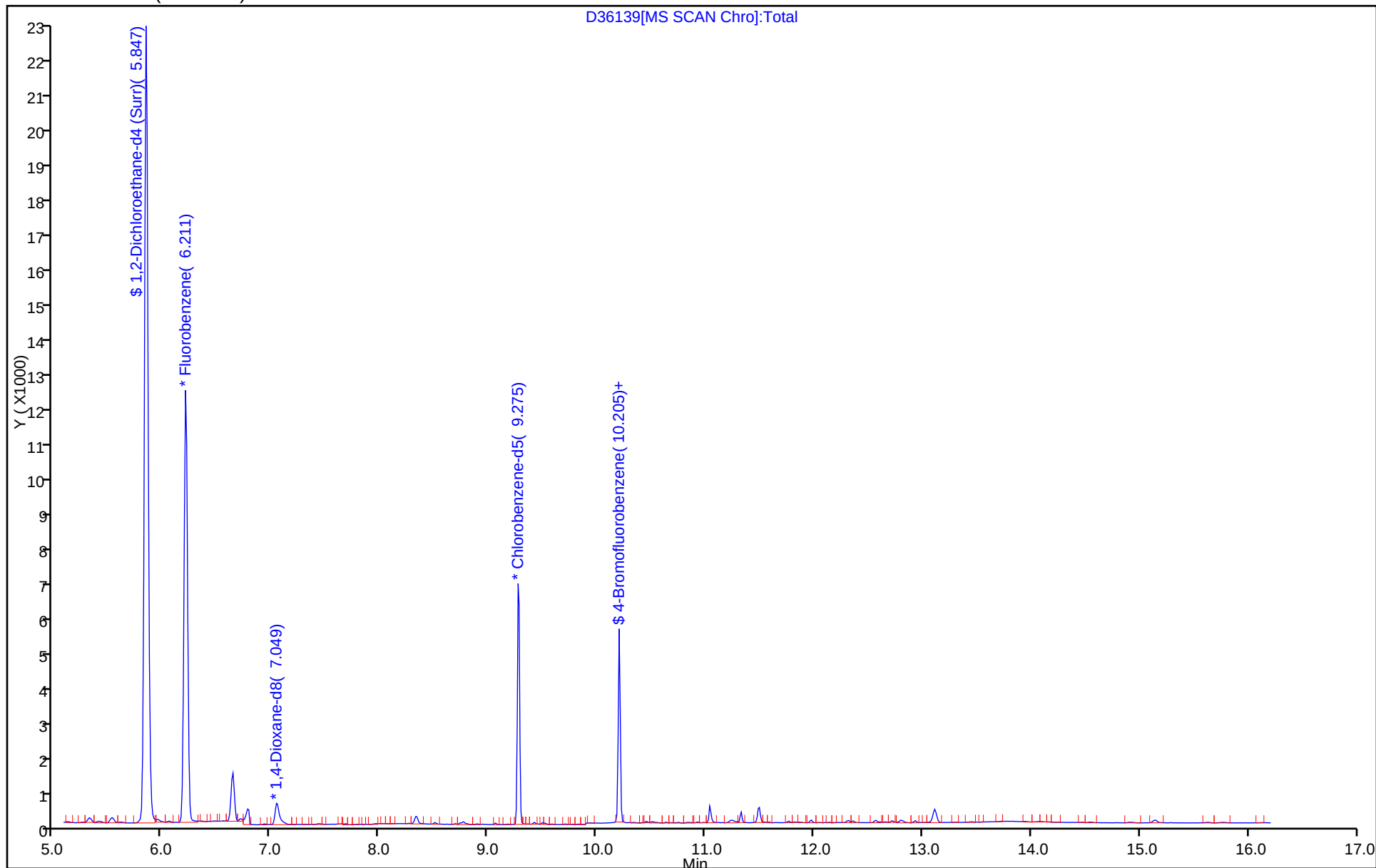
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 480-117063-1
SDG No.: _____
Client Sample ID: MW-7 Lab Sample ID: 480-117063-9
Matrix: Water Lab File ID: D36140.D
Analysis Method: 8260C SIM Date Collected: 04/25/2017 17:25
Sample wt/vol: 10 (mL) Date Analyzed: 05/04/2017 13:15
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 434882 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	77		71-144
460-00-4	4-Bromofluorobenzene	90		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\D36140.D
 Lims ID: 480-117063-C-9
 Client ID: MW-7
 Sample Type: Client
 Inject. Date: 04-May-2017 13:15:30 ALS Bottle#: 17 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-117063-C-9
 Misc. Info.: 460-0054674-018
 Operator ID: Instrument ID: CVOAMS4
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 04-May-2017 19:58:08 Calib Date: 02-May-2017 19:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: boykink

Date: 04-May-2017 19:58:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	23461	0.5000	
* 2 1,4-Dioxane-d8	64	7.048	7.049	-0.001	99	459	10.0	
* 3 Chlorobenzene-d5	82	9.274	9.274	0.000	99	6492	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.878	5.867	0.011	42	3332	0.3862	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	93	3352	0.4522	

Reagents:

SimissurNEW_00004 Amount Added: 2.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\D36140.D

Injection Date: 04-May-2017 13:15:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: 480-117063-C-9

Lab Sample ID: 460-117063-9

Worklist Smp#: 18

Client ID: MW-7

Purge Vol: 5.000 mL

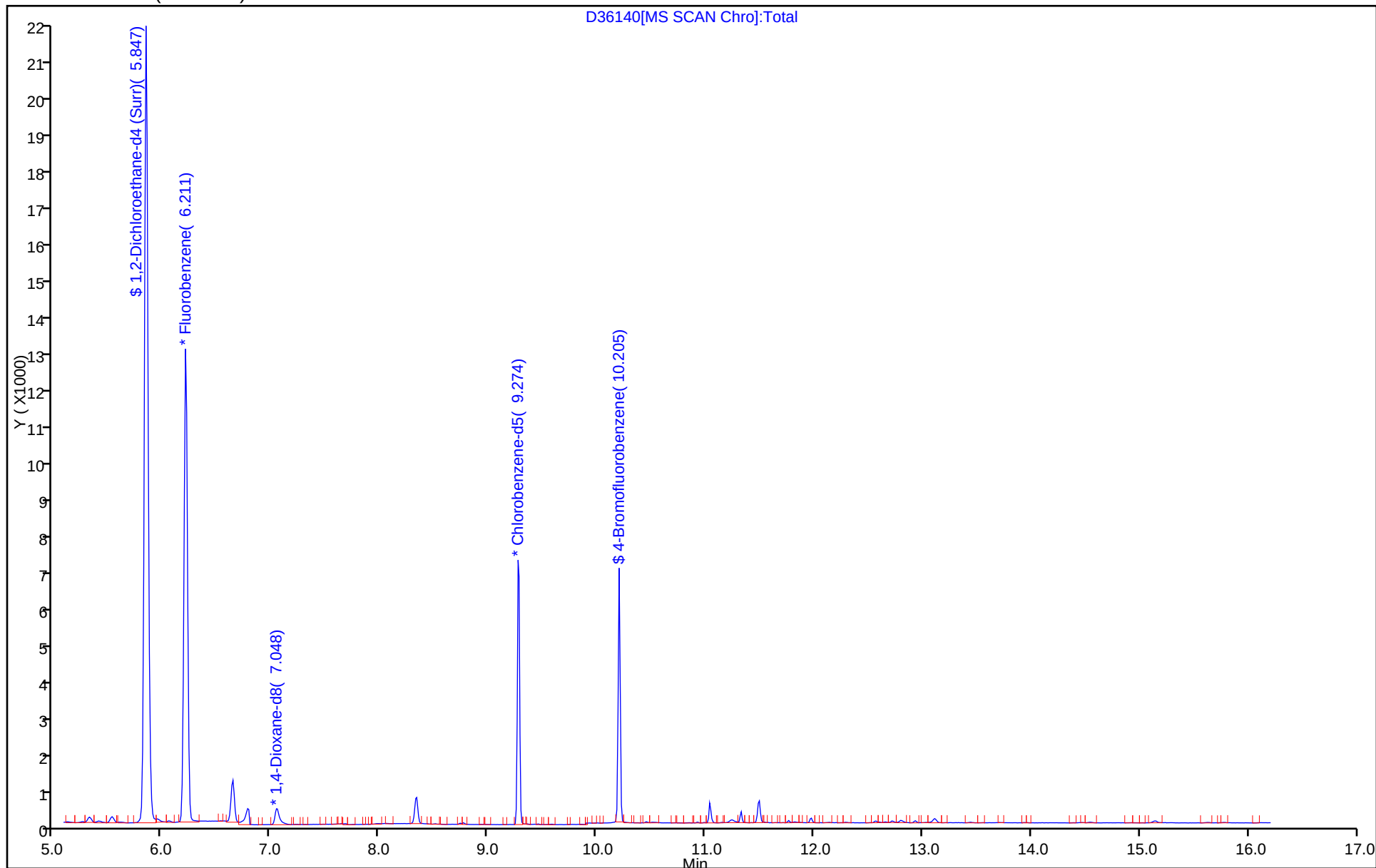
Dil. Factor: 1.0000

ALS Bottle#: 17

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 480-117063-1
SDG No.: _____
Client Sample ID: MW-8 Lab Sample ID: 480-117063-10
Matrix: Water Lab File ID: D36141.D
Analysis Method: 8260C SIM Date Collected: 04/26/2017 10:05
Sample wt/vol: 10 (mL) Date Analyzed: 05/04/2017 13:39
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 434882 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	77		71-144
460-00-4	4-Bromofluorobenzene	89		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\D36141.D
 Lims ID: 480-117063-C-10
 Client ID: MW-8
 Sample Type: Client
 Inject. Date: 04-May-2017 13:39:30 ALS Bottle#: 18 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-117063-C-10
 Misc. Info.: 460-0054674-019
 Operator ID: Instrument ID: CVOAMS4
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 04-May-2017 19:58:20 Calib Date: 02-May-2017 19:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: boykink

Date: 04-May-2017 19:58:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	22394	0.5000	
* 2 1,4-Dioxane-d8	64	7.049	7.049	0.000	96	409	10.0	
* 3 Chlorobenzene-d5	82	9.275	9.274	0.001	100	6121	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.867	5.867	0.000	19	3168	0.3846	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	96	3127	0.4475	

Reagents:

SimissurNEW_00004 Amount Added: 2.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170504-54674.b\\D36141.D

Injection Date: 04-May-2017 13:39:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: 480-117063-C-10

Lab Sample ID: 460-117063-10

Worklist Smp#: 19

Client ID: MW-8

Purge Vol: 5.000 mL

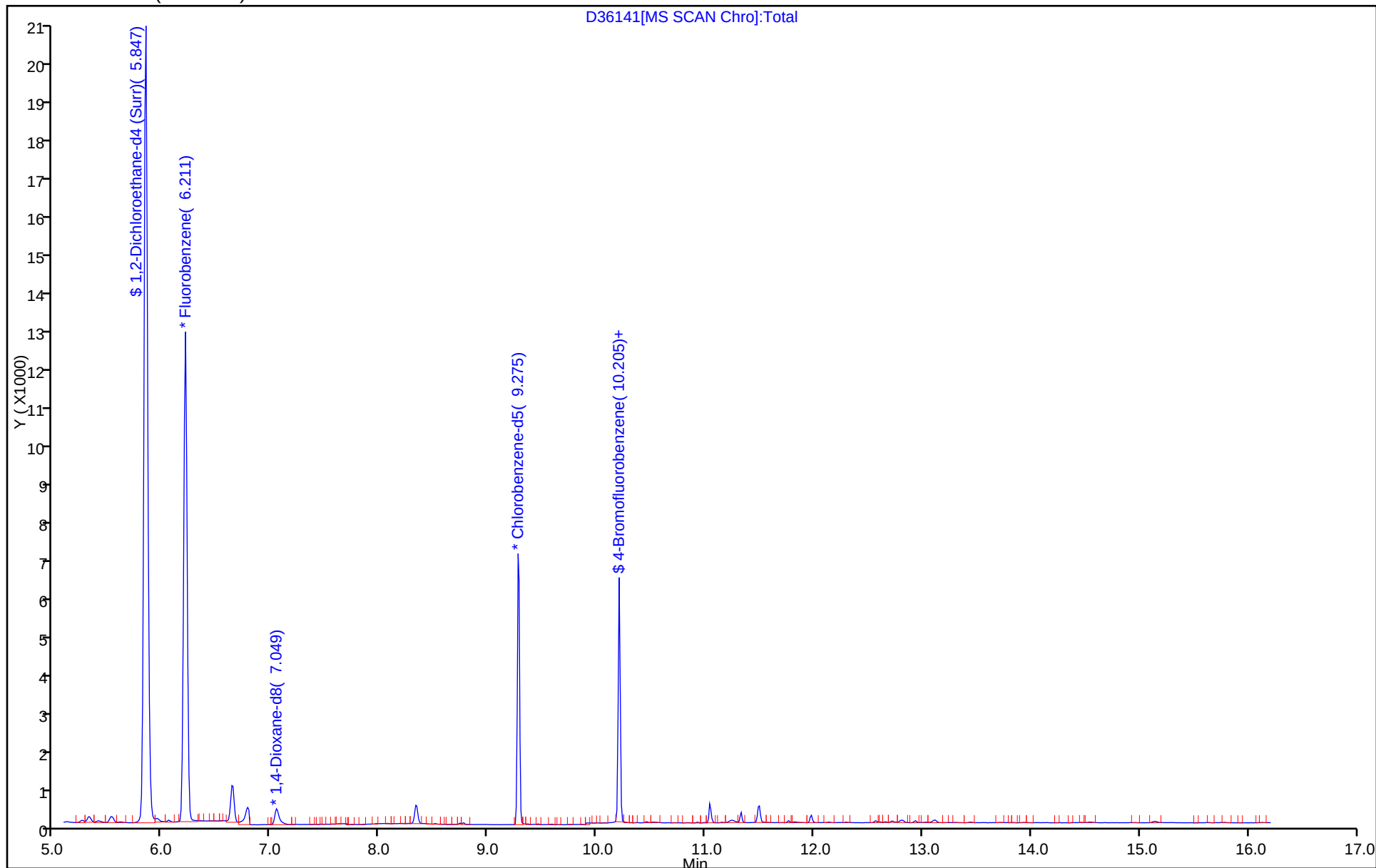
Dil. Factor: 1.0000

ALS Bottle#: 18

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 480-117063-1
SDG No.: _____
Client Sample ID: MW-9R Lab Sample ID: 480-117063-11
Matrix: Water Lab File ID: D36142.D
Analysis Method: 8260C SIM Date Collected: 04/27/2017 09:45
Sample wt/vol: 10 (mL) Date Analyzed: 05/04/2017 14:02
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 434882 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	78		71-144
460-00-4	4-Bromofluorobenzene	89		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\D36142.D
 Lims ID: 480-117063-C-11
 Client ID: MW-9R
 Sample Type: Client
 Inject. Date: 04-May-2017 14:02:30 ALS Bottle#: 19 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-117063-C-11
 Misc. Info.: 460-0054674-020
 Operator ID: Instrument ID: CVOAMS4
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 04-May-2017 19:58:45 Calib Date: 02-May-2017 19:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: boykink

Date: 04-May-2017 19:58:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	24031	0.5000	
* 2 1,4-Dioxane-d8	64	7.049	7.049	0.000	91	505	10.0	
* 3 Chlorobenzene-d5	82	9.275	9.274	0.001	99	6437	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.878	5.867	0.011	35	3461	0.3916	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	95	3283	0.4467	

Reagents:

SimissurNEW_00004 Amount Added: 2.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170504-54674.b\\D36142.D

Injection Date: 04-May-2017 14:02:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: 480-117063-C-11

Lab Sample ID: 460-117063-11

Worklist Smp#: 20

Client ID: MW-9R

Purge Vol: 5.000 mL

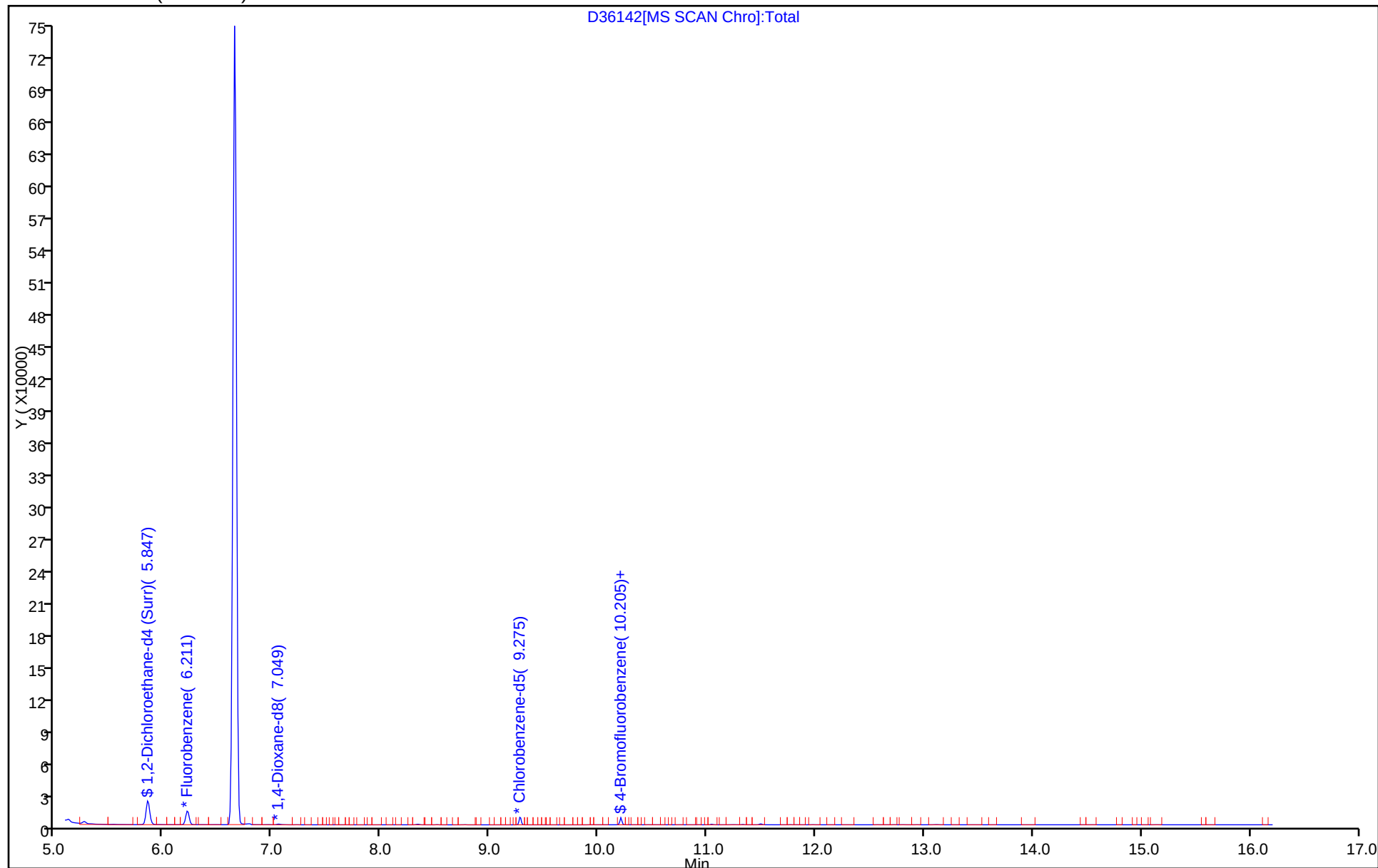
Dil. Factor: 1.0000

ALS Bottle#: 19

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 480-117063-1
 SDG No.: _____
 Client Sample ID: MW-10 Lab Sample ID: 480-117063-12
 Matrix: Water Lab File ID: D36143.D
 Analysis Method: 8260C SIM Date Collected: 04/24/2017 15:50
 Sample wt/vol: 10 (mL) Date Analyzed: 05/04/2017 14:26
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 434882 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	79		71-144
460-00-4	4-Bromofluorobenzene	87		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\D36143.D
 Lims ID: 480-117063-C-12
 Client ID: MW-10
 Sample Type: Client
 Inject. Date: 04-May-2017 14:26:30 ALS Bottle#: 20 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-117063-C-12
 Misc. Info.: 460-0054674-021
 Operator ID: Instrument ID: CVOAMS4
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 04-May-2017 19:58:58 Calib Date: 02-May-2017 19:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: boykink

Date: 04-May-2017 19:58:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	22780	0.5000	
* 2 1,4-Dioxane-d8	64	7.049	7.049	0.000	99	532	10.0	
* 3 Chlorobenzene-d5	82	9.275	9.274	0.001	100	6294	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.868	5.867	0.001	19	3322	0.3965	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	92	3145	0.4377	

Reagents:

SimissurNEW_00004 Amount Added: 2.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170504-54674.b\\D36143.D

Injection Date: 04-May-2017 14:26:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: 480-117063-C-12

Lab Sample ID: 460-117063-12

Worklist Smp#: 21

Client ID: MW-10

Purge Vol: 5.000 mL

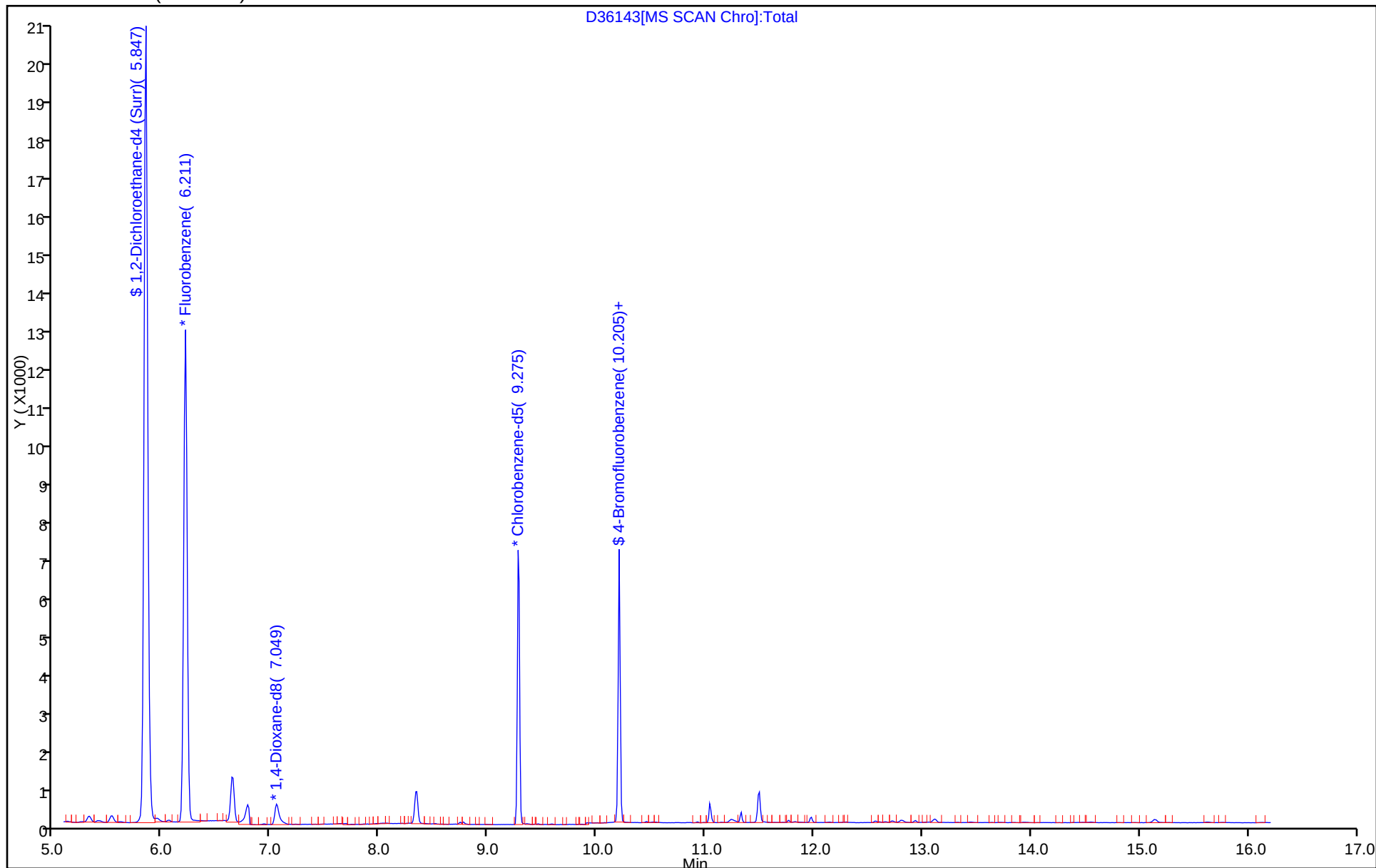
Dil. Factor: 1.0000

ALS Bottle#: 20

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 480-117063-1
SDG No.: _____
Client Sample ID: MW-11R Lab Sample ID: 480-117063-13
Matrix: Water Lab File ID: D36144.D
Analysis Method: 8260C SIM Date Collected: 04/24/2017 13:55
Sample wt/vol: 10 (mL) Date Analyzed: 05/04/2017 14:49
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 434882 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	78		71-144
460-00-4	4-Bromofluorobenzene	85		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\D36144.D
 Lims ID: 480-117063-C-13
 Client ID: MW-11R
 Sample Type: Client
 Inject. Date: 04-May-2017 14:49:30 ALS Bottle#: 21 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-117063-C-13
 Misc. Info.: 460-0054674-022
 Operator ID: Instrument ID: CVOAMS4
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 04-May-2017 19:59:10 Calib Date: 02-May-2017 19:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: boykink

Date: 04-May-2017 19:59:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.221	6.211	0.010	99	25934	0.5000	
* 2 1,4-Dioxane-d8	64	7.049	7.049	0.000	89	524	10.0	
* 3 Chlorobenzene-d5	82	9.275	9.274	0.001	99	7181	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.878	5.867	0.011	26	3727	0.3907	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	94	3480	0.4245	

Reagents:

SimissurNEW_00004 Amount Added: 2.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170504-54674.b\\D36144.D

Injection Date: 04-May-2017 14:49:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: 480-117063-C-13

Lab Sample ID: 460-117063-13

Worklist Smp#: 22

Client ID: MW-11R

Purge Vol: 5.000 mL

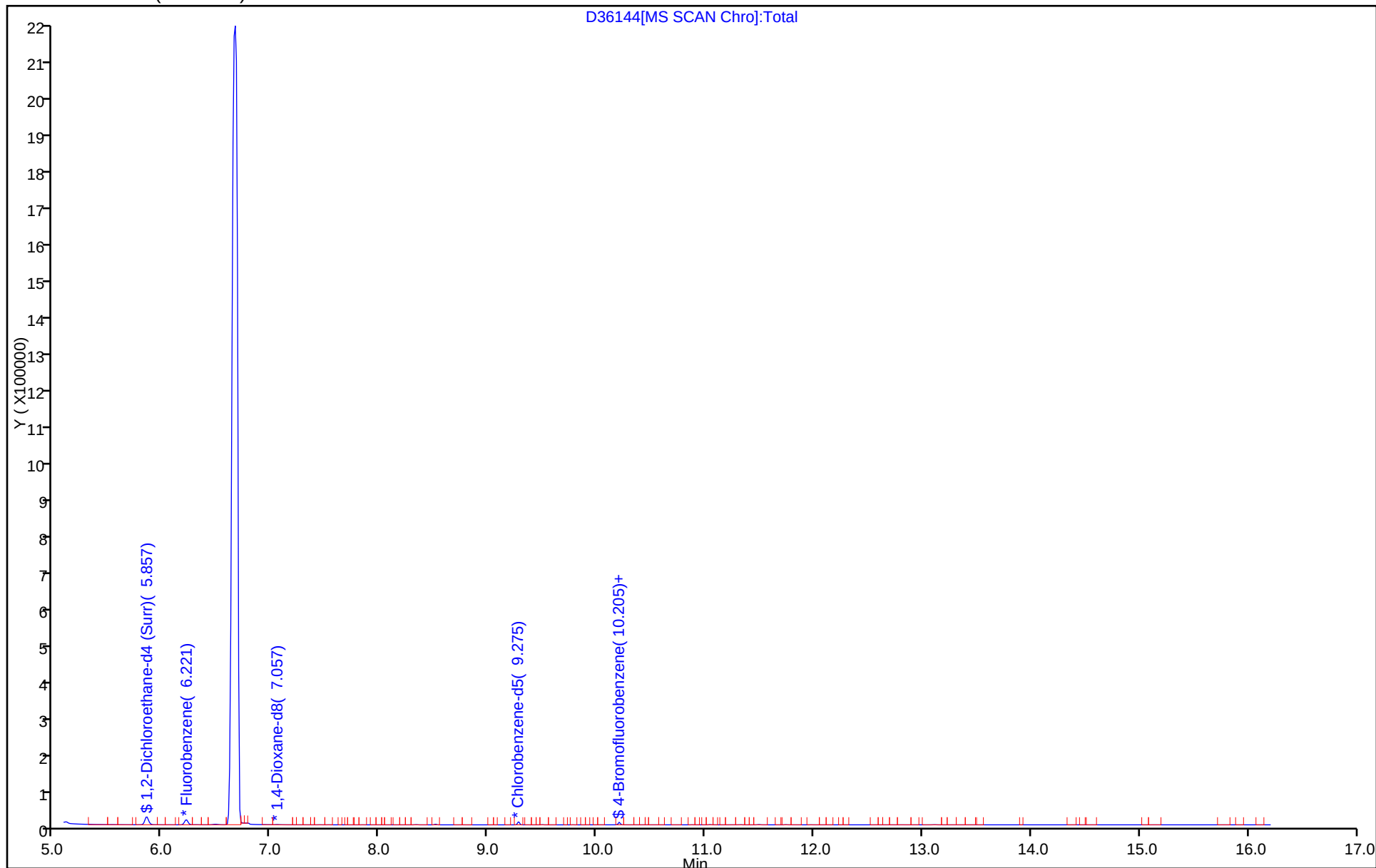
Dil. Factor: 1.0000

ALS Bottle#: 21

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 480-117063-1
SDG No.: _____
Client Sample ID: MW-12 Lab Sample ID: 480-117063-14
Matrix: Water Lab File ID: D36145.D
Analysis Method: 8260C SIM Date Collected: 04/25/2017 15:55
Sample wt/vol: 10 (mL) Date Analyzed: 05/04/2017 15:12
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 434882 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	79		71-144
460-00-4	4-Bromofluorobenzene	87		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\D36145.D
 Lims ID: 480-117063-C-14
 Client ID: MW-12
 Sample Type: Client
 Inject. Date: 04-May-2017 15:12:30 ALS Bottle#: 22 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-117063-C-14
 Misc. Info.: 460-0054674-023
 Operator ID: Instrument ID: CVOAMS4
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 04-May-2017 19:59:23 Calib Date: 02-May-2017 19:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: boykink

Date: 04-May-2017 19:59:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	24063	0.5000	
* 2 1,4-Dioxane-d8	64	7.049	7.049	0.000	95	478	10.0	
* 3 Chlorobenzene-d5	82	9.275	9.274	0.001	99	6514	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.878	5.867	0.011	35	3515	0.3972	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	93	3219	0.4328	

Reagents:

SimissurNEW_00004 Amount Added: 2.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170504-54674.b\\D36145.D

Injection Date: 04-May-2017 15:12:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: 480-117063-C-14

Lab Sample ID: 460-117063-14

Worklist Smp#: 23

Client ID: MW-12

Purge Vol: 5.000 mL

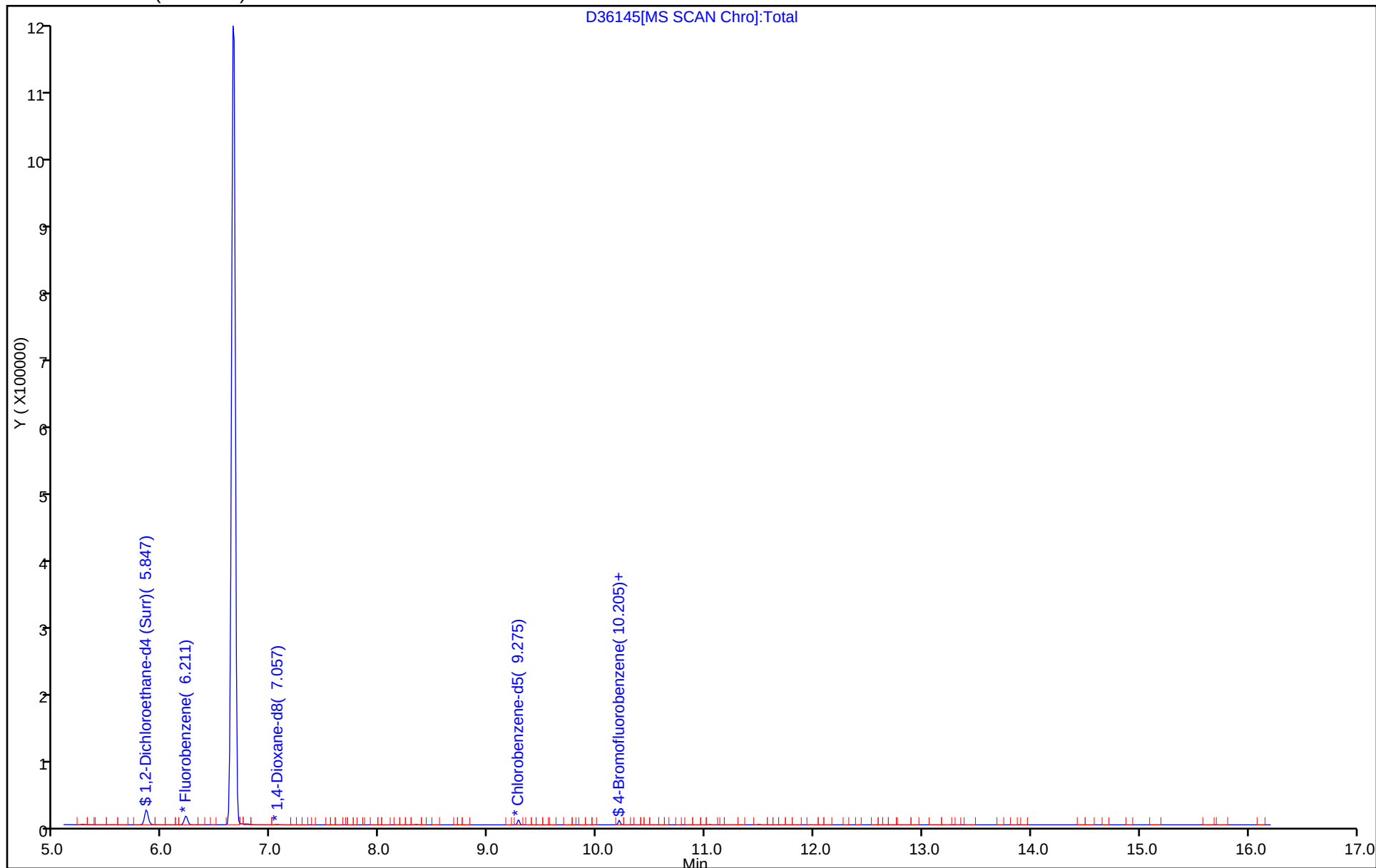
Dil. Factor: 1.0000

ALS Bottle#: 22

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 480-117063-1
SDG No.: _____
Client Sample ID: MW-13 Lab Sample ID: 480-117063-15
Matrix: Water Lab File ID: D36146.D
Analysis Method: 8260C SIM Date Collected: 04/26/2017 14:45
Sample wt/vol: 10 (mL) Date Analyzed: 05/04/2017 15:36
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 434882 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	77		71-144
460-00-4	4-Bromofluorobenzene	85		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\D36146.D
 Lims ID: 480-117063-C-15
 Client ID: MW-13
 Sample Type: Client
 Inject. Date: 04-May-2017 15:36:30 ALS Bottle#: 23 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-117063-C-15
 Misc. Info.: 460-0054674-024
 Operator ID: Instrument ID: CVOAMS4
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 04-May-2017 19:59:51 Calib Date: 02-May-2017 19:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: boykink

Date: 04-May-2017 19:59:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.221	6.211	0.010	99	25390	0.5000	
* 2 1,4-Dioxane-d8	64	7.049	7.049	0.000	84	447	10.0	
* 3 Chlorobenzene-d5	82	9.274	9.274	0.000	99	6822	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.878	5.867	0.011	13	3602	0.3857	
\$ 5 4-Bromofluorobenzene	95	10.203	10.205	-0.002	91	3321	0.4264	

Reagents:

SimissurNEW_00004 Amount Added: 2.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170504-54674.b\\D36146.D

Injection Date: 04-May-2017 15:36:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: 480-117063-C-15

Lab Sample ID: 460-117063-15

Worklist Smp#: 24

Client ID: MW-13

Purge Vol: 5.000 mL

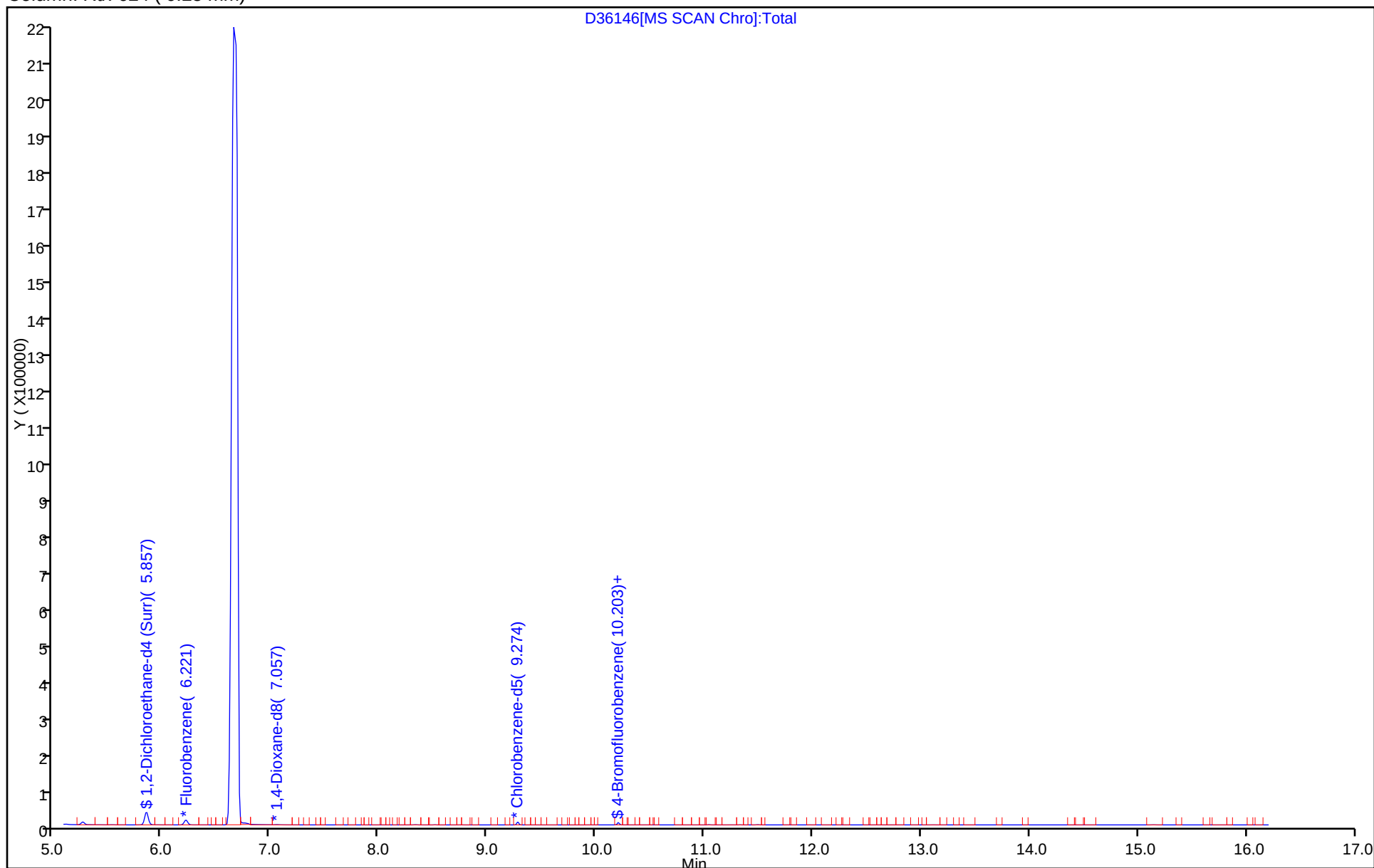
Dil. Factor: 1.0000

ALS Bottle#: 23

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 480-117063-1
SDG No.: _____
Client Sample ID: MW-14 Lab Sample ID: 480-117063-16
Matrix: Water Lab File ID: D36147.D
Analysis Method: 8260C SIM Date Collected: 04/26/2017 16:30
Sample wt/vol: 10 (mL) Date Analyzed: 05/04/2017 15:59
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 434882 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	81		71-144
460-00-4	4-Bromofluorobenzene	91		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\D36147.D
 Lims ID: 480-117063-C-16
 Client ID: MW-14
 Sample Type: Client
 Inject. Date: 04-May-2017 15:59:30 ALS Bottle#: 24 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-117063-C-16
 Misc. Info.: 460-0054674-025
 Operator ID: Instrument ID: CVOAMS4
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 04-May-2017 20:00:16 Calib Date: 02-May-2017 19:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: boykink

Date: 04-May-2017 20:00:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	23984	0.5000	
* 2 1,4-Dioxane-d8	64	7.049	7.049	0.000	93	529	10.0	
* 3 Chlorobenzene-d5	82	9.275	9.274	0.001	100	6567	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.878	5.867	0.011	29	3580	0.4059	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	92	3403	0.4539	

Reagents:

SimissurNEW_00004 Amount Added: 2.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\D36147.D

Injection Date: 04-May-2017 15:59:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: 480-117063-C-16

Lab Sample ID: 460-117063-16

Worklist Smp#: 25

Client ID: MW-14

Purge Vol: 5.000 mL

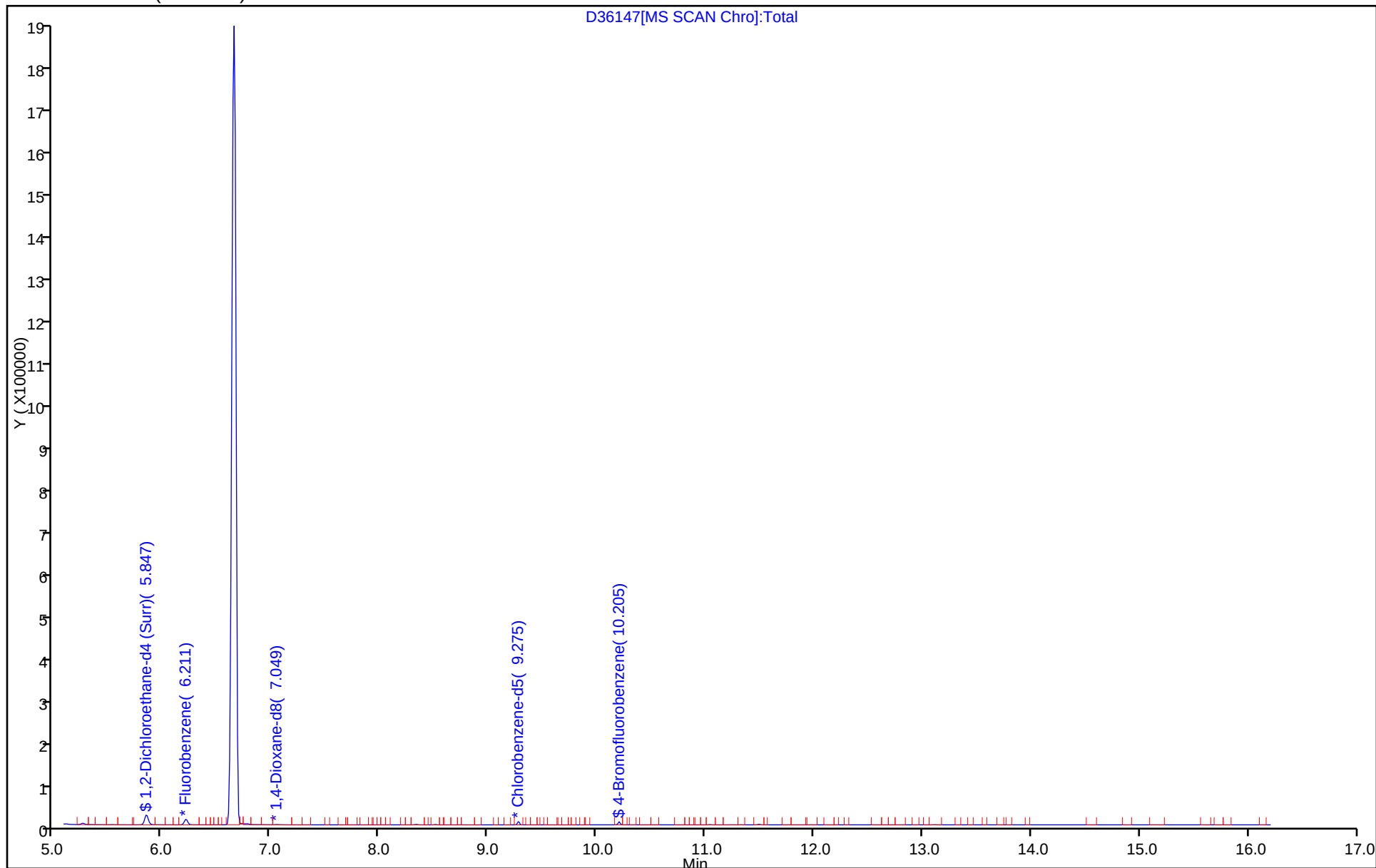
Dil. Factor: 1.0000

ALS Bottle#: 24

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 480-117063-1
SDG No.: _____
Client Sample ID: DUP-042517 Lab Sample ID: 480-117063-17
Matrix: Water Lab File ID: D36148.D
Analysis Method: 8260C SIM Date Collected: 04/25/2017 00:00
Sample wt/vol: 10 (mL) Date Analyzed: 05/04/2017 16:22
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 434882 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	82		71-144
460-00-4	4-Bromofluorobenzene	90		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\D36148.D
 Lims ID: 480-117063-C-17
 Client ID: DUP-042517
 Sample Type: Client
 Inject. Date: 04-May-2017 16:22:30 ALS Bottle#: 25 Worklist Smp#: 26
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-117063-C-17
 Misc. Info.: 460-0054674-026
 Operator ID: Instrument ID: CVOAMS4
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 04-May-2017 20:00:30 Calib Date: 02-May-2017 19:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: boykink

Date: 04-May-2017 20:00:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.221	6.211	0.010	100	22576	0.5000	
* 2 1,4-Dioxane-d8	64	7.048	7.049	-0.001	80	425	10.0	
* 3 Chlorobenzene-d5	82	9.274	9.274	0.000	98	6210	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.878	5.867	0.011	7	3427	0.4127	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	95	3207	0.4523	

Reagents:

SimissurNEW_00004 Amount Added: 2.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170504-54674.b\\D36148.D

Injection Date: 04-May-2017 16:22:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: 480-117063-C-17

Lab Sample ID: 460-117063-17

Worklist Smp#: 26

Client ID: DUP-042517

Purge Vol: 5.000 mL

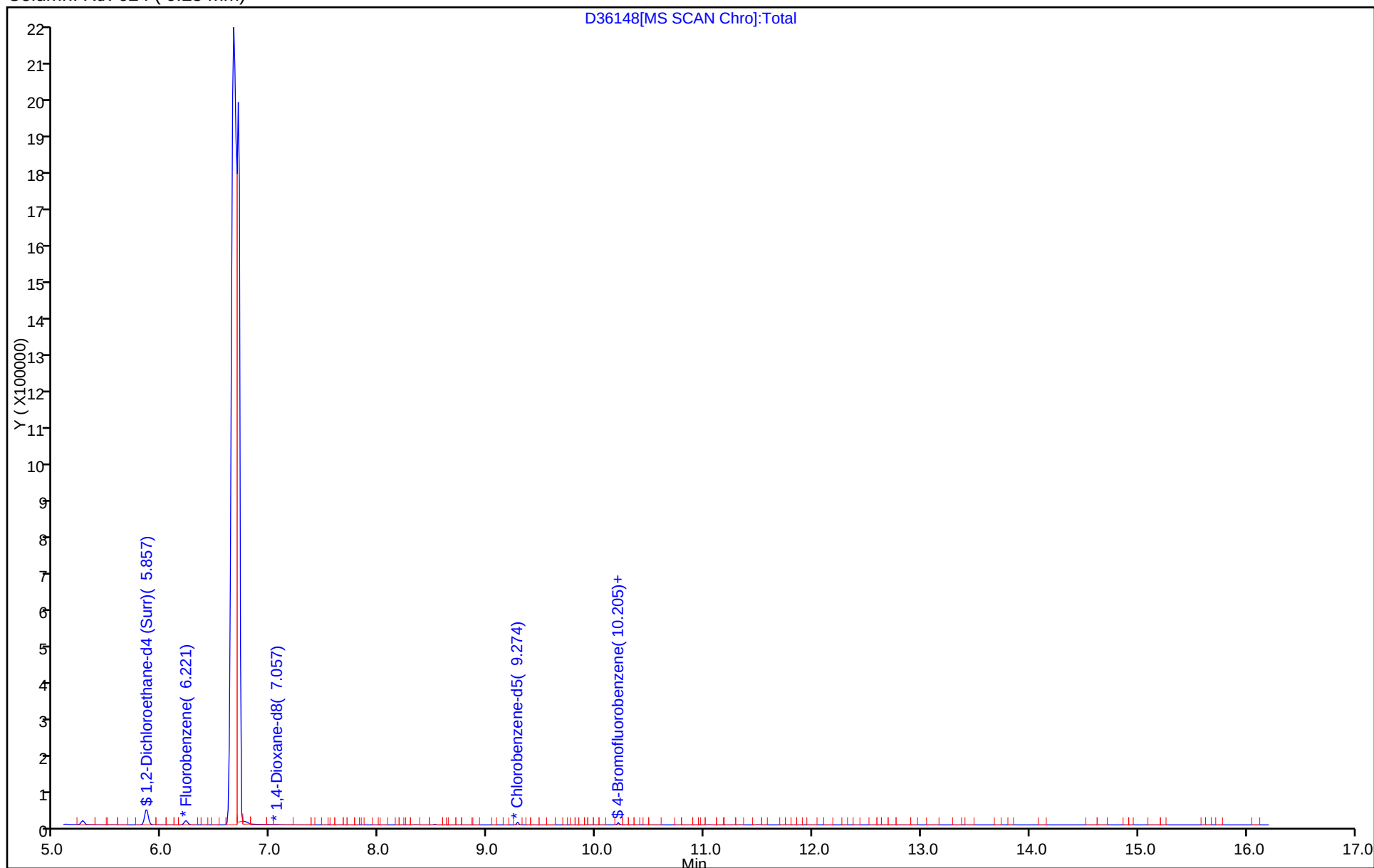
Dil. Factor: 1.0000

ALS Bottle#: 25

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 480-117063-1 Analy Batch No.: 434447

SDG No.: _____

Instrument ID: CVOAMS4 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/02/2017 13:31 Calibration End Date: 05/02/2017 19:16 Calibration ID: 62237

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD04 460-434447/2	D36023.D
Level 2	STD1 460-434447/14	D36035.D
Level 3	STD5 460-434447/5	D36026.D
Level 4	STD10 460-434447/12	D36033.D
Level 5	STD20 460-434447/6	D36027.D
Level 6	STD30 460-434447/7	D36028.D
Level 7	STD40 460-434447/8	D36029.D
Level 8	STD50 460-434447/9	D36030.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 5		B	M1	M2								
1,4-Dioxane	1.0191 1.1994	1.1194 1.1899	1.2027 1.2312	1.2942	1.2134	Ave		1.1837				6.9		20.0			
Ethylene Dibromide	0.3145 0.3508	0.3793 0.3577	0.3280 0.3613	0.3679	0.3491	Ave		0.3511			0.1000	6.0		20.0			
1,2,3-Trichloropropane	0.3670 0.3712	0.3875 0.3802	0.3633 0.3859	0.4014	0.4087	Ave		0.3831				4.2		20.0			
1,2-Dibromo-3-Chloropropane	0.0828 0.0808	0.0867 0.0812	0.0768 0.0808	0.0896	0.0822	Ave		0.0826			0.0500	4.8		20.0			
1,2-Dichloroethane-d4 (Surr)	0.1814 0.1863	0.1834 0.1849	0.1823 0.1881	0.1847	0.1801	Ave		0.1839				1.4		20.0			
4-Bromofluorobenzene	0.5378 0.5677	0.5587 0.5764	0.5706 0.5784	0.5917	0.5856	Ave		0.5709				3.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 480-117063-1 Analy Batch No.: 434447

SDG No.: _____

Instrument ID: CVOAMS4 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/02/2017 13:31 Calibration End Date: 05/02/2017 19:16 Calibration ID: 62237

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD04 460-434447/2	D36023.D
Level 2	STD1 460-434447/14	D36035.D
Level 3	STD5 460-434447/5	D36026.D
Level 4	STD10 460-434447/12	D36033.D
Level 5	STD20 460-434447/6	D36027.D
Level 6	STD30 460-434447/7	D36028.D
Level 7	STD40 460-434447/8	D36029.D
Level 8	STD50 460-434447/9	D36030.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 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dioxane	DXE	Ave	32 2105	60 2732	350 3589	695	1490	0.400 30.0	1.00 40.0	5.00 50.0	10.0	20.0
Ethylene Dibromide	CBNZ d5	Ave	114 2836	232 5441	269 11789	550	1130	0.0200 0.500	0.0400 1.00	0.0500 2.00	0.100	0.200
1,2,3-Trichloropropane	CBNZ d5	Ave	133 3001	237 5784	298 12590	600	1323	0.0200 0.500	0.0400 1.00	0.0500 2.00	0.100	0.200
1,2-Dibromo-3-Chloropropane	CBNZ d5	Ave	30 653	53 1235	63 2635	134	266	0.0200 0.500	0.0400 1.00	0.0500 2.00	0.100	0.200
1,2-Dichloroethane-d4 (Surr)	FB	Ave	5254 5472	5176 5034	5225 5513	5025	5334	0.500 0.500	0.500 0.500	0.500 0.500	0.500	0.500
4-Bromofluorobenzene	CBNZ d5	Ave	4875 4591	4273 4386	4682 4720	4424	4741	0.500 0.500	0.500 0.500	0.500 0.500	0.500	0.500

Curve Type Legend:

Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36023.D
 Lims ID: STD0.4
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 02-May-2017 13:31:30 ALS Bottle#: 1 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD0.4
 Misc. Info.: 460-0054581-002
 Operator ID: Instrument ID: CVOAMS4
 Sublist: chrom-8260SIM_4*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 02-May-2017 20:50:10 Calib Date: 02-May-2017 19:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: kluseys

Date: 02-May-2017 14:33:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	28950	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	7.049	7.048	0.000	97	785	10.0	10.0	
* 3 Chlorobenzene-d5	82	9.274	9.274	0.000	98	9061	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.867	5.867	0.000	97	5254	0.5003	0.4935	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	97	4875	0.5002	0.4712	
7 1,4-Dioxane	88	7.118	7.110	0.008	25	32	0.4000	0.3444	
8 Ethylene Dibromide	107	8.917	8.917	0.000	95	114	0.0200	0.0179	
9 1,2,3-Trichloropropane	75	10.372	10.372	0.000	99	133	0.0200	0.0192	
10 1,2-Dibromo-3-Chloropropan	157	11.945	11.945	0.000	93	30	0.0200	0.0200	

Reagents:

VMMIX1SIM_00097	Amount Added: 1.00	Units: uL	
SIMDIOX50_00008	Amount Added: 4.00	Units: uL	
SimissurNEW_00004	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36023.D

Injection Date: 02-May-2017 13:31:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: STD0.4

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

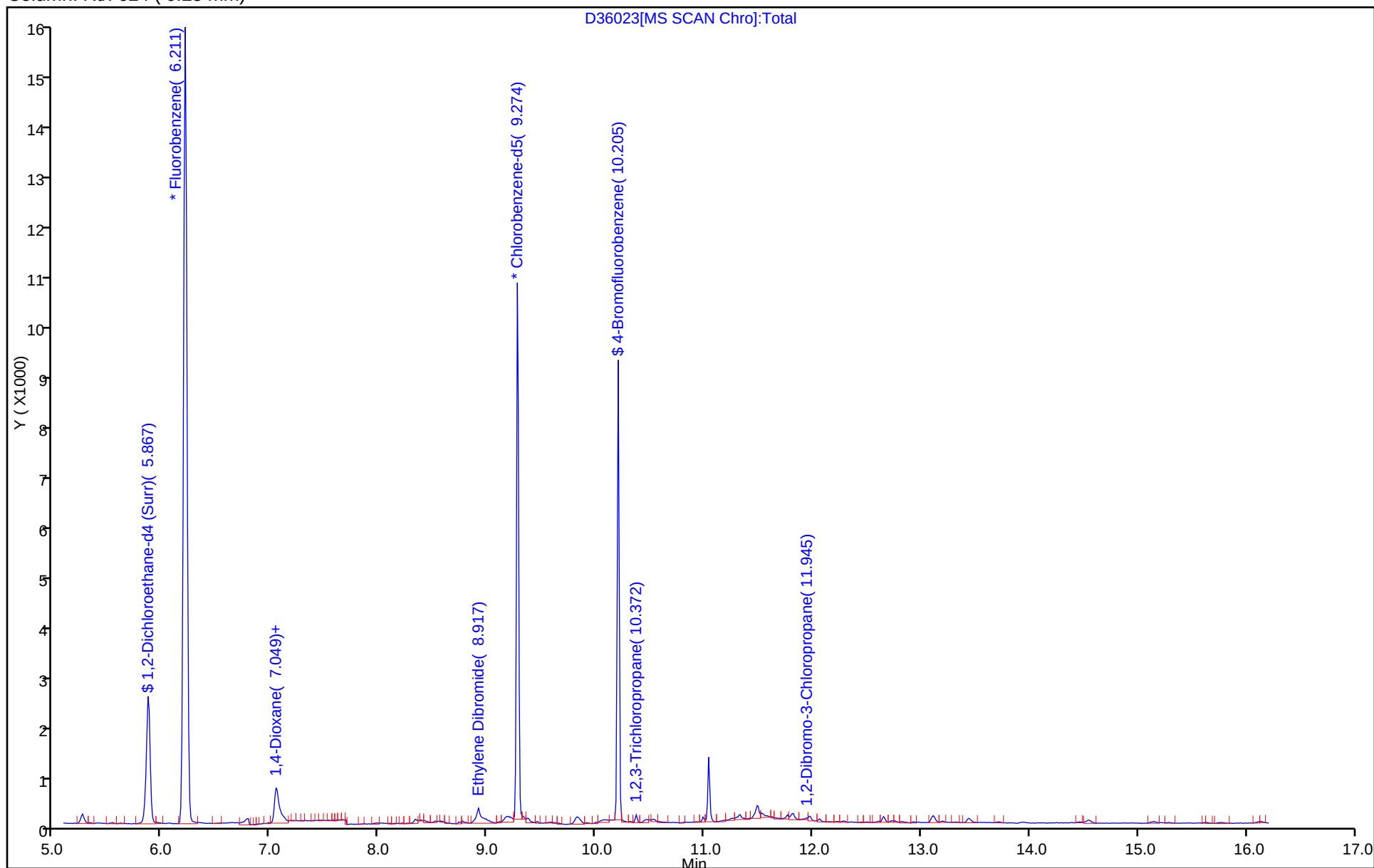
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36026.D
 Lims ID: STD5
 Client ID:
 Sample Type: ICIS Calib Level: 3
 Inject. Date: 02-May-2017 14:41:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD5
 Misc. Info.: 460-0054581-005
 Operator ID: Instrument ID: CVOAMS4
 Sublist: chrom-8260SIM_4*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 02-May-2017 20:50:34 Calib Date: 02-May-2017 19:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: kluseys

Date: 02-May-2017 20:45:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	28637	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	7.048	7.048	0.000	99	582	10.0	10.0	
* 3 Chlorobenzene-d5	82	9.274	9.274	0.000	100	8202	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.867	5.867	0.000	100	5225	0.5003	0.4961	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	100	4682	0.5002	0.5000	
7 1,4-Dioxane	88	7.110	7.110	0.000	99	350	5.00	5.08	
8 Ethylene Dibromide	107	8.917	8.917	0.000	97	269	0.0500	0.0467	
9 1,2,3-Trichloropropane	75	10.372	10.372	0.000	99	298	0.0500	0.0474	
10 1,2-Dibromo-3-Chloropropan	157	11.945	11.945	0.000	90	63	0.0500	0.0465	

Reagents:

VMMIX1SIM_00097	Amount Added: 1.00	Units: uL	
SIMDIOX50_00008	Amount Added: 20.00	Units: uL	
SimissurNEW_00004	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36026.D

Injection Date: 02-May-2017 14:41:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: STD5

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

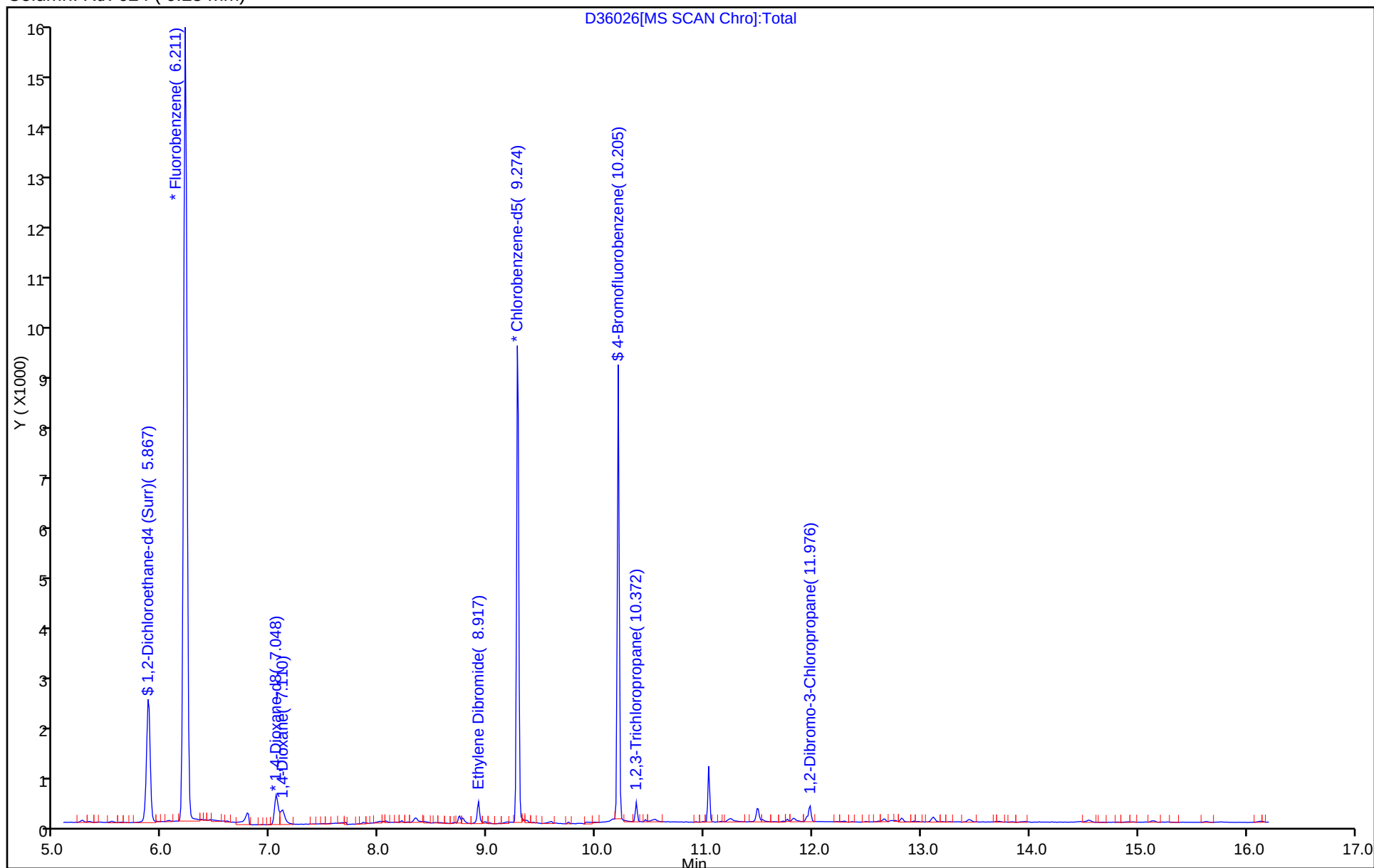
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36027.D
 Lims ID: STD20
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 02-May-2017 15:32:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD20
 Misc. Info.: 460-0054581-006
 Operator ID: Instrument ID: CVOAMS4
 Sublist: chrom-8260SIM_4*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 02-May-2017 20:50:42 Calib Date: 02-May-2017 19:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	29601	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	7.040	7.048	-0.008	82	614	10.0	10.0	
* 3 Chlorobenzene-d5	82	9.274	9.274	0.000	98	8093	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.867	5.867	0.000	100	5334	0.5003	0.4900	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	95	4741	0.5002	0.5131	
7 1,4-Dioxane	88	7.110	7.110	0.000	90	1490	20.0	20.5	
8 Ethylene Dibromide	107	8.908	8.917	-0.009	91	1130	0.2000	0.1989	
9 1,2,3-Trichloropropane	75	10.372	10.372	0.000	98	1323	0.2000	0.2133	
10 1,2-Dibromo-3-Chloropropan	157	11.945	11.945	0.000	95	266	0.2000	0.1990	

Reagents:

VMMIX1SIM_00097	Amount Added: 1.00	Units: uL	
SIMDIOX50_00008	Amount Added: 20.00	Units: uL	
SimissurNEW_00004	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170502-54581.b\\D36027.D

Injection Date: 02-May-2017 15:32:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: STD20

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

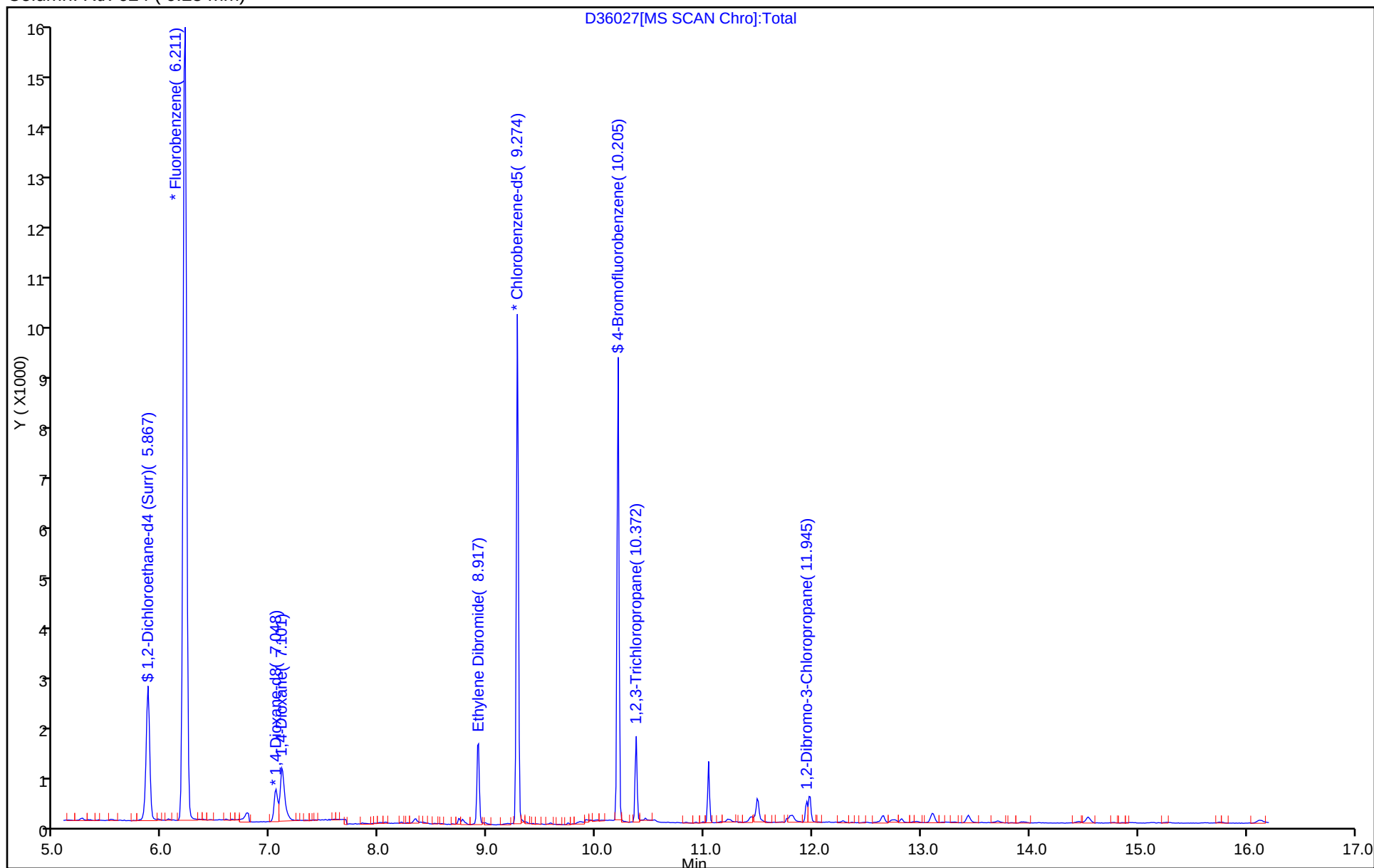
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36028.D
 Lims ID: STD30
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 02-May-2017 15:56:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD30
 Misc. Info.: 460-0054581-007
 Operator ID: Instrument ID: CVOAMS4
 Sublist: chrom-8260SIM_4*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 02-May-2017 20:50:47 Calib Date: 02-May-2017 19:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

First Level Reviewer: kluseys

Date: 02-May-2017 16:39:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	29353	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	7.049	7.048	0.001	84	585	10.0	10.0	
* 3 Chlorobenzene-d5	82	9.275	9.274	0.001	99	8084	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.868	5.867	0.001	100	5472	0.5003	0.5069	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	97	4591	0.5002	0.4974	
7 1,4-Dioxane	88	7.110	7.110	0.000	90	2105	30.0	30.4	
8 Ethylene Dibromide	107	8.917	8.917	0.000	98	2836	0.5000	0.4996	
9 1,2,3-Trichloropropane	75	10.372	10.372	0.000	99	3001	0.5000	0.4844	
10 1,2-Dibromo-3-Chloropropan	157	11.945	11.945	0.000	100	653	0.5000	0.4890	

Reagents:

VMMIX1SIM_00097	Amount Added: 2.50	Units: uL	
SIMDIOX50_00008	Amount Added: 30.00	Units: uL	
SimissurNEW_00004	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170502-54581.b\\D36028.D

Injection Date: 02-May-2017 15:56:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: STD30

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

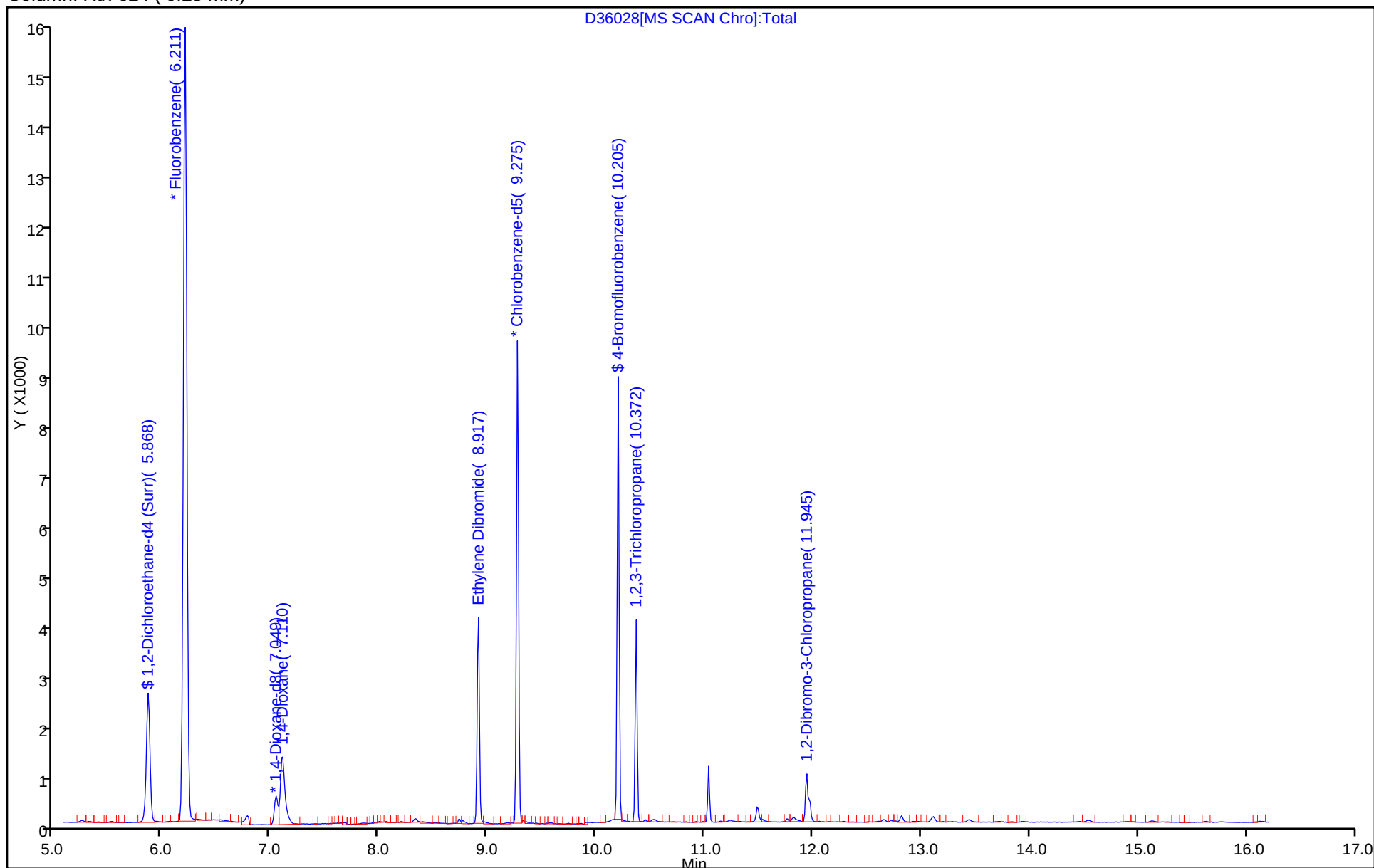
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36029.D
 Lims ID: STD40
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 02-May-2017 16:20:30 ALS Bottle#: 7 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD40
 Misc. Info.: 460-0054581-008
 Operator ID: Instrument ID: CVOAMS4
 Sublist: chrom-8260SIM_4*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 02-May-2017 20:50:52 Calib Date: 02-May-2017 19:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	27201	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	7.049	7.048	0.001	85	574	10.0	10.0	
* 3 Chlorobenzene-d5	82	9.275	9.274	0.001	99	7606	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.868	5.867	0.001	100	5034	0.5003	0.5032	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	98	4386	0.5002	0.5051	
7 1,4-Dioxane	88	7.110	7.110	0.000	90	2732	40.0	40.2	
8 Ethylene Dibromide	107	8.917	8.917	0.000	98	5441	1.00	1.02	
9 1,2,3-Trichloropropane	75	10.372	10.372	0.000	99	5784	1.00	0.99	
10 1,2-Dibromo-3-Chloropropan	157	11.945	11.945	0.000	98	1235	1.00	0.9829	

Reagents:

VMMIX1SIM_00097	Amount Added: 5.00	Units: uL	
SIMDIOX50_00008	Amount Added: 40.00	Units: uL	
SimissurNEW_00004	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170502-54581.b\\D36029.D

Injection Date: 02-May-2017 16:20:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: STD40

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

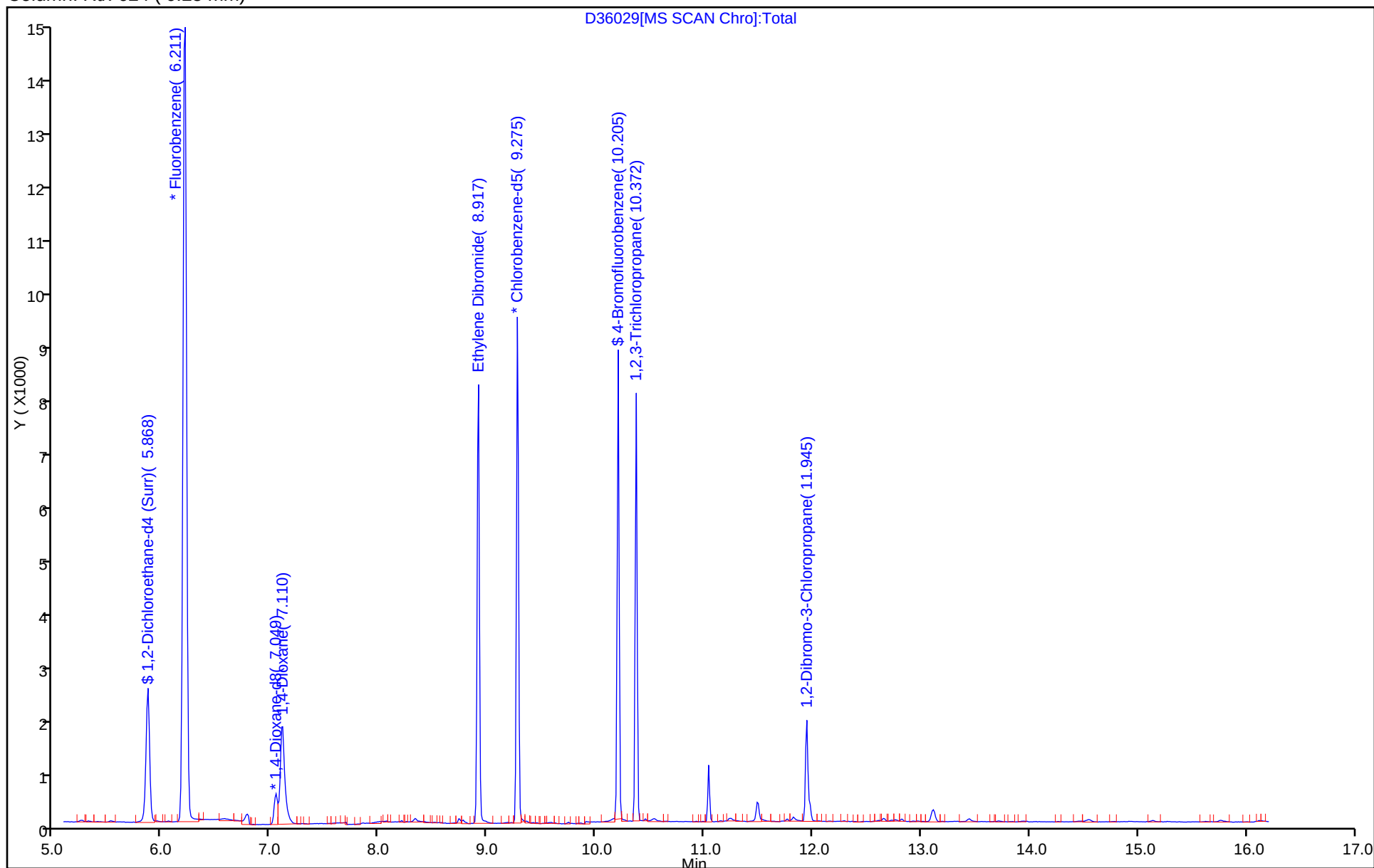
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36030.D
 Lims ID: STD50
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 02-May-2017 16:43:30 ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD50
 Misc. Info.: 460-0054581-009
 Operator ID: Instrument ID: CVOAMS4
 Sublist: chrom-8260SIM_4*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 02-May-2017 20:50:58 Calib Date: 02-May-2017 19:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	29295	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	7.049	7.048	0.001	87	583	10.0	10.0	
* 3 Chlorobenzene-d5	82	9.274	9.274	0.000	100	8157	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.867	5.867	0.000	100	5513	0.5003	0.5117	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	100	4720	0.5002	0.5068	
7 1,4-Dioxane	88	7.110	7.110	0.000	90	3589	50.0	52.0	
8 Ethylene Dibromide	107	8.917	8.917	0.000	100	11789	2.00	2.06	
9 1,2,3-Trichloropropane	75	10.372	10.372	0.000	99	12590	2.00	2.01	
10 1,2-Dibromo-3-Chloropropan	157	11.945	11.945	0.000	88	2635	2.00	1.96	

Reagents:

VMMIX1SIM_00097	Amount Added: 10.00	Units: uL	
SIMDIOX50_00008	Amount Added: 50.00	Units: uL	
SimissurNEW_00004	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170502-54581.b\\D36030.D

Injection Date: 02-May-2017 16:43:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: STD50

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

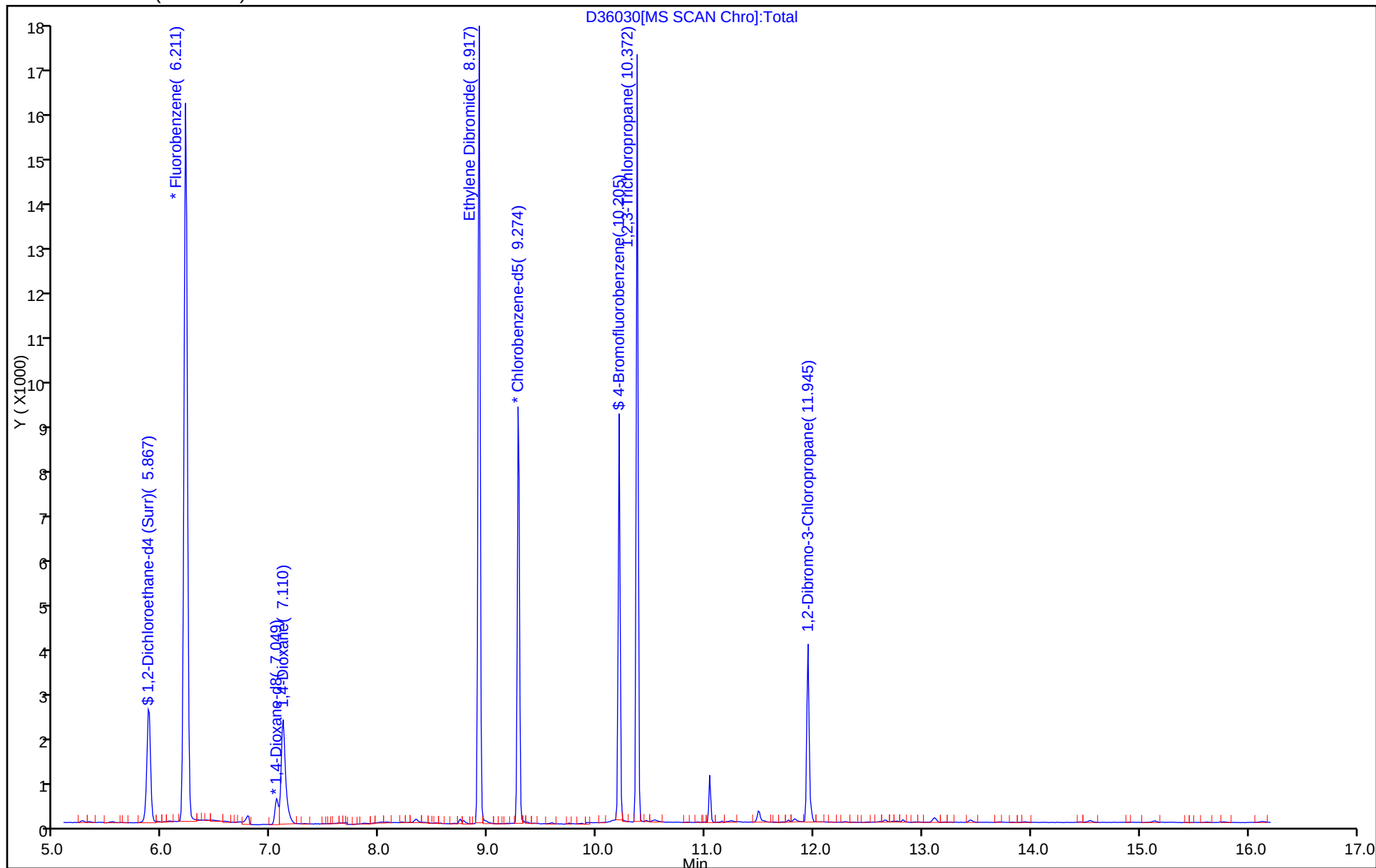
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36033.D
 Lims ID: STD10
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 02-May-2017 17:54:30 ALS Bottle#: 11 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD10
 Misc. Info.: 460-0054581-012
 Operator ID: Instrument ID: CVOAMS4
 Sublist: chrom-8260SIM_4*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 02-May-2017 20:51:04 Calib Date: 02-May-2017 19:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	27192	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	7.049	7.048	0.001	99	537	10.0	10.0	
* 3 Chlorobenzene-d5	82	9.275	9.274	0.001	100	7474	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.868	5.867	0.001	100	5025	0.5003	0.5025	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	100	4424	0.5002	0.5184	
7 1,4-Dioxane	88	7.110	7.110	0.000	92	695	10.0	10.9	
8 Ethylene Dibromide	107	8.917	8.917	0.000	100	550	0.1000	0.1048	
9 1,2,3-Trichloropropane	75	10.372	10.372	0.000	99	600	0.1000	0.1048	
10 1,2-Dibromo-3-Chloropropan	157	11.945	11.945	0.000	89	134	0.1000	0.1085	

Reagents:

VMMIX1SIM_00097	Amount Added: 1.00	Units: uL	
SIMDIOX50_00008	Amount Added: 20.00	Units: uL	
SimissurNEW_00004	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36033.D

Injection Date: 02-May-2017 17:54:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: STD10

Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL

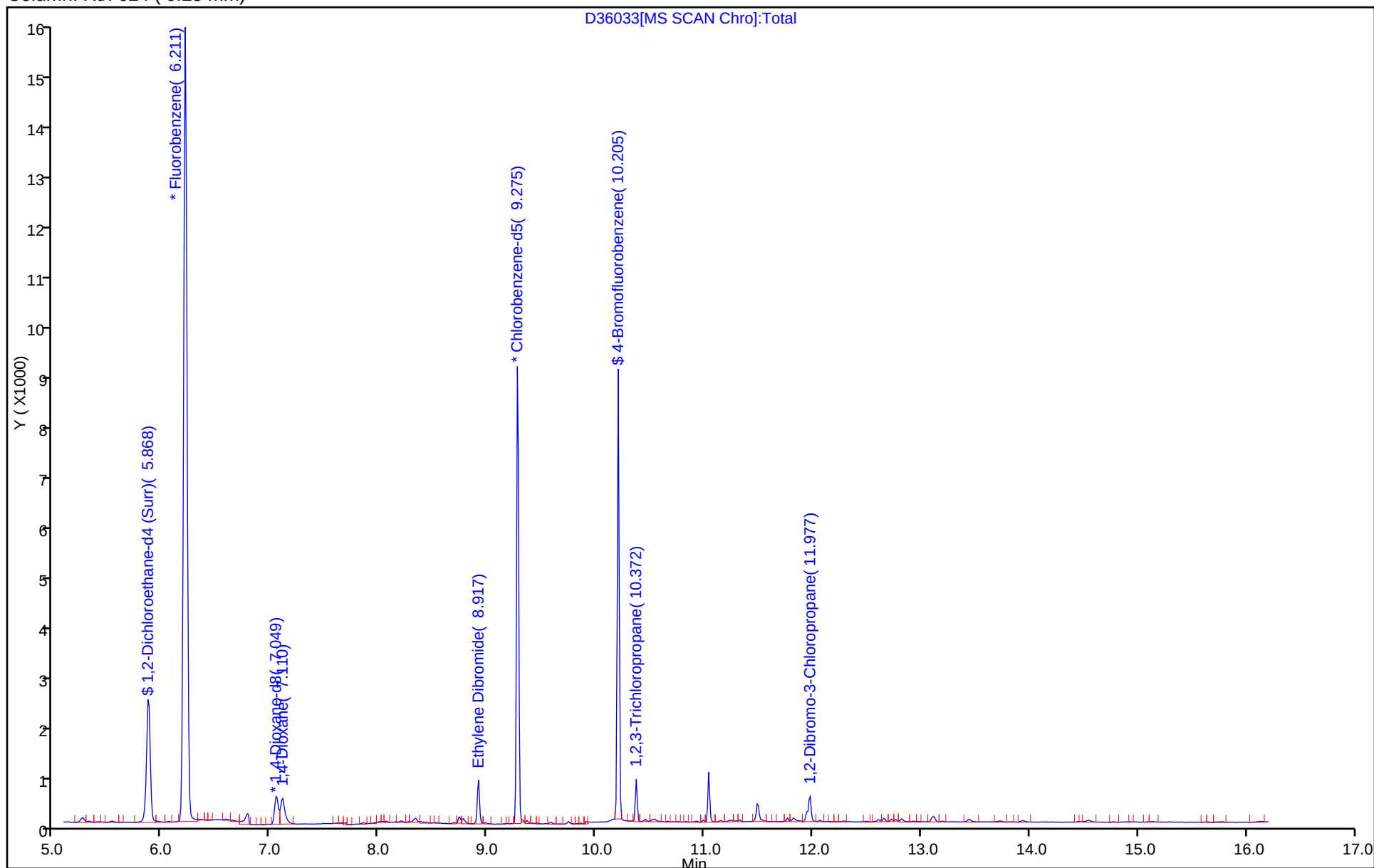
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 02-May-2017 19:16:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD1
 Misc. Info.: 460-0054581-014 460-0054581-008
 Operator ID: Instrument ID: CVOAMS4
 Sublist: chrom-8260SIM_4*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 02-May-2017 20:51:10 Calib Date: 02-May-2017 19:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK004

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	28212	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	7.049	7.048	0.001	100	536	10.0	10.0	
* 3 Chlorobenzene-d5	82	9.275	9.274	0.001	100	7645	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.867	5.867	0.000	100	5176	0.5003	0.4988	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	99	4273	0.5002	0.4895	
7 1,4-Dioxane	88	7.118	7.110	0.008	65	60	1.00	0.9457	
8 Ethylene Dibromide	107	8.917	8.917	0.000	98	232	0.0400	0.0432	
9 1,2,3-Trichloropropane	75	10.372	10.372	0.000	98	237	0.0400	0.0405	
10 1,2-Dibromo-3-Chloropropan	157	11.945	11.945	0.000	85	53	0.0400	0.0420	

Reagents:

VMMIX1SIM_00097	Amount Added: 2.00	Units: uL	
SIMDIOX50_00008	Amount Added: 10.00	Units: uL	
SimissurNEW_00004	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170502-54581.b\\D36035.D

Injection Date: 02-May-2017 19:16:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: STD1

Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL

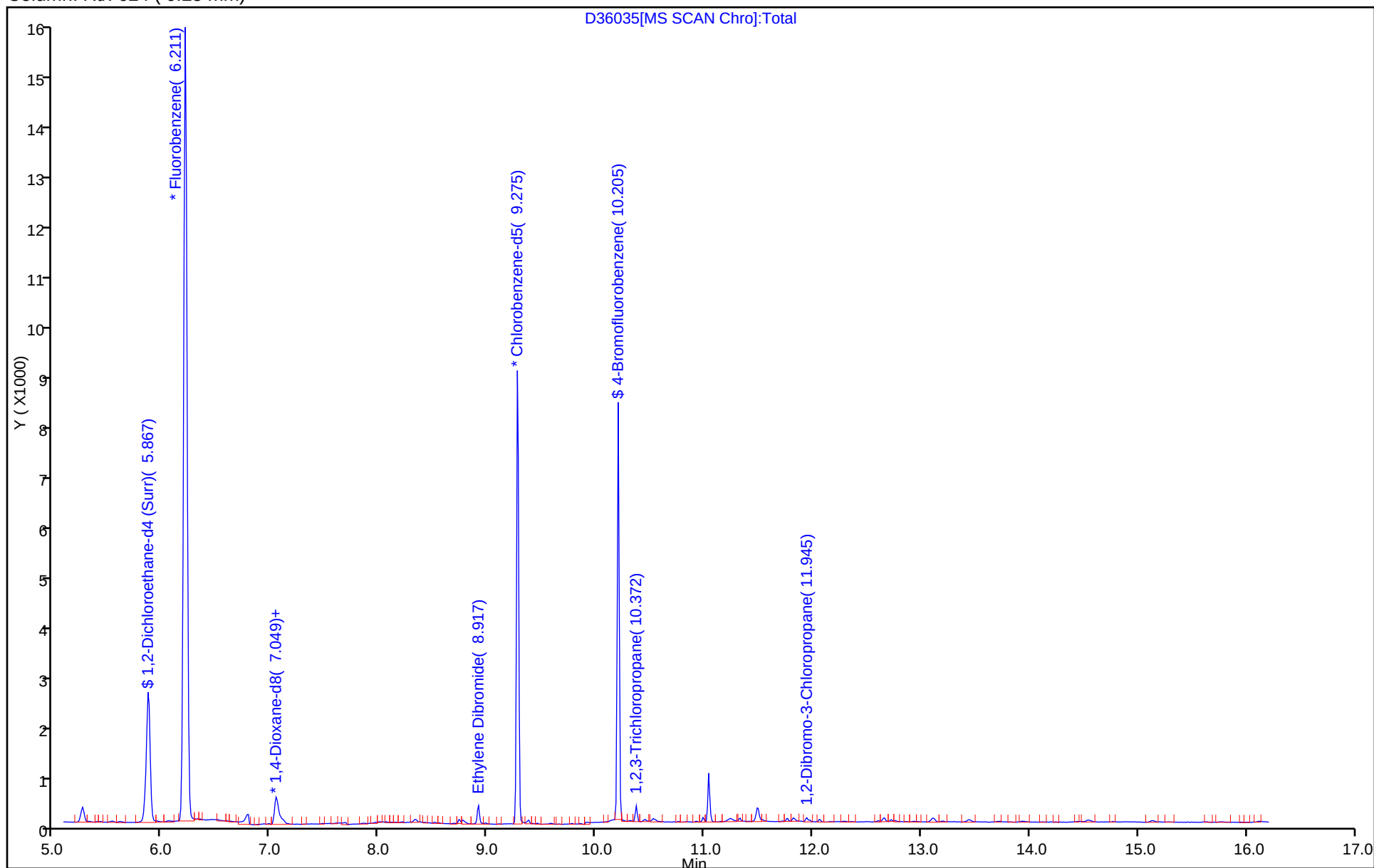
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 480-117063-1 Analy Batch No.: 435468

SDG No.: _____

Instrument ID: CVOAMS4 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/06/2017 17:58 Calibration End Date: 05/06/2017 20:43 Calibration ID: 62283

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD04 460-435468/2	D36235.D
Level 2	STD1 460-435468/3	D36236.D
Level 3	STD5 460-435468/4	D36237.D
Level 4	STD10 460-435468/5	D36238.D
Level 5	STD20 460-435468/6	D36239.D
Level 6	STD30 460-435468/7	D36240.D
Level 7	STD40 460-435468/8	D36241.D
Level 8	STD50 460-435468/9	D36242.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 5		B	M1	M2								
1,4-Dioxane	1.1643 1.0982	1.1298 1.1279	1.1507 1.1430	1.1557	1.0534	Ave		1.1279				3.2		20.0			
Ethylene Dibromide	0.2814 0.2840	0.2724 0.2828	0.3161 0.2979	0.3157	0.2819	Ave		0.2915			0.1000	5.7		20.0			
1,2,3-Trichloropropane	0.3677 0.3129	0.2908 0.3016	0.3534 0.3179	0.3613	0.3172	Ave		0.3279				8.8		20.0			
1,2-Dibromo-3-Chloropropane	0.0811 0.0699	0.0681 0.0680	0.0754 0.0711	0.0822	0.0713	Ave		0.0734			0.0500	7.7		20.0			
1,2-Dichloroethane-d4 (Surr)	0.1604 0.1615	0.1641 0.1631	0.1625 0.1686	0.1639	0.1654	Ave		0.1637				1.5		20.0			
4-Bromofluorobenzene	0.5809 0.5712	0.5780 0.5840	0.5589 0.5881	0.5668	0.5813	Ave		0.5761				1.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 480-117063-1 Analy Batch No.: 435468

SDG No.: _____

Instrument ID: CVOAMS4 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/06/2017 17:58 Calibration End Date: 05/06/2017 20:43 Calibration ID: 62283

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD04 460-435468/2	D36235.D
Level 2	STD1 460-435468/3	D36236.D
Level 3	STD5 460-435468/4	D36237.D
Level 4	STD10 460-435468/5	D36238.D
Level 5	STD20 460-435468/6	D36239.D
Level 6	STD30 460-435468/7	D36240.D
Level 7	STD40 460-435468/8	D36241.D
Level 8	STD50 460-435468/9	D36242.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 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dioxane	DXE	Ave	72 2975	114 3889	485 4955	950	1873	0.400 30.0	1.00 40.0	5.00 50.0	10.0	20.0
Ethylene Dibromide	CBNZ d5	Ave	163 3198	280 6587	373 13260	741	1284	0.0200 0.500	0.0400 1.00	0.0500 2.00	0.100	0.200
1,2,3-Trichloropropane	CBNZ d5	Ave	213 3524	299 7024	417 14150	848	1445	0.0200 0.500	0.0400 1.00	0.0500 2.00	0.100	0.200
1,2-Dibromo-3-Chloropropane	CBNZ d5	Ave	47 787	70 1583	89 3165	193	325	0.0200 0.500	0.0400 1.00	0.0500 2.00	0.100	0.200
1,2-Dichloroethane-d4 (Surr)	FB	Ave	7063 6588	6812 6718	6389 6729	6659	6651	0.500 0.500	0.500 0.500	0.500 0.500	0.500	0.500
4-Bromofluorobenzene	CBNZ d5	Ave	8415 6435	7431 6804	6598 6547	6653	6622	0.500 0.500	0.500 0.500	0.500 0.500	0.500	0.500

Curve Type Legend:

Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\D36235.D
 Lims ID: STD04
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 06-May-2017 17:58:30 ALS Bottle#: 1 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD0.4
 Misc. Info.: 460-0054786-002
 Operator ID: Instrument ID: CVOAMS4
 Sublist: chrom-8260SIM_4*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 08-May-2017 17:07:43 Calib Date: 06-May-2017 20:43:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\D36242.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK030

First Level Reviewer: baronm

Date: 08-May-2017 17:01:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	44006	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	7.049	7.048	0.001	100	1546	10.0	10.0	
* 3 Chlorobenzene-d5	82	9.275	9.274	0.001	100	14480	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.878	5.867	0.011	73	7063	0.5003	0.4902	
\$ 5 4-Bromofluorobenzene	95	10.205	10.203	0.002	100	8415	0.5002	0.5044	
7 1,4-Dioxane	88	7.118	7.109	0.009	19	72	0.4000	0.4129	
8 Ethylene Dibromide	107	8.917	8.916	0.001	99	163	0.0200	0.0193	
9 1,2,3-Trichloropropane	75	10.372	10.370	0.002	98	213	0.0200	0.0224	
10 1,2-Dibromo-3-Chloropropan	157	11.945	11.943	0.002	84	47	0.0200	0.0221	

Reagents:

VMMIX1SIM_00097	Amount Added: 1.00	Units: uL	
SIMDIOX50_00008	Amount Added: 4.00	Units: uL	
SimissurNEW_00006	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\D36235.D

Injection Date: 06-May-2017 17:58:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: STD04

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

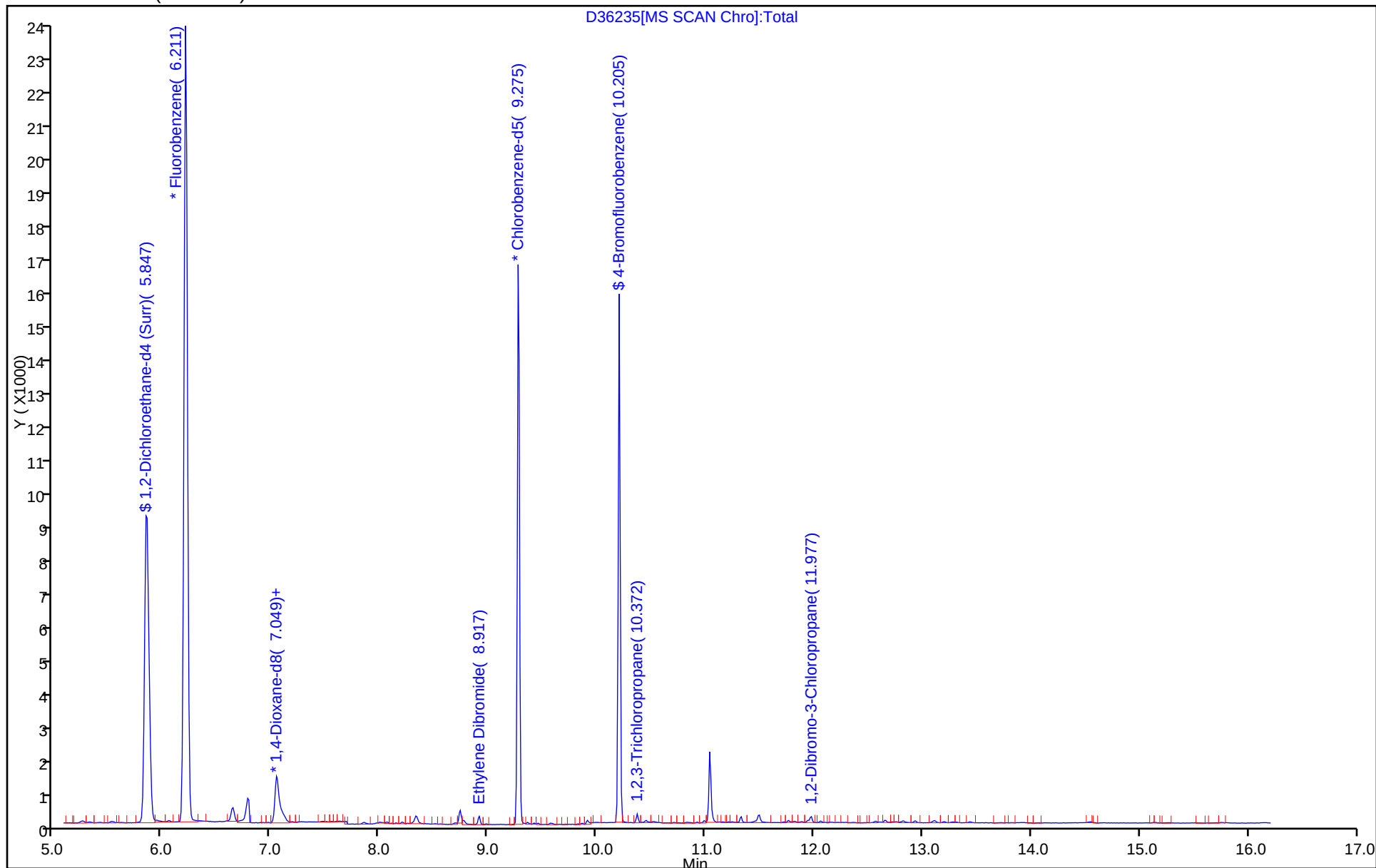
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\D36236.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 06-May-2017 18:21:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD1
 Misc. Info.: 460-0054786-003
 Operator ID: Instrument ID: CVOAMS4
 Sublist: chrom-8260SIM_4*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 08-May-2017 17:07:45 Calib Date: 06-May-2017 20:43:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\D36242.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK030

First Level Reviewer: baronm

Date: 08-May-2017 17:00:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	41492	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	7.049	7.048	0.000	99	1009	10.0	10.0	
* 3 Chlorobenzene-d5	82	9.274	9.274	0.000	100	12851	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.878	5.867	0.011	75	6812	0.5003	0.5014	
\$ 5 4-Bromofluorobenzene	95	10.205	10.203	0.002	100	7431	0.5002	0.5018	
7 1,4-Dioxane	88	7.110	7.109	0.001	31	114	1.00	1.00	
8 Ethylene Dibromide	107	8.917	8.916	0.001	94	280	0.0400	0.0374	
9 1,2,3-Trichloropropane	75	10.372	10.370	0.002	99	299	0.0400	0.0355	
10 1,2-Dibromo-3-Chloropropan	157	11.945	11.943	0.002	71	70	0.0400	0.0371	

Reagents:

VMMIX1SIM_00097	Amount Added: 2.00	Units: uL	
SIMDIOX50_00008	Amount Added: 10.00	Units: uL	
SimissurNEW_00006	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170506-54786.b\\D36236.D

Injection Date: 06-May-2017 18:21:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: STD1

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

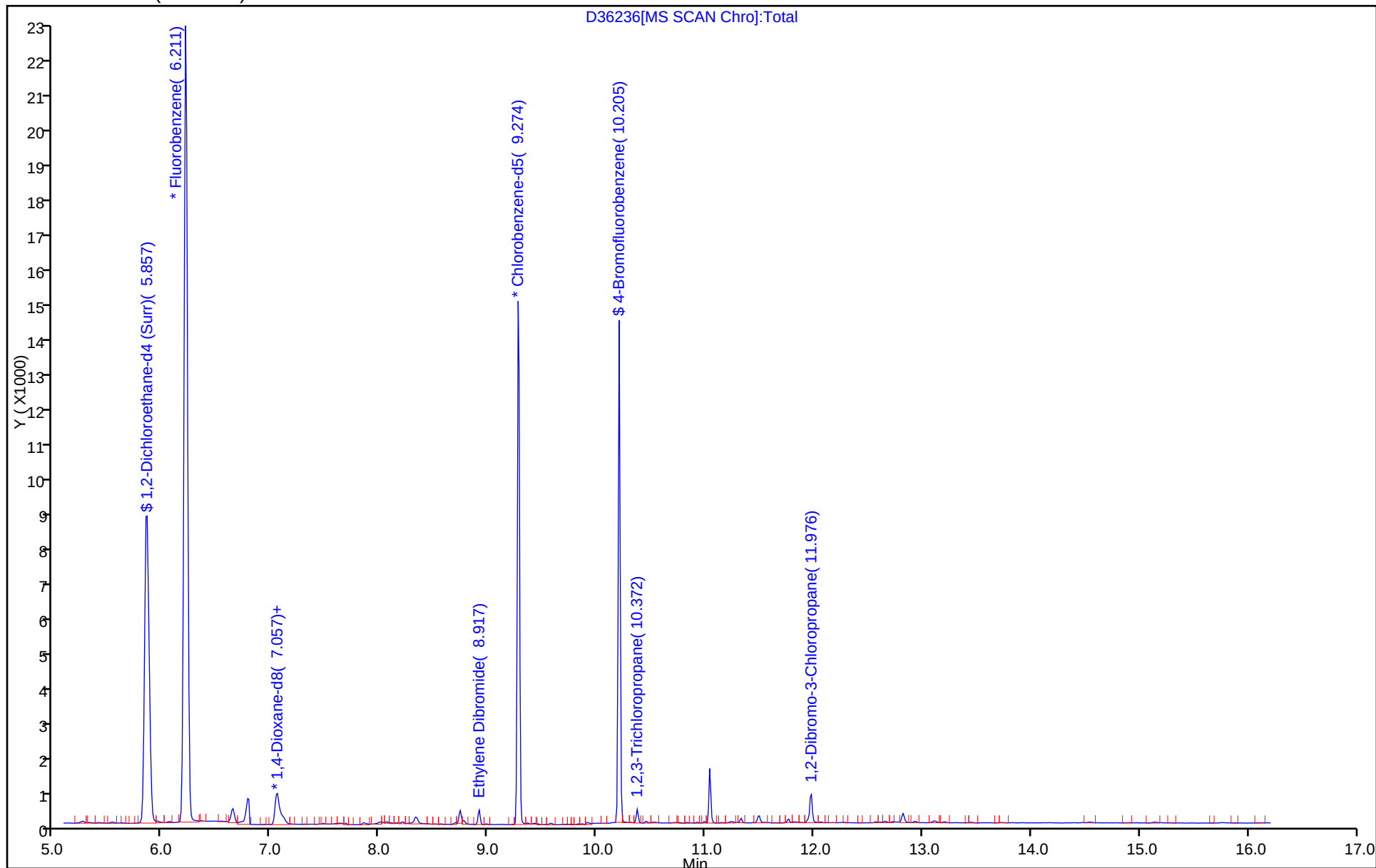
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\D36237.D
 Lims ID: STD5
 Client ID:
 Sample Type: ICIS Calib Level: 3
 Inject. Date: 06-May-2017 18:45:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD5
 Misc. Info.: 460-0054786-004
 Operator ID: Instrument ID: CVOAMS4
 Sublist: chrom-8260SIM_4*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 08-May-2017 17:07:47 Calib Date: 06-May-2017 20:43:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\D36242.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK030

First Level Reviewer: baronm

Date: 08-May-2017 17:00:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	39285	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	7.050	7.050	0.000	98	843	10.0	10.0	
* 3 Chlorobenzene-d5	82	9.276	9.276	0.000	99	11801	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.867	5.867	0.000	92	6389	0.5003	0.4967	
\$ 5 4-Bromofluorobenzene	95	10.206	10.206	0.000	98	6598	0.5002	0.4852	
7 1,4-Dioxane	88	7.111	7.111	0.000	96	485	5.00	5.10	
8 Ethylene Dibromide	107	8.918	8.918	0.000	96	373	0.0500	0.0542	
9 1,2,3-Trichloropropane	75	10.373	10.373	0.000	98	417	0.0500	0.0539	
10 1,2-Dibromo-3-Chloropropan	157	11.947	11.947	0.000	69	89	0.0500	0.0514	

Reagents:

VMMIX1SIM_00097	Amount Added: 1.00	Units: uL	
SIMDIOX50_00008	Amount Added: 20.00	Units: uL	
SimissurNEW_00006	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170506-54786.b\\D36237.D

Injection Date: 06-May-2017 18:45:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: STD5

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

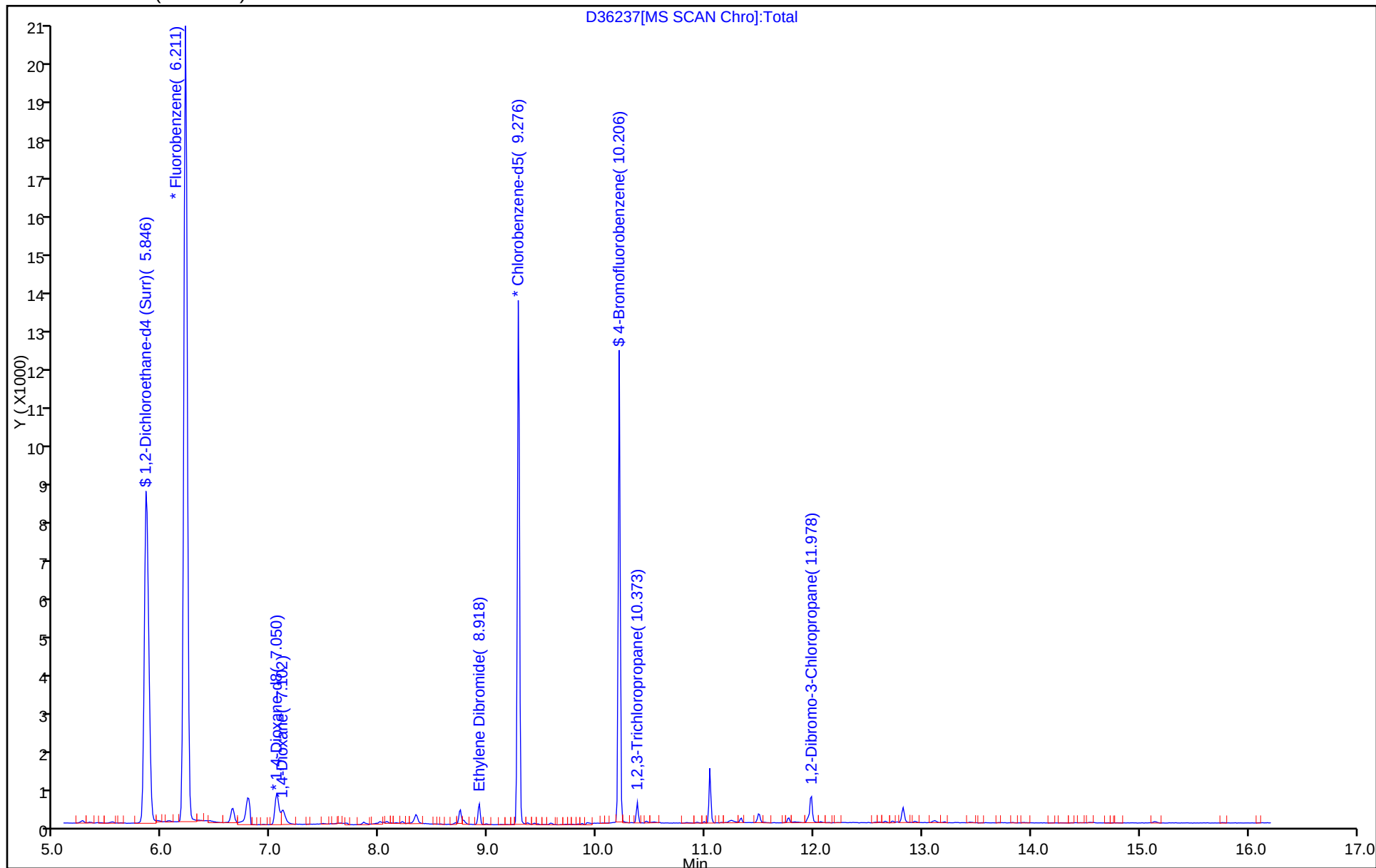
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\D36238.D
 Lims ID: STD10
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 06-May-2017 19:08:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD10
 Misc. Info.: 460-0054786-005
 Operator ID: Instrument ID: CVOAMS4
 Sublist: chrom-8260SIM_4*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 08-May-2017 17:07:48 Calib Date: 06-May-2017 20:43:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\D36242.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK030

First Level Reviewer: baronm

Date: 08-May-2017 17:00:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	40599	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	7.049	7.049	0.000	97	822	10.0	10.0	
* 3 Chlorobenzene-d5	82	9.275	9.275	0.000	98	11734	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.878	5.878	0.000	70	6659	0.5003	0.5010	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	97	6653	0.5002	0.4921	
7 1,4-Dioxane	88	7.118	7.118	0.000	94	950	10.0	10.2	
8 Ethylene Dibromide	107	8.917	8.917	0.000	95	741	0.1000	0.1083	
9 1,2,3-Trichloropropane	75	10.372	10.372	0.000	100	848	0.1000	0.1102	
10 1,2-Dibromo-3-Chloropropan	157	11.945	11.945	0.000	72	193	0.1000	0.1120	

Reagents:

VMMIX1SIM_00097	Amount Added: 1.00	Units: uL	
SIMDIOX50_00008	Amount Added: 20.00	Units: uL	
SimissurNEW_00006	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\D36238.D

Injection Date: 06-May-2017 19:08:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: STD10

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

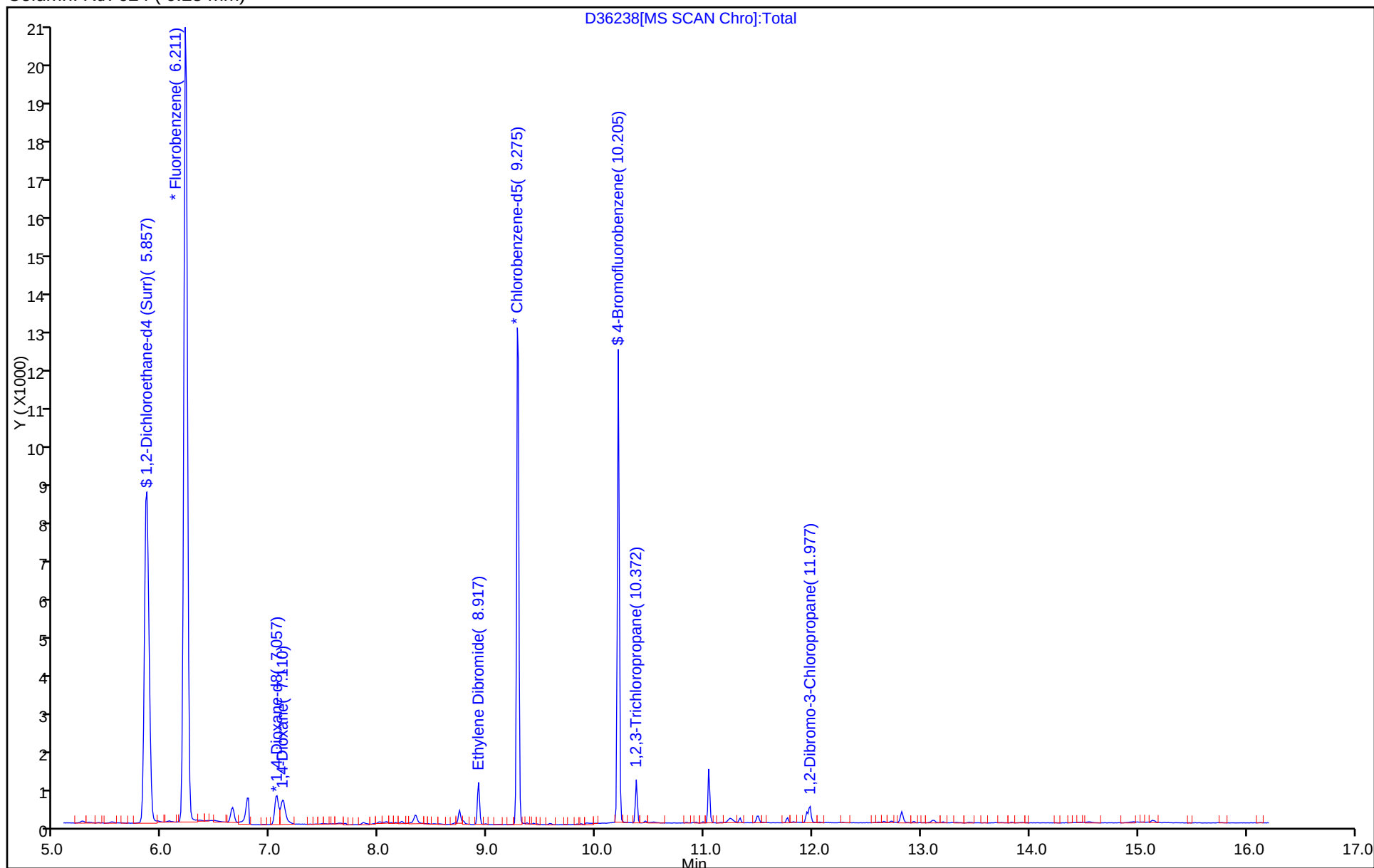
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\D36239.D
 Lims ID: STD20
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 06-May-2017 19:32:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD20
 Misc. Info.: 460-0054786-006
 Operator ID: Instrument ID: CVOAMS4
 Sublist: chrom-8260SIM_4*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 08-May-2017 17:07:50 Calib Date: 06-May-2017 20:43:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\D36242.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK030

First Level Reviewer: baronm

Date: 08-May-2017 17:00:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	40175	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	7.048	7.048	0.000	85	889	10.0	10.0	
* 3 Chlorobenzene-d5	82	9.274	9.274	0.000	98	11388	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.867	5.867	0.000	98	6651	0.5003	0.5056	
\$ 5 4-Bromofluorobenzene	95	10.203	10.203	0.000	92	6622	0.5002	0.5046	
7 1,4-Dioxane	88	7.109	7.109	0.000	91	1873	20.0	18.7	
8 Ethylene Dibromide	107	8.916	8.916	0.000	95	1284	0.2000	0.1934	
9 1,2,3-Trichloropropane	75	10.370	10.370	0.000	97	1445	0.2000	0.1935	
10 1,2-Dibromo-3-Chloropropan	157	11.943	11.943	0.000	66	325	0.2000	0.1944	

Reagents:

VMMIX1SIM_00097	Amount Added: 1.00	Units: uL	
SIMDIOX50_00008	Amount Added: 20.00	Units: uL	
SimissurNEW_00006	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170506-54786.b\\D36239.D

Injection Date: 06-May-2017 19:32:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: STD20

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

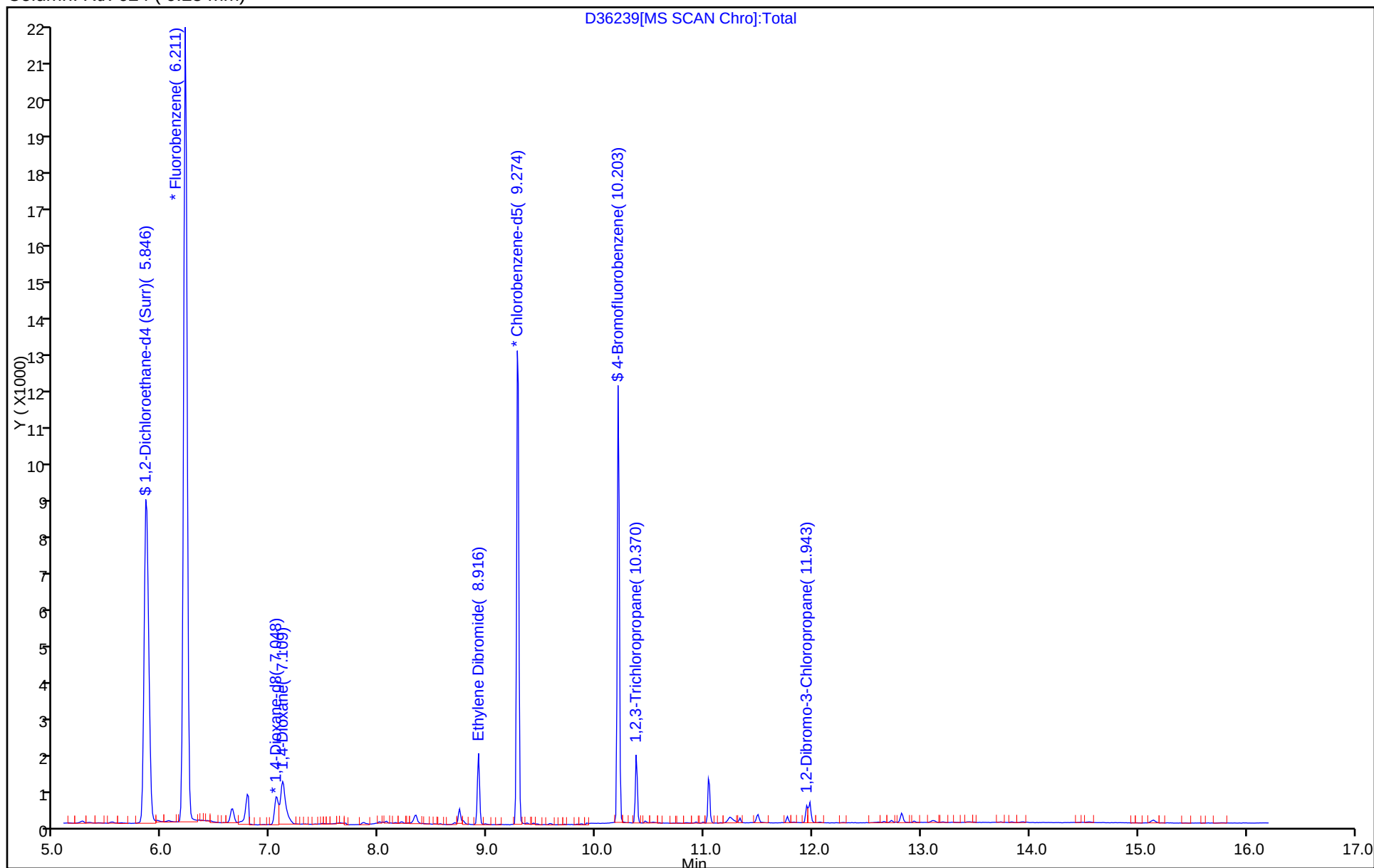
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\D36240.D
 Lims ID: STD30
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 06-May-2017 19:56:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD30
 Misc. Info.: 460-0054786-007
 Operator ID: Instrument ID: CVOAMS4
 Sublist: chrom-8260SIM_4*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 08-May-2017 17:07:51 Calib Date: 06-May-2017 20:43:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\D36242.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK030

First Level Reviewer: baronm

Date: 08-May-2017 17:01:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.221	6.211	0.010	99	40757	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	7.048	7.048	0.000	86	903	10.0	10.0	
* 3 Chlorobenzene-d5	82	9.274	9.274	0.000	98	11262	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.878	5.867	0.011	74	6588	0.5003	0.4937	
\$ 5 4-Bromofluorobenzene	95	10.205	10.203	0.002	96	6435	0.5002	0.4959	
7 1,4-Dioxane	88	7.110	7.109	0.001	91	2975	30.0	29.2	
8 Ethylene Dibromide	107	8.917	8.916	0.001	94	3198	0.5000	0.4870	
9 1,2,3-Trichloropropane	75	10.372	10.370	0.002	99	3524	0.5000	0.4772	
10 1,2-Dibromo-3-Chloropropan	157	11.945	11.943	0.002	69	787	0.5000	0.4760	

Reagents:

VMMIX1SIM_00097	Amount Added: 2.50	Units: uL	
SIMDIOX50_00008	Amount Added: 30.00	Units: uL	
SimissurNEW_00006	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170506-54786.b\\D36240.D

Injection Date: 06-May-2017 19:56:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: STD30

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

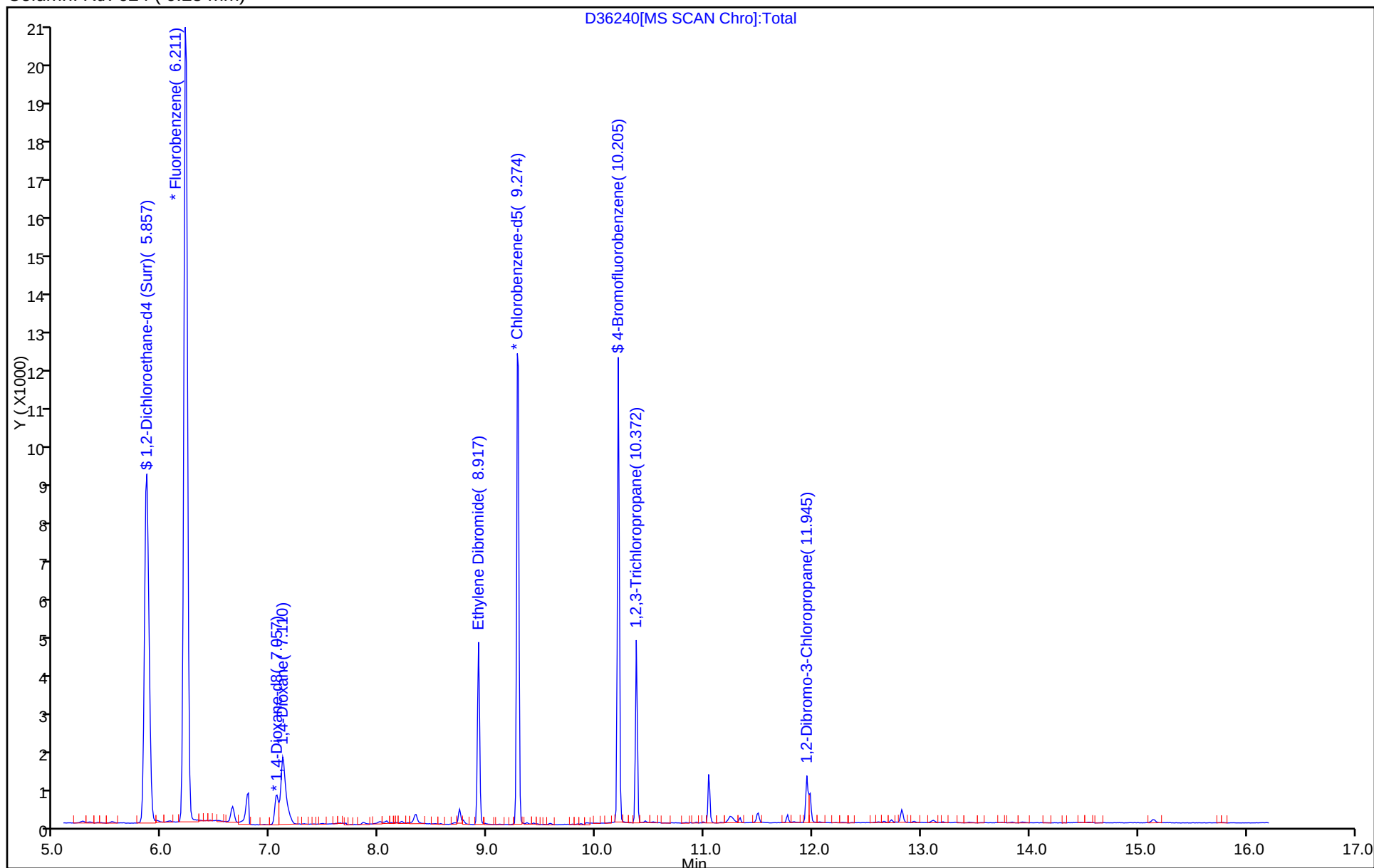
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\D36241.D
 Lims ID: STD40
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 06-May-2017 20:20:30 ALS Bottle#: 7 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD40
 Misc. Info.: 460-0054786-008
 Operator ID: Instrument ID: CVOAMS4
 Sublist: chrom-8260SIM_4*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 08-May-2017 17:07:52 Calib Date: 06-May-2017 20:43:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\D36242.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK030

First Level Reviewer: baronm

Date: 08-May-2017 17:01:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	41157	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	7.049	7.048	0.001	84	862	10.0	10.0	
* 3 Chlorobenzene-d5	82	9.275	9.274	0.000	98	11646	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.878	5.867	0.011	66	6718	0.5003	0.4986	
\$ 5 4-Bromofluorobenzene	95	10.205	10.203	0.002	96	6804	0.5002	0.5070	
7 1,4-Dioxane	88	7.110	7.109	0.001	89	3889	40.0	40.0	
8 Ethylene Dibromide	107	8.917	8.916	0.001	96	6587	1.00	0.9701	
9 1,2,3-Trichloropropane	75	10.372	10.370	0.002	99	7024	1.00	0.9198	
10 1,2-Dibromo-3-Chloropropan	157	11.945	11.943	0.002	73	1583	1.00	0.9260	

Reagents:

VMMIX1SIM_00097	Amount Added: 5.00	Units: uL	
SIMDIOX50_00008	Amount Added: 40.00	Units: uL	
SimissurNEW_00006	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170506-54786.b\\D36241.D

Injection Date: 06-May-2017 20:20:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: STD40

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

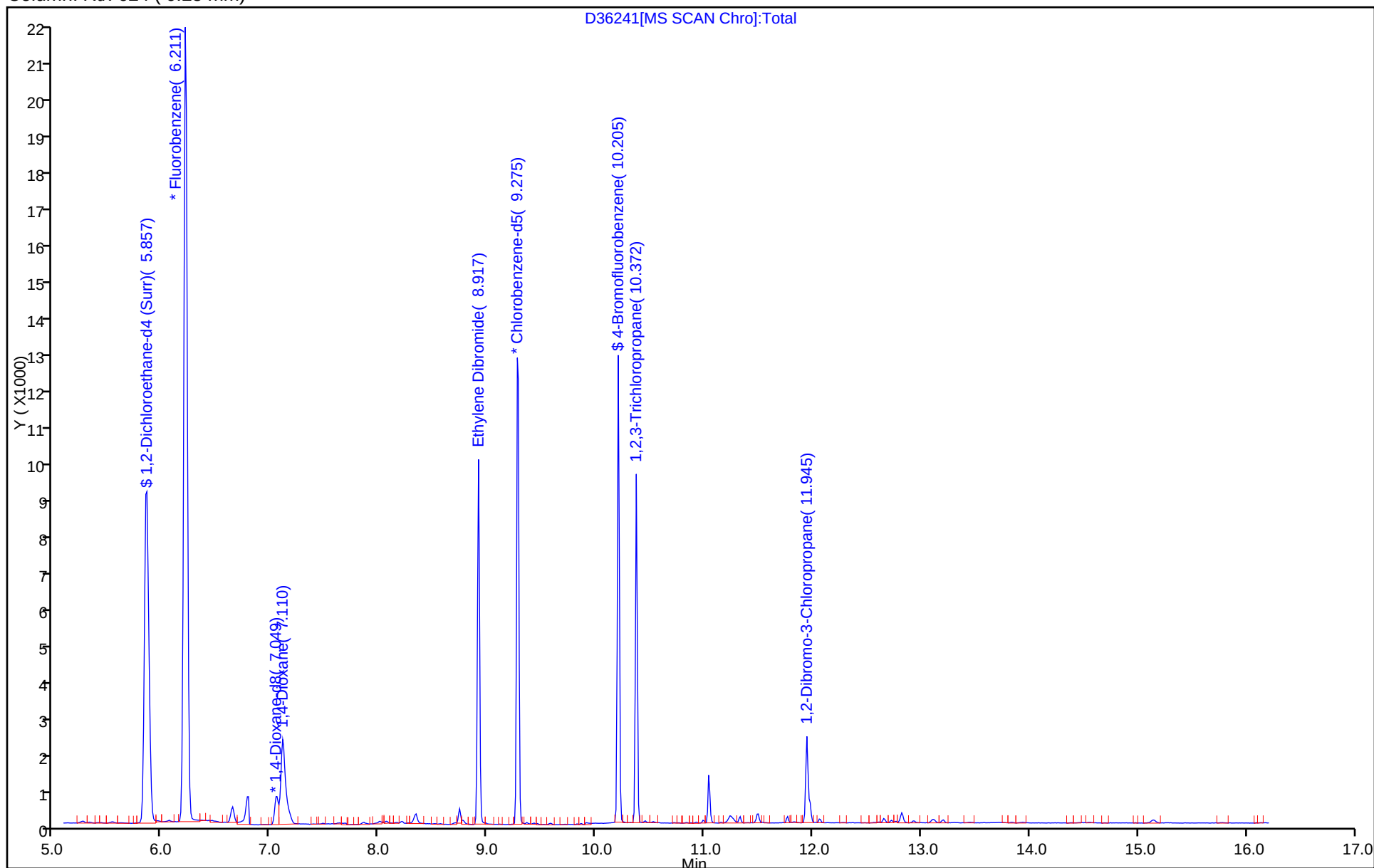
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\D36242.D
 Lims ID: STD50
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 06-May-2017 20:43:30 ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD50
 Misc. Info.: 460-0054786-009
 Operator ID: Instrument ID: CVOAMS4
 Sublist: chrom-8260SIM_4*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 08-May-2017 17:07:54 Calib Date: 06-May-2017 20:43:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\D36242.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK030

First Level Reviewer: baronm

Date: 08-May-2017 17:01:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	39887	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	7.049	7.048	0.001	84	867	10.0	10.0	
* 3 Chlorobenzene-d5	82	9.275	9.274	0.001	99	11128	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.878	5.867	0.011	70	6729	0.5003	0.5153	
\$ 5 4-Bromofluorobenzene	95	10.205	10.203	0.002	96	6547	0.5002	0.5106	
7 1,4-Dioxane	88	7.110	7.109	0.001	89	4955	50.0	50.7	
8 Ethylene Dibromide	107	8.917	8.916	0.001	95	13260	2.00	2.04	
9 1,2,3-Trichloropropane	75	10.372	10.370	0.002	99	14150	2.00	1.94	
10 1,2-Dibromo-3-Chloropropan	157	11.945	11.943	0.002	71	3165	2.00	1.94	

Reagents:

VMMIX1SIM_00097	Amount Added: 10.00	Units: uL	
SIMDIOX50_00008	Amount Added: 50.00	Units: uL	
SimissurNEW_00006	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170506-54786.b\\D36242.D

Injection Date: 06-May-2017 20:43:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: STD50

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

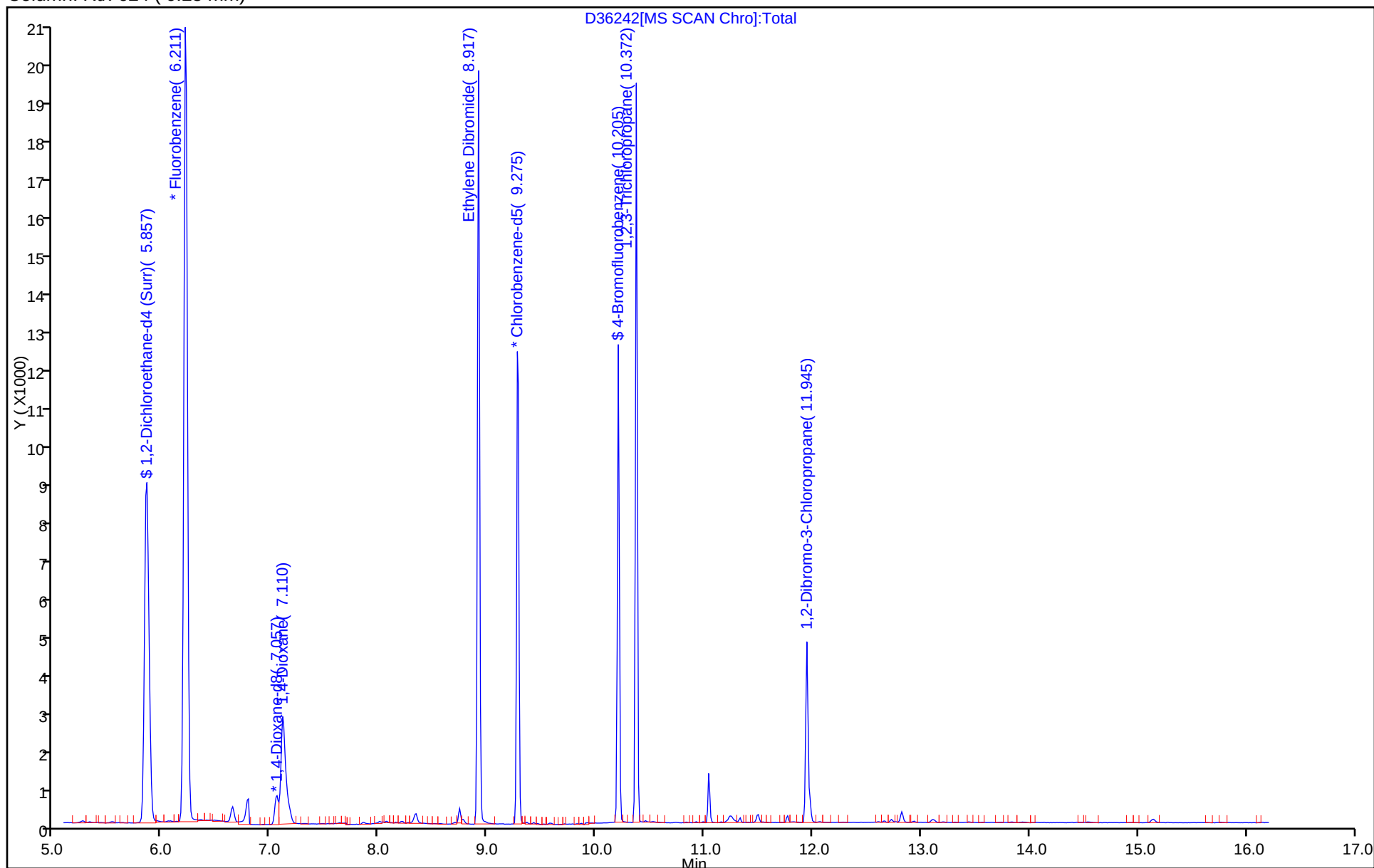
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 480-117063-1
 SDG No.: _____
 Lab Sample ID: CCVIS 460-434882/4 Calibration Date: 05/04/2017 07:32
 Instrument ID: CVOAMS4 Calib Start Date: 05/02/2017 13:31
 GC Column: Rtx-624 ID: 0.25 (mm) Calib End Date: 05/02/2017 19:16
 Lab File ID: D36126.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	1.184	1.249		5.28	5.00	5.5	50.0
Ethylene Dibromide	Ave	0.3511	0.2655	0.1000	0.0378	0.0500	-24.4*	20.0
1,2,3-Trichloropropane	Ave	0.3831	0.3731		0.0487	0.0500	-2.6	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0826	0.0866	0.0500	0.0524	0.0500	4.9	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1839	0.1484		0.404	0.500	-19.3	20.0
4-Bromofluorobenzene	Ave	0.5709	0.5541		0.485	0.500	-2.9	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\D36126.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 04-May-2017 07:32:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 460-0054674-004
 Operator ID: Instrument ID: CVOAMS4
 Sublist: chrom-8260SIM_4*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 04-May-2017 09:55:11 Calib Date: 02-May-2017 19:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: desais

Date: 04-May-2017 08:25:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	24811	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	7.049	7.049	0.000	99	506	10.0	10.0	
* 3 Chlorobenzene-d5	82	9.274	9.274	0.000	98	7157	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.878	5.878	0.000	25	3684	0.5003	0.4037	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	96	3967	0.5002	0.4855	
7 1,4-Dioxane	88	7.110	7.110	0.000	98	316	5.00	5.28	
8 Ethylene Dibromide	107	8.917	8.917	0.000	100	190	0.0500	0.0378	
9 1,2,3-Trichloropropane	75	10.372	10.372	0.000	99	267	0.0500	0.0487	
10 1,2-Dibromo-3-Chloropropan	157	11.945	11.945	0.000	89	62	0.0500	0.0524	

Reagents:

VMMIX1SIM_00097	Amount Added: 1.00	Units: uL	
SIMDIOX50_00008	Amount Added: 20.00	Units: uL	
SimissurNEW_00004	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170504-54674.b\\D36126.D

Injection Date: 04-May-2017 07:32:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: CCVIS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

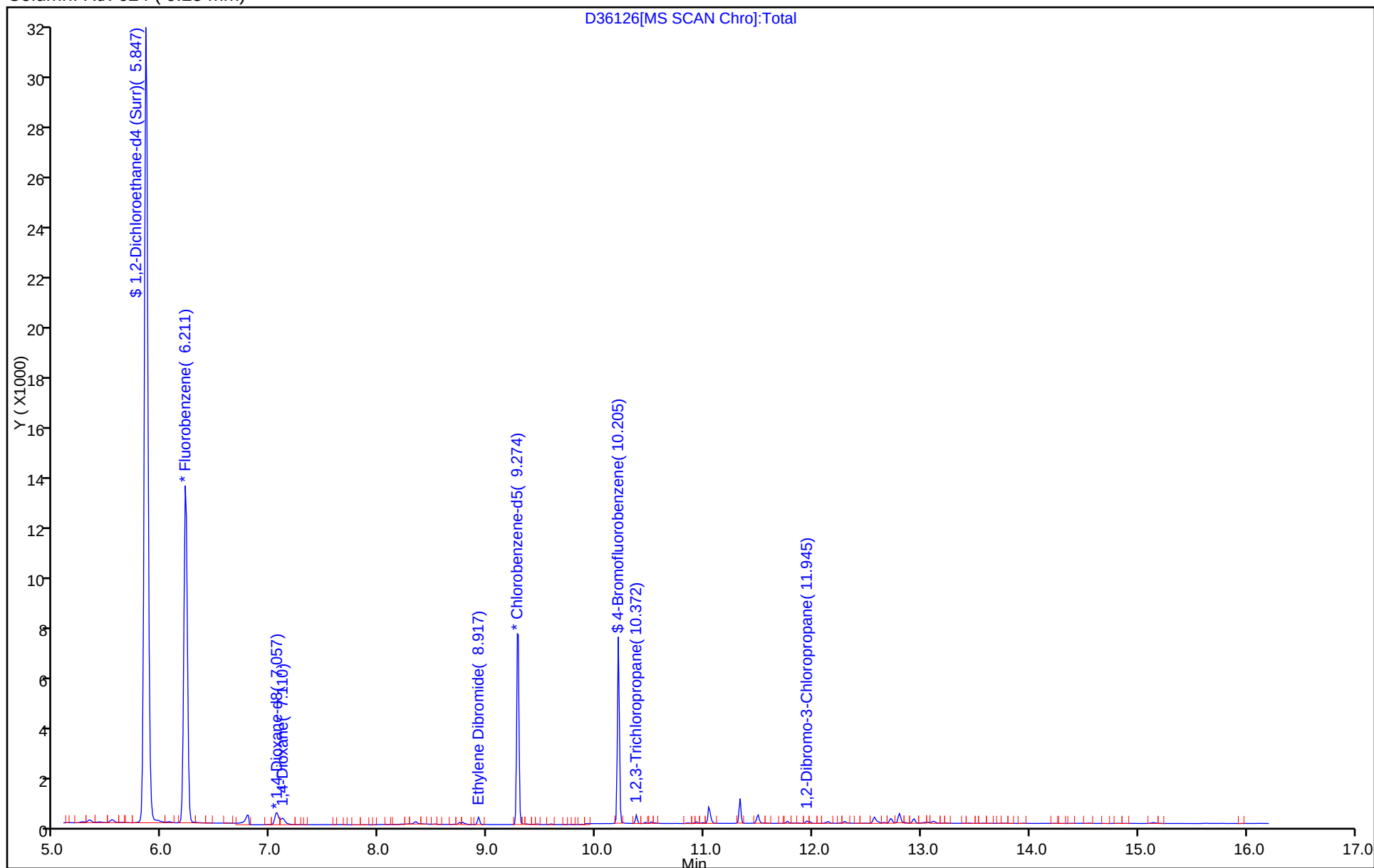
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 480-117063-1
 SDG No.: _____
 Lab Sample ID: CCVIS 460-435512/2 Calibration Date: 05/07/2017 08:16
 Instrument ID: CVOAMS4 Calib Start Date: 05/06/2017 17:58
 GC Column: Rtx-624 ID: 0.25 (mm) Calib End Date: 05/06/2017 20:43
 Lab File ID: D36264.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	1.128	1.355		6.01	5.00	20.1	50.0
Ethylene Dibromide	Ave	0.2915	0.3245	0.1000	0.0557	0.0500	11.3	20.0
1,2,3-Trichloropropane	Ave	0.3279	0.3570		0.0545	0.0500	8.9	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0734	0.0874	0.0500	0.0595	0.0500	19.1	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1637	0.1662		0.508	0.500	1.5	20.0
4-Bromofluorobenzene	Ave	0.5761	0.5988		0.520	0.500	3.9	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170507-54798.b\D36264.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 07-May-2017 08:16:30 ALS Bottle#: 1 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 460-0054798-002
 Operator ID: Instrument ID: CVOAMS4
 Sublist: chrom-8260SIM_4*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170507-54798.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 08-May-2017 17:19:50 Calib Date: 06-May-2017 20:43:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\D36242.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK030

First Level Reviewer: baronm

Date: 08-May-2017 17:16:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	37828	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	7.049	7.049	0.000	97	750	10.0	10.0	
* 3 Chlorobenzene-d5	82	9.275	9.275	0.000	100	10755	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.868	5.868	0.000	92	6289	0.5003	0.5078	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	99	6443	0.5002	0.5199	
7 1,4-Dioxane	88	7.110	7.110	0.000	96	508	5.00	6.01	
8 Ethylene Dibromide	107	8.917	8.917	0.000	100	349	0.0500	0.0557	
9 1,2,3-Trichloropropane	75	10.372	10.372	0.000	100	384	0.0500	0.0545	
10 1,2-Dibromo-3-Chloropropan	157	11.945	11.945	0.000	77	94	0.0500	0.0595	

Reagents:

VMMIX1SIM_00097	Amount Added: 1.00	Units: uL	
SIMDIOX50_00008	Amount Added: 20.00	Units: uL	
SimissurNEW_00006	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170507-54798.b\\D36264.D

Injection Date: 07-May-2017 08:16:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

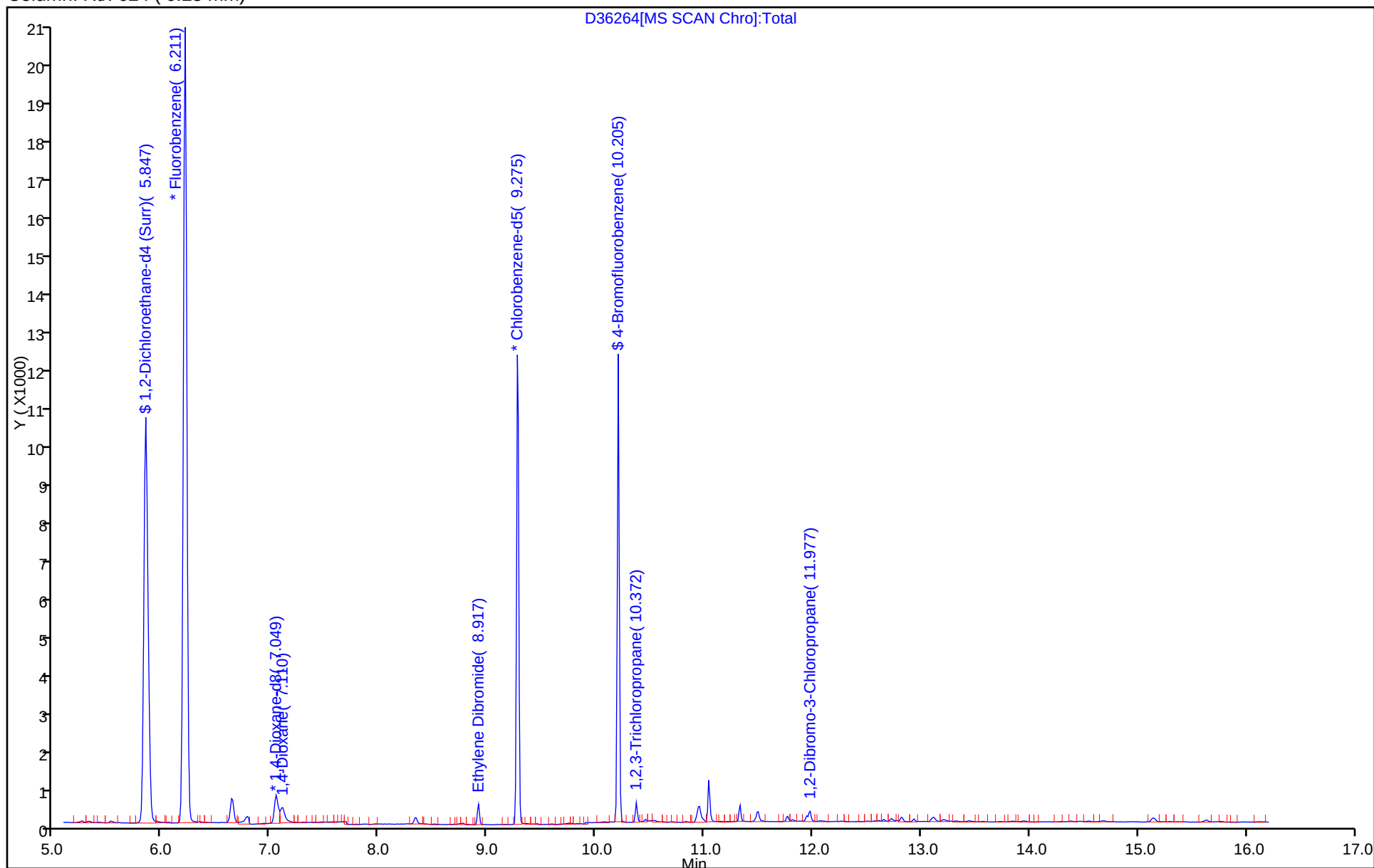
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36022.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 02-May-2017 12:58:30 ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0054581-001
Operator ID: Instrument ID: CVOAMS4
Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\8260SIM_4.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 02-May-2017 19:49:17 Calib Date: 02-May-2017 19:16:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: desais

Date: 02-May-2017 13:14:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

\$ 6 BFB	95	2.616	2.616	0.000	0	66159	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

SimissurNEW_00004

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36022.D

Injection Date: 02-May-2017 12:58:30

Instrument ID: CVOAMS4

Lims ID: BFB

Client ID:

Operator ID:

ALS Bottle#: 99 Worklist Smp#: 1

Injection Vol: 5.0 mL

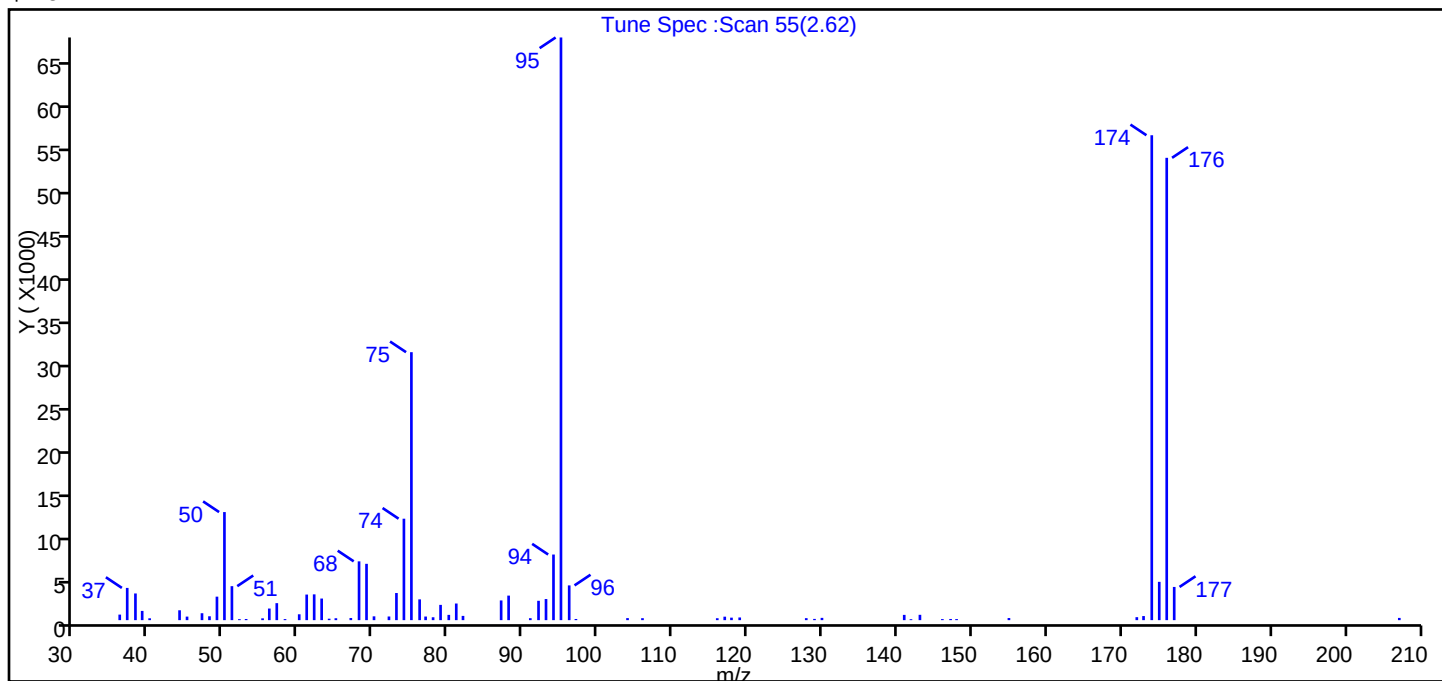
Dil. Factor: 1.0000

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Tune Method: BFB Method 8260

\$ 6 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.5
75	30 to 60% of m/z 95	46.0
96	5 to 9% of m/z 95	6.0
173	Less than 2% of m/z 174	0.7 (0.8)
174	50 to 120% of m/z 95	83.2
175	5 to 9% of m/z 174	6.6 (7.9)
176	Greater than 95% but less than 101% of m/z 174	79.3 (95.3)
177	5 to 9% of m/z 176	5.7 (7.2)

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36022.D\8260SIM_4.rslt\spectra.d
Injection Date: 02-May-2017 12:58:30
Spectrum: Tune Spec :Scan 55(2.62)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 71

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	642	60.00	679	80.00	611	127.80	230
37.00	3734	61.00	2964	81.00	1927	128.90	143
38.10	3091	62.00	2988	81.90	492	129.90	264
39.00	1070	63.00	2503	87.00	2283	140.90	610
40.00	214	64.00	168	88.00	2843	141.80	106
44.00	1143	64.90	220	90.90	227	143.00	618
45.00	410	66.90	249	92.00	2241	146.00	120
47.00	801	68.00	6812	93.00	2445	147.10	135
48.00	449	69.00	6526	94.00	7603	147.90	124
49.00	2722	70.00	441	95.00	67512	154.90	244
50.00	12522	72.00	423	96.10	4026	172.00	345
51.00	3937	73.00	3142	97.00	134	172.90	473
52.00	115	74.00	11754	103.90	236	174.00	56184
52.90	131	75.00	31048	105.90	228	175.00	4438
55.10	210	76.10	2407	115.90	222	176.00	53568
56.00	1344	76.90	418	116.90	401	177.00	3847
57.00	1968	77.90	334	117.80	289	207.10	258
58.10	123	78.90	1769	118.90	310		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\D36123.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 04-May-2017 06:26:30 ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 10.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0054674-001
Operator ID: Instrument ID: CVOAMS4
Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\8260SIM_4.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 04-May-2017 09:55:10 Calib Date: 02-May-2017 19:16:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: desais

Date: 04-May-2017 06:58:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

\$ 6 BFB	95	2.622	2.622	0.000	0	44001	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

SimissurNEW_00004

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\D36123.D

Injection Date: 04-May-2017 06:26:30

Instrument ID: CVOAMS4

Lims ID: BFB

Client ID:

Operator ID:

ALS Bottle#: 99 Worklist Smp#: 1

Injection Vol: 10.0 mL

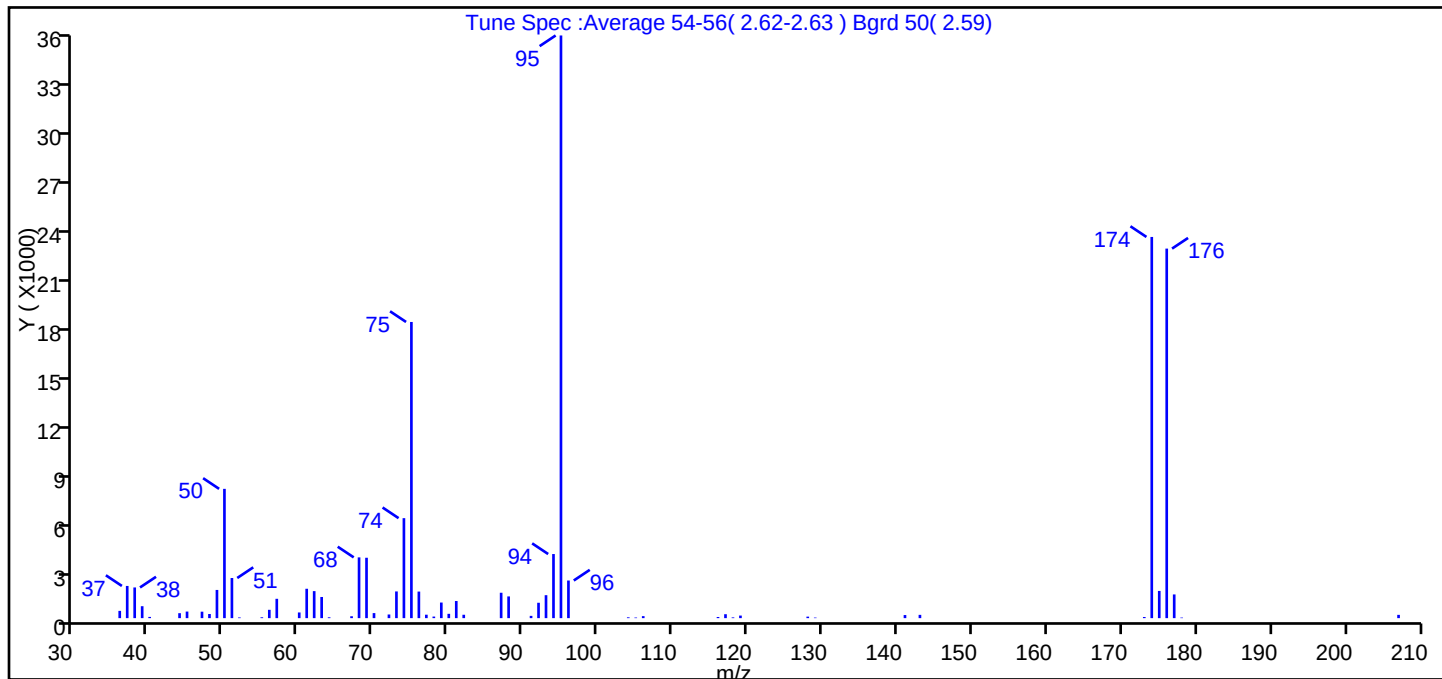
Dil. Factor: 1.0000

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Tune Method: BFB Method 8260

\$ 6 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.2
75	30 to 60% of m/z 95	50.8
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.2 (0.3)
174	50 to 120% of m/z 95	65.4
175	5 to 9% of m/z 174	4.7 (7.1)
176	Greater than 95% but less than 101% of m/z 174	63.4 (96.9)
177	5 to 9% of m/z 176	4.1 (6.4)

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\8260SIM_4.rslt\spectra.d
Injection Date: 04-May-2017 06:26:30
Spectrum: Tune Spec :Average 54-56(2.62-2.63) Bgrd 50(2.59)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 62

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	444	60.00	347	79.00	953	117.00	240
37.00	1966	61.00	1794	80.00	264	118.00	46
38.00	1874	62.00	1650	81.00	1046	119.00	157
39.00	729	63.00	1292	82.00	207	128.00	92
40.00	75	64.00	51	87.00	1551	129.00	34
44.00	303	67.00	115	88.00	1327	141.00	189
45.00	402	68.00	3711	91.00	139	143.00	201
47.00	395	69.00	3688	92.00	939	173.00	69
48.00	253	70.00	308	93.00	1402	174.00	23280
49.00	1722	72.00	223	94.00	3915	175.00	1662
50.00	7896	73.00	1631	95.00	35584	176.00	22568
51.00	2451	74.00	6106	96.00	2298	177.00	1448
52.00	42	75.00	18088	104.00	50	178.00	34
55.00	52	76.00	1623	105.00	37	207.00	201
56.00	509	77.00	210	106.00	122		
57.00	1181	78.00	96	116.00	70		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\D36234.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 06-May-2017 17:29:30 ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0054786-001
Operator ID: Instrument ID: CVOAMS4
Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\8260SIM_4.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 07-May-2017 13:02:58 Calib Date: 06-May-2017 20:43:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\D36242.D
Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 6 BFB	95	2.634	2.634	0.000	0	70806	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

SimissurNEW_00006

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\D36234.D

Injection Date: 06-May-2017 17:29:30

Instrument ID: CVOAMS4

Lims ID: BFB

Client ID:

Operator ID:

ALS Bottle#: 99 Worklist Smp#: 1

Injection Vol: 5.0 mL

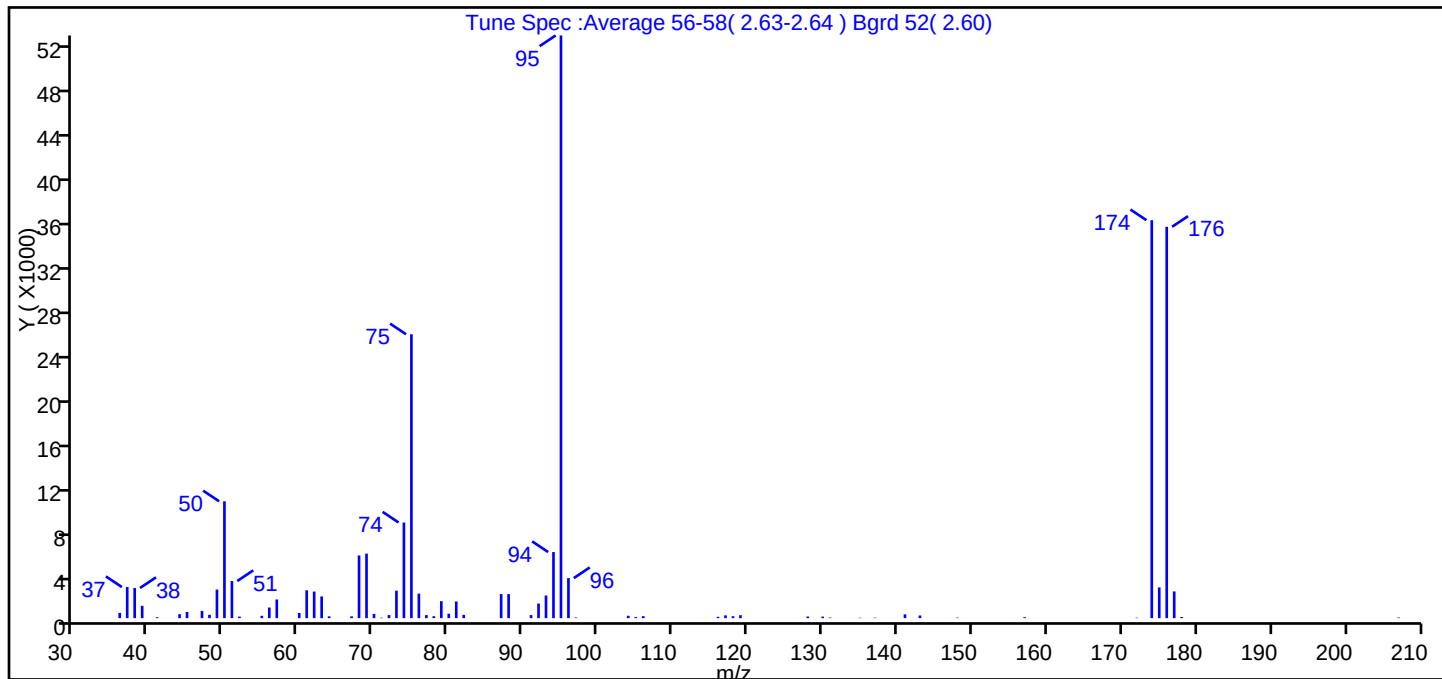
Dil. Factor: 1.0000

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Tune Method: BFB Method 8260

\$ 6 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.1
75	30 to 60% of m/z 95	48.7
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	68.3
175	5 to 9% of m/z 174	5.3 (7.7)
176	Greater than 95% but less than 101% of m/z 174	67.2 (98.3)
177	5 to 9% of m/z 176	4.6 (6.8)

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\D36234.D\8260SIM_4.rslt\spectra.d
Injection Date: 06-May-2017 17:29:30
Spectrum: Tune Spec :Average 56-58(2.63-2.64) Bgrd 52(2.60)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 69

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	469	62.00	2378	82.00	295	130.00	137
37.00	2780	63.00	1943	87.00	2156	131.00	53
38.00	2696	64.00	162	88.00	2149	135.00	38
39.00	1100	67.00	159	91.00	273	137.00	43
41.00	82	68.00	5604	92.00	1307	141.00	337
44.00	355	69.00	5770	93.00	2025	143.00	239
45.00	551	70.00	381	94.00	5908	148.00	44
47.00	647	71.00	39	95.00	52088	157.00	83
48.00	299	72.00	275	96.00	3579	172.00	38
49.00	2555	73.00	2455	97.00	56	174.00	35576
50.00	10445	74.00	8549	104.00	212	175.00	2747
51.00	3317	75.00	25376	105.00	95	176.00	34984
52.00	136	76.00	2189	106.00	180	177.00	2388
55.00	209	77.00	271	116.00	119	178.00	102
56.00	949	78.00	171	117.00	248	207.00	55
57.00	1669	79.00	1516	118.00	173		
60.00	463	80.00	399	119.00	263		
61.00	2488	81.00	1490	128.00	144		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170507-54798.b\D36263.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 07-May-2017 07:52:30 ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0054798-001
Operator ID: Instrument ID: CVOAMS4
Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170507-54798.b\8260SIM_4.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 08-May-2017 17:19:49 Calib Date: 06-May-2017 20:43:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\D36242.D
Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: tupayachia

Date: 07-May-2017 07:55:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

\$ 6 BFB	95	2.640	2.640	0.000	0	87809	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

SimissurNEW_00006 Amount Added: 2.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170507-54798.b\D36263.D

Injection Date: 07-May-2017 07:52:30

Instrument ID: CVOAMS4

Lims ID: BFB

Client ID:

Operator ID:

ALS Bottle#: 99 Worklist Smp#: 1

Injection Vol: 5.0 mL

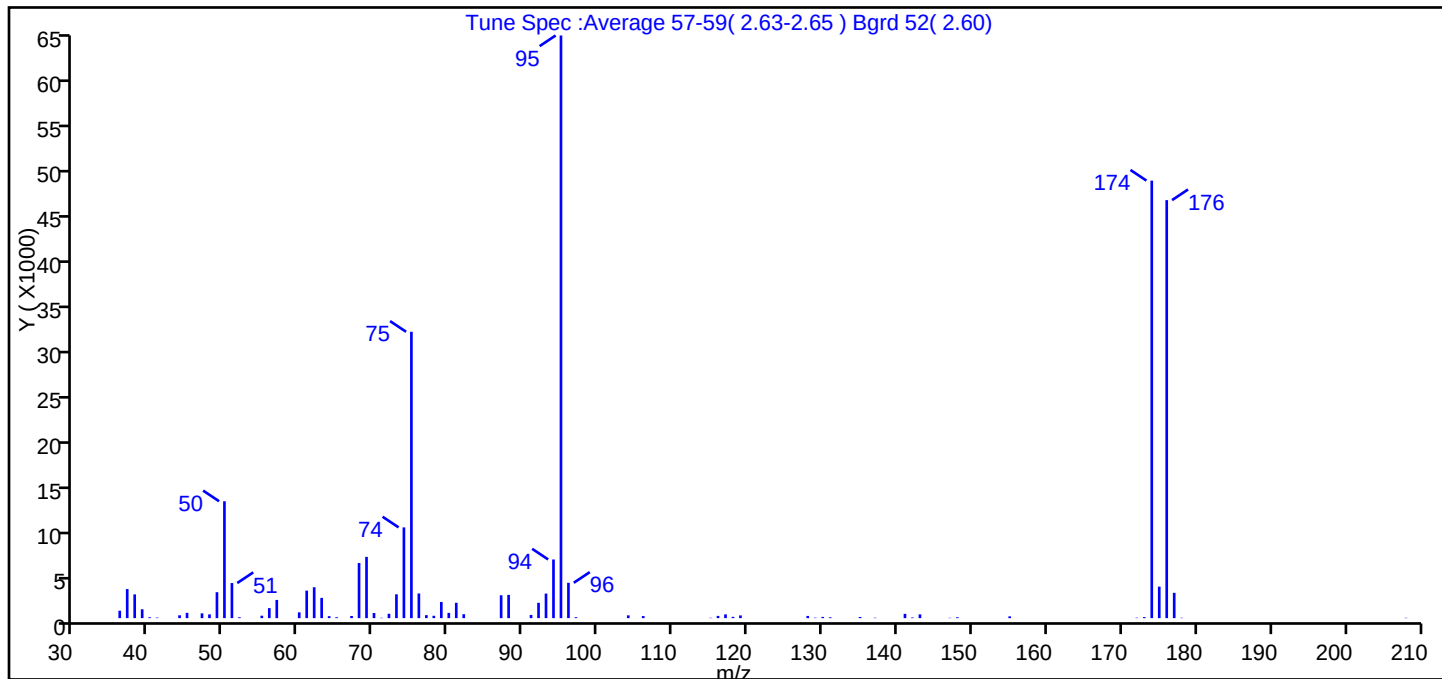
Dil. Factor: 1.0000

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Tune Method: BFB Method 8260

\$ 6 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.1
75	30 to 60% of m/z 95	49.2
96	5 to 9% of m/z 95	6.1
173	Less than 2% of m/z 174	0.2 (0.2)
174	50 to 120% of m/z 95	75.1
175	5 to 9% of m/z 174	5.4 (7.2)
176	Greater than 95% but less than 101% of m/z 174	71.7 (95.5)
177	5 to 9% of m/z 176	4.3 (6.1)

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170507-54798.b\8260SIM_4.rslt\spectra.d
 Injection Date: 07-May-2017 07:52:30
 Spectrum: Tune Spec :Average 57-59(2.63-2.65) Bgrd 52(2.60)
 Base Peak: 95.00
 Minimum % Base Peak: 0
 Number of Points: 75

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	828	62.00	3446	82.00	439	130.00	138
37.00	3244	63.00	2260	87.00	2551	131.00	92
38.00	2649	64.00	222	88.00	2592	135.00	130
39.00	990	65.00	98	91.00	357	137.00	47
40.00	96	67.00	243	92.00	1711	141.00	480
41.00	59	68.00	6145	93.00	2741	142.00	74
44.00	322	69.00	6832	94.00	6543	143.00	421
45.00	592	70.00	572	95.00	64976	147.00	38
47.00	535	71.00	39	96.00	3943	148.00	96
48.00	419	72.00	489	97.00	107	155.00	197
49.00	2894	73.00	2660	104.00	311	172.00	50
50.00	13035	74.00	10121	106.00	232	173.00	118
51.00	3914	75.00	31936	115.00	41	174.00	48792
52.00	98	76.00	2753	116.00	250	175.00	3514
55.00	273	77.00	336	117.00	420	176.00	46616
56.00	1118	78.00	265	118.00	146	177.00	2824
57.00	2031	79.00	1804	119.00	304	178.00	42
60.00	647	80.00	586	128.00	247	208.00	41
61.00	3070	81.00	1712	129.00	50		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 480-117063-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 460-434882/9
Matrix: Water Lab File ID: D36131.D
Analysis Method: 8260C SIM Date Collected: _____
Sample wt/vol: 10 (mL) Date Analyzed: 05/04/2017 09:44
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 434882 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	82		71-144
460-00-4	4-Bromofluorobenzene	93		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\D36131.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 04-May-2017 09:44:30 ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 460-0054674-009
 Operator ID: Instrument ID: CVOAMS4
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 04-May-2017 09:59:19 Calib Date: 02-May-2017 19:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: desais

Date: 04-May-2017 09:59:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	23921	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	7.048	7.049	-0.001	98	477	10.0	10.0	
* 3 Chlorobenzene-d5	82	9.274	9.274	0.000	99	6665	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.867	5.867	0.000	12	3591	0.5003	0.4082	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	96	3555	0.5002	0.4672	

Reagents:

SimissurNEW_00004

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170504-54674.b\\D36131.D

Injection Date: 04-May-2017 09:44:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: MB

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

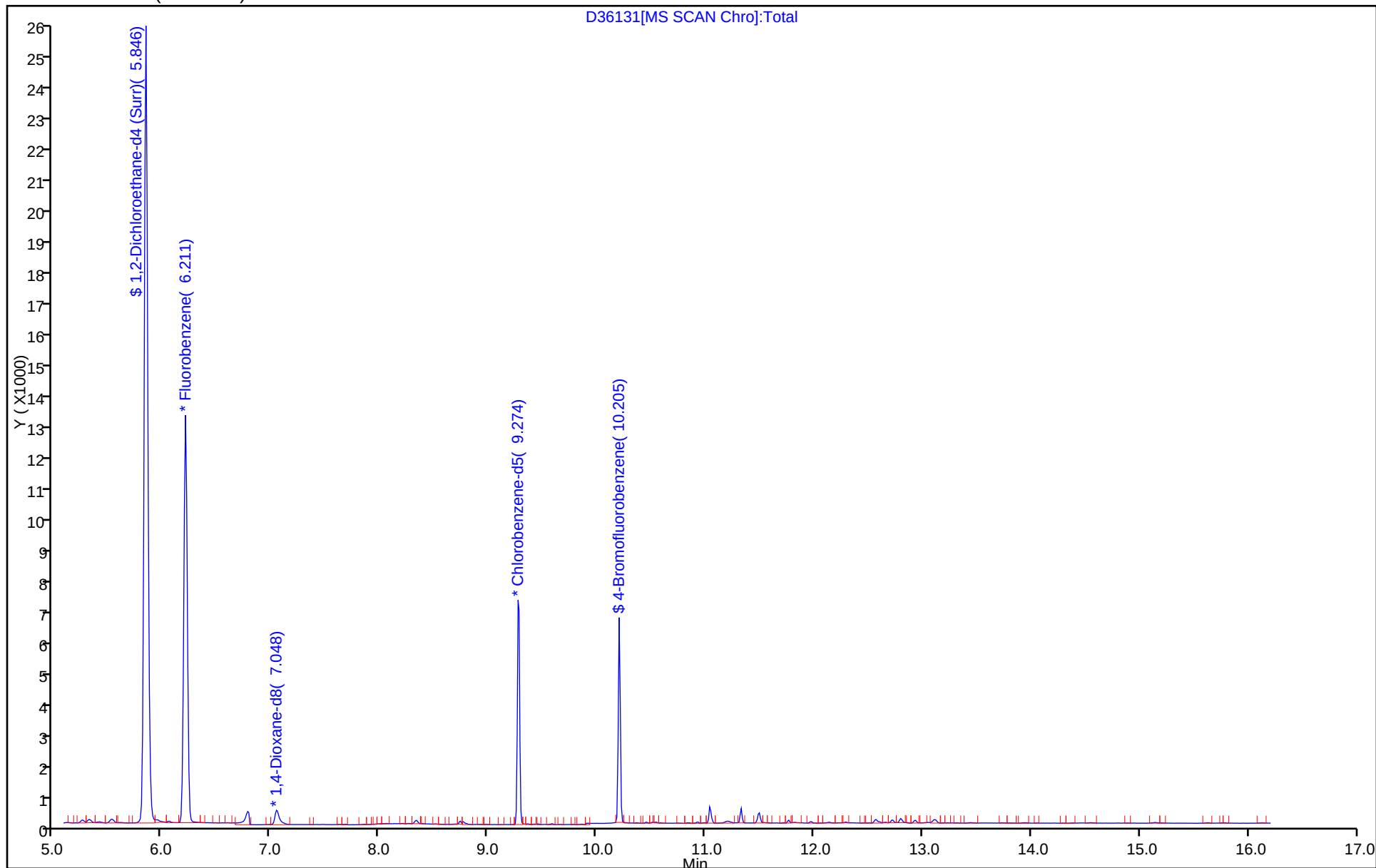
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 480-117063-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 460-435512/7
Matrix: Water Lab File ID: D36269.D
Analysis Method: 8260C SIM Date Collected: _____
Sample wt/vol: 10 (mL) Date Analyzed: 05/07/2017 10:27
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 435512 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		71-144
460-00-4	4-Bromofluorobenzene	97		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170507-54798.b\D36269.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 07-May-2017 10:27:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 460-0054798-007
 Operator ID: Instrument ID: CVOAMS4
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170507-54798.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 08-May-2017 17:19:53 Calib Date: 06-May-2017 20:43:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\D36242.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK030

First Level Reviewer: baronm

Date: 08-May-2017 17:17:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	37170	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	7.048	7.049	-0.001	100	1043	10.0	10.0	
* 3 Chlorobenzene-d5	82	9.274	9.274	0.000	99	10196	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.867	5.878	-0.011	96	6084	0.5003	0.4999	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	97	5690	0.5002	0.4843	

Reagents:

SimissurNEW_00006

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170507-54798.b\\D36269.D

Injection Date: 07-May-2017 10:27:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: MB

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

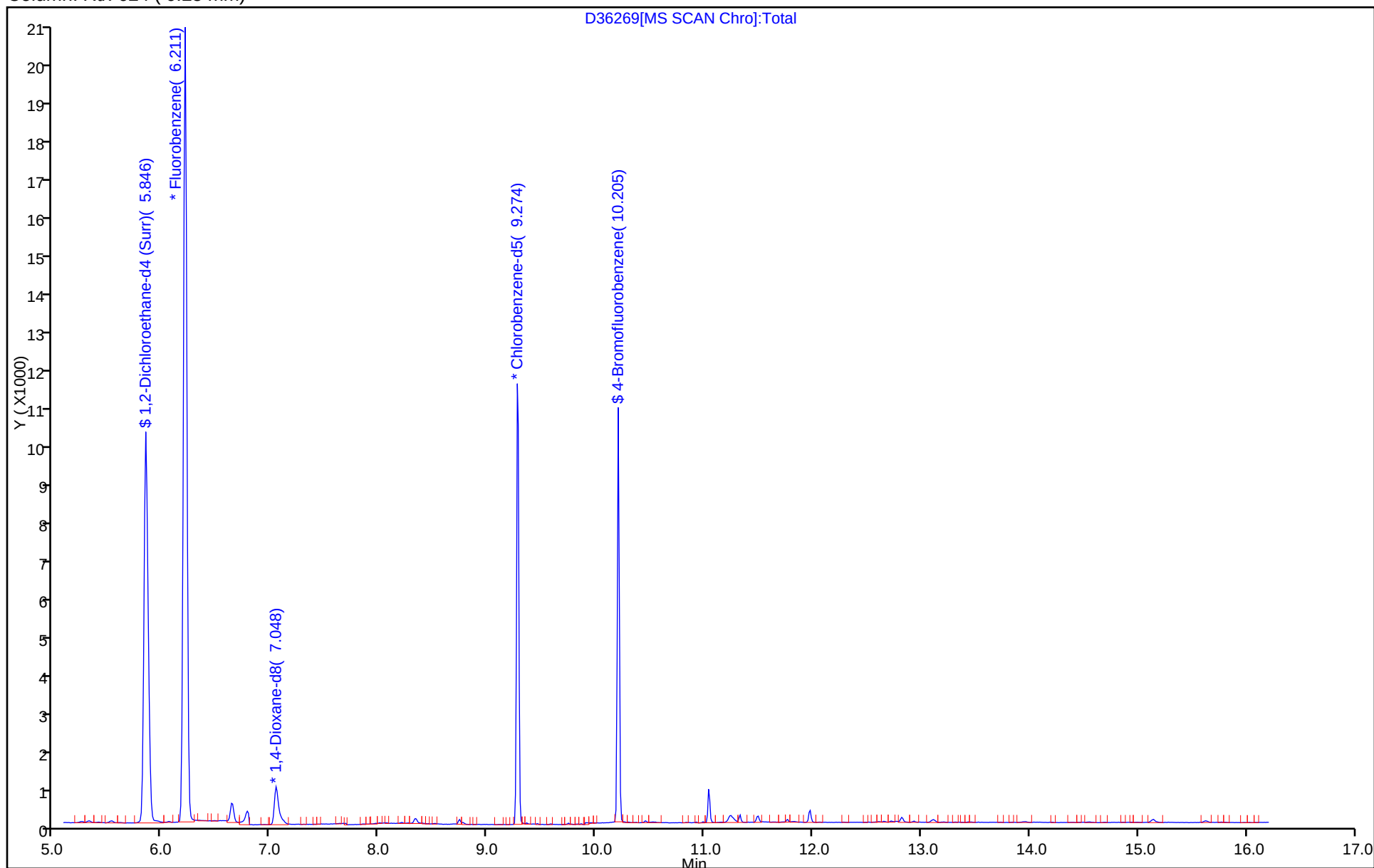
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 480-117063-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 460-434882/5
Matrix: Water Lab File ID: D36127.D
Analysis Method: 8260C SIM Date Collected: _____
Sample wt/vol: 10 (mL) Date Analyzed: 05/04/2017 08:10
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 434882 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	5.56		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	76		71-144
460-00-4	4-Bromofluorobenzene	91		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\D36127.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 04-May-2017 08:10:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 460-0054674-005
 Operator ID: Instrument ID: CVOAMS4
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 04-May-2017 09:55:12 Calib Date: 02-May-2017 19:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: desais

Date: 04-May-2017 09:17:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	23926	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	7.049	7.049	0.000	93	494	10.0	10.0	
* 3 Chlorobenzene-d5	82	9.274	9.274	0.000	99	6817	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.867	5.867	0.000	7	3334	0.5003	0.3789	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	98	3538	0.5002	0.4546	
7 1,4-Dioxane	88	7.110	7.110	0.000	98	325	5.00	5.56	
8 Ethylene Dibromide	107	8.917	8.917	0.000	96	201	0.0500	0.0420	
9 1,2,3-Trichloropropane	75	10.372	10.372	0.000	100	221	0.0500	0.0423	
10 1,2-Dibromo-3-Chloropropan	157	11.945	11.945	0.000	92	56	0.0500	0.0497	

Reagents:

VMMIX1SIM_00097	Amount Added: 1.00	Units: uL	
SIMDIOX50_00008	Amount Added: 20.00	Units: uL	
SimissurNEW_00004	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170504-54674.b\\D36127.D

Injection Date: 04-May-2017 08:10:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

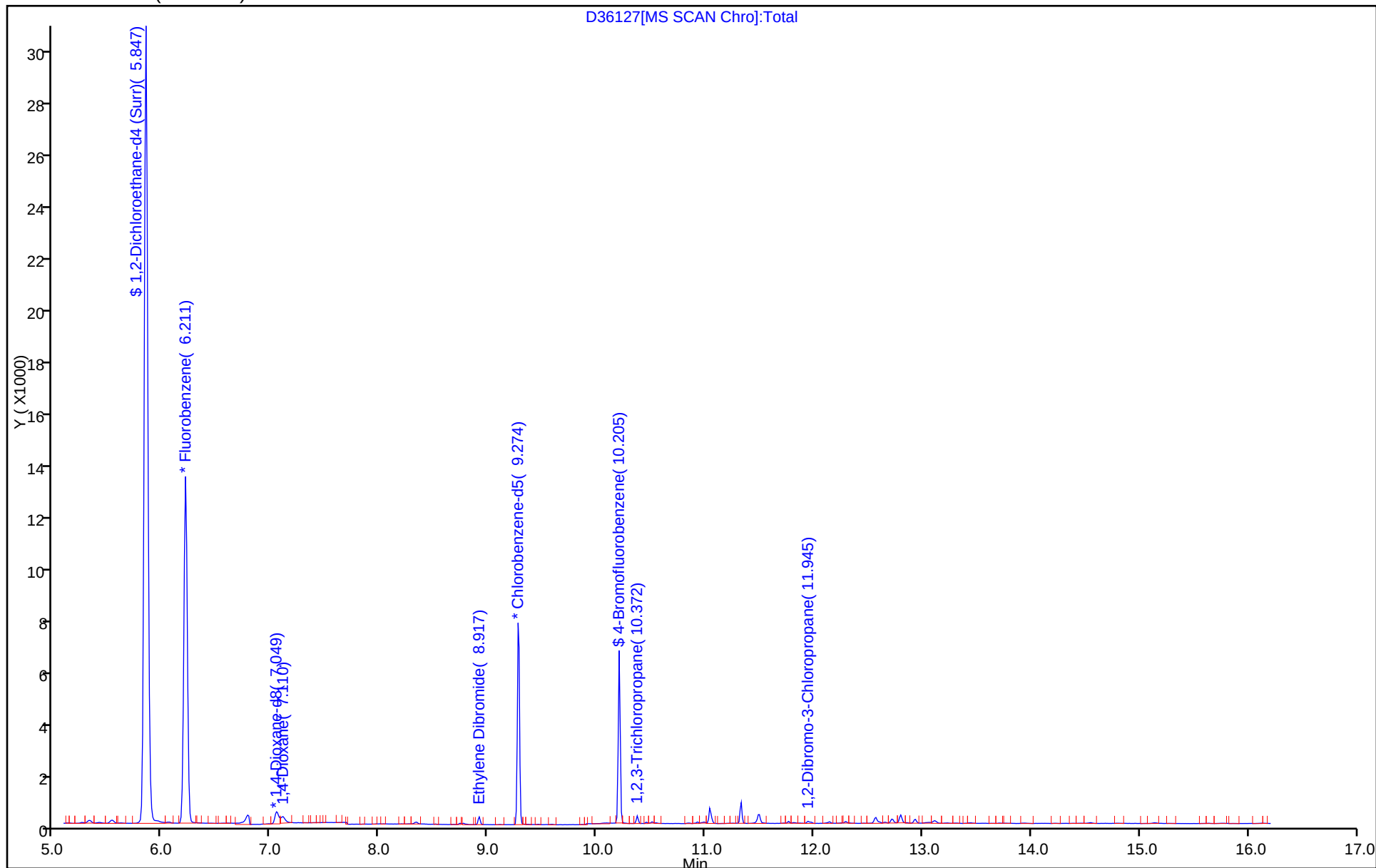
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 480-117063-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 460-435512/3
Matrix: Water Lab File ID: D36265.D
Analysis Method: 8260C SIM Date Collected: _____
Sample wt/vol: 10 (mL) Date Analyzed: 05/07/2017 08:40
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 435512 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	6.09		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		71-144
460-00-4	4-Bromofluorobenzene	104		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170507-54798.b\D36265.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 07-May-2017 08:40:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 460-0054798-003
 Operator ID: Instrument ID: CVOAMS4
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170507-54798.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 08-May-2017 17:19:50 Calib Date: 06-May-2017 20:43:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\D36242.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK030

First Level Reviewer: baronm

Date: 08-May-2017 17:16:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	39377	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	7.048	7.049	-0.001	99	711	10.0	10.0	
* 3 Chlorobenzene-d5	82	9.274	9.275	-0.001	99	11071	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.867	5.868	-0.001	99	6634	0.5003	0.5146	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	97	6639	0.5002	0.5204	
7 1,4-Dioxane	88	7.110	7.110	0.000	97	488	5.00	6.09	
8 Ethylene Dibromide	107	8.916	8.917	-0.001	95	339	0.0500	0.0525	
9 1,2,3-Trichloropropane	75	10.372	10.372	0.000	100	374	0.0500	0.0515	
10 1,2-Dibromo-3-Chloropropan	157	11.945	11.945	0.000	84	90	0.0500	0.0554	

Reagents:

VMMIX1SIM_00097	Amount Added: 1.00	Units: uL	
SIMDIOX50_00008	Amount Added: 20.00	Units: uL	
SimissurNEW_00006	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170507-54798.b\\D36265.D

Injection Date: 07-May-2017 08:40:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: LCS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

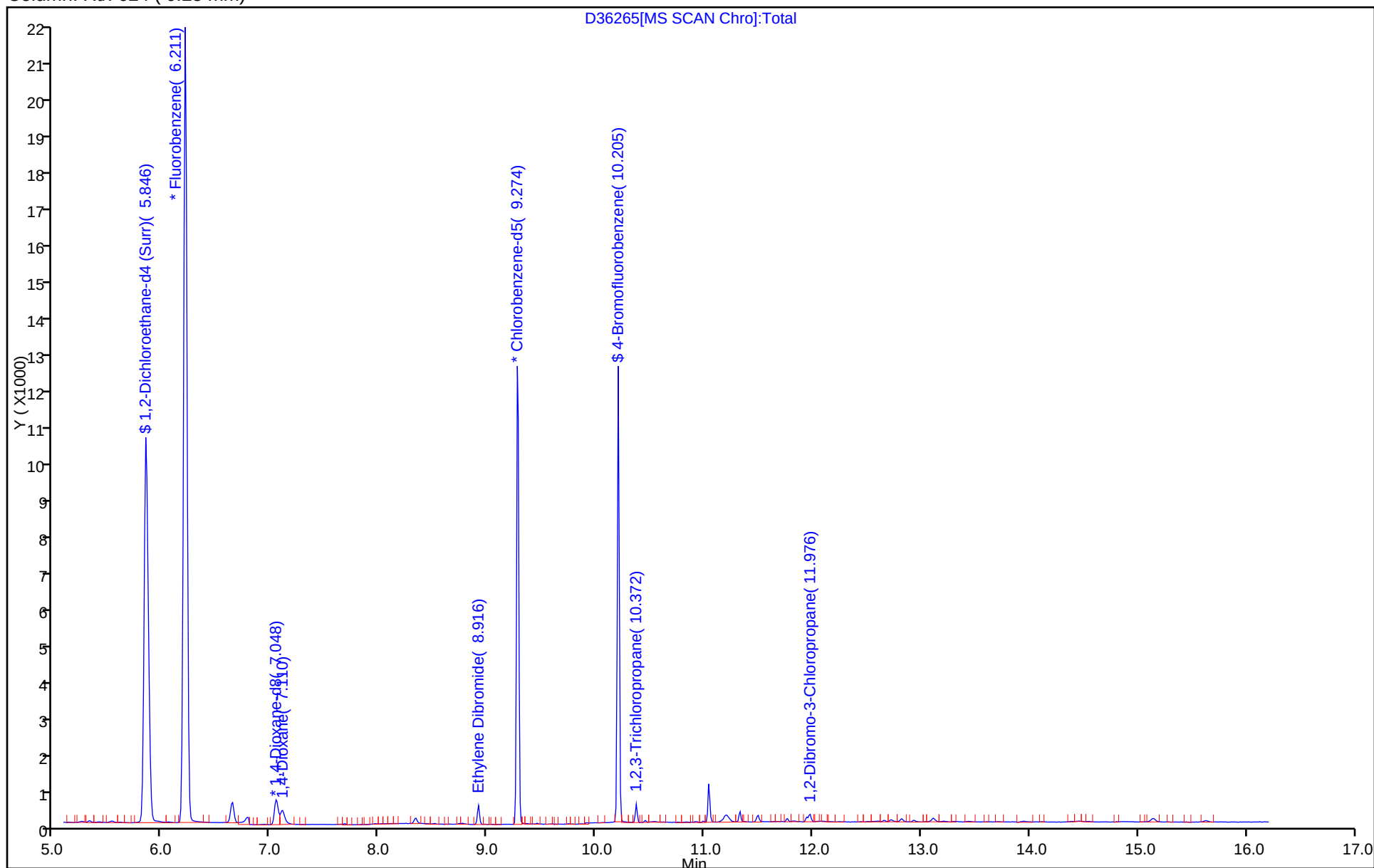
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 480-117063-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCSD 460-434882/6
Matrix: Water Lab File ID: D36128.D
Analysis Method: 8260C SIM Date Collected: _____
Sample wt/vol: 10 (mL) Date Analyzed: 05/04/2017 08:34
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 434882 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	5.57		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	76		71-144
460-00-4	4-Bromofluorobenzene	93		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\D36128.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 04-May-2017 08:34:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCSD
 Misc. Info.: 460-0054674-006
 Operator ID: Instrument ID: CVOAMS4
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170504-54674.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 04-May-2017 09:55:12 Calib Date: 02-May-2017 19:16:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170502-54581.b\D36035.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: desais

Date: 04-May-2017 09:17:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	99	23305	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	7.049	7.049	0.000	98	458	10.0	10.0	
* 3 Chlorobenzene-d5	82	9.275	9.274	0.001	99	6508	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.868	5.867	0.001	18	3273	0.5003	0.3819	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	99	3446	0.5002	0.4638	
7 1,4-Dioxane	88	7.110	7.110	0.000	97	302	5.00	5.57	
8 Ethylene Dibromide	107	8.917	8.917	0.000	93	185	0.0500	0.0405	
9 1,2,3-Trichloropropane	75	10.372	10.372	0.000	99	216	0.0500	0.0433	
10 1,2-Dibromo-3-Chloropropan	157	11.945	11.945	0.000	90	49	0.0500	0.0456	

Reagents:

VMMIX1SIM_00097	Amount Added: 1.00	Units: uL	
SIMDIOX50_00008	Amount Added: 20.00	Units: uL	
SimissurNEW_00004	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170504-54674.b\\D36128.D

Injection Date: 04-May-2017 08:34:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: LCSD

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

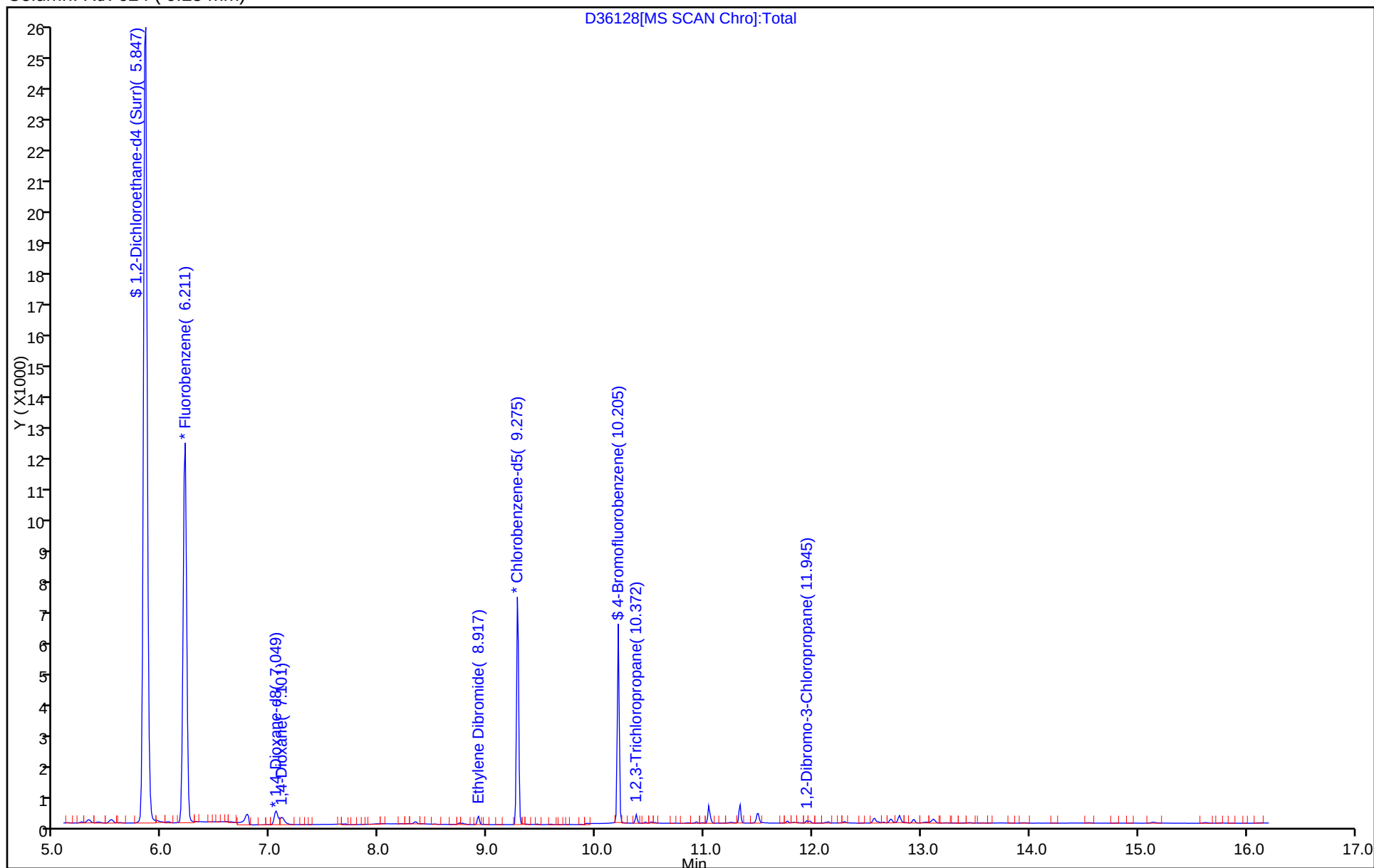
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 480-117063-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCSD 460-435512/4
Matrix: Water Lab File ID: D36266.D
Analysis Method: 8260C SIM Date Collected: _____
Sample wt/vol: 10 (mL) Date Analyzed: 05/07/2017 09:03
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 435512 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	5.99		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		71-144
460-00-4	4-Bromofluorobenzene	103		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170507-54798.b\D36266.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 07-May-2017 09:03:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCSD
 Misc. Info.: 460-0054798-004
 Operator ID: Instrument ID: CVOAMS4
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170507-54798.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 08-May-2017 17:19:53 Calib Date: 06-May-2017 20:43:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\D36242.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK030

First Level Reviewer: baronm

Date: 08-May-2017 17:17:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	38296	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	7.049	7.049	0.000	99	697	10.0	10.0	
* 3 Chlorobenzene-d5	82	9.274	9.274	0.000	99	10654	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.878	5.878	0.000	65	6152	0.5003	0.4907	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	96	6313	0.5002	0.5142	
7 1,4-Dioxane	88	7.110	7.110	0.000	96	471	5.00	5.99	
8 Ethylene Dibromide	107	8.917	8.917	0.000	93	344	0.0500	0.0554	
9 1,2,3-Trichloropropane	75	10.372	10.372	0.000	99	366	0.0500	0.0524	
10 1,2-Dibromo-3-Chloropropan	157	11.945	11.945	0.000	75	82	0.0500	0.0524	

Reagents:

VMMIX1SIM_00097	Amount Added: 1.00	Units: uL	
SIMDIOX50_00008	Amount Added: 20.00	Units: uL	
SimissurNEW_00006	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170507-54798.b\\D36266.D

Injection Date: 07-May-2017 09:03:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: LCSD

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

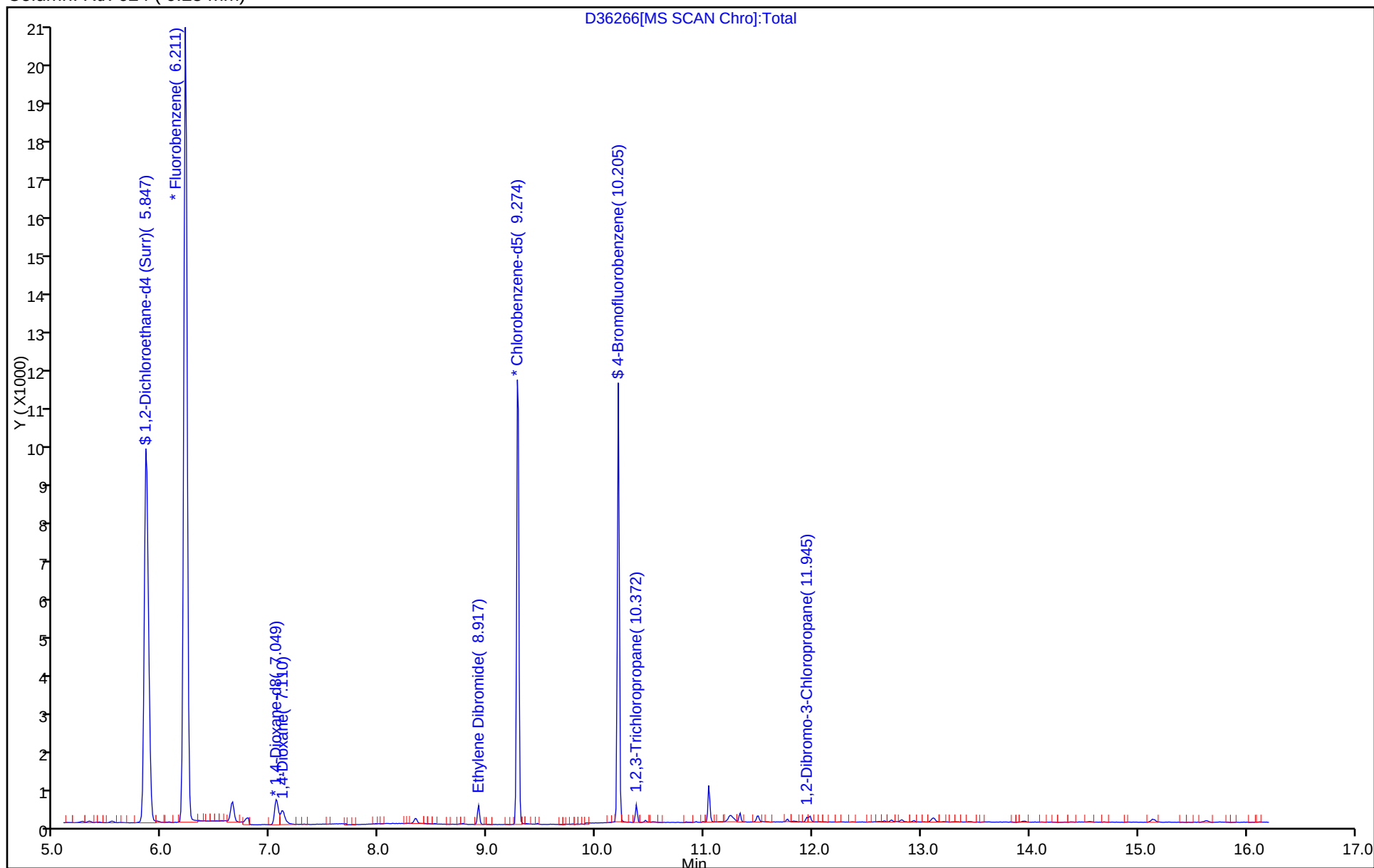
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 480-117063-1
SDG No.: _____
Client Sample ID: MW-1 MS Lab Sample ID: 480-117063-1 MS
Matrix: Water Lab File ID: D36286.D
Analysis Method: 8260C SIM Date Collected: 04/26/2017 08:45
Sample wt/vol: 10 (mL) Date Analyzed: 05/07/2017 17:09
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 435512 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	5.91		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		71-144
460-00-4	4-Bromofluorobenzene	95		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170507-54798.b\D36286.D
 Lims ID: 480-117063-C-1 MS
 Client ID: MW-1
 Sample Type: MS
 Inject. Date: 07-May-2017 17:09:30 ALS Bottle#: 23 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-117063-C-1 MS
 Misc. Info.: 460-0054798-024
 Operator ID: Instrument ID: CVOAMS4
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170507-54798.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 09-May-2017 18:01:01 Calib Date: 06-May-2017 20:43:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\D36242.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: boykink

Date: 08-May-2017 03:53:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	42387	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	7.049	7.048	0.001	100	746	10.0	10.0	
* 3 Chlorobenzene-d5	82	9.275	9.274	0.001	98	11199	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.868	5.878	-0.010	93	6919	0.5003	0.4986	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	94	6115	0.5002	0.4739	
7 1,4-Dioxane	88	7.119	7.110	0.009	96	497	5.00	5.91	
8 Ethylene Dibromide	107	8.917	8.917	0.000	97	691	0.0500	0.1058	
9 1,2,3-Trichloropropane	75	10.205	10.205	0.000	53	3410	0.0500	0.4644	
10 1,2-Dibromo-3-Chloropropan	157	11.945	11.945	0.000	68	176	0.0500	0.1071	

Reagents:

VMMIX1SIM_00097	Amount Added: 0.50	Units: uL	
SIMDIOX50_00008	Amount Added: 10.00	Units: uL	
SimissurNEW_00006	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170507-54798.b\\D36286.D

Injection Date: 07-May-2017 17:09:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: 480-117063-C-1 MS

Worklist Smp#: 24

Client ID: MW-1

Purge Vol: 5.000 mL

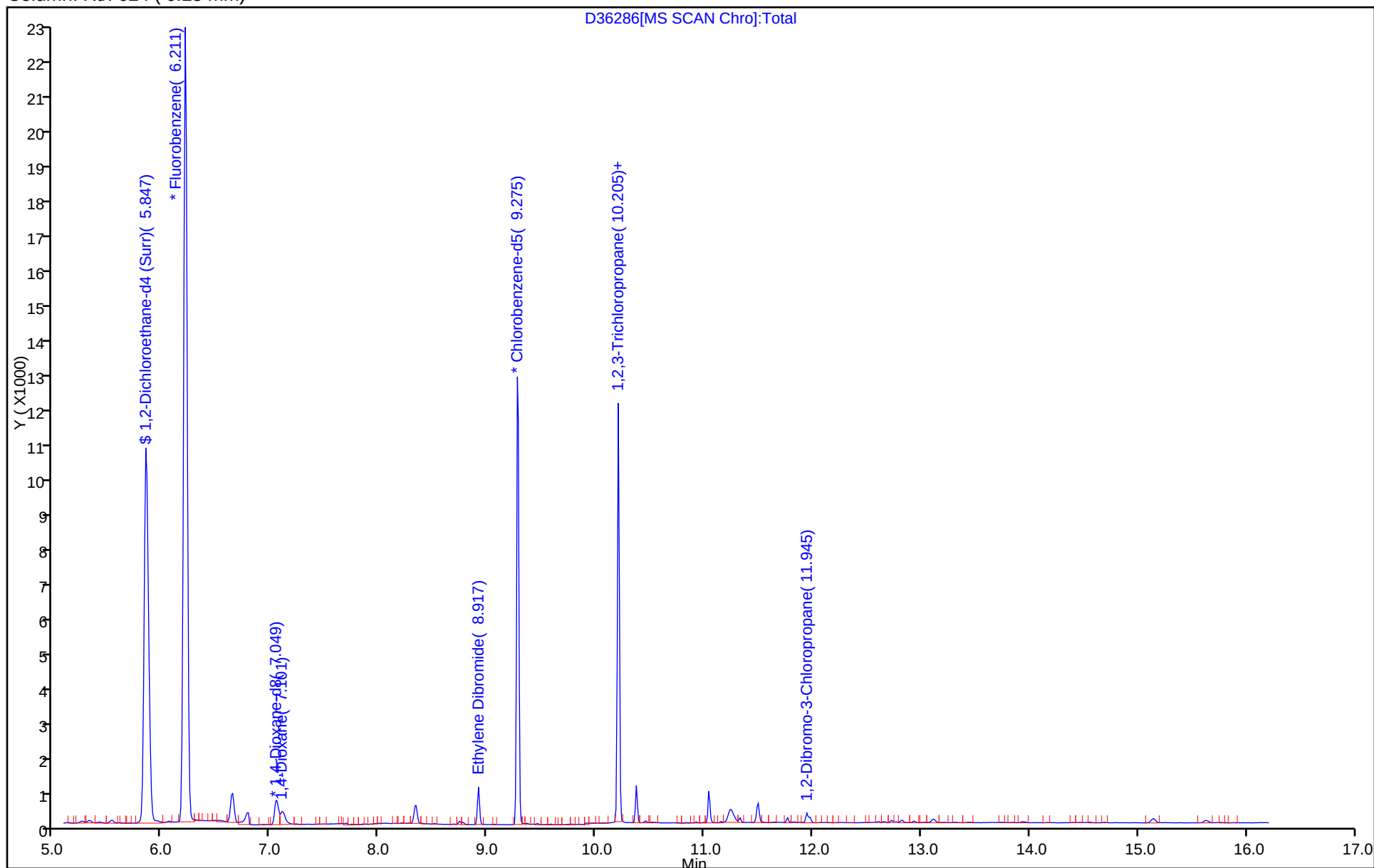
Dil. Factor: 1.0000

ALS Bottle#: 23

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 480-117063-1
SDG No.: _____
Client Sample ID: MW-1 MSD Lab Sample ID: 480-117063-1 MSD
Matrix: Water Lab File ID: D36287.D
Analysis Method: 8260C SIM Date Collected: 04/26/2017 08:45
Sample wt/vol: 10 (mL) Date Analyzed: 05/07/2017 17:33
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 435512 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	5.45		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		71-144
460-00-4	4-Bromofluorobenzene	89		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20170507-54798.b\D36287.D
 Lims ID: 480-117063-C-1 MSD
 Client ID: MW-1
 Sample Type: MSD
 Inject. Date: 07-May-2017 17:33:30 ALS Bottle#: 24 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-117063-C-1 MSD
 Misc. Info.: 460-0054798-025
 Operator ID: Instrument ID: CVOAMS4
 Method: \\ChromNA\Edison\ChromData\CVOAMS4\20170507-54798.b\8260SIM_4.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 09-May-2017 18:01:01 Calib Date: 06-May-2017 20:43:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20170506-54786.b\D36242.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: boykink

Date: 08-May-2017 03:54:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.211	6.211	0.000	100	40252	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	7.048	7.048	0.000	98	775	10.0	10.0	
* 3 Chlorobenzene-d5	82	9.274	9.274	0.000	97	10660	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	5.867	5.878	-0.011	90	6321	0.5003	0.4796	
\$ 5 4-Bromofluorobenzene	95	10.205	10.205	0.000	92	5456	0.5002	0.4442	
7 1,4-Dioxane	88	7.110	7.110	0.000	95	476	5.00	5.45	
8 Ethylene Dibromide	107	8.916	8.917	-0.001	95	660	0.0500	0.1062	
9 1,2,3-Trichloropropane	75	10.205	10.205	0.000	56	3214	0.0500	0.4598	
10 1,2-Dibromo-3-Chloropropan	157	11.945	11.945	0.000	68	178	0.0500	0.1137	

Reagents:

VMMIX1SIM_00097	Amount Added: 0.50	Units: uL	
SIMDIOX50_00008	Amount Added: 10.00	Units: uL	
SimissurNEW_00006	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS4\\20170507-54798.b\\D36287.D

Injection Date: 07-May-2017 17:33:30

Instrument ID: CVOAMS4

Operator ID:

Lims ID: 480-117063-C-1 MSD

Worklist Smp#: 25

Client ID: MW-1

Purge Vol: 5.000 mL

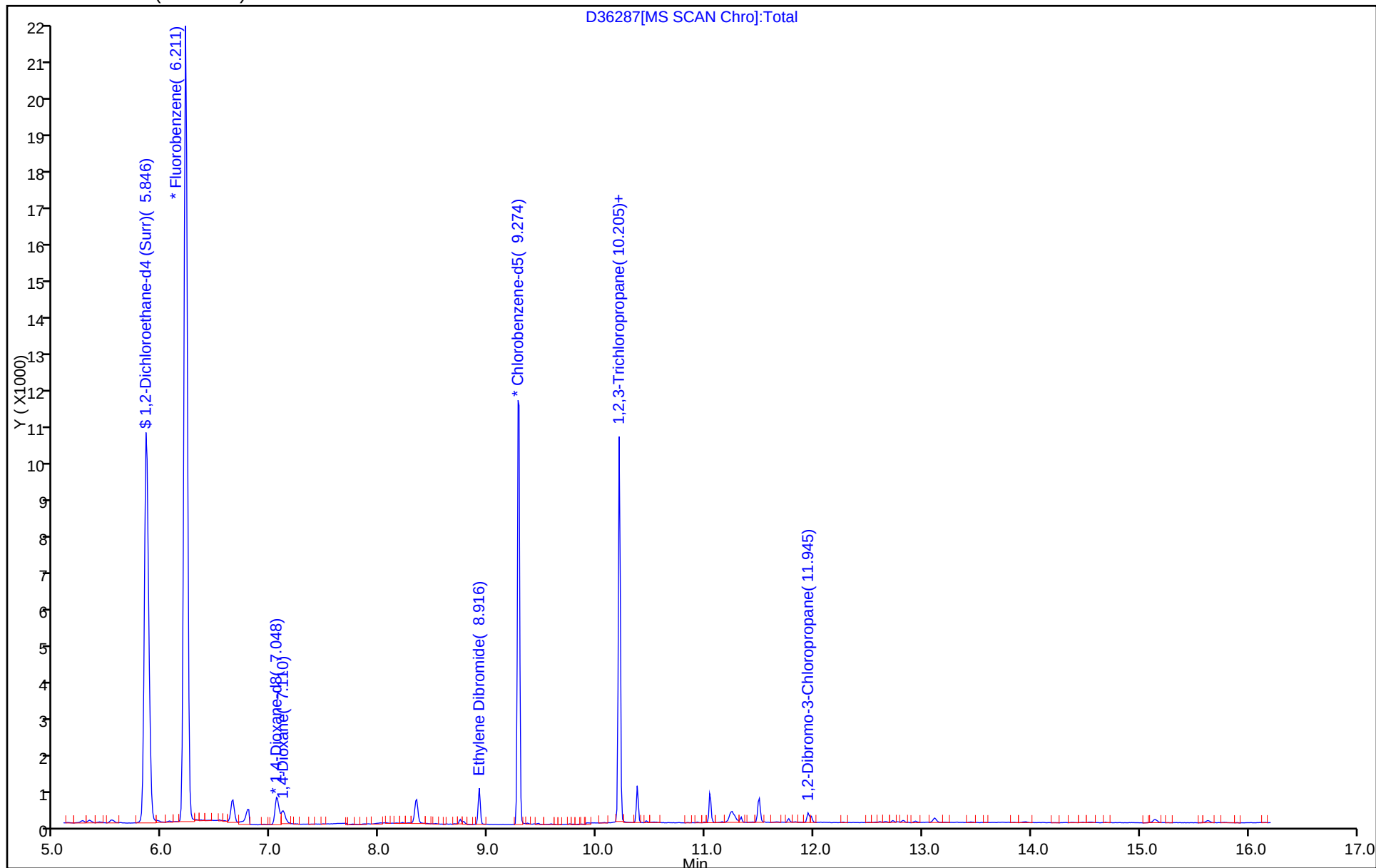
Dil. Factor: 1.0000

ALS Bottle#: 24

Method: 8260SIM_4

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 480-117063-1

SDG No.: _____

Instrument ID: CVOAMS4 Start Date: 05/02/2017 12:58Analysis Batch Number: 434447 End Date: 05/02/2017 19:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-434447/1		05/02/2017 12:58	1	D36022.D	Rtx-624 0.25 (mm)
STD04 460-434447/2 IC		05/02/2017 13:31	1	D36023.D	Rtx-624 0.25 (mm)
STD5 460-434447/5 ICIS		05/02/2017 14:41	1	D36026.D	Rtx-624 0.25 (mm)
STD20 460-434447/6 IC		05/02/2017 15:32	1	D36027.D	Rtx-624 0.25 (mm)
STD30 460-434447/7 IC		05/02/2017 15:56	1	D36028.D	Rtx-624 0.25 (mm)
STD40 460-434447/8 IC		05/02/2017 16:20	1	D36029.D	Rtx-624 0.25 (mm)
STD50 460-434447/9 IC		05/02/2017 16:43	1	D36030.D	Rtx-624 0.25 (mm)
STD10 460-434447/12 IC		05/02/2017 17:54	1	D36033.D	Rtx-624 0.25 (mm)
STD1 460-434447/14 IC		05/02/2017 19:16	1	D36035.D	Rtx-624 0.25 (mm)
ICV 460-434447/15		05/02/2017 19:48	1		Rtx-624 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica EdisonJob No.: 480-117063-1

SDG No.: _____

Instrument ID: CVOAMS4Start Date: 05/04/2017 06:26Analysis Batch Number: 434882End Date: 05/04/2017 16:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-434882/1		05/04/2017 06:26	1	D36123.D	Rtx-624 0.25 (mm)
CCVIS 460-434882/4		05/04/2017 07:32	1	D36126.D	Rtx-624 0.25 (mm)
LCS 460-434882/5		05/04/2017 08:10	1	D36127.D	Rtx-624 0.25 (mm)
LCSD 460-434882/6		05/04/2017 08:34	1	D36128.D	Rtx-624 0.25 (mm)
MB 460-434882/9		05/04/2017 09:44	1	D36131.D	Rtx-624 0.25 (mm)
480-117063-1		05/04/2017 10:07	1	D36132.D	Rtx-624 0.25 (mm)
480-117063-2		05/04/2017 10:31	1	D36133.D	Rtx-624 0.25 (mm)
480-117063-3		05/04/2017 10:54	1	D36134.D	Rtx-624 0.25 (mm)
480-117063-4		05/04/2017 11:18	1	D36135.D	Rtx-624 0.25 (mm)
480-117063-5		05/04/2017 11:42	1	D36136.D	Rtx-624 0.25 (mm)
480-117063-6		05/04/2017 12:05	1	D36137.D	Rtx-624 0.25 (mm)
480-117063-7		05/04/2017 12:29	1	D36138.D	Rtx-624 0.25 (mm)
480-117063-8		05/04/2017 12:52	1	D36139.D	Rtx-624 0.25 (mm)
480-117063-9		05/04/2017 13:15	1	D36140.D	Rtx-624 0.25 (mm)
480-117063-10		05/04/2017 13:39	1	D36141.D	Rtx-624 0.25 (mm)
480-117063-11		05/04/2017 14:02	1	D36142.D	Rtx-624 0.25 (mm)
480-117063-12		05/04/2017 14:26	1	D36143.D	Rtx-624 0.25 (mm)
480-117063-13		05/04/2017 14:49	1	D36144.D	Rtx-624 0.25 (mm)
480-117063-14		05/04/2017 15:12	1	D36145.D	Rtx-624 0.25 (mm)
480-117063-15		05/04/2017 15:36	1	D36146.D	Rtx-624 0.25 (mm)
480-117063-16		05/04/2017 15:59	1	D36147.D	Rtx-624 0.25 (mm)
480-117063-17		05/04/2017 16:22	1	D36148.D	Rtx-624 0.25 (mm)
ZZZZZ		05/04/2017 16:46	1		Rtx-624 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica EdisonJob No.: 480-117063-1

SDG No.: _____

Instrument ID: CVOAMS4Start Date: 05/06/2017 17:29Analysis Batch Number: 435468End Date: 05/07/2017 03:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-435468/1		05/06/2017 17:29	1	D36234.D	Rtx-624 0.25 (mm)
STD04 460-435468/2 IC		05/06/2017 17:58	1	D36235.D	Rtx-624 0.25 (mm)
STD1 460-435468/3 IC		05/06/2017 18:21	1	D36236.D	Rtx-624 0.25 (mm)
STD5 460-435468/4 ICIS		05/06/2017 18:45	1	D36237.D	Rtx-624 0.25 (mm)
STD10 460-435468/5 IC		05/06/2017 19:08	1	D36238.D	Rtx-624 0.25 (mm)
STD20 460-435468/6 IC		05/06/2017 19:32	1	D36239.D	Rtx-624 0.25 (mm)
STD30 460-435468/7 IC		05/06/2017 19:56	1	D36240.D	Rtx-624 0.25 (mm)
STD40 460-435468/8 IC		05/06/2017 20:20	1	D36241.D	Rtx-624 0.25 (mm)
STD50 460-435468/9 IC		05/06/2017 20:43	1	D36242.D	Rtx-624 0.25 (mm)
ICV 460-435468/12		05/06/2017 21:54	1		Rtx-624 0.25 (mm)
ZZZZZ		05/06/2017 22:18	1		Rtx-624 0.25 (mm)
ZZZZZ		05/06/2017 22:41	1		Rtx-624 0.25 (mm)
ZZZZZ		05/06/2017 23:52	1		Rtx-624 0.25 (mm)
ZZZZZ		05/07/2017 00:15	1		Rtx-624 0.25 (mm)
ZZZZZ		05/07/2017 01:03	1		Rtx-624 0.25 (mm)
ZZZZZ		05/07/2017 01:26	1		Rtx-624 0.25 (mm)
ZZZZZ		05/07/2017 01:50	1		Rtx-624 0.25 (mm)
ZZZZZ		05/07/2017 02:13	1		Rtx-624 0.25 (mm)
ZZZZZ		05/07/2017 02:37	1		Rtx-624 0.25 (mm)
ZZZZZ		05/07/2017 03:00	1		Rtx-624 0.25 (mm)
ZZZZZ		05/07/2017 03:24	1		Rtx-624 0.25 (mm)
ZZZZZ		05/07/2017 03:48	1		Rtx-624 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 480-117063-1

SDG No.: _____

Instrument ID: CVOAMS4 Start Date: 05/07/2017 07:52

Analysis Batch Number: 435512 End Date: 05/07/2017 17:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-435512/1		05/07/2017 07:52	1	D36263.D	Rtx-624 0.25 (mm)
CCVIS 460-435512/2		05/07/2017 08:16	1	D36264.D	Rtx-624 0.25 (mm)
LCS 460-435512/3		05/07/2017 08:40	1	D36265.D	Rtx-624 0.25 (mm)
LCSD 460-435512/4		05/07/2017 09:03	1	D36266.D	Rtx-624 0.25 (mm)
MB 460-435512/7		05/07/2017 10:27	1	D36269.D	Rtx-624 0.25 (mm)
ZZZZZ		05/07/2017 10:51	1		Rtx-624 0.25 (mm)
ZZZZZ		05/07/2017 11:14	1		Rtx-624 0.25 (mm)
ZZZZZ		05/07/2017 11:38	1		Rtx-624 0.25 (mm)
ZZZZZ		05/07/2017 12:02	1		Rtx-624 0.25 (mm)
ZZZZZ		05/07/2017 12:26	1		Rtx-624 0.25 (mm)
ZZZZZ		05/07/2017 12:49	1		Rtx-624 0.25 (mm)
ZZZZZ		05/07/2017 13:13	1		Rtx-624 0.25 (mm)
ZZZZZ		05/07/2017 13:37	1		Rtx-624 0.25 (mm)
ZZZZZ		05/07/2017 14:00	1		Rtx-624 0.25 (mm)
ZZZZZ		05/07/2017 14:24	1		Rtx-624 0.25 (mm)
ZZZZZ		05/07/2017 15:12	1		Rtx-624 0.25 (mm)
ZZZZZ		05/07/2017 15:36	1		Rtx-624 0.25 (mm)
ZZZZZ		05/07/2017 15:59	1		Rtx-624 0.25 (mm)
ZZZZZ		05/07/2017 16:23	1		Rtx-624 0.25 (mm)
ZZZZZ		05/07/2017 16:46	1		Rtx-624 0.25 (mm)
480-117063-1 MS		05/07/2017 17:09	1	D36286.D	Rtx-624 0.25 (mm)
480-117063-1 MSD		05/07/2017 17:33	1	D36287.D	Rtx-624 0.25 (mm)

Subcontract Data

Shipping and Receiving Documents

TestAmerica Buffalo

10 Hazelwood Drive
Amherst, NY 14228-2223
phone 716.691.2600 fax 716.691.7991

Chain of Custody Record

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact		Regulatory Program:		Site Contact: Eric Popken (GES)		Date: 4-27-17		COC No: 1 of 2 COCs	
NYSDEC-Region 9		Maurice Moore		Lab Contact: Oriette Johnson		Carrier:		Sampler:	
270 Michigan Avenue		Tel/Fax: (716) 851-7220		Analysis Turnaround Time		For Lab Use Only:		Walk-in	
Buffalo, NY 14203		Phone		CALENDAR DAYS		Lab San		Job / SD	
716-851-7220		FAX		Custom TAT: 10 days		8260C - TCL list OLM04.2		480-117063 COC	
Project Name: DEC Frewsburg, 300 Falconer Street		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		Matrix	
Site No.: 907016		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		Matrix	
Contract #:		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		Matrix	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sample Specific Notes:
MW-1	4-26-17	8:45	G	W	9	N	Y	X
MW-2	4-24-17	17:10	G	W	3	N	X	X
MW-3	4-26-17	13:20	G	W	3	N	X	X
MW-4	4-25-17	13:05	G	W	3	N	X	X
MW-4D	4-25-17	14:15	G	W	3	N	X	X
MW-5	4-25-17	11:05	G	W	3	N	X	X
MW-5D	4-25-17	10:00	G	W	3	N	X	X
MW-6	4-24-17	12:05	G	W	3	N	X	X
MW-7	4-25-17	17:25	G	W	3	N	X	X
MW-8	4-26-17	16:05	G	W	3	N	X	X
MW-9R	4-27-17	9:45	G	W	3	N	X	X
MW-10	4-24-17	15:50	G	W	3	N	X	X
MW-11R	4-24-17	13:55	G	W	3	N	X	X

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Special Instructions/QC Requirements & Comments:

Email report to epopken@gesonline.com, tpalmer@gesonline.com, buffalolabs@gesonline.com

Category B Deliverable

Custody Seals Intact:		Custody Seal No.:		Therm ID No.:	
Relinquished by: <i>Epokken</i>	Company: GES	Received by: <i>W. Johnson</i>	Company: <i>TestAmerica</i>	Date/Time: 4/27/17 15:25	Date/Time: 4/27/17 15:25
Relinquished by:	Company:	Received by:	Company:	Date/Time:	Date/Time:
Relinquished by:	Company:	Received in Laboratory by:	Company:	Date/Time:	Date/Time:

Chain of Custody Record

TestAmerica
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Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

NYSDEC-Region 9	Client Contact	Maurice Moore	Site Contact: Eric Popken (GES)	Date: 4-27-17	COC No:
			Lab Contact: Orlette Johnson	Carrier:	2 of 2 COCs

[illegible]

716-851-7220	Phone	Custom TAT: _____ 10 days _____ ☐ 2 weeks	Walk-in Client: _____
FAX			Lab Sampling: _____

Project Name: DEC Frewsburg, 300 Falconer Street	☐	1 week	MSD () (le (Y / I st O L M M C O X E T	Job / SDG No.: : :
Site No.: 907016	☐	2 days		

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

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Preservation Used: 1= Ice, 2= HCl; 3= H₂SO₄; 4= HNO₃; 5= NaOH; 6= Other

POSSIBLE HAZARD IDENTIFICATION:
Are any samples from a listed EPA Hazardous Waste?
Please list any EPA Waste Codes for the sample in the
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard	☐ Flammable	☐ Skin Irritant	☐ Poison B	☒ Unknown	☐ Return to Client	☐ Disposal by Lab	☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Email report to epopken@gesonline.com, tpalmer@gesonline.com, buffalolabs@gesonline.com

Category B Deliverable

Custody Seal No.:	
Cooler Temp. (°C): Obs'd: _____	Therm ID No.: _____
Corr'd: _____	
Custody Seal Intact:	

Relinquished by:  Date/Time: 11/22/12
Company: GFS
Received by:  Date/Time: 11/22/12
Company: GFS

Disquisitioned by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
<i>[Signature]</i>	<i>[Signature]</i>	7/20/14	7/20/14	<i>[Signature]</i>	7/20/14
Requisitioned by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
<i>[Signature]</i>	<i>[Signature]</i>	7/20/14	7/20/14	<i>[Signature]</i>	7/20/14

[illegible]

Requisitioned by:	Company:	Date/Time:
Received in Laboratory by:	Company:	Date/Time:

Form No. CA-CWI-002 Rev. 4.3 dated 12/05/2012				

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:					
Client Contact:		Phone:	Johnson, Oriette S		480-34665.1					
Shipping/Receiving:			E-Mail:	State of Origin:	Page:					
Company:			oriette.johnson@testamericainc.com	New York	Page 1 of 3					
Address:		Due Date Requested:	Accreditations Required (see note):		Job #:					
777 New Durham Road.		5/9/2017	NELAP - New York		480-117063-1					
City:		TAT Requested (days):	Analysis Requested							
Edison										
State Zip:										
NJ, 08817										
Phone:		PO #:								
732-549-3900(Te) 732-549-3679(Fax)										
Email:		WO #:								
Project Name:		Project #:								
Frewsburg Site #907016		48013647								
Site:		SSON#:								
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	MATRIX (W=Water, S=solid, O=soil, BT=biological, A=Air)	Field Filtered Sample (Yes or No)	Total Number of containers			Special Instructions/Note:
MMW-1 (480-117063-1)		4/26/17	08:45		Water		X			
MMW-1 (480-117063-1MS)		4/26/17	08:45	MS	Water		X			
MMW-1 (480-117063-1MSD)		4/26/17	08:45	MSD	Water		X			
MMW-2 (480-117063-2)		4/24/17	17:10		Water		X			
MMW-3 (480-117063-3)		4/26/17	13:20		Water		X			
MMW-4 (480-117063-4)		4/25/17	13:05		Water		X			
MMW-4D (480-117063-5)		4/25/17	14:15		Water		X			
MMW-5 (480-117063-6)		4/25/17	11:05		Water		X			
MMW-5D (480-117063-7)		4/25/17	10:00		Water		X			

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Unconfirmed		☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2	
Empty Kit Relinquished by:		Date:	
Relinquished by:		Date/Time:	Received by:
Relinquished by:		Date/Time:	Received by:
Relinquished by:		Date/Time:	Received by:

CS # 859062

5.1°C 208

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:				
Client Contact:	Phone:	Johnson, Oriette S			480-34665.2				
Shipping/Receiving	E-Mail:	Oriette.johnson@testamericainc.com	State of Origin:		Page 2 of 3				
Company:	TestAmerica Laboratories, Inc.		Accreditations Required (See note):	Job #:	480-117063-1				
Address:	Due Date Requested:	5/9/2017	Analysis Requested						
City:	TAT Requested (days):								
Edison									
State Zip:									
NJ, 08817									
Phone:	PO #:								
732-549-3900(Tel) 732-549-3679(Fax)									
Email:	WO #:								
Project Name:	Project #:	48013647							
Frewsburg Site #907016	SSOW#:								
Site:									
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Soil, etc.)	Field Filtered Sample (Yes or No)	Field Filtered Sample (MOD) Volatile SIM	Total Number of containers	Special Instructions/Note:
MMW-6 (480-117063-8)	4/24/17	12:05	Eastern	Water	X				
MMW-7 (480-117063-9)	4/25/17	17:25	Eastern	Water	X				
MMW-8 (480-117063-10)	4/26/17	10:05	Eastern	Water	X				
MMW-9R (480-117063-11)	4/27/17	09:45	Eastern	Water	X				
MMW-10 (480-117063-12)	4/24/17	15:50	Eastern	Water	X				
MMW-11R (480-117063-13)	4/24/17	13:55	Eastern	Water	X				
MMW-12 (480-117063-14)	4/25/17	15:55	Eastern	Water	X				
MMW-13 (480-117063-15)	4/26/17	14:45	Eastern	Water	X				
MMW-14 (480-117063-16)	4/26/17	16:30	Eastern	Water	X				
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. 1									
Possible Hazard Identification									
Unconfirmed									
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2									
Empty Kit Relinquished by: Date: Time: Method of Shipment:									
Relinquished by: Date/Time: Company: Received by: Date/Time: Company: 4/28/17 1600 TAT CE 4/29/17 1125									
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:									
Custody Seals Intact: Custody Seal No.: 859062 Cooler Temperature(s) °C and Other Remarks: 5/10/2018									
AXES: A No									

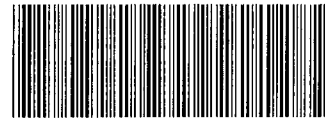
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

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[illegible]

COOLER RECEIPT FORM



480-117063 Chain of Custody

Cooler Received/Opened On 5/4/2017 @ 0945

Time Samples Removed From Cooler _____ Time Samples Placed In Storage _____ (2 Hour Window)

1. Tracking # 1055 (last 4 digits, FedEx) Courier: FedEx
IR Gun ID 160406069 pH Strip Lot N/A Chlorine Strip Lot N/A

2. Temperature of rep. sample or temp blank when opened: 5.9 degrees Celsius

3. If Item #2 temperatures is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler?

If yes, how many and where: 1 Front

YES...NO...NA 5/4/17

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 (initial) SK

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 (initial) SK

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 (initial) SK

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 (initial) SK

I certify that I attached a label with the unique LIMS number to each container (initial) SK

21. Were there Non-Conformance issues at login? YES...NO... Was a NCM generated? YES...NO...# _____

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05/23/2017

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)		Sampler:	Lab Pkt:	Carrier Tracking No(s):	COC No:						
Client Contact:		Phone:	Johnson, Orlette S		480-34764.2						
Shipping/Receiving:		E-Mail:	orlette.johnson@testamericainc.com	State of Origin:	Page: 2 of 3						
Company:		TestAmerica Laboratories, Inc		Accreditations Required (See note):							
Address:		Due Date Requested:	NELAP - New York								
2960 Foster Creighton Drive,		5/9/2017									
City:		TAT Requested (days):	Analysis Requested								
Nashville											
State Zip:											
TN, 37204											
Phone:		PO #:									
615-726-0177 (Tel) 615-726-3404 (Fax)											
Email:		WO #:									
Project Name:		Project #:									
Flewsburg Site #907016		48013647									
Site:		SSOV#:									
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Soil, O=Organic, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)			Total Number of containers	Special Instructions/Note:
MW-6 (480-117063-8)		4/24/17	12:05	Eastern	Water		X			2	
MW-7 (480-117063-9)		4/25/17	17:25	Eastern	Water		X			2	
MW-8 (480-117063-10)		4/26/17	10:05	Eastern	Water		X			2	
MW-9R (480-117063-11)		4/27/17	09:45	Eastern	Water		X			2	
MW-10 (480-117063-12)		4/24/17	15:50	Eastern	Water		X			2	
MW-11R (480-117063-13)		4/24/17	13:55	Eastern	Water		X			2	
MW-12 (480-117063-14)		4/25/17	15:55	Eastern	Water		X			2	
MW-13 (480-117063-15)		4/26/17	14:45	Eastern	Water		X			2	
MW-14 (480-117063-16)		4/26/17	16:30	Eastern	Water		X			2	
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody.											
Possible Hazard Identification											
Unconfirmed											
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2											
Empty Kit Relinquished by: Date: Time: Method of Shipment:											
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:											
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:											
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:											
Custody Seals Intact: Custody Seal No.: Cooler Temperature(s) °C and Other Remarks:											
Δ Yes Δ No											

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[illegible]

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-117063-1

Login Number: 117063
List Number: 1
Creator: Conway, Curtis R

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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 sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GES
Samples received within 48 hours of sampling.	N/A	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-117063-1

Login Number: 117063
List Number: 2
Creator: Armbruster, Chris

List Source: TestAmerica Edison
List Creation: 05/01/17 11:12 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	859062
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	5.1°C IR8
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 (excluding tests with immediate HTs)	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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-117063-1

Login Number: 117063
List Number: 3
Creator: West, Derrick D

List Source: TestAmerica Nashville
List Creation: 05/06/17 09:20 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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	
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 (excluding tests with immediate HTs)	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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	