

ANALYTICAL REPORT

Job Number: 180-41696-1

Job Description: Harley Davidson

For:

Groundwater Sciences Corporation
2601 Market Place Street, Suite 310
Harrisburg, PA 17110-9307

Attention: Allan Miller



Approved for release.
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Senior Project Manager
3/5/2015 8:34 AM

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03/05/2015

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Definitions/Glossary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-41696-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE

Client: Groundwater Sciences Corporation

Project: Harley Davidson

Report Number: 180-41696-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 03/04/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.6 C.

A collection time was not listed for the Trip Blank.

8260C

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

Detection Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-41696-1

Client Sample ID: HD-MW-175-0/1-0

Lab Sample ID: 180-41696-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.9		1.0	0.17	ug/L	1		8260C	Total/NA
Bromodichloromethane	0.42	J	1.0	0.13	ug/L	1		8260C	Total/NA
Dibromochloromethane	0.15	J	1.0	0.14	ug/L	1		8260C	Total/NA

Client Sample ID: HD-MW-172-0/1-0

Lab Sample ID: 180-41696-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.73	J	1.0	0.17	ug/L	1		8260C	Total/NA

Client Sample ID: HD-MW-173-0/1-0

Lab Sample ID: 180-41696-3

No Detections.

Client Sample ID: HD-MW-174-0/1-0

Lab Sample ID: 180-41696-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.7		1.0	0.17	ug/L	1		8260C	Total/NA
Trichloroethene	0.37	J	1.0	0.14	ug/L	1		8260C	Total/NA
Bromodichloromethane	0.31	J	1.0	0.13	ug/L	1		8260C	Total/NA
Tetrachloroethene	4.7		1.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: HD-MW-166-0/1-0

Lab Sample ID: 180-41696-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	2.4		1.0	0.17	ug/L	1		8260C	Total/NA
Trichloroethene	1.0		1.0	0.14	ug/L	1		8260C	Total/NA
Bromodichloromethane	0.50	J	1.0	0.13	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.80	J	1.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: HD-MW-167-0/1-0

Lab Sample ID: 180-41696-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	3.0		1.0	0.17	ug/L	1		8260C	Total/NA
Trichloroethene	2.6		1.0	0.14	ug/L	1		8260C	Total/NA
Bromodichloromethane	0.84	J	1.0	0.13	ug/L	1		8260C	Total/NA
Tetrachloroethene	8.6		1.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: HD-MW-171-0/1-0

Lab Sample ID: 180-41696-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	14		5.0	2.5	ug/L	1		8260C	Total/NA
Carbon disulfide	0.29	J	1.0	0.21	ug/L	1		8260C	Total/NA
2-Butanone (MEK)	57		5.0	0.55	ug/L	1		8260C	Total/NA
Benzene	1.4		1.0	0.11	ug/L	1		8260C	Total/NA
Trichloroethene	0.14	J	1.0	0.14	ug/L	1		8260C	Total/NA
4-Methyl-2-pentanone (MIBK)	1.6	J	5.0	0.53	ug/L	1		8260C	Total/NA
Toluene	1.1		1.0	0.15	ug/L	1		8260C	Total/NA
Tetrachloroethene	1.0		1.0	0.15	ug/L	1		8260C	Total/NA
2-Hexanone	0.58	J	5.0	0.16	ug/L	1		8260C	Total/NA
Styrene	0.098	J	1.0	0.097	ug/L	1		8260C	Total/NA
Acrylonitrile	0.72	J	20	0.55	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pittsburgh

Detection Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-41696-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 180-41696-8

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pittsburgh

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-41696-1

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

Client Sample ID: HD-MW-175-0/1-0

Lab Sample ID: 180-41696-1

Date Collected: 03/02/15 15:25

Matrix: Water

Date Received: 03/04/15 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			03/04/15 12:56	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/04/15 12:56	1
Bromomethane	1.0	U	1.0	0.31	ug/L			03/04/15 12:56	1
Chloroethane	1.0	U	1.0	0.21	ug/L			03/04/15 12:56	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			03/04/15 12:56	1
Acetone	5.0	U	5.0	2.5	ug/L			03/04/15 12:56	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			03/04/15 12:56	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			03/04/15 12:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/04/15 12:56	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			03/04/15 12:56	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			03/04/15 12:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			03/04/15 12:56	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			03/04/15 12:56	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			03/04/15 12:56	1
Chloroform	1.9		1.0	0.17	ug/L			03/04/15 12:56	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/04/15 12:56	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			03/04/15 12:56	1
Benzene	1.0	U	1.0	0.11	ug/L			03/04/15 12:56	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/04/15 12:56	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			03/04/15 12:56	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			03/04/15 12:56	1
Bromodichloromethane	0.42	J	1.0	0.13	ug/L			03/04/15 12:56	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			03/04/15 12:56	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			03/04/15 12:56	1
Toluene	1.0	U	1.0	0.15	ug/L			03/04/15 12:56	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			03/04/15 12:56	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			03/04/15 12:56	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/04/15 12:56	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			03/04/15 12:56	1
Dibromochloromethane	0.15	J	1.0	0.14	ug/L			03/04/15 12:56	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			03/04/15 12:56	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/04/15 12:56	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			03/04/15 12:56	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			03/04/15 12:56	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			03/04/15 12:56	1
Styrene	1.0	U	1.0	0.097	ug/L			03/04/15 12:56	1
Bromoform	1.0	U	1.0	0.19	ug/L			03/04/15 12:56	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			03/04/15 12:56	1
Acrylonitrile	20	U	20	0.55	ug/L			03/04/15 12:56	1
1,4-Dioxane	200	U	200	34	ug/L			03/04/15 12:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		64 - 135					03/04/15 12:56	1
Toluene-d8 (Surr)	105		71 - 118					03/04/15 12:56	1
4-Bromofluorobenzene (Surr)	102		70 - 118					03/04/15 12:56	1
Dibromofluoromethane (Surr)	98		70 - 128					03/04/15 12:56	1

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-41696-1

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

Client Sample ID: HD-MW-172-0/1-0

Lab Sample ID: 180-41696-2

Date Collected: 03/02/15 15:40

Matrix: Water

Date Received: 03/04/15 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			03/04/15 15:20	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/04/15 15:20	1
Bromomethane	1.0	U	1.0	0.31	ug/L			03/04/15 15:20	1
Chloroethane	1.0	U	1.0	0.21	ug/L			03/04/15 15:20	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			03/04/15 15:20	1
Acetone	5.0	U	5.0	2.5	ug/L			03/04/15 15:20	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			03/04/15 15:20	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			03/04/15 15:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/04/15 15:20	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			03/04/15 15:20	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			03/04/15 15:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			03/04/15 15:20	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			03/04/15 15:20	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			03/04/15 15:20	1
Chloroform	0.73	J	1.0	0.17	ug/L			03/04/15 15:20	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/04/15 15:20	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			03/04/15 15:20	1
Benzene	1.0	U	1.0	0.11	ug/L			03/04/15 15:20	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/04/15 15:20	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			03/04/15 15:20	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			03/04/15 15:20	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			03/04/15 15:20	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			03/04/15 15:20	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			03/04/15 15:20	1
Toluene	1.0	U	1.0	0.15	ug/L			03/04/15 15:20	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			03/04/15 15:20	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			03/04/15 15:20	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/04/15 15:20	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			03/04/15 15:20	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			03/04/15 15:20	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			03/04/15 15:20	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/04/15 15:20	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			03/04/15 15:20	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			03/04/15 15:20	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			03/04/15 15:20	1
Styrene	1.0	U	1.0	0.097	ug/L			03/04/15 15:20	1
Bromoform	1.0	U	1.0	0.19	ug/L			03/04/15 15:20	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			03/04/15 15:20	1
Acrylonitrile	20	U	20	0.55	ug/L			03/04/15 15:20	1
1,4-Dioxane	200	U	200	34	ug/L			03/04/15 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		64 - 135		03/04/15 15:20	1
Toluene-d8 (Surr)	103		71 - 118		03/04/15 15:20	1
4-Bromofluorobenzene (Surr)	101		70 - 118		03/04/15 15:20	1
Dibromofluoromethane (Surr)	95		70 - 128		03/04/15 15:20	1

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-41696-1

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

Client Sample ID: HD-MW-173-0/1-0

Lab Sample ID: 180-41696-3

Date Collected: 03/03/15 11:00

Matrix: Water

Date Received: 03/04/15 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			03/04/15 15:44	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/04/15 15:44	1
Bromomethane	1.0	U	1.0	0.31	ug/L			03/04/15 15:44	1
Chloroethane	1.0	U	1.0	0.21	ug/L			03/04/15 15:44	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			03/04/15 15:44	1
Acetone	5.0	U	5.0	2.5	ug/L			03/04/15 15:44	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			03/04/15 15:44	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			03/04/15 15:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/04/15 15:44	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			03/04/15 15:44	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			03/04/15 15:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			03/04/15 15:44	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			03/04/15 15:44	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			03/04/15 15:44	1
Chloroform	1.0	U	1.0	0.17	ug/L			03/04/15 15:44	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/04/15 15:44	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			03/04/15 15:44	1
Benzene	1.0	U	1.0	0.11	ug/L			03/04/15 15:44	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/04/15 15:44	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			03/04/15 15:44	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			03/04/15 15:44	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			03/04/15 15:44	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			03/04/15 15:44	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			03/04/15 15:44	1
Toluene	1.0	U	1.0	0.15	ug/L			03/04/15 15:44	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			03/04/15 15:44	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			03/04/15 15:44	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/04/15 15:44	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			03/04/15 15:44	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			03/04/15 15:44	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			03/04/15 15:44	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/04/15 15:44	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			03/04/15 15:44	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			03/04/15 15:44	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			03/04/15 15:44	1
Styrene	1.0	U	1.0	0.097	ug/L			03/04/15 15:44	1
Bromoform	1.0	U	1.0	0.19	ug/L			03/04/15 15:44	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			03/04/15 15:44	1
Acrylonitrile	20	U	20	0.55	ug/L			03/04/15 15:44	1
1,4-Dioxane	200	U	200	34	ug/L			03/04/15 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		64 - 135		03/04/15 15:44	1
Toluene-d8 (Surr)	106		71 - 118		03/04/15 15:44	1
4-Bromofluorobenzene (Surr)	102		70 - 118		03/04/15 15:44	1
Dibromofluoromethane (Surr)	94		70 - 128		03/04/15 15:44	1

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-41696-1

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

Client Sample ID: HD-MW-174-0/1-0

Lab Sample ID: 180-41696-4

Date Collected: 03/03/15 11:20

Matrix: Water

Date Received: 03/04/15 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			03/04/15 16:08	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/04/15 16:08	1
Bromomethane	1.0	U	1.0	0.31	ug/L			03/04/15 16:08	1
Chloroethane	1.0	U	1.0	0.21	ug/L			03/04/15 16:08	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			03/04/15 16:08	1
Acetone	5.0	U	5.0	2.5	ug/L			03/04/15 16:08	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			03/04/15 16:08	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			03/04/15 16:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/04/15 16:08	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			03/04/15 16:08	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			03/04/15 16:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			03/04/15 16:08	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			03/04/15 16:08	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			03/04/15 16:08	1
Chloroform	1.7		1.0	0.17	ug/L			03/04/15 16:08	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/04/15 16:08	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			03/04/15 16:08	1
Benzene	1.0	U	1.0	0.11	ug/L			03/04/15 16:08	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/04/15 16:08	1
Trichloroethene	0.37	J	1.0	0.14	ug/L			03/04/15 16:08	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			03/04/15 16:08	1
Bromodichloromethane	0.31	J	1.0	0.13	ug/L			03/04/15 16:08	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			03/04/15 16:08	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			03/04/15 16:08	1
Toluene	1.0	U	1.0	0.15	ug/L			03/04/15 16:08	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			03/04/15 16:08	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			03/04/15 16:08	1
Tetrachloroethene	4.7		1.0	0.15	ug/L			03/04/15 16:08	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			03/04/15 16:08	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			03/04/15 16:08	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			03/04/15 16:08	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/04/15 16:08	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			03/04/15 16:08	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			03/04/15 16:08	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			03/04/15 16:08	1
Styrene	1.0	U	1.0	0.097	ug/L			03/04/15 16:08	1
Bromoform	1.0	U	1.0	0.19	ug/L			03/04/15 16:08	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			03/04/15 16:08	1
Acrylonitrile	20	U	20	0.55	ug/L			03/04/15 16:08	1
1,4-Dioxane	200	U	200	34	ug/L			03/04/15 16:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		64 - 135		03/04/15 16:08	1
Toluene-d8 (Surr)	106		71 - 118		03/04/15 16:08	1
4-Bromofluorobenzene (Surr)	105		70 - 118		03/04/15 16:08	1
Dibromofluoromethane (Surr)	96		70 - 128		03/04/15 16:08	1

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-41696-1

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

Client Sample ID: HD-MW-166-0/1-0

Lab Sample ID: 180-41696-5

Date Collected: 03/03/15 11:45

Matrix: Water

Date Received: 03/04/15 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			03/04/15 16:32	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/04/15 16:32	1
Bromomethane	1.0	U	1.0	0.31	ug/L			03/04/15 16:32	1
Chloroethane	1.0	U	1.0	0.21	ug/L			03/04/15 16:32	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			03/04/15 16:32	1
Acetone	5.0	U	5.0	2.5	ug/L			03/04/15 16:32	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			03/04/15 16:32	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			03/04/15 16:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/04/15 16:32	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			03/04/15 16:32	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			03/04/15 16:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			03/04/15 16:32	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			03/04/15 16:32	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			03/04/15 16:32	1
Chloroform	2.4		1.0	0.17	ug/L			03/04/15 16:32	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/04/15 16:32	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			03/04/15 16:32	1
Benzene	1.0	U	1.0	0.11	ug/L			03/04/15 16:32	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/04/15 16:32	1
Trichloroethene	1.0		1.0	0.14	ug/L			03/04/15 16:32	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			03/04/15 16:32	1
Bromodichloromethane	0.50	J	1.0	0.13	ug/L			03/04/15 16:32	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			03/04/15 16:32	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			03/04/15 16:32	1
Toluene	1.0	U	1.0	0.15	ug/L			03/04/15 16:32	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			03/04/15 16:32	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			03/04/15 16:32	1
Tetrachloroethene	0.80	J	1.0	0.15	ug/L			03/04/15 16:32	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			03/04/15 16:32	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			03/04/15 16:32	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			03/04/15 16:32	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/04/15 16:32	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			03/04/15 16:32	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			03/04/15 16:32	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			03/04/15 16:32	1
Styrene	1.0	U	1.0	0.097	ug/L			03/04/15 16:32	1
Bromoform	1.0	U	1.0	0.19	ug/L			03/04/15 16:32	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			03/04/15 16:32	1
Acrylonitrile	20	U	20	0.55	ug/L			03/04/15 16:32	1
1,4-Dioxane	200	U	200	34	ug/L			03/04/15 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		64 - 135		03/04/15 16:32	1
Toluene-d8 (Surr)	101		71 - 118		03/04/15 16:32	1
4-Bromofluorobenzene (Surr)	101		70 - 118		03/04/15 16:32	1
Dibromofluoromethane (Surr)	97		70 - 128		03/04/15 16:32	1

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-41696-1

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

Client Sample ID: HD-MW-167-0/1-0

Lab Sample ID: 180-41696-6

Date Collected: 03/03/15 12:00

Matrix: Water

Date Received: 03/04/15 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			03/04/15 16:56	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/04/15 16:56	1
Bromomethane	1.0	U	1.0	0.31	ug/L			03/04/15 16:56	1
Chloroethane	1.0	U	1.0	0.21	ug/L			03/04/15 16:56	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			03/04/15 16:56	1
Acetone	5.0	U	5.0	2.5	ug/L			03/04/15 16:56	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			03/04/15 16:56	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			03/04/15 16:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/04/15 16:56	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			03/04/15 16:56	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			03/04/15 16:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			03/04/15 16:56	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			03/04/15 16:56	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			03/04/15 16:56	1
Chloroform	3.0		1.0	0.17	ug/L			03/04/15 16:56	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/04/15 16:56	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			03/04/15 16:56	1
Benzene	1.0	U	1.0	0.11	ug/L			03/04/15 16:56	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/04/15 16:56	1
Trichloroethene	2.6		1.0	0.14	ug/L			03/04/15 16:56	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			03/04/15 16:56	1
Bromodichloromethane	0.84	J	1.0	0.13	ug/L			03/04/15 16:56	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			03/04/15 16:56	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			03/04/15 16:56	1
Toluene	1.0	U	1.0	0.15	ug/L			03/04/15 16:56	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			03/04/15 16:56	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			03/04/15 16:56	1
Tetrachloroethene	8.6		1.0	0.15	ug/L			03/04/15 16:56	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			03/04/15 16:56	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			03/04/15 16:56	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			03/04/15 16:56	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/04/15 16:56	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			03/04/15 16:56	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			03/04/15 16:56	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			03/04/15 16:56	1
Styrene	1.0	U	1.0	0.097	ug/L			03/04/15 16:56	1
Bromoform	1.0	U	1.0	0.19	ug/L			03/04/15 16:56	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			03/04/15 16:56	1
Acrylonitrile	20	U	20	0.55	ug/L			03/04/15 16:56	1
1,4-Dioxane	200	U	200	34	ug/L			03/04/15 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		64 - 135		03/04/15 16:56	1
Toluene-d8 (Surr)	104		71 - 118		03/04/15 16:56	1
4-Bromofluorobenzene (Surr)	104		70 - 118		03/04/15 16:56	1
Dibromofluoromethane (Surr)	93		70 - 128		03/04/15 16:56	1

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-41696-1

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

Client Sample ID: HD-MW-171-0/1-0

Lab Sample ID: 180-41696-7

Date Collected: 03/03/15 13:30

Matrix: Water

Date Received: 03/04/15 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			03/04/15 17:21	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/04/15 17:21	1
Bromomethane	1.0	U	1.0	0.31	ug/L			03/04/15 17:21	1
Chloroethane	1.0	U	1.0	0.21	ug/L			03/04/15 17:21	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			03/04/15 17:21	1
Acetone	14		5.0	2.5	ug/L			03/04/15 17:21	1
Carbon disulfide	0.29	J	1.0	0.21	ug/L			03/04/15 17:21	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			03/04/15 17:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/04/15 17:21	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			03/04/15 17:21	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			03/04/15 17:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			03/04/15 17:21	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			03/04/15 17:21	1
2-Butanone (MEK)	57		5.0	0.55	ug/L			03/04/15 17:21	1
Chloroform	1.0	U	1.0	0.17	ug/L			03/04/15 17:21	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/04/15 17:21	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			03/04/15 17:21	1
Benzene	1.4		1.0	0.11	ug/L			03/04/15 17:21	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/04/15 17:21	1
Trichloroethene	0.14	J	1.0	0.14	ug/L			03/04/15 17:21	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			03/04/15 17:21	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			03/04/15 17:21	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			03/04/15 17:21	1
4-Methyl-2-pentanone (MIBK)	1.6	J	5.0	0.53	ug/L			03/04/15 17:21	1
Toluene	1.1		1.0	0.15	ug/L			03/04/15 17:21	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			03/04/15 17:21	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			03/04/15 17:21	1
Tetrachloroethene	1.0		1.0	0.15	ug/L			03/04/15 17:21	1
2-Hexanone	0.58	J	5.0	0.16	ug/L			03/04/15 17:21	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			03/04/15 17:21	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			03/04/15 17:21	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/04/15 17:21	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			03/04/15 17:21	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			03/04/15 17:21	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			03/04/15 17:21	1
Styrene	0.098	J	1.0	0.097	ug/L			03/04/15 17:21	1
Bromoform	1.0	U	1.0	0.19	ug/L			03/04/15 17:21	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			03/04/15 17:21	1
Acrylonitrile	0.72	J	20	0.55	ug/L			03/04/15 17:21	1
1,4-Dioxane	200	U	200	34	ug/L			03/04/15 17:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		64 - 135		03/04/15 17:21	1
Toluene-d8 (Surr)	105		71 - 118		03/04/15 17:21	1
4-Bromofluorobenzene (Surr)	106		70 - 118		03/04/15 17:21	1
Dibromofluoromethane (Surr)	100		70 - 128		03/04/15 17:21	1

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-41696-1

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

Client Sample ID: TRIP BLANK

Lab Sample ID: 180-41696-8

Date Collected: 03/03/15 00:00

Matrix: Water

Date Received: 03/04/15 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			03/04/15 13:20	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/04/15 13:20	1
Bromomethane	1.0	U	1.0	0.31	ug/L			03/04/15 13:20	1
Chloroethane	1.0	U	1.0	0.21	ug/L			03/04/15 13:20	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			03/04/15 13:20	1
Acetone	5.0	U	5.0	2.5	ug/L			03/04/15 13:20	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			03/04/15 13:20	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			03/04/15 13:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/04/15 13:20	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			03/04/15 13:20	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			03/04/15 13:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			03/04/15 13:20	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			03/04/15 13:20	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			03/04/15 13:20	1
Chloroform	1.0	U	1.0	0.17	ug/L			03/04/15 13:20	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/04/15 13:20	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			03/04/15 13:20	1
Benzene	1.0	U	1.0	0.11	ug/L			03/04/15 13:20	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/04/15 13:20	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			03/04/15 13:20	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			03/04/15 13:20	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			03/04/15 13:20	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			03/04/15 13:20	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			03/04/15 13:20	1
Toluene	1.0	U	1.0	0.15	ug/L			03/04/15 13:20	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			03/04/15 13:20	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			03/04/15 13:20	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/04/15 13:20	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			03/04/15 13:20	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			03/04/15 13:20	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			03/04/15 13:20	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/04/15 13:20	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			03/04/15 13:20	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			03/04/15 13:20	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			03/04/15 13:20	1
Styrene	1.0	U	1.0	0.097	ug/L			03/04/15 13:20	1
Bromoform	1.0	U	1.0	0.19	ug/L			03/04/15 13:20	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			03/04/15 13:20	1
Acrylonitrile	20	U	20	0.55	ug/L			03/04/15 13:20	1
1,4-Dioxane	200	U	200	34	ug/L			03/04/15 13:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		64 - 135		03/04/15 13:20	1
Toluene-d8 (Surr)	106		71 - 118		03/04/15 13:20	1
4-Bromofluorobenzene (Surr)	104		70 - 118		03/04/15 13:20	1
Dibromofluoromethane (Surr)	93		70 - 128		03/04/15 13:20	1

Default Detection Limits

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-41696-1

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

Analyte	RL	MDL	Units	Method
1,1,1,2-Tetrachloroethane	1.0	0.28	ug/L	8260C
1,1,1-Trichloroethane	1.0	0.29	ug/L	8260C
1,1,2,2-Tetrachloroethane	1.0	0.20	ug/L	8260C
1,1,2-Trichloroethane	1.0	0.20	ug/L	8260C
1,1-Dichloroethane	1.0	0.12	ug/L	8260C
1,1-Dichloroethene	1.0	0.30	ug/L	8260C
1,2-Dibromoethane (EDB)	1.0	0.18	ug/L	8260C
1,2-Dichloroethane	1.0	0.21	ug/L	8260C
1,2-Dichloropropane	1.0	0.095	ug/L	8260C
1,4-Dioxane	200	34	ug/L	8260C
2-Butanone (MEK)	5.0	0.55	ug/L	8260C
2-Hexanone	5.0	0.16	ug/L	8260C
4-Methyl-2-pentanone (MIBK)	5.0	0.53	ug/L	8260C
Acetone	5.0	2.5	ug/L	8260C
Acrylonitrile	20	0.55	ug/L	8260C
Benzene	1.0	0.11	ug/L	8260C
Bromochloromethane	1.0	0.18	ug/L	8260C
Bromodichloromethane	1.0	0.13	ug/L	8260C
Bromoform	1.0	0.19	ug/L	8260C
Bromomethane	1.0	0.31	ug/L	8260C
Carbon disulfide	1.0	0.21	ug/L	8260C
Carbon tetrachloride	1.0	0.14	ug/L	8260C
Chlorobenzene	1.0	0.14	ug/L	8260C
Chloroethane	1.0	0.21	ug/L	8260C
Chloroform	1.0	0.17	ug/L	8260C
Chloromethane	1.0	0.28	ug/L	8260C
cis-1,2-Dichloroethene	1.0	0.24	ug/L	8260C
cis-1,3-Dichloropropene	1.0	0.19	ug/L	8260C
Dibromochloromethane	1.0	0.14	ug/L	8260C
Ethylbenzene	1.0	0.23	ug/L	8260C
Methyl tert-butyl ether	1.0	0.18	ug/L	8260C
Methylene Chloride	1.0	0.13	ug/L	8260C
Styrene	1.0	0.097	ug/L	8260C
Tetrachloroethene	1.0	0.15	ug/L	8260C
Toluene	1.0	0.15	ug/L	8260C
trans-1,2-Dichloroethene	1.0	0.17	ug/L	8260C
trans-1,3-Dichloropropene	1.0	0.15	ug/L	8260C
Trichloroethene	1.0	0.14	ug/L	8260C
Vinyl chloride	1.0	0.23	ug/L	8260C
Xylenes, Total	3.0	0.49	ug/L	8260C

Surrogate Summary

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-41696-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (64-135)	TOL (71-118)	BFB (70-118)	DBFM (70-128)
180-41696-1	HD-MW-175-0/1-0	95	105	102	98
180-41696-1 MS	HD-MW-175-0/1-0	92	105	94	94
180-41696-1 MSD	HD-MW-175-0/1-0	96	102	95	94
180-41696-2	HD-MW-172-0/1-0	97	103	101	95
180-41696-3	HD-MW-173-0/1-0	93	106	102	94
180-41696-4	HD-MW-174-0/1-0	96	106	105	96
180-41696-5	HD-MW-166-0/1-0	97	101	101	97
180-41696-6	HD-MW-167-0/1-0	97	104	104	93
180-41696-7	HD-MW-171-0/1-0	99	105	106	100
180-41696-8	TRIP BLANK	96	106	104	93
LCS 180-134740/6	Lab Control Sample	97	100	92	94
MB 180-134740/3	Method Blank	95	104	104	94

Surrogate Legend

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

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-41696-1

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

Lab Sample ID: MB 180-134740/3

Matrix: Water

Analysis Batch: 134740

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloromethane	1.0	U	1.0	0.28	ug/L			03/04/15 12:17	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/04/15 12:17	1
Bromomethane	1.0	U	1.0	0.31	ug/L			03/04/15 12:17	1
Chloroethane	1.0	U	1.0	0.21	ug/L			03/04/15 12:17	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			03/04/15 12:17	1
Acetone	5.0	U	5.0	2.5	ug/L			03/04/15 12:17	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			03/04/15 12:17	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			03/04/15 12:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/04/15 12:17	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			03/04/15 12:17	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			03/04/15 12:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			03/04/15 12:17	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			03/04/15 12:17	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			03/04/15 12:17	1
Chloroform	1.0	U	1.0	0.17	ug/L			03/04/15 12:17	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/04/15 12:17	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			03/04/15 12:17	1
Benzene	1.0	U	1.0	0.11	ug/L			03/04/15 12:17	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/04/15 12:17	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			03/04/15 12:17	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			03/04/15 12:17	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			03/04/15 12:17	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			03/04/15 12:17	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			03/04/15 12:17	1
Toluene	1.0	U	1.0	0.15	ug/L			03/04/15 12:17	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			03/04/15 12:17	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			03/04/15 12:17	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/04/15 12:17	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			03/04/15 12:17	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			03/04/15 12:17	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			03/04/15 12:17	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/04/15 12:17	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			03/04/15 12:17	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			03/04/15 12:17	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			03/04/15 12:17	1
Styrene	1.0	U	1.0	0.097	ug/L			03/04/15 12:17	1
Bromoform	1.0	U	1.0	0.19	ug/L			03/04/15 12:17	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			03/04/15 12:17	1
Acrylonitrile	20	U	20	0.55	ug/L			03/04/15 12:17	1
1,4-Dioxane	200	U	200	34	ug/L			03/04/15 12:17	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	95		64 - 135		03/04/15 12:17	1
Toluene-d8 (Surr)	104		71 - 118		03/04/15 12:17	1
4-Bromofluorobenzene (Surr)	104		70 - 118		03/04/15 12:17	1
Dibromofluoromethane (Surr)	94		70 - 128		03/04/15 12:17	1

TestAmerica Pittsburgh

QC Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-41696-1

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

Lab Sample ID: LCS 180-134740/6

Matrix: Water

Analysis Batch: 134740

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	10.0	8.72		ug/L		87	50 - 139
Vinyl chloride	10.0	8.59		ug/L		86	53 - 138
Bromomethane	10.0	10.0		ug/L		100	33 - 150
Chloroethane	10.0	9.55		ug/L		96	36 - 142
1,1-Dichloroethene	10.0	8.99		ug/L		90	65 - 136
Acetone	20.0	16.5		ug/L		83	22 - 150
Carbon disulfide	10.0	7.82		ug/L		78	54 - 132
Methylene Chloride	10.0	9.18		ug/L		92	63 - 129
trans-1,2-Dichloroethene	10.0	9.41		ug/L		94	73 - 126
Methyl tert-butyl ether	10.0	8.71		ug/L		87	64 - 123
1,1-Dichloroethane	10.0	9.19		ug/L		92	73 - 126
cis-1,2-Dichloroethene	10.0	9.25		ug/L		93	70 - 120
Bromochloromethane	10.0	8.70		ug/L		87	70 - 127
2-Butanone (MEK)	20.0	18.4		ug/L		92	39 - 138
Chloroform	10.0	9.28		ug/L		93	72 - 127
1,1,1-Trichloroethane	10.0	8.32		ug/L		83	63 - 133
Carbon tetrachloride	10.0	8.41		ug/L		84	55 - 150
Benzene	10.0	9.36		ug/L		94	80 - 120
1,2-Dichloroethane	10.0	8.99		ug/L		90	68 - 132
Trichloroethene	10.0	9.49		ug/L		95	73 - 120
1,2-Dichloropropane	10.0	9.21		ug/L		92	76 - 124
Bromodichloromethane	10.0	9.03		ug/L		90	66 - 130
cis-1,3-Dichloropropene	10.0	8.43		ug/L		84	66 - 120
4-Methyl-2-pentanone (MIBK)	20.0	17.1		ug/L		86	45 - 145
Toluene	10.0	9.64		ug/L		96	80 - 123
trans-1,3-Dichloropropene	10.0	8.08		ug/L		81	65 - 125
1,1,2-Trichloroethane	10.0	9.38		ug/L		94	77 - 127
Tetrachloroethene	10.0	9.39		ug/L		94	70 - 135
2-Hexanone	20.0	16.3		ug/L		81	25 - 132
Dibromochloromethane	10.0	8.89		ug/L		89	60 - 140
1,2-Dibromoethane (EDB)	10.0	9.30		ug/L		93	74 - 123
Chlorobenzene	10.0	9.41		ug/L		94	80 - 120
1,1,1,2-Tetrachloroethane	10.0	8.83		ug/L		88	63 - 140
Ethylbenzene	10.0	9.42		ug/L		94	72 - 126
Xylenes, Total	20.0	18.5		ug/L		93	76 - 128
Styrene	10.0	9.10		ug/L		91	71 - 127
Bromoform	10.0	8.61		ug/L		86	46 - 150
1,1,2,2-Tetrachloroethane	10.0	9.42		ug/L		94	62 - 125
1,4-Dioxane	200	194	J	ug/L		97	10 - 160

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	97		64 - 135
Toluene-d8 (Surr)	100		71 - 118
4-Bromofluorobenzene (Surr)	92		70 - 118
Dibromofluoromethane (Surr)	94		70 - 128

QC Sample Results

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-41696-1

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

Lab Sample ID: 180-41696-1 MS

Matrix: Water

Analysis Batch: 134740

Client Sample ID: HD-MW-175-0/1-0

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Chloromethane	1.0	U	10.0	8.18		ug/L		82	50 - 139
Vinyl chloride	1.0	U	10.0	8.47		ug/L		85	53 - 138
Bromomethane	1.0	U	10.0	8.26		ug/L		83	33 - 150
Chloroethane	1.0	U	10.0	8.75		ug/L		88	36 - 142
1,1-Dichloroethene	1.0	U	10.0	8.14		ug/L		81	65 - 136
Acetone	5.0	U	20.0	20.6		ug/L		103	22 - 150
Carbon disulfide	1.0	U	10.0	7.50		ug/L		75	54 - 132
Methylene Chloride	1.0	U	10.0	8.92		ug/L		89	63 - 129
trans-1,2-Dichloroethene	1.0	U	10.0	8.94		ug/L		89	73 - 126
Methyl tert-butyl ether	1.0	U	10.0	8.55		ug/L		86	64 - 123
1,1-Dichloroethane	1.0	U	10.0	8.81		ug/L		88	73 - 126
cis-1,2-Dichloroethene	1.0	U	10.0	8.51		ug/L		85	70 - 120
Bromochloromethane	1.0	U	10.0	8.88		ug/L		89	70 - 127
2-Butanone (MEK)	5.0	U	20.0	18.1		ug/L		90	39 - 138
Chloroform	1.9		10.0	10.6		ug/L		86	72 - 127
1,1,1-Trichloroethane	1.0	U	10.0	8.11		ug/L		81	63 - 133
Carbon tetrachloride	1.0	U	10.0	8.33		ug/L		83	55 - 150
Benzene	1.0	U	10.0	9.00		ug/L		90	80 - 120
1,2-Dichloroethane	1.0	U	10.0	8.83		ug/L		88	68 - 132
Trichloroethene	1.0	U	10.0	8.80		ug/L		88	73 - 120
1,2-Dichloropropane	1.0	U	10.0	8.92		ug/L		89	76 - 124
Bromodichloromethane	0.42	J	10.0	8.81		ug/L		84	66 - 130
cis-1,3-Dichloropropene	1.0	U	10.0	8.27		ug/L		83	66 - 120
4-Methyl-2-pentanone (MIBK)	5.0	U	20.0	17.3		ug/L		86	45 - 145
Toluene	1.0	U	10.0	9.71		ug/L		97	80 - 123
trans-1,3-Dichloropropene	1.0	U	10.0	8.42		ug/L		84	65 - 125
1,1,2-Trichloroethane	1.0	U	10.0	9.37		ug/L		94	77 - 127
Tetrachloroethene	1.0	U	10.0	9.43		ug/L		94	70 - 135
2-Hexanone	5.0	U	20.0	17.1		ug/L		85	25 - 132
Dibromochloromethane	0.15	J	10.0	9.18		ug/L		90	60 - 140
1,2-Dibromoethane (EDB)	1.0	U	10.0	9.34		ug/L		93	74 - 123
Chlorobenzene	1.0	U	10.0	9.37		ug/L		94	80 - 120
1,1,1,2-Tetrachloroethane	1.0	U	10.0	8.77		ug/L		88	63 - 140
Ethylbenzene	1.0	U	10.0	9.53		ug/L		95	72 - 126
Xylenes, Total	3.0	U	20.0	18.9		ug/L		95	76 - 128
Styrene	1.0	U	10.0	9.20		ug/L		92	71 - 127
Bromoform	1.0	U	10.0	8.75		ug/L		87	46 - 150
1,1,2,2-Tetrachloroethane	1.0	U	10.0	9.69		ug/L		97	62 - 125
1,4-Dioxane	200	U	200	199	J	ug/L		99	10 - 160
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	92		64 - 135						
Toluene-d8 (Surr)	105		71 - 118						
4-Bromofluorobenzene (Surr)	94		70 - 118						
Dibromofluoromethane (Surr)	94		70 - 128						

QC Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-41696-1

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

Lab Sample ID: 180-41696-1 MSD

Matrix: Water

Analysis Batch: 134740

Client Sample ID: HD-MW-175-0/1-0

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Chloromethane	1.0	U	10.0	8.46		ug/L		85	50 - 139	3	35
Vinyl chloride	1.0	U	10.0	8.31		ug/L		83	53 - 138	2	35
Bromomethane	1.0	U	10.0	9.35		ug/L		93	33 - 150	12	35
Chloroethane	1.0	U	10.0	9.38		ug/L		94	36 - 142	7	35
1,1-Dichloroethene	1.0	U	10.0	8.77		ug/L		88	65 - 136	7	35
Acetone	5.0	U	20.0	20.9		ug/L		104	22 - 150	1	35
Carbon disulfide	1.0	U	10.0	7.61		ug/L		76	54 - 132	1	35
Methylene Chloride	1.0	U	10.0	9.15		ug/L		91	63 - 129	3	35
trans-1,2-Dichloroethene	1.0	U	10.0	9.10		ug/L		91	73 - 126	2	35
Methyl tert-butyl ether	1.0	U	10.0	8.91		ug/L		89	64 - 123	4	35
1,1-Dichloroethane	1.0	U	10.0	9.01		ug/L		90	73 - 126	2	35
cis-1,2-Dichloroethene	1.0	U	10.0	9.03		ug/L		90	70 - 120	6	35
Bromochloromethane	1.0	U	10.0	9.16		ug/L		92	70 - 127	3	35
2-Butanone (MEK)	5.0	U	20.0	20.3		ug/L		102	39 - 138	12	35
Chloroform	1.9		10.0	11.0		ug/L		90	72 - 127	4	35
1,1,1-Trichloroethane	1.0	U	10.0	8.72		ug/L		87	63 - 133	7	35
Carbon tetrachloride	1.0	U	10.0	8.62		ug/L		86	55 - 150	3	35
Benzene	1.0	U	10.0	9.23		ug/L		92	80 - 120	3	32
1,2-Dichloroethane	1.0	U	10.0	9.06		ug/L		91	68 - 132	3	32
Trichloroethene	1.0	U	10.0	9.11		ug/L		91	73 - 120	3	35
1,2-Dichloropropane	1.0	U	10.0	9.21		ug/L		92	76 - 124	3	34
Bromodichloromethane	0.42	J	10.0	9.53		ug/L		91	66 - 130	8	35
cis-1,3-Dichloropropene	1.0	U	10.0	8.64		ug/L		86	66 - 120	4	35
4-Methyl-2-pentanone (MIBK)	5.0	U	20.0	18.2		ug/L		91	45 - 145	5	35
Toluene	1.0	U	10.0	9.86		ug/L		99	80 - 123	1	35
trans-1,3-Dichloropropene	1.0	U	10.0	9.17		ug/L		92	65 - 125	9	35
1,1,2-Trichloroethane	1.0	U	10.0	9.59		ug/L		96	77 - 127	2	35
Tetrachloroethene	1.0	U	10.0	9.46		ug/L		95	70 - 135	0	35
2-Hexanone	5.0	U	20.0	17.0		ug/L		85	25 - 132	0	35
Dibromochloromethane	0.15	J	10.0	9.50		ug/L		93	60 - 140	3	35
1,2-Dibromoethane (EDB)	1.0	U	10.0	9.53		ug/L		95	74 - 123	2	35
Chlorobenzene	1.0	U	10.0	9.67		ug/L		97	80 - 120	3	29
1,1,1,2-Tetrachloroethane	1.0	U	10.0	9.19		ug/L		92	63 - 140	5	34
Ethylbenzene	1.0	U	10.0	9.34		ug/L		93	72 - 126	2	33
Xylenes, Total	3.0	U	20.0	19.1		ug/L		96	76 - 128	1	32
Styrene	1.0	U	10.0	9.39		ug/L		94	71 - 127	2	34
Bromoform	1.0	U	10.0	9.05		ug/L		91	46 - 150	3	35
1,1,2,2-Tetrachloroethane	1.0	U	10.0	9.83		ug/L		98	62 - 125	1	35
1,4-Dioxane	200	U	200	210		ug/L		105	10 - 160	5	35

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	96		64 - 135
Toluene-d8 (Surr)	102		71 - 118
4-Bromofluorobenzene (Surr)	95		70 - 118
Dibromofluoromethane (Surr)	94		70 - 128

QC Association Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-41696-1

GC/MS VOA

Analysis Batch: 134740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-41696-1	HD-MW-175-0/1-0	Total/NA	Water	8260C	
180-41696-1 MS	HD-MW-175-0/1-0	Total/NA	Water	8260C	
180-41696-1 MSD	HD-MW-175-0/1-0	Total/NA	Water	8260C	
180-41696-2	HD-MW-172-0/1-0	Total/NA	Water	8260C	
180-41696-3	HD-MW-173-0/1-0	Total/NA	Water	8260C	
180-41696-4	HD-MW-174-0/1-0	Total/NA	Water	8260C	
180-41696-5	HD-MW-166-0/1-0	Total/NA	Water	8260C	
180-41696-6	HD-MW-167-0/1-0	Total/NA	Water	8260C	
180-41696-7	HD-MW-171-0/1-0	Total/NA	Water	8260C	
180-41696-8	TRIP BLANK	Total/NA	Water	8260C	
LCS 180-134740/6	Lab Control Sample	Total/NA	Water	8260C	
MB 180-134740/3	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-41696-1

Client Sample ID: HD-MW-175-0/1-0

Date Collected: 03/02/15 15:25

Date Received: 03/04/15 10:30

Lab Sample ID: 180-41696-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	134740	03/04/15 12:56	KLG	TAL PIT
Instrument ID: CHHP5										

Client Sample ID: HD-MW-172-0/1-0

Date Collected: 03/02/15 15:40

Date Received: 03/04/15 10:30

Lab Sample ID: 180-41696-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	134740	03/04/15 15:20	KLG	TAL PIT
Instrument ID: CHHP5										

Client Sample ID: HD-MW-173-0/1-0

Date Collected: 03/03/15 11:00

Date Received: 03/04/15 10:30

Lab Sample ID: 180-41696-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	134740	03/04/15 15:44	KLG	TAL PIT
Instrument ID: CHHP5										

Client Sample ID: HD-MW-174-0/1-0

Date Collected: 03/03/15 11:20

Date Received: 03/04/15 10:30

Lab Sample ID: 180-41696-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	134740	03/04/15 16:08	KLG	TAL PIT
Instrument ID: CHHP5										

Client Sample ID: HD-MW-166-0/1-0

Date Collected: 03/03/15 11:45

Date Received: 03/04/15 10:30

Lab Sample ID: 180-41696-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	134740	03/04/15 16:32	KLG	TAL PIT
Instrument ID: CHHP5										

Client Sample ID: HD-MW-167-0/1-0

Date Collected: 03/03/15 12:00

Date Received: 03/04/15 10:30

Lab Sample ID: 180-41696-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	134740	03/04/15 16:56	KLG	TAL PIT
Instrument ID: CHHP5										

TestAmerica Pittsburgh

Lab Chronicle

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-41696-1

Client Sample ID: HD-MW-171-0/1-0

Date Collected: 03/03/15 13:30

Date Received: 03/04/15 10:30

Lab Sample ID: 180-41696-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	134740	03/04/15 17:21	KLG	TAL PIT
Instrument ID: CHHP5										

Client Sample ID: TRIP BLANK

Date Collected: 03/03/15 00:00

Date Received: 03/04/15 10:30

Lab Sample ID: 180-41696-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	134740	03/04/15 13:20	KLG	TAL PIT
Instrument ID: CHHP5										

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Analysis

KLG = Kathy Gordon

Certification Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-41696-1

Laboratory: TestAmerica Pittsburgh

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Pennsylvania	NELAP	3	02-00416	04-30-15

Method Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-41696-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT

Protocol References:

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

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Sample Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-41696-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-41696-1	HD-MW-175-0/1-0	Water	03/02/15 15:25	03/04/15 10:30
180-41696-2	HD-MW-172-0/1-0	Water	03/02/15 15:40	03/04/15 10:30
180-41696-3	HD-MW-173-0/1-0	Water	03/03/15 11:00	03/04/15 10:30
180-41696-4	HD-MW-174-0/1-0	Water	03/03/15 11:20	03/04/15 10:30
180-41696-5	HD-MW-166-0/1-0	Water	03/03/15 11:45	03/04/15 10:30
180-41696-6	HD-MW-167-0/1-0	Water	03/03/15 12:00	03/04/15 10:30
180-41696-7	HD-MW-171-0/1-0	Water	03/03/15 13:30	03/04/15 10:30
180-41696-8	TRIP BLANK	Water	03/03/15 00:00	03/04/15 10:30

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1

SDG No.: _____

Instrument ID: CHHP5 Analysis Batch Number: 134613Lab Sample ID: IC 180-134613/8 Client Sample ID: _____Date Analyzed: 03/03/15 14:28 Lab File ID: 50303008.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TBA-d9 (IS)	4.31	Peak Tail	fergusond	03/04/15 09:28
1,4-Dioxane	8.07	Peak Tail	fergusond	03/04/15 09:20

Lab Sample ID: ICIS 180-134613/9 Client Sample ID: _____Date Analyzed: 03/03/15 14:52 Lab File ID: 50303009.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TBA-d9 (IS)	4.32	Peak Tail	fergusond	03/04/15 09:28
1,4-Dioxane	8.06	Peak Tail	fergusond	03/04/15 09:25

Lab Sample ID: IC 180-134613/10 Client Sample ID: _____Date Analyzed: 03/03/15 15:16 Lab File ID: 50303010.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TBA-d9 (IS)	4.32	Peak Tail	fergusond	03/04/15 09:31

Lab Sample ID: IC 180-134613/11 Client Sample ID: _____Date Analyzed: 03/03/15 15:40 Lab File ID: 50303011.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TBA-d9 (IS)	4.32	Peak Tail	fergusond	03/04/15 09:33
tert-Butyl alcohol	4.45	Peak Tail	fergusond	03/04/15 09:35

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1

SDG No.: _____

Instrument ID: CHHP5 Analysis Batch Number: 134613Lab Sample ID: IC 180-134613/12 Client Sample ID: _____Date Analyzed: 03/03/15 16:04 Lab File ID: 50303012.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
tert-Butyl alcohol	4.45	Peak Tail	fergusond	03/04/15 09:37

Lab Sample ID: IC 180-134613/13 Client Sample ID: _____Date Analyzed: 03/03/15 16:28 Lab File ID: 50303013.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
tert-Butyl alcohol	4.45	Peak Tail	fergusond	03/04/15 09:39

Lab Sample ID: IC 180-134613/18 Client Sample ID: _____Date Analyzed: 03/03/15 18:29 Lab File ID: 50303018.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.52	Peak Tail	fergusond	03/04/15 09:45
Cyclohexane	6.59	Split Peak	fergusond	03/04/15 09:45

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1

SDG No.: _____

Instrument ID: CHHP5 Analysis Batch Number: 134740Lab Sample ID: CCVIS 180-134740/2 Client Sample ID: _____Date Analyzed: 03/04/15 11:38 Lab File ID: 50304002.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acrolein	3.26	Baseline	fergusond	03/04/15 12:10

Lab Sample ID: LCS 180-134740/6 Client Sample ID: _____Date Analyzed: 03/04/15 13:44 Lab File ID: 50304006.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.07	Peak Tail	fergusond	03/04/15 14:14

Lab Sample ID: 180-41696-1 MS Client Sample ID: HD-MW-175-0/1-0 MSDate Analyzed: 03/04/15 14:08 Lab File ID: 50304007.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.06	Peak Tail	fergusond	03/04/15 14:31

Lab Sample ID: 180-41696-3 Client Sample ID: HD-MW-173-0/1-0Date Analyzed: 03/04/15 15:44 Lab File ID: 50304011.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.51	Poor chromatography	gordonk	03/05/15 07:50

Lab Sample ID: 180-41696-5 Client Sample ID: HD-MW-166-0/1-0Date Analyzed: 03/04/15 16:32 Lab File ID: 50304013.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.49	Poor chromatography	gordonk	03/05/15 07:53

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1

SDG No.: _____

Instrument ID: CHHP5 Analysis Batch Number: 134740Lab Sample ID: 180-41696-6 Client Sample ID: HD-MW-167-0/1-0Date Analyzed: 03/04/15 16:56 Lab File ID: 50304014.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.51	Poor chromatography	gordonk	03/05/15 07:55

Lab Sample ID: 180-41696-7 Client Sample ID: HD-MW-171-0/1-0Date Analyzed: 03/04/15 17:21 Lab File ID: 50304015.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acrylonitrile	4.58	Poor chromatography	gordonk	03/05/15 07:57
2-Hexanone	9.67	Poor chromatography	gordonk	03/05/15 07:57

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-41696-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VOA8260INT_00029	03/13/15	02/13/15	Methanol, Lot 85233	10 mL	VOA8260INTRES_00090	1 mL	1,4-Dichlorobenzene-d4	25 ug/mL
							Chlorobenzene-d5	25 ug/mL
							Fluorobenzene (IS)	25 ug/mL
							TBA-d9 (IS)	500 ug/mL
.VOA8260INTRES_00090	07/31/19		Restek, Lot A0104742		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL
VOA8260SURR_00031	03/13/15	02/13/15	Methanol, Lot 85233	100 mL	VOA8260SURRES_00062	1 mL	1,2-Dichloroethane-d4 (Surr)	25 ug/mL
							4-Bromofluorobenzene (Surr)	25 ug/mL
							Dibromofluoromethane (Surr)	25 ug/mL
							Toluene-d8 (Surr)	25 ug/mL
.VOA8260SURRES_00062	01/31/19		Restek, Lot A0100424		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VOA8260VOA2ND_00104	03/04/15	02/25/15	Methanol, Lot 85233	8 mL	VOA8260GAS2ND_00083	0.1 mL	Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
							1,1,1,2-Tetrachloroethane	25 ug/mL
					VOA8260VOA2ND_00103	1 mL	1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,2-Dibromoethane (EDB)	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,4-Dioxane	500 ug/mL
							Acrylonitrile	250 ug/mL
							Benzene	25 ug/mL
							Bromochloromethane	25 ug/mL
				Bromodichloromethane			25 ug/mL	
				Bromoform			25 ug/mL	
				Carbon disulfide			25 ug/mL	
				Carbon tetrachloride			25 ug/mL	
				Chlorobenzene			25 ug/mL	
				Chloroform			25 ug/mL	
				cis-1,2-Dichloroethene	25 ug/mL			
				cis-1,3-Dichloropropene	25 ug/mL			
				Dibromochloromethane	25 ug/mL			
				Ethylbenzene	25 ug/mL			
				Methyl tert-butyl ether	25 ug/mL			
				Methylene Chloride	25 ug/mL			
				Styrene	25 ug/mL			
				Tetrachloroethene	25 ug/mL			

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-41696-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							Trichloroethene	25 ug/mL
							Xylenes, Total	50 ug/mL
.VOA8260GAS2ND_00083	11/30/15		Restek, Lot A099261			(Purchased Reagent)	Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
.VOA8260VOA2ND_00103	03/24/15	02/24/15	Methanol, Lot 85233	10 mL	VOA8260MEGA2_00027	1 mL	1,1,1,2-Tetrachloroethane	200 ug/mL
							1,1,1-Trichloroethane	200 ug/mL
							1,1,2,2-Tetrachloroethane	200 ug/mL
							1,1,2-Trichloroethane	200 ug/mL
							1,1-Dichloroethane	200 ug/mL
							1,1-Dichloroethene	200 ug/mL
							1,2-Dibromoethane (EDB)	200 ug/mL
							1,2-Dichloroethane	200 ug/mL
							1,2-Dichloropropane	200 ug/mL
							1,4-Dioxane	4000 ug/mL
							Acrylonitrile	2000 ug/mL
							Benzene	200 ug/mL
							Bromochloromethane	200 ug/mL
							Bromodichloromethane	200 ug/mL
							Bromoform	200 ug/mL
							Carbon disulfide	200 ug/mL
							Carbon tetrachloride	200 ug/mL
							Chlorobenzene	200 ug/mL
							Chloroform	200 ug/mL
							cis-1,2-Dichloroethene	200 ug/mL
							cis-1,3-Dichloropropene	200 ug/mL
							Dibromochloromethane	200 ug/mL
							Ethylbenzene	200 ug/mL
							Methyl tert-butyl ether	200 ug/mL
							Methylene Chloride	200 ug/mL
							Styrene	200 ug/mL
							Tetrachloroethene	200 ug/mL
							Toluene	200 ug/mL
							trans-1,2-Dichloroethene	200 ug/mL
							trans-1,3-Dichloropropene	200 ug/mL
							Trichloroethene	200 ug/mL
							Xylenes, Total	400 ug/mL
..VOA8260MEGA2_00027	02/28/16		Restek, Lot A093733			(Purchased Reagent)	1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dibromoethane (EDB)	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-41696-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,4-Dioxane	40000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromochloromethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Styrene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
VOA8260VOAPRI_00102	03/04/15	02/25/15	Methanol, Lot 85233	8 mL	VOA8260GAS1ST_00086	0.1 mL	Bromomethane	25 ug/mL
							Butadiene	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Dichlorodifluoromethane	25 ug/mL
							Dichlorofluoromethane	25 ug/mL
							Trichlorofluoromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					VOA8260VOAPRI_00101	1 mL	2-Butanone (MEK)	25 ug/mL
							2-Hexanone	25 ug/mL
							4-Methyl-2-pentanone (MIBK)	25 ug/mL
							Acetone	25 ug/mL
							1,1,1,2-Tetrachloroethane	25 ug/mL
							1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,1-Dichloropropene	25 ug/mL
							1,2,3-Trichlorobenzene	25 ug/mL
							1,2,3-Trichloropropane	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-41696-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	25 ug/mL
							1,2,4-Trimethylbenzene	25 ug/mL
							1,2-Dibromo-3-Chloropropane	25 ug/mL
							1,2-Dibromoethane (EDB)	25 ug/mL
							1,2-Dichlorobenzene	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,3,5-Trimethylbenzene	25 ug/mL
							1,3-Dichlorobenzene	25 ug/mL
							1,3-Dichloropropane	25 ug/mL
							1,4-Dichlorobenzene	25 ug/mL
							1,4-Dioxane	500 ug/mL
							2,2-Dichloropropane	25 ug/mL
							2-Chlorotoluene	25 ug/mL
							2-Methyl-2-propanol	250 ug/mL
							3-Chloro-1-propene	25 ug/mL
							4-Chlorotoluene	25 ug/mL
							4-Isopropyltoluene	25 ug/mL
							Acrylonitrile	250 ug/mL
							Benzene	25 ug/mL
							Bromobenzene	25 ug/mL
							Bromochloromethane	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon disulfide	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Cyclohexane	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Dibromomethane	25 ug/mL
							Ethyl ether	25 ug/mL
							Ethyl methacrylate	25 ug/mL
							Ethylbenzene	25 ug/mL
							Hexachlorobutadiene	25 ug/mL
							Hexane	25 ug/mL
							Iodomethane	25 ug/mL
							Isobutyl alcohol	625 ug/mL
							Isopropylbenzene	25 ug/mL
							m-Xylene & p-Xylene	25 ug/mL
							Methyl acetate	125 ug/mL
							Methyl tert-butyl ether	25 ug/mL
							Methylcyclohexane	25 ug/mL
							Methylene Chloride	25 ug/mL
							n-Butylbenzene	25 ug/mL
							n-Heptane	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-41696-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Propylbenzene	25 ug/mL
							Naphthalene	25 ug/mL
							o-Xylene	25 ug/mL
							sec-Butylbenzene	25 ug/mL
							Styrene	25 ug/mL
							tert-Butylbenzene	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Tetrahydrofuran	50 ug/mL
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							trans-1,4-Dichloro-2-butene	25 ug/mL
							Trichloroethene	25 ug/mL
.VOA8260GAS1ST_00086	09/30/16		Restek, Lot A0105755			(Purchased Reagent)	Bromomethane	2000 ug/mL
							Butadiene	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
.VOA8260VOAPRI_00101	03/24/15	02/24/15	Methanol, Lot 85233	10 mL	VOA8260KET1ST_00036	0.2 mL	2-Butanone (MEK)	200 ug/mL
							2-Hexanone	200 ug/mL
							4-Methyl-2-pentanone (MIBK)	200 ug/mL
							Acetone	200 ug/mL
					VOA8260MEGA1_00027	1 mL	1,1,1,2-Tetrachloroethane	200 ug/mL
							1,1,1-Trichloroethane	200 ug/mL
							1,1,2,2-Tetrachloroethane	200 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ug/mL
							1,1,2-Trichloroethane	200 ug/mL
							1,1-Dichloroethane	200 ug/mL
							1,1-Dichloroethene	200 ug/mL
							1,1-Dichloropropene	200 ug/mL
							1,2,3-Trichlorobenzene	200 ug/mL
							1,2,3-Trichloropropane	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2,4-Trimethylbenzene	200 ug/mL
							1,2-Dibromo-3-Chloropropane	200 ug/mL
							1,2-Dibromoethane (EDB)	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Dichloroethane	200 ug/mL
							1,2-Dichloropropane	200 ug/mL
							1,3,5-Trimethylbenzene	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dichloropropane	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	4000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-41696-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2-Dichloropropane	200 ug/mL
							2-Chlorotoluene	200 ug/mL
							2-Methyl-2-propanol	2000 ug/mL
							3-Chloro-1-propene	200 ug/mL
							4-Chlorotoluene	200 ug/mL
							4-Isopropyltoluene	200 ug/mL
							Acrylonitrile	2000 ug/mL
							Benzene	200 ug/mL
							Bromobenzene	200 ug/mL
							Bromochloromethane	200 ug/mL
							Bromodichloromethane	200 ug/mL
							Bromoform	200 ug/mL
							Carbon disulfide	200 ug/mL
							Carbon tetrachloride	200 ug/mL
							Chlorobenzene	200 ug/mL
							Chloroform	200 ug/mL
							cis-1,2-Dichloroethene	200 ug/mL
							cis-1,3-Dichloropropene	200 ug/mL
							Cyclohexane	200 ug/mL
							Dibromochloromethane	200 ug/mL
							Dibromomethane	200 ug/mL
							Ethyl ether	200 ug/mL
							Ethyl methacrylate	200 ug/mL
							Ethylbenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexane	200 ug/mL
							Iodomethane	200 ug/mL
							Isobutyl alcohol	5000 ug/mL
							Isopropylbenzene	200 ug/mL
							m-Xylene & p-Xylene	200 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl tert-butyl ether	200 ug/mL
							Methylcyclohexane	200 ug/mL
							Methylene Chloride	200 ug/mL
							n-Butylbenzene	200 ug/mL
							n-Heptane	200 ug/mL
							N-Propylbenzene	200 ug/mL
							Naphthalene	200 ug/mL
							o-Xylene	200 ug/mL
							sec-Butylbenzene	200 ug/mL
							Styrene	200 ug/mL
							tert-Butylbenzene	200 ug/mL
							Tetrachloroethene	200 ug/mL
							Tetrahydrofuran	400 ug/mL
							Toluene	200 ug/mL
							trans-1,2-Dichloroethene	200 ug/mL
							trans-1,3-Dichloropropene	200 ug/mL
							trans-1,4-Dichloro-2-butene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-41696-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..VOA8260KET1ST_00036	02/28/16		Restek, Lot A093365			(Purchased Reagent)	Trichloroethene	200 ug/mL
							2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VOA8260MEGA1_00027	02/28/16		Restek, Lot A093581			(Purchased Reagent)	1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane (EDB)	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							1,4-Dioxane	40000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							2-Methyl-2-propanol	20000 ug/mL
							3-Chloro-1-propene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dibromochloromethane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-41696-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromomethane	2000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Hexane	2000 ug/mL
							Iodomethane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							n-Heptane	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Tetrahydrofuran	4000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Trichloroethene	2000 ug/mL
VOA8260VOAPRI_00102	03/04/15	02/25/15	Methanol, Lot 85233	8 mL	VOA8260VOAPRI_00101	1 mL	Xylenes, Total	50 ug/mL
.VOA8260VOAPRI_00101	03/24/15	02/24/15	Methanol, Lot 85233	10 mL	VOA8260MEGAL_00027	1 mL	Xylenes, Total	400 ug/mL
..VOA8260MEGAL_00027	02/28/16		Restek, Lot A093581		(Purchased Reagent)		Xylenes, Total	4000 ug/mL
VOAACRPRI_00003	03/31/15	03/03/15	Methanol, Lot 85233	100 mL	VOAACRORES_00064	0.125 mL	Acrolein	25 ug/mL
.VOAACRORES_00064	03/31/15		Restek, Lot A0107338		(Purchased Reagent)		Acrolein	20000 ug/mL
VOAVAPRI_00003	03/12/15	02/12/15	Methanol, Lot 85233	20 mL	VOA8260VARES_00047	0.125 mL	Vinyl acetate	25 ug/mL
.VOA8260VARES_00047	04/30/15		Restek, Lot A0106957		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
voaWEEpri Res_00003	03/30/15	03/02/15	Methanol, Lot 85233	25 mL	VOARESEE1ST_00008	0.125 mL	1,2-dichloro-4-(trifluoromethyl)benzene	25 ug/mL
							2,3,6-Trichlorotoluene	25 ug/mL
							2,4,5-Trichlorotoluene	25 ug/mL
							2,4-Dichloro-1-(triflouromethyl)-benzene	25 ug/mL
							2,5-Dichlorobenzotrifluoride	25 ug/mL
							2-Chlorobenzotrifluoride	25 ug/mL
							3-Chlorobenzotrifluoride	25 ug/mL
							3-Chlorotoluene	25 ug/mL
							4-Chlorobenzotrifluoride	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-41696-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.VOARESEE1ST_00008	02/28/15		Restek, Lot A097285			(Purchased Reagent)	1,2-dichloro-4-(trifluoromethyl)benzene	5000 ug/mL
							2,3,6-Trichlorotoluene	5000 ug/mL
							2,4,5-Trichlorotoluene	5000 ug/mL
							2,4-Dichloro-1-(trifluoromethyl)-benzene	5000 ug/mL
							2,5-Dichlorobenzotrifluoride	5000 ug/mL
							2-Chlorobenzotrifluoride	5000 ug/mL
							3-Chlorobenzotrifluoride	5000 ug/mL
							3-Chlorotoluene	5000 ug/mL
voaWket2 Rest_00001	03/08/15	02/06/15	Methanol, Lot 85233	50 mL	VOA8260KET2ND_00040	0.1 mL	2-Butanone (MEK)	25 ug/mL
							2-Hexanone	25 ug/mL
							4-Methyl-2-pentanone (MIBK)	25 ug/mL
							Acetone	25 ug/mL
.VOA8260KET2ND_00040	01/31/18		Restek, Lot A0108157			(Purchased Reagent)	2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
voaWketpri Re_00003	03/26/15	02/24/15	Methanol, Lot 85233	50 mL	VOA8260KET1ST_00037	0.125 mL	2-Butanone (MEK)	25 ug/mL
							2-Hexanone	25 ug/mL
							4-Methyl-2-pentanone (MIBK)	25 ug/mL
							Acetone	25 ug/mL
.VOA8260KET1ST_00037	02/28/16		Restek, Lot A093365			(Purchased Reagent)	2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL

Reagent

VOA8260GAS1ST_00086

RESTEK® CERTIFIED REFERENCE MATERIAL

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 Tel: (800)356-1688
 Fax: (814)353-1309

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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567645 **Lot No.:** A0105755
Description : 8260 List 1 / Std #3 Gases
8260 List 1 / Std #3 Gases 2,000 ug/ml, P&T Methanol, 1 ml/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : September 30, 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Dichlorodifluoromethane (CFC-12)	1,996.9 µg/mL	+/-	16.4920	µg/mL	Gravimetric
	CAS # 75-71-8 (Lot Q16A-86)		+/-	25.3820	µg/mL	Unstressed
	Purity 99%		+/-	28.4359	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,003.6 µg/mL	+/-	13.5945	µg/mL	Gravimetric
	CAS # 74-87-3 (Lot SHBC8470V)		+/-	23.6556	µg/mL	Unstressed
	Purity 99%		+/-	26.9268	µg/mL	Stressed
3	Vinyl chloride	2,001.1 µg/mL	+/-	27.3546	µg/mL	Gravimetric
	CAS # 75-01-4 (Lot 17542)		+/-	33.4976	µg/mL	Unstressed
	Purity 99%		+/-	35.8765	µg/mL	Stressed
4	1,3-Butadiene	1,999.9 µg/mL	+/-	23.4547	µg/mL	Gravimetric
	CAS # 106-99-0 (Lot SHBD5808V)		+/-	30.3891	µg/mL	Unstressed
	Purity 99%		+/-	32.9901	µg/mL	Stressed
5	Bromomethane (methyl bromide)	1,998.7 µg/mL	+/-	30.0266	µg/mL	Gravimetric
	CAS # 74-83-9 (Lot 101604)		+/-	35.7004	µg/mL	Unstressed
	Purity 99%		+/-	37.9363	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,000.1 µg/mL	+/-	18.0935	µg/mL	Gravimetric
	CAS # 75-00-3 (Lot SHBD1717V)		+/-	26.4730	µg/mL	Unstressed
	Purity 99%		+/-	29.4228	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	1,999.1 µg/mL	+/-	17.9677	µg/mL	Gravimetric
	CAS # 75-43-4 (Lot Q9B-58)		+/-	26.3801	µg/mL	Unstressed
	Purity 99%		+/-	29.3364	µg/mL	Stressed
8	Trichlorofluoromethane (CFC-11)	2,001.1 µg/mL	+/-	24.2299	µg/mL	Gravimetric
	CAS # 75-69-4 (Lot SHBD5121V)		+/-	30.9989	µg/mL	Unstressed
	Purity 99%		+/-	33.5557	µg/mL	Stressed

Reagent

VOA8260GAS2ND_00083



CERTIFIED REFERENCE MATERIAL

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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No.: 567645.sec Lot No.: A099261
Description: 8260 List 1 / Std #3 Gases
8260 List 1 / Std #3 Gases 2,000 ug/ml, P&T Methanol, 1 ml/ampul
Container Size: 2 mL Pkg Amt: > 1 mL
Expiration Date: November 30, 2015 Storage: 0°C or colder

CERTIFIED VALUES

Table with 7 columns: Elution Order, Compound, Grav. Conc. (weight/volume), Expanded Uncertainty (95% C.L., K=2), and three additional columns for measurement details. Rows 1-8 list various compounds like Dichlorodifluoromethane, Chloromethane, Vinyl chloride, 1,3-Butadiene, Bromomethane, Chloroethane, Dichlorofluoromethane, and Trichlorofluoromethane.

Reagent

VOA8260INTRES_00090



CERTIFIED REFERENCE MATERIAL

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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567649 **Lot No.:** A0104742
Description : 8260 Internal Standard
8260 Internal Standard 250-5,000 ug/ml, P&T Methanol, 5 ml/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : July 31, 2019 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	tert-Butyl-d9-alcohol CAS # 25725-11-5 Purity 99% (Lot I201P5)	5,003.0 µg/mL	+/- 29.0879	µg/mL	Gravimetric
			+/- 106.1005	µg/mL	Unstressed
			+/- 106.5713	µg/mL	Stressed
2	Fluorobenzene CAS # 462-06-6 Purity 99% (Lot 1380033)	250.8 µg/mL	+/- 1.4795	µg/mL	Gravimetric
			+/- 5.3247	µg/mL	Unstressed
			+/- 5.3483	µg/mL	Stressed
3	1,4-Dioxane-d8 CAS # 17647-74-4 Purity 99% (Lot 11C-596)	5,009.6 µg/mL	+/- 29.1262	µg/mL	Gravimetric
			+/- 106.2405	µg/mL	Unstressed
			+/- 106.7119	µg/mL	Stressed
4	Chlorobenzene-d5 CAS # 3114-55-4 Purity 99% (Lot PR-22736)	250.8 µg/mL	+/- 1.4795	µg/mL	Gravimetric
			+/- 5.3247	µg/mL	Unstressed
			+/- 5.3483	µg/mL	Stressed
5	1,4-Dichlorobenzene-d4 CAS # 3855-82-1 Purity 99% (Lot PR-18488)	250.8 µg/mL	+/- 1.4795	µg/mL	Gravimetric
			+/- 5.3247	µg/mL	Unstressed
			+/- 5.3483	µg/mL	Stressed

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

Reagent

VOA8260KET1ST_00036



110 Benner Circle
 Bellefonte, PA 16823-8812
 Tel: (800)356-1688
 Fax: (814)353-1309

www.restek.com



Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567642 **Lot No.:** A093365
Description : 8260 List 1 / Std #2 Ketones
8260 List 1 / Std #2 Ketones 10,000 ug/ml, P&T Methanol/Water (90:10), 1 ml/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

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

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

Reagent

VOA8260KET1ST_00037



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Catalog No. : 567642 **Lot No.:** A093365
Description : 8260 List 1 / Std #2 Ketones
8260 List 1 / Std #2 Ketones 10,000 ug/ml, P&T Methanol/Water (90:10), 1 ml/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

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

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

Reagent

VOA8260KET2ND_00040



CERTIFIED REFERENCE MATERIAL

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Catalog No. : 569721.SEC **Lot No.:** A0108157

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

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

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

Expiration Date : January 31, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone	12,504.0 µg/mL	+/-	73.2137 µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot 0902033)		+/-	665.4917 µg/mL	Unstressed
	Purity 99%		+/-	666.2255 µg/mL	Stressed
2	2-Butanone (MEK)	12,506.0 µg/mL	+/-	73.2254 µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot VEGGI)		+/-	665.5981 µg/mL	Unstressed
	Purity 99%		+/-	666.3320 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,537.3 µg/mL	+/-	73.4088 µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/-	667.2658 µg/mL	Unstressed
	Purity 99%		+/-	668.0015 µg/mL	Stressed
4	2-Hexanone	12,508.7 µg/mL	+/-	73.2410 µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot ZSVCD-FF)		+/-	665.7401 µg/mL	Unstressed
	Purity 99%		+/-	666.4741 µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)

CAS # 67-56-1/7732-18-5

Purity 99%

Reagent

VOA8260MEGA1_00027



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Catalog No. : 567641 **Lot No.:** A093581
Description : 8260 List 1 / Std #1 MegaMix
8260 List 1 / Std #1 MegaMix 1000-50,000 µg/ml, P&T Methanol, 1 ml/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Diethyl ether (ethyl ether)	2,000.0 µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 60-29-7		+/-	44.2531	µg/mL	Unstressed
	Purity 99%		+/-	44.4335	µg/mL	Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113)	1,999.9 µg/mL	+/-	11.6279	µg/mL	Gravimetric
	CAS # 76-13-1		+/-	44.2519	µg/mL	Unstressed
	Purity 97%		+/-	44.4323	µg/mL	Stressed
3	1,1-dichloroethene	2,000.0 µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 75-35-4		+/-	44.2527	µg/mL	Unstressed
	Purity 98%		+/-	44.4331	µg/mL	Stressed
4	tert-Butanol (TBA)	20,000.0 µg/mL	+/-	116.2756	µg/mL	Gravimetric
	CAS # 75-65-0		+/-	442.5291	µg/mL	Unstressed
	Purity 99%		+/-	444.3332	µg/mL	Stressed
5	Iodomethane (methyl iodide)	2,000.0 µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-88-4		+/-	44.2531	µg/mL	Unstressed
	Purity 99%		+/-	44.4335	µg/mL	Stressed
6	Allyl chloride (3-chloropropene)	2,000.0 µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 107-05-1		+/-	44.2527	µg/mL	Unstressed
	Purity 98%		+/-	44.4331	µg/mL	Stressed
7	Methyl acetate	10,000.0 µg/mL	+/-	58.1378	µg/mL	Gravimetric
	CAS # 79-20-9		+/-	221.2646	µg/mL	Unstressed
	Purity 99%		+/-	222.1666	µg/mL	Stressed
8	Carbon disulfide	2,000.0 µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 75-15-0		+/-	44.2527	µg/mL	Unstressed
	Purity 98%		+/-	44.4331	µg/mL	Stressed
9	Methylene chloride (dichloromethane)	2,000.0 µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-09-2		+/-	44.2531	µg/mL	Unstressed
	Purity 99%		+/-	44.4335	µg/mL	Stressed

10	Acrylonitrile	20,000.0	µg/mL	+/-	116.2756	µg/mL	Gravimetric
	CAS # 107-13-1				442.5291		Unstressed
	Purity 99%				444.3332		Stressed
11	Methyl-tert-butyl ether (MTBE)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 1634-04-4				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
12	cis-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-59-2				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
13	n-Hexane (C6)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 110-54-3				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
14	1,1-Dichloroethane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 75-34-3				44.2527		Unstressed
	Purity 98%				44.4331		Stressed
15	2,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 594-20-7				44.2527		Unstressed
	Purity 98%				44.4331		Stressed
16	trans-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-60-5				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
17	chloroform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 67-66-3				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
18	Isobutanol (2-Methyl-1-propanol)	50,000.0	µg/mL	+/-	290.6891	µg/mL	Gravimetric
	CAS # 78-83-1				1,106.3228		Unstressed
	Purity 99%				1,110.8331		Stressed
19	Bromochloromethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-97-5				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
20	Tetrahydrofuran	4,000.0	µg/mL	+/-	23.2563	µg/mL	Gravimetric
	CAS # 109-99-9				88.5061		Unstressed
	Purity 99%				88.8670		Stressed
21	1,1,1-trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-55-6				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
22	Cyclohexane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 110-82-7				44.2527		Unstressed
	Purity 98%				44.4331		Stressed
23	1,1-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 563-58-6				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
24	carbon tetrachloride	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 56-23-5				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
25	n-Heptane (C7)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-82-5				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
26	Benzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-43-2				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
27	1,2-Dichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 107-06-2				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
28	Trichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-01-6				44.2531		Unstressed
	Purity 99%				44.4335		Stressed

29	Methylcyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric	
	CAS # 108-87-2			+/-	44.2531		µg/mL	Unstressed
	Purity 99%			+/-	44.4335		µg/mL	Stressed
30	1,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric	
	CAS # 78-87-5			+/-	44.2531		µg/mL	Unstressed
	Purity 99%			+/-	44.4335		µg/mL	Stressed
31	1,4-Dioxane	40,000.0	µg/mL	+/-	232.5513	µg/mL	Gravimetric	
	CAS # 123-91-1			+/-	885.0582		µg/mL	Unstressed
	Purity 99%			+/-	888.6665		µg/mL	Stressed
32	Dibromomethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric	
	CAS # 74-95-3			+/-	44.2531		µg/mL	Unstressed
	Purity 99%			+/-	44.4335		µg/mL	Stressed
33	bromodichloromethane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric	
	CAS # 75-27-4			+/-	44.2540		µg/mL	Unstressed
	Purity 97%			+/-	44.4344		µg/mL	Stressed
34	cis-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric	
	CAS # 10061-01-5			+/-	44.2531		µg/mL	Unstressed
	Purity 99%			+/-	44.4335		µg/mL	Stressed
35	Toluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric	
	CAS # 108-88-3			+/-	44.2531		µg/mL	Unstressed
	Purity 99%			+/-	44.4335		µg/mL	Stressed
36	Ethyl methacrylate	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric	
	CAS # 97-63-2			+/-	44.2531		µg/mL	Unstressed
	Purity 99%			+/-	44.4335		µg/mL	Stressed
37	trans-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric	
	CAS # 10061-02-6			+/-	44.2540		µg/mL	Unstressed
	Purity 97%			+/-	44.4344		µg/mL	Stressed
38	1,1,2-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric	
	CAS # 79-00-5			+/-	44.2531		µg/mL	Unstressed
	Purity 99%			+/-	44.4335		µg/mL	Stressed
39	1,3-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric	
	CAS # 142-28-9			+/-	44.2531		µg/mL	Unstressed
	Purity 99%			+/-	44.4335		µg/mL	Stressed
40	Tetrachloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric	
	CAS # 127-18-4			+/-	44.2531		µg/mL	Unstressed
	Purity 99%			+/-	44.4335		µg/mL	Stressed
41	dibromochloromethane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric	
	CAS # 124-48-1			+/-	44.2527		µg/mL	Unstressed
	Purity 98%			+/-	44.4331		µg/mL	Stressed
42	1,2-Dibromoethane (EDB)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric	
	CAS # 106-93-4			+/-	44.2531		µg/mL	Unstressed
	Purity 99%			+/-	44.4335		µg/mL	Stressed
43	Chlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric	
	CAS # 108-90-7			+/-	44.2531		µg/mL	Unstressed
	Purity 99%			+/-	44.4335		µg/mL	Stressed
44	1,1,1,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric	
	CAS # 630-20-6			+/-	44.2531		µg/mL	Unstressed
	Purity 99%			+/-	44.4335		µg/mL	Stressed
45	m-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric	
	CAS # 108-38-3			+/-	22.1265		µg/mL	Unstressed
	Purity 99%			+/-	22.2167		µg/mL	Stressed
46	p-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric	
	CAS # 106-42-3			+/-	22.1265		µg/mL	Unstressed
	Purity 99%			+/-	22.2167		µg/mL	Stressed
47	o-Xylene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric	
	CAS # 95-47-6			+/-	44.2531		µg/mL	Unstressed
	Purity 99%			+/-	44.4335		µg/mL	Stressed

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

67	1,2-Dichlorobenzene CAS # 95-50-1 Purity 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane CAS # 96-12-8 Purity 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene CAS # 120-82-1 Purity 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene CAS # 87-68-3 Purity 97%	2,000.0 µg/mL	+/- 11.6284 +/- 44.2540 +/- 44.4344	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene CAS # 91-20-3 Purity 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
72	1,2,3-Trichlorobenzene CAS # 87-61-6 Purity 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
Solvent:	P&T Methanol CAS # 67-56-1 Purity 99%				

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

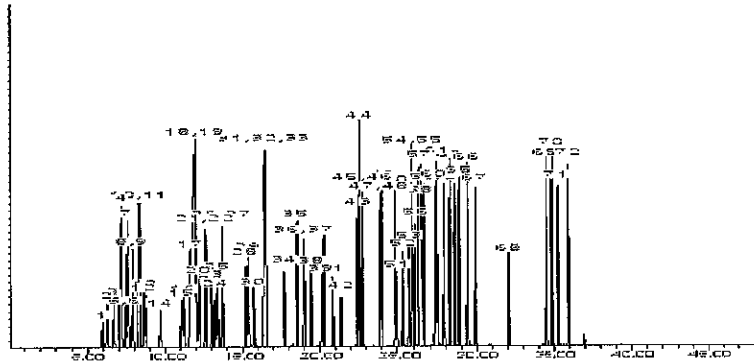
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



Jennifer L. Pollino
Jennifer L. Pollino - QC Analyst

Date Passed: 01-Mar-2013

Balance: B251644995

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

Reagent

VOA8260MEGA2_00027



110 Benner Circle
 Bellefonte, PA 16823-8812
 Tel: (800)356-1688
 Fax: (814)353-1309

www.restek.com



Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 567641.sec **Lot No.:** A093733
Description : 8260 List 1 / Std #1 MegaMix
8260 List 1 / Std #1 MegaMix 1,000-50,000 µg/ml, P&T Methanol, 1 ml/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

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

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

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

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

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

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

Column:

60m x .25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant pressure 30 psi

Temp. Program:

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

Inj. Temp:

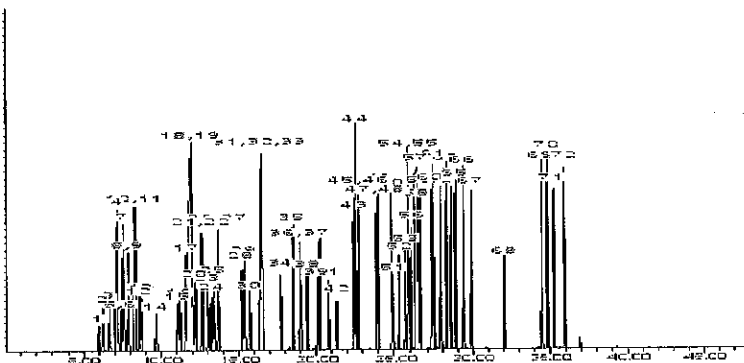
200°C

Det. Temp:

250°C

Det. Type:

MSD



Jennifer L. Pollino
Jennifer L. Pollino - QC Analyst

Date Passed: 01-Mar-2013

Balance: 1127510105

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

Reagent

VOA8260SURRES_00062

RESTEK CERTIFIED REFERENCE MATERIAL

110 Benner Circle
 Bellefonte, PA 16823-8812
 Tel: (800)356-1688
 Fax: (814)353-1309

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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567650 **Lot No.:** A0100424
Description : 8260 Surrogate Standard
8260 Surrogate Standard 2,500 ug/ml, P&T Methanol, 5 ml/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2019 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dibromofluoromethane CAS # 1868-53-7 Purity 99% (Lot 022012)	2,502.2 µg/mL	+/-	14.5480	µg/mL Gravimetric
			+/-	28.2159	µg/mL Unstressed
			+/-	32.4683	µg/mL Stressed
2	1,2-Dichloroethane-d4 CAS # 17060-07-0 Purity 99% (Lot 12K-027)	2,501.2 µg/mL	+/-	14.5422	µg/mL Gravimetric
			+/-	28.2046	µg/mL Unstressed
			+/-	32.4554	µg/mL Stressed
3	Toluene-d8 CAS # 2037-26-5 Purity 99% (Lot 13I-050)	2,500.8 µg/mL	+/-	14.5399	µg/mL Gravimetric
			+/-	28.2001	µg/mL Unstressed
			+/-	32.4502	µg/mL Stressed
4	1-Bromo-4-fluorobenzene (BFB) CAS # 460-00-4 Purity 99% (Lot 01127COV)	2,501.4 µg/mL	+/-	14.5434	µg/mL Gravimetric
			+/-	28.2069	µg/mL Unstressed
			+/-	32.4580	µg/mL Stressed

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

Reagent

VOA8260VARES_00047



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
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Fax: (814)353-1309

Certificate of Analysis

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567646 **Lot No.:** A0106957

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

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

Expiration Date : April 30, 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Vinyl acetate CAS # 108-05-4 Purity 99% (Lot STBC8935V)	4,027.0 µg/mL	+/-	23.6327	µg/mL	Gravimetric
			+/-	214.3321	µg/mL	Unstressed
			+/-	214.5684	µg/mL	Stressed

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

Tech Tips:

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

Reagent

VOAACRORES_00064



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

Certificate of Analysis

www.restek.com



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 568720 **Lot No.:** A0107338

Description : 8260 List 1/Std #5 Acrolein High
8260 List 1/Std #5 Acrolein High 19,750 µg/ml, Water, 1 ml/ampul

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

Expiration Date : March 31, 2015 **Storage:** 10°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acrolein CAS # 107-02-8 Purity 99% (Lot 140429JLM)	19,759.0 µg/mL	+/- 115.6933 µg/mL +/- 633.5357 µg/mL +/- 736.4159 µg/mL	Gravimetric Unstressed Stressed

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

Reagent

VOARESEE1ST_00008

RESTEK CERTIFIED REFERENCE MATERIAL

110 Benner Circle
 Bellefonte, PA 16823-8812
 Tel: (800)356-1688
 Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 568363-FL Lot No.: A097285
 Description : Custom EE Standard
 Custom EE Standard 5,000µg/mL, P&T Methanol, 1mL/ampul
 Container Size : 2 mL Pkg Amt: > 1 mL
 Expiration Date : February 28, 2015 Storage: 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	3-Chlorobenzotrifluoride	5,001.0 µg/mL	+/-	29.3487	µg/mL	Gravimetric
	CAS # 98-15-7 (Lot 21324DO)		+/-	53.0822	µg/mL	Unstressed
	Purity 99%		+/-	61.7282	µg/mL	Stressed
2	4-Chlorobenzotrifluoride	5,003.0 µg/mL	+/-	29.3604	µg/mL	Gravimetric
	CAS # 98-56-6 (Lot 08507BO)		+/-	53.1034	µg/mL	Unstressed
	Purity 99%		+/-	61.7529	µg/mL	Stressed
3	2-Chlorobenzotrifluoride	5,005.0 µg/mL	+/-	29.3721	µg/mL	Gravimetric
	CAS # 88-16-4 (Lot I0316DQ)		+/-	53.1247	µg/mL	Unstressed
	Purity 99%		+/-	61.7775	µg/mL	Stressed
4	3-Chlorotoluene	5,000.0 µg/mL	+/-	29.3428	µg/mL	Gravimetric
	CAS # 108-41-8 (Lot 13528LX)		+/-	53.0716	µg/mL	Unstressed
	Purity 99%		+/-	61.7158	µg/mL	Stressed
5	2,4-Dichlorobenzotrifluoride	5,002.0 µg/mL	+/-	29.3545	µg/mL	Gravimetric
	CAS # 320-60-5 (Lot MKBL3552V)		+/-	53.0928	µg/mL	Unstressed
	Purity 99%		+/-	61.7405	µg/mL	Stressed
6	3,4-Dichlorobenzotrifluoride	5,000.0 µg/mL	+/-	29.3428	µg/mL	Gravimetric
	CAS # 328-84-7 (Lot 11105EJV)		+/-	53.0716	µg/mL	Unstressed
	Purity 99%		+/-	61.7158	µg/mL	Stressed
7	2,5-Dichlorobenzotrifluoride	5,000.0 µg/mL	+/-	29.3428	µg/mL	Gravimetric
	CAS # 320-50-3 (Lot 04415DSV)		+/-	53.0716	µg/mL	Unstressed
	Purity 99%		+/-	61.7158	µg/mL	Stressed
8	2,4-Dichlorotoluene	5,002.0 µg/mL	+/-	29.3545	µg/mL	Gravimetric
	CAS # 95-73-8 (Lot 07715JS)		+/-	53.0928	µg/mL	Unstressed
	Purity 99%		+/-	61.7405	µg/mL	Stressed

9	2,5-Dichlorotoluene	(Lot 10119CU)	5,000.0	µg/mL	+/-	29.3428	µg/mL	Gravimetric
	CAS # 19398-61-9					53.0716		Unstressed
	Purity 99%					61.7158		Stressed
10	2,6-Dichlorotoluene	(Lot 16921JS)	5,001.0	µg/mL	+/-	29.3487	µg/mL	Gravimetric
	CAS # 118-69-4					53.0822		Unstressed
	Purity 99%					61.7282		Stressed
11	3,4-Dichlorotoluene	(Lot 09419AS)	5,003.0	µg/mL	+/-	29.3604	µg/mL	Gravimetric
	CAS # 95-75-0					53.1034		Unstressed
	Purity 99%					61.7529		Stressed
12	2,3-Dichlorotoluene	(Lot 00317)	5,008.0	µg/mL	+/-	29.3897	µg/mL	Gravimetric
	CAS # 32768-54-0					53.1565		Unstressed
	Purity 99%					61.8146		Stressed
13	2,4,5-Trichlorotoluene	(Lot 1767300)	5,001.0	µg/mL	+/-	29.3487	µg/mL	Gravimetric
	CAS # 6639-30-1					53.0822		Unstressed
	Purity 99%					61.7282		Stressed
14	2,3,6-Trichlorotoluene	(Lot RM01250)	5,001.0	µg/mL	+/-	29.3487	µg/mL	Gravimetric
	CAS # 2077-46-5					53.0822		Unstressed
	Purity 99%					61.7282		Stressed

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

Method 8260C Low Level

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1

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 #
HD-MW-175-0/1-0	180-41696-1	98	95	105	102
HD-MW-172-0/1-0	180-41696-2	95	97	103	101
HD-MW-173-0/1-0	180-41696-3	94	93	106	102
HD-MW-174-0/1-0	180-41696-4	96	96	106	105
HD-MW-166-0/1-0	180-41696-5	97	97	101	101
HD-MW-167-0/1-0	180-41696-6	93	97	104	104
HD-MW-171-0/1-0	180-41696-7	100	99	105	106
TRIP BLANK	180-41696-8	93	96	106	104
	MB 180-134740/3	94	95	104	104
	LCS 180-134740/6	94	97	100	92
HD-MW-175-0/1-0 MS	180-41696-1 MS	94	92	105	94
HD-MW-175-0/1-0 MSD	180-41696-1 MSD	94	96	102	95

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

QC LIMITS

70-128
64-135
71-118
70-118

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-41696-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: 50304006.D

Lab ID: LCS 180-134740/6

Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloromethane	10.0	8.72	87	50-139	
Vinyl chloride	10.0	8.59	86	53-138	
Bromomethane	10.0	10.0	100	33-150	
Chloroethane	10.0	9.55	96	36-142	
1,1-Dichloroethene	10.0	8.99	90	65-136	
Acetone	20.0	16.5	83	22-150	
Carbon disulfide	10.0	7.82	78	54-132	
Methylene Chloride	10.0	9.18	92	63-129	
trans-1,2-Dichloroethene	10.0	9.41	94	73-126	
Methyl tert-butyl ether	10.0	8.71	87	64-123	
1,1-Dichloroethane	10.0	9.19	92	73-126	
cis-1,2-Dichloroethene	10.0	9.25	93	70-120	
Bromochloromethane	10.0	8.70	87	70-127	
2-Butanone (MEK)	20.0	18.4	92	39-138	
Chloroform	10.0	9.28	93	72-127	
1,1,1-Trichloroethane	10.0	8.32	83	63-133	
Carbon tetrachloride	10.0	8.41	84	55-150	
Benzene	10.0	9.36	94	80-120	
1,2-Dichloroethane	10.0	8.99	90	68-132	
Trichloroethene	10.0	9.49	95	73-120	
1,2-Dichloropropane	10.0	9.21	92	76-124	
Bromodichloromethane	10.0	9.03	90	66-130	
cis-1,3-Dichloropropene	10.0	8.43	84	66-120	
4-Methyl-2-pentanone (MIBK)	20.0	17.1	86	45-145	
Toluene	10.0	9.64	96	80-123	
trans-1,3-Dichloropropene	10.0	8.08	81	65-125	
1,1,2-Trichloroethane	10.0	9.38	94	77-127	
Tetrachloroethene	10.0	9.39	94	70-135	
2-Hexanone	20.0	16.3	81	25-132	
Dibromochloromethane	10.0	8.89	89	60-140	
1,2-Dibromoethane (EDB)	10.0	9.30	93	74-123	
Chlorobenzene	10.0	9.41	94	80-120	
1,1,1,2-Tetrachloroethane	10.0	8.83	88	63-140	
Ethylbenzene	10.0	9.42	94	72-126	
Xylenes, Total	20.0	18.5	93	76-128	
Styrene	10.0	9.10	91	71-127	
Bromoform	10.0	8.61	86	46-150	
1,1,2,2-Tetrachloroethane	10.0	9.42	94	62-125	
1,4-Dioxane	200	194 J	97	10-160	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-41696-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: 50304007.D

Lab ID: 180-41696-1 MS

Client ID: HD-MW-175-0/1-0 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Chloromethane	10.0	1.0 U	8.18	82	50-139	
Vinyl chloride	10.0	1.0 U	8.47	85	53-138	
Bromomethane	10.0	1.0 U	8.26	83	33-150	
Chloroethane	10.0	1.0 U	8.75	88	36-142	
1,1-Dichloroethene	10.0	1.0 U	8.14	81	65-136	
Acetone	20.0	5.0 U	20.6	103	22-150	
Carbon disulfide	10.0	1.0 U	7.50	75	54-132	
Methylene Chloride	10.0	1.0 U	8.92	89	63-129	
trans-1,2-Dichloroethene	10.0	1.0 U	8.94	89	73-126	
Methyl tert-butyl ether	10.0	1.0 U	8.55	86	64-123	
1,1-Dichloroethane	10.0	1.0 U	8.81	88	73-126	
cis-1,2-Dichloroethene	10.0	1.0 U	8.51	85	70-120	
Bromochloromethane	10.0	1.0 U	8.88	89	70-127	
2-Butanone (MEK)	20.0	5.0 U	18.1	90	39-138	
Chloroform	10.0	1.9	10.6	86	72-127	
1,1,1-Trichloroethane	10.0	1.0 U	8.11	81	63-133	
Carbon tetrachloride	10.0	1.0 U	8.33	83	55-150	
Benzene	10.0	1.0 U	9.00	90	80-120	
1,2-Dichloroethane	10.0	1.0 U	8.83	88	68-132	
Trichloroethene	10.0	1.0 U	8.80	88	73-120	
1,2-Dichloropropane	10.0	1.0 U	8.92	89	76-124	
Bromodichloromethane	10.0	0.42 J	8.81	84	66-130	
cis-1,3-Dichloropropene	10.0	1.0 U	8.27	83	66-120	
4-Methyl-2-pentanone (MIBK)	20.0	5.0 U	17.3	86	45-145	
Toluene	10.0	1.0 U	9.71	97	80-123	
trans-1,3-Dichloropropene	10.0	1.0 U	8.42	84	65-125	
1,1,2-Trichloroethane	10.0	1.0 U	9.37	94	77-127	
Tetrachloroethene	10.0	1.0 U	9.43	94	70-135	
2-Hexanone	20.0	5.0 U	17.1	85	25-132	
Dibromochloromethane	10.0	0.15 J	9.18	90	60-140	
1,2-Dibromoethane (EDB)	10.0	1.0 U	9.34	93	74-123	
Chlorobenzene	10.0	1.0 U	9.37	94	80-120	
1,1,1,2-Tetrachloroethane	10.0	1.0 U	8.77	88	63-140	
Ethylbenzene	10.0	1.0 U	9.53	95	72-126	
Xylenes, Total	20.0	3.0 U	18.9	95	76-128	
Styrene	10.0	1.0 U	9.20	92	71-127	
Bromoform	10.0	1.0 U	8.75	87	46-150	
1,1,2,2-Tetrachloroethane	10.0	1.0 U	9.69	97	62-125	
1,4-Dioxane	200	200 U	199 J	99	10-160	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-41696-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: 50304008.D

Lab ID: 180-41696-1 MSD

Client ID: HD-MW-175-0/1-0 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Chloromethane	10.0	8.46	85	3	35	50-139	
Vinyl chloride	10.0	8.31	83	2	35	53-138	
Bromomethane	10.0	9.35	93	12	35	33-150	
Chloroethane	10.0	9.38	94	7	35	36-142	
1,1-Dichloroethene	10.0	8.77	88	7	35	65-136	
Acetone	20.0	20.9	104	1	35	22-150	
Carbon disulfide	10.0	7.61	76	1	35	54-132	
Methylene Chloride	10.0	9.15	91	3	35	63-129	
trans-1,2-Dichloroethene	10.0	9.10	91	2	35	73-126	
Methyl tert-butyl ether	10.0	8.91	89	4	35	64-123	
1,1-Dichloroethane	10.0	9.01	90	2	35	73-126	
cis-1,2-Dichloroethene	10.0	9.03	90	6	35	70-120	
Bromochloromethane	10.0	9.16	92	3	35	70-127	
2-Butanone (MEK)	20.0	20.3	102	12	35	39-138	
Chloroform	10.0	11.0	90	4	35	72-127	
1,1,1-Trichloroethane	10.0	8.72	87	7	35	63-133	
Carbon tetrachloride	10.0	8.62	86	3	35	55-150	
Benzene	10.0	9.23	92	3	32	80-120	
1,2-Dichloroethane	10.0	9.06	91	3	32	68-132	
Trichloroethene	10.0	9.11	91	3	35	73-120	
1,2-Dichloropropane	10.0	9.21	92	3	34	76-124	
Bromodichloromethane	10.0	9.53	91	8	35	66-130	
cis-1,3-Dichloropropene	10.0	8.64	86	4	35	66-120	
4-Methyl-2-pentanone (MIBK)	20.0	18.2	91	5	35	45-145	
Toluene	10.0	9.86	99	1	35	80-123	
trans-1,3-Dichloropropene	10.0	9.17	92	9	35	65-125	
1,1,2-Trichloroethane	10.0	9.59	96	2	35	77-127	
Tetrachloroethene	10.0	9.46	95	0	35	70-135	
2-Hexanone	20.0	17.0	85	0	35	25-132	
Dibromochloromethane	10.0	9.50	93	3	35	60-140	
1,2-Dibromoethane (EDB)	10.0	9.53	95	2	35	74-123	
Chlorobenzene	10.0	9.67	97	3	29	80-120	
1,1,1,2-Tetrachloroethane	10.0	9.19	92	5	34	63-140	
Ethylbenzene	10.0	9.34	93	2	33	72-126	
Xylenes, Total	20.0	19.1	96	1	32	76-128	
Styrene	10.0	9.39	94	2	34	71-127	
Bromoform	10.0	9.05	91	3	35	46-150	
1,1,2,2-Tetrachloroethane	10.0	9.83	98	1	35	62-125	
1,4-Dioxane	200	210	105	5	35	10-160	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Lab File ID: 50304003.D Lab Sample ID: MB 180-134740/3
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: CHHP5 Date Analyzed: 03/04/2015 12:17
 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
HD-MW-175-0/1-0	180-41696-1	50304004.D	03/04/2015 12:56
TRIP BLANK	180-41696-8	50304005.D	03/04/2015 13:20
	LCS 180-134740/6	50304006.D	03/04/2015 13:44
HD-MW-175-0/1-0 MS	180-41696-1 MS	50304007.D	03/04/2015 14:08
HD-MW-175-0/1-0 MSD	180-41696-1 MSD	50304008.D	03/04/2015 14:32
HD-MW-172-0/1-0	180-41696-2	50304010.D	03/04/2015 15:20
HD-MW-173-0/1-0	180-41696-3	50304011.D	03/04/2015 15:44
HD-MW-174-0/1-0	180-41696-4	50304012.D	03/04/2015 16:08
HD-MW-166-0/1-0	180-41696-5	50304013.D	03/04/2015 16:32
HD-MW-167-0/1-0	180-41696-6	50304014.D	03/04/2015 16:56
HD-MW-171-0/1-0	180-41696-7	50304015.D	03/04/2015 17:21

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Lab File ID: 50303006.D BFB Injection Date: 03/03/2015
 Instrument ID: CHHP5 BFB Injection Time: 12:21
 Analysis Batch No.: 134613

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	21.6
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	7.7
173	Less than 2.0 % of mass 174	0.0 (0.0)1
174	50.0 - 120.00 % of mass 95	73.0
175	5.0 - 9.0 % of mass 174	5.5 (7.5)1
176	95.0 - 101.0 % of mass 174	72.9 (99.8)1
177	5.0 - 9.0 % of mass 176	4.6 (6.3)2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 180-134613/8	50303008.D	03/03/2015	14:28
	ICIS 180-134613/9	50303009.D	03/03/2015	14:52
	IC 180-134613/10	50303010.D	03/03/2015	15:16
	IC 180-134613/11	50303011.D	03/03/2015	15:40
	IC 180-134613/12	50303012.D	03/03/2015	16:04
	IC 180-134613/13	50303013.D	03/03/2015	16:28
	IC 180-134613/14	50303014.D	03/03/2015	16:52
	IC 180-134613/18	50303018.D	03/03/2015	18:29

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Lab File ID: 50304001.D BFB Injection Date: 03/04/2015
 Instrument ID: CHHP5 BFB Injection Time: 11:01
 Analysis Batch No.: 134740

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	20.7
75	30.0 - 60.0 % of mass 95	47.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.6
173	Less than 2.0 % of mass 174	0.2 (0.2)1
174	50.0 - 120.00 % of mass 95	77.6
175	5.0 - 9.0 % of mass 174	5.9 (7.6)1
176	95.0 - 101.0 % of mass 174	74.8 (96.4)1
177	5.0 - 9.0 % of mass 176	5.5 (7.4)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 180-134740/2	50304002.D	03/04/2015	11:38
	MB 180-134740/3	50304003.D	03/04/2015	12:17
HD-MW-175-0/1-0	180-41696-1	50304004.D	03/04/2015	12:56
TRIP BLANK	180-41696-8	50304005.D	03/04/2015	13:20
	LCS 180-134740/6	50304006.D	03/04/2015	13:44
HD-MW-175-0/1-0 MS	180-41696-1 MS	50304007.D	03/04/2015	14:08
HD-MW-175-0/1-0 MSD	180-41696-1 MSD	50304008.D	03/04/2015	14:32
HD-MW-172-0/1-0	180-41696-2	50304010.D	03/04/2015	15:20
HD-MW-173-0/1-0	180-41696-3	50304011.D	03/04/2015	15:44
HD-MW-174-0/1-0	180-41696-4	50304012.D	03/04/2015	16:08
HD-MW-166-0/1-0	180-41696-5	50304013.D	03/04/2015	16:32
HD-MW-167-0/1-0	180-41696-6	50304014.D	03/04/2015	16:56
HD-MW-171-0/1-0	180-41696-7	50304015.D	03/04/2015	17:21

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Sample No.: CCVIS 180-134740/2 Date Analyzed: 03/04/2015 11:38
 Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): 50304002.D Heated Purge: (Y/N) N
 Calibration ID: 22321

	TBA		FB		CBZ		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	140255	4.32	433400	7.28	101881	10.37	
UPPER LIMIT	280510	4.82	866800	7.78	203762	10.87	
LOWER LIMIT	70128	3.82	216700	6.78	50941	9.87	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-134740/3		145696	4.30	482246	7.28	106404	10.37
180-41696-1	HD-MW-175-0/1-0	138478	4.30	480580	7.28	107103	10.37
180-41696-8	TRIP BLANK	124691	4.30	429436	7.28	98250	10.37
LCS 180-134740/6		148016	4.32	435167	7.28	104133	10.37
180-41696-1 MS	HD-MW-175-0/1-0 MS	143802	4.32	459555	7.28	106145	10.37
180-41696-1 MSD	HD-MW-175-0/1-0 MSD	147907	4.32	444935	7.28	105078	10.37
180-41696-2	HD-MW-172-0/1-0	138369	4.30	424036	7.28	99230	10.36
180-41696-3	HD-MW-173-0/1-0	115686	4.30	419761	7.28	93813	10.36
180-41696-4	HD-MW-174-0/1-0	117770	4.30	416612	7.28	92920	10.37
180-41696-5	HD-MW-166-0/1-0	101750	4.30	404390	7.28	91859	10.37
180-41696-6	HD-MW-167-0/1-0	103674	4.31	398465	7.28	89051	10.37
180-41696-7	HD-MW-171-0/1-0	120160	4.30	380117	7.28	85383	10.36

TBA = TBA-d9 (IS)
 FB = Fluorobenzene (IS)
 CBZ = Chlorobenzene-d5

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

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Sample No.: CCVIS 180-134740/2 Date Analyzed: 03/04/2015 11:38
 Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): 50304002.D Heated Purge: (Y/N) N
 Calibration ID: 22321

	DCB					
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	146266	12.69				
UPPER LIMIT	292532	13.19				
LOWER LIMIT	73133	12.19				
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 180-134740/3		165407	12.69			
180-41696-1	HD-MW-175-0/1-0	167461	12.69			
180-41696-8	TRIP BLANK	150437	12.69			
LCS 180-134740/6		142992	12.69			
180-41696-1 MS	HD-MW-175-0/1-0 MS	152929	12.69			
180-41696-1 MSD	HD-MW-175-0/1-0 MSD	150995	12.69			
180-41696-2	HD-MW-172-0/1-0	147582	12.69			
180-41696-3	HD-MW-173-0/1-0	139249	12.69			
180-41696-4	HD-MW-174-0/1-0	145182	12.69			
180-41696-5	HD-MW-166-0/1-0	142875	12.69			
180-41696-6	HD-MW-167-0/1-0	136191	12.69			
180-41696-7	HD-MW-171-0/1-0	142818	12.69			

DCB = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Client Sample ID: HD-MW-175-0/1-0 Lab Sample ID: 180-41696-1
 Matrix: Water Lab File ID: 50304004.D
 Analysis Method: 8260C Date Collected: 03/02/2015 15:25
 Sample wt/vol: 5(mL) Date Analyzed: 03/04/2015 12:56
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 134740 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.28
75-01-4	Vinyl chloride	1.0	U	1.0	0.23
74-83-9	Bromomethane	1.0	U	1.0	0.31
75-00-3	Chloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.30
67-64-1	Acetone	5.0	U	5.0	2.5
75-15-0	Carbon disulfide	1.0	U	1.0	0.21
75-09-2	Methylene Chloride	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.17
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.18
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.12
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.24
74-97-5	Bromochloromethane	1.0	U	1.0	0.18
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.55
67-66-3	Chloroform	1.9		1.0	0.17
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.29
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.14
71-43-2	Benzene	1.0	U	1.0	0.11
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
79-01-6	Trichloroethene	1.0	U	1.0	0.14
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.095
75-27-4	Bromodichloromethane	0.42	J	1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53
108-88-3	Toluene	1.0	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.15
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.20
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.16
124-48-1	Dibromochloromethane	0.15	J	1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
100-41-4	Ethylbenzene	1.0	U	1.0	0.23
1330-20-7	Xylenes, Total	3.0	U	3.0	0.49
100-42-5	Styrene	1.0	U	1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Client Sample ID: HD-MW-175-0/1-0 Lab Sample ID: 180-41696-1
 Matrix: Water Lab File ID: 50304004.D
 Analysis Method: 8260C Date Collected: 03/02/2015 15:25
 Sample wt/vol: 5(mL) Date Analyzed: 03/04/2015 12:56
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 134740 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20
107-13-1	Acrylonitrile	20	U	20	0.55
123-91-1	1,4-Dioxane	200	U	200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		64-135
2037-26-5	Toluene-d8 (Surr)	105		71-118
460-00-4	4-Bromofluorobenzene (Surr)	102		70-118
1868-53-7	Dibromofluoromethane (Surr)	98		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304004.D
 Lims ID: 180-41696-A-1 Lab Sample ID: 180-41696-1
 Client ID: HD-MW-175-0/1-0
 Sample Type: Client
 Inject. Date: 04-Mar-2015 12:56:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-41696-A-1
 Misc. Info.: 180-0005893-004
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\MMSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 04-Mar-2015 14:11:14 Calib Date: 03-Mar-2015 18:29:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303018.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: fergusond

Date: 04-Mar-2015 14:11:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.302	4.320	-0.018	97	138478	1000.0	
* 2 Fluorobenzene (IS)	96	7.277	7.277	0.000	99	480580	50.0	
* 3 Chlorobenzene-d5	119	10.367	10.367	0.000	100	107103	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.685	12.691	-0.006	98	167461	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.535	6.528	0.007	52	100680	48.9	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.900	6.900	0.000	100	120596	47.4	
\$ 7 Toluene-d8 (Surr)	98	8.926	8.925	0.001	100	438591	52.5	
\$ 8 4-Bromofluorobenzene (Surr	95	11.535	11.535	0.000	98	158505	51.0	
11 Dichlorodifluoromethane	85		1.619				ND	
12 Chloromethane	50		1.777				ND	
13 Vinyl chloride	62		1.905				ND	
14 Butadiene	39		1.948				ND	
15 Bromomethane	94		2.252				ND	
16 Chloroethane	64		2.373				ND	
17 Dichlorofluoromethane	67		2.647				ND	
18 Trichlorofluoromethane	101		2.714				ND	
19 Ethanol	45		3.012				ND	
20 Ethyl ether	59		3.091				ND	
21 Acrolein	56		3.256				ND	
22 1,1-Dichloroethene	96		3.371				ND	
23 1,1,2-Trichloro-1,2,2-trif	101		3.426				ND	
24 Acetone	43	3.517	3.493	0.024	84	7295	7.23	
25 Iodomethane	142		3.584				ND	
26 Carbon disulfide	76	3.682	3.651	0.031	33	3585	0.5205	
27 Isopropyl alcohol	45		3.736				ND	
28 3-Chloro-1-propene	76		3.931				ND	
29 Acetonitrile	40		3.943				ND	
30 Methyl acetate	43		4.016				ND	
31 Methylene Chloride	84		4.144				ND	
32 2-Methyl-2-propanol	59		4.442				ND	
33 Acrylonitrile	53		4.551				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
34 trans-1,2-Dichloroethene	96		4.570				ND	
35 Methyl tert-butyl ether	73		4.600				ND	
36 Hexane	57		4.983				ND	
37 1,1-Dichloroethane	63		5.172				ND	
38 Vinyl acetate	43		5.294				ND	
41 Isopropyl ether	45		5.300				ND	
39 2-Chloro-1,3-butadiene	53		5.300				ND	
40 Isopropyl ether TIC	45		5.409				ND	
42 Tert-butyl ethyl ether	59		5.799				ND	
44 2,2-Dichloropropane	77		5.926				ND	
45 cis-1,2-Dichloroethene	96		5.938				ND	
43 Tert-butyl ethyl ether (TI	59		5.961				ND	
46 2-Butanone (MEK)	43		5.987				ND	
48 Ethyl acetate	43		5.993				ND	
47 Propionitrile	54		6.024				ND	
49 Chlorobromomethane	128		6.230				ND	
51 Tetrahydrofuran	42		6.291				ND	
52 Chloroform	83	6.346	6.340	0.006	97	43208	9.72	
50 Methacrylonitrile	41		6.389				ND	
53 1,1,1-Trichloroethane	97		6.528				ND	
54 Cyclohexane	56		6.583				ND	
56 Carbon tetrachloride	117		6.717				ND	
55 1,1-Dichloropropene	75		6.723				ND	
57 Isobutyl alcohol	41		6.942				ND	
58 Benzene	78		6.954				ND	
59 1,2-Dichloroethane	62		6.991				ND	
61 Tert-amyl methyl ether	73		7.143				ND	
60 Tert-amyl methyl ether (TI	73		7.262				ND	
62 n-Heptane	43		7.277				ND	
63 n-Butanol	56		7.654				ND	
64 Trichloroethene	130		7.666				ND	
66 Methylcyclohexane	83		7.867				ND	
65 Ethyl acrylate	55		7.867				ND	
69 Methyl methacrylate	69		7.867				ND	
67 1,2-Dichloropropane	63		7.909				ND	
68 Dibromomethane	93		8.031				ND	
70 1,4-Dioxane	88		8.061				ND	
71 Dichlorobromomethane	83	8.208	8.201	0.007	94	5590	2.08	
72 2-Nitropropane	41		8.427				ND	
73 2-Chloroethyl vinyl ether	63		8.506				ND	
74 cis-1,3-Dichloropropene	75		8.658				ND	
75 4-Methyl-2-pentanone (MIBK	43		8.828				ND	
76 Toluene	91		8.992				ND	
77 trans-1,3-Dichloropropene	75		9.217				ND	
78 Ethyl methacrylate	69		9.321				ND	
79 1,1,2-Trichloroethane	97		9.400				ND	
80 Tetrachloroethene	164		9.540				ND	
81 1,3-Dichloropropane	76		9.570				ND	
82 2-Hexanone	43		9.661				ND	
83 n-Butyl acetate	43		9.662				ND	
84 Chlorodibromomethane	129	9.789	9.795	-0.006	2	1009	0.7598	
85 Ethylene Dibromide	107		9.899				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
86 3-Chlorobenzotrifluoride	180		10.373				ND	
87 Chlorobenzene	112		10.391				ND	
88 4-Chlorobenzotrifluoride	180		10.434				ND	
89 1,1,1,2-Tetrachloroethane	131		10.477				ND	
90 Ethylbenzene	106		10.501				ND	
91 m-Xylene & p-Xylene	106		10.623				ND	
92 o-Xylene	106		11.012				ND	
93 Styrene	104		11.030				ND	
94 Bromoform	173		11.213				ND	
96 2-Chlorobenzotrifluoride	180		11.280				ND	
95 Cyclohexanol	57		11.280				ND	
97 Isopropylbenzene	105		11.383				ND	
98 Cyclohexanone	55		11.450				ND	
99 1,1,2,2-Tetrachloroethane	83		11.675				ND	
100 Bromobenzene	156		11.687				ND	
101 1,2,3-Trichloropropane	110		11.724				ND	
102 trans-1,4-Dichloro-2-buten	53		11.736				ND	
103 N-Propylbenzene	120		11.791				ND	
104 2-Chlorotoluene	126		11.876				ND	
105 3-Chlorotoluene	126		11.937				ND	
106 1,3,5-Trimethylbenzene	105		11.967				ND	
107 4-Chlorotoluene	126		11.985				ND	
108 tert-Butylbenzene	119		12.289				ND	
109 Pentachloroethane	167		12.314				ND	
110 1,2,4-Trimethylbenzene	105		12.338				ND	
111 1,2-dichloro-4-(trifluorom	214		12.405				ND	
112 sec-Butylbenzene	105		12.509				ND	
113 1,3-Dichlorobenzene	146		12.624				ND	
114 4-Isopropyltoluene	119		12.655				ND	
119 Benzyl chloride	91		12.655				ND	
115 1,4-Dichlorobenzene	146		12.709				ND	
117 1,2,3-Trimethylbenzene	105		12.758				ND	
116 2,4-Dichloro-1-(triflourom	214		12.764				ND	
118 2,5-Dichlorobenzotrifluori	214		12.807				ND	
120 n-Butylbenzene	91		13.062				ND	
121 1,2-Dichlorobenzene	146		13.080				ND	
122 1,2-Dibromo-3-Chloropropan	75		13.865				ND	
123 2,4- & 2,5- & 2,6- Dichlor	125		14.011				ND	
124 1,3,5-Trichlorobenzene	180		14.078				ND	
125 2,3- & 3,4- Dichlorotoluen	125		14.431				ND	
126 1,2,4-Trichlorobenzene	180		14.692				ND	
127 Hexachlorobutadiene	225		14.863				ND	
128 Naphthalene	128		14.942				ND	
129 1,2,3-Trichlorobenzene	180		15.191				ND	
131 2,4,5-Trichlorotoluene	159		15.970				ND	
130 2,3,6-Trichlorotoluene	159		16.067				ND	
132 2-Methylnaphthalene	142		16.080				ND	
149 3,4-Dichlorotoluene	1		0.000				ND	
151 Isooctane	57		0.000				ND	
147 2,4-Dichlorotoluene	1		0.000				ND	
148 2,3-Dichlorotoluene	1		0.000				ND	
152 Formaldehyde TIC	1		0.000				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
150 2,6-Dichlorotoluene	1		0.000				ND	
146 2,5-Dichlorotoluene	1		0.000				ND	
S 134 1,2-Dichloroethene, Total	96		1.000				ND	
S 133 Xylenes, Total	106		1.000				ND	
S 135 1,3-Dichloropropene, Total	1		0.000				ND	
T 137 Tetrahydrofuran TIC	42		0.000				ND	
T 138 Methyl n-amyl ketone TIC	43		0.000				ND	
T 153 1,2 Epoxybutane TIC	42		0.000				ND	
T 136 Mesityl oxide TIC	83		0.000				ND	

Reagents:

VOA8260INT_00029

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00031

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304004.D

Injection Date: 04-Mar-2015 12:56:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: 180-41696-A-1

Lab Sample ID: 180-41696-1

Worklist Smp#: 4

Client ID: HD-MW-175-0/1-0

Purge Vol: 5.000 mL

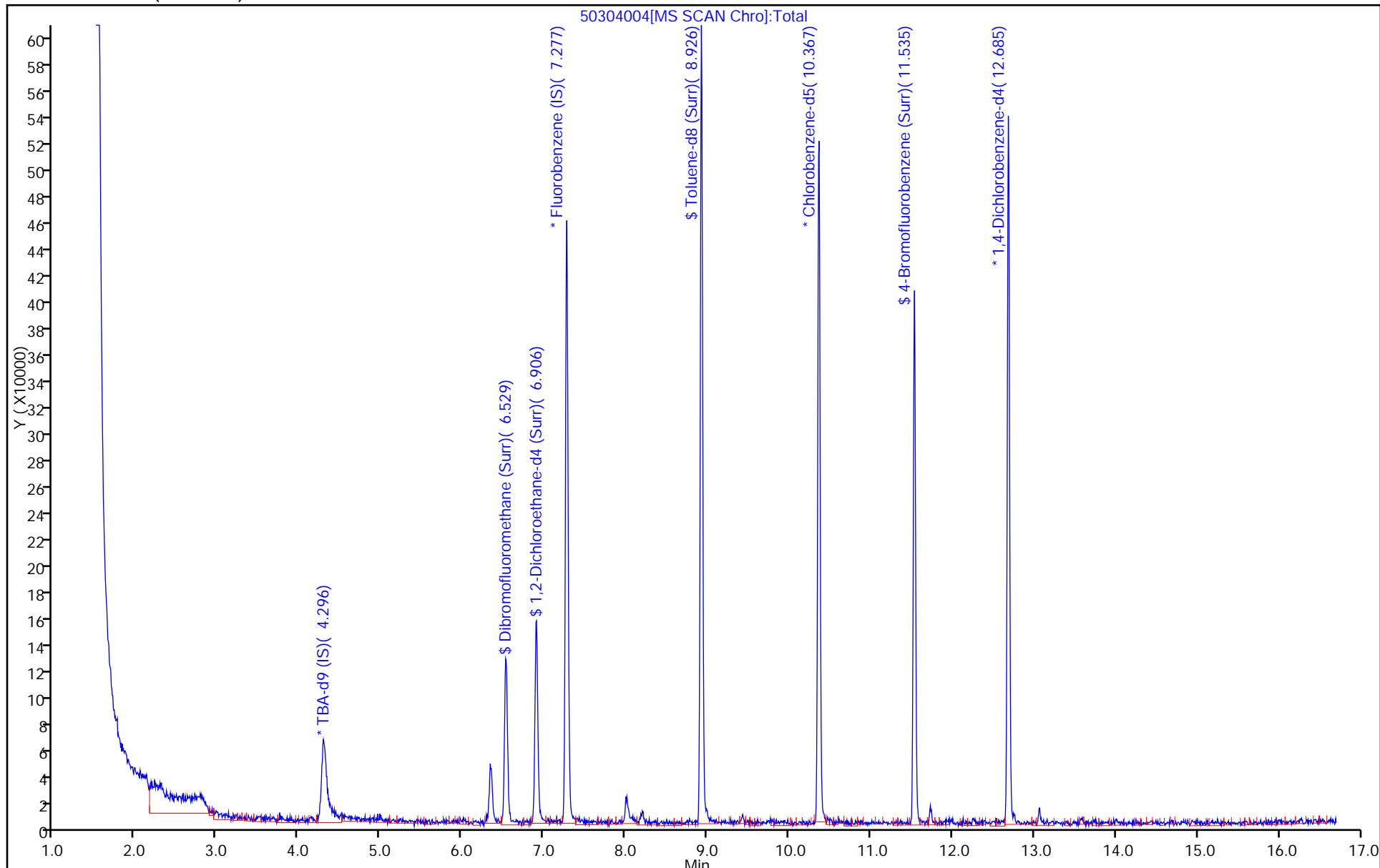
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304004.D

Injection Date: 04-Mar-2015 12:56:30

Instrument ID: CHHP5

Lims ID: 180-41696-A-1

Lab Sample ID: 180-41696-1

Client ID: HD-MW-175-0/1-0

Operator ID: 001562

ALS Bottle#: 4

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

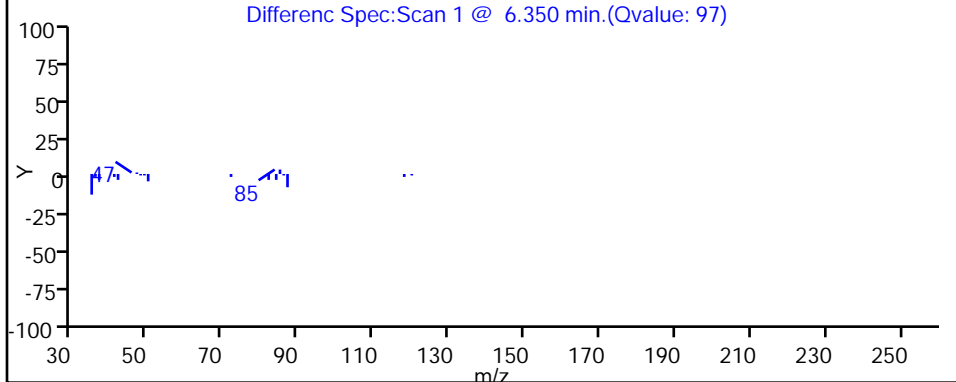
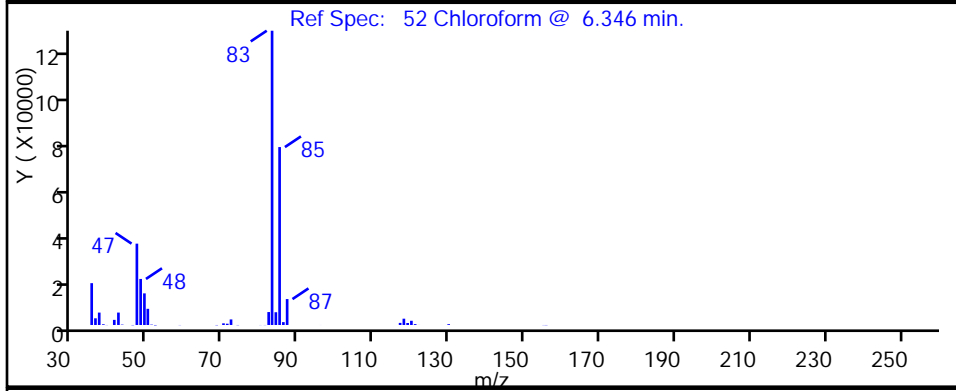
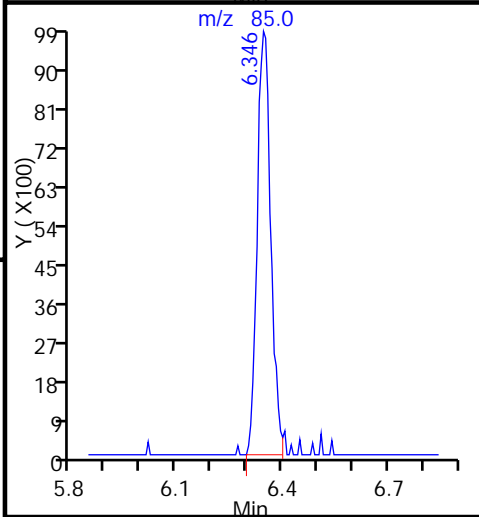
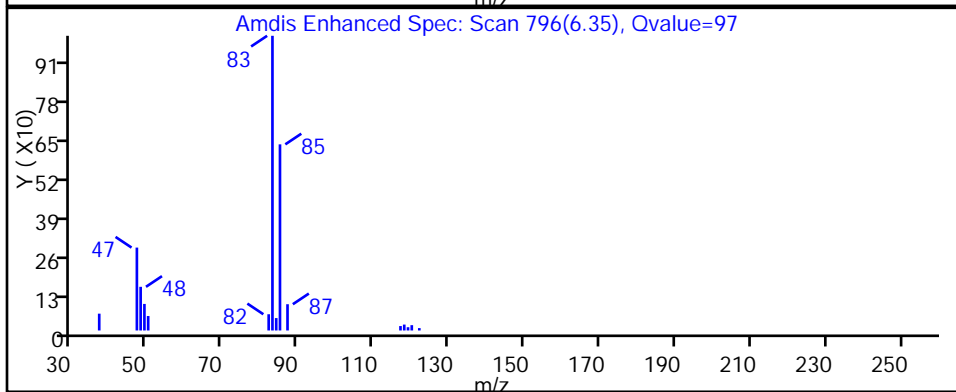
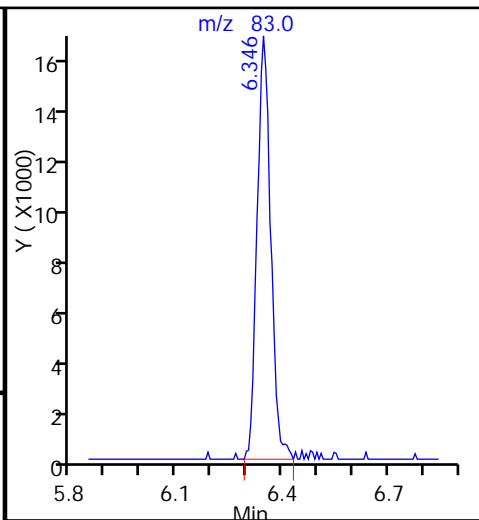
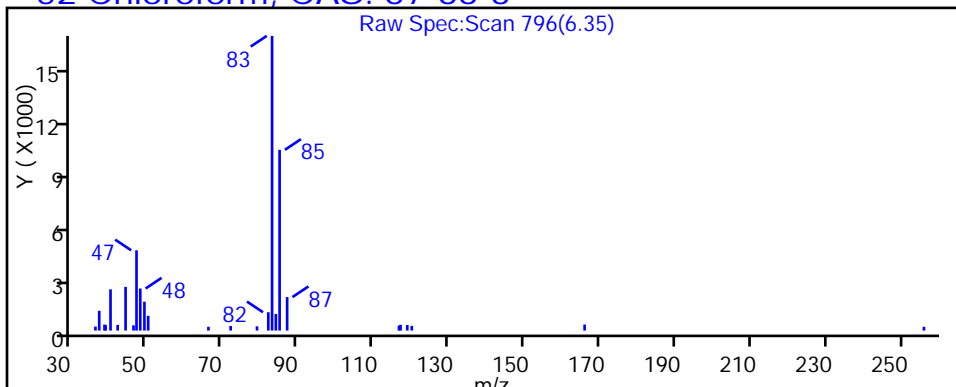
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

52 Chloroform, CAS: 67-66-3



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304004.D

Injection Date: 04-Mar-2015 12:56:30

Instrument ID: CHHP5

Lims ID: 180-41696-A-1

Lab Sample ID: 180-41696-1

Client ID: HD-MW-175-0/1-0

Operator ID: 001562

ALS Bottle#: 4

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

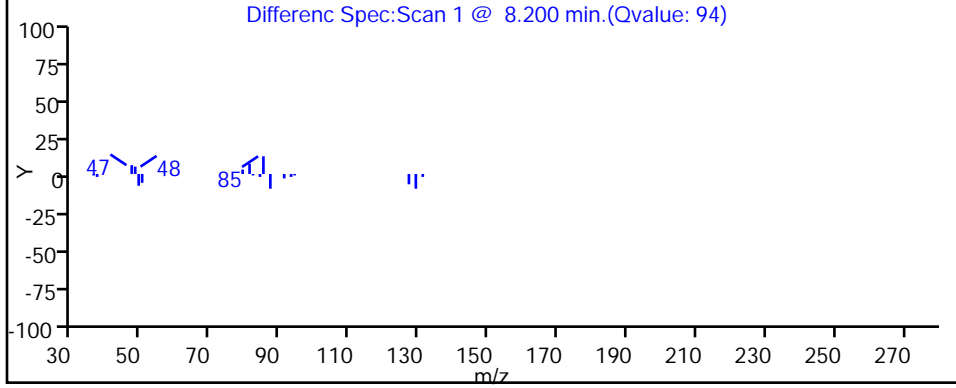
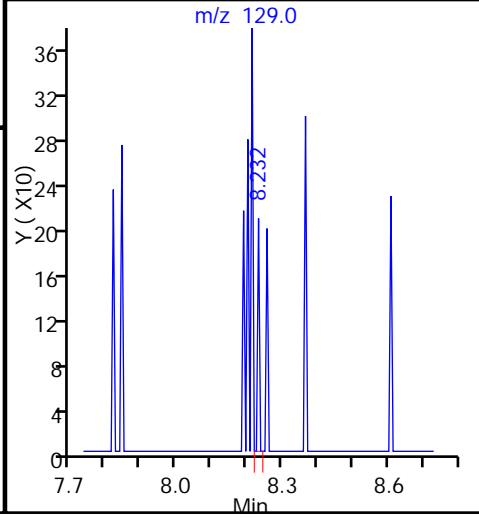
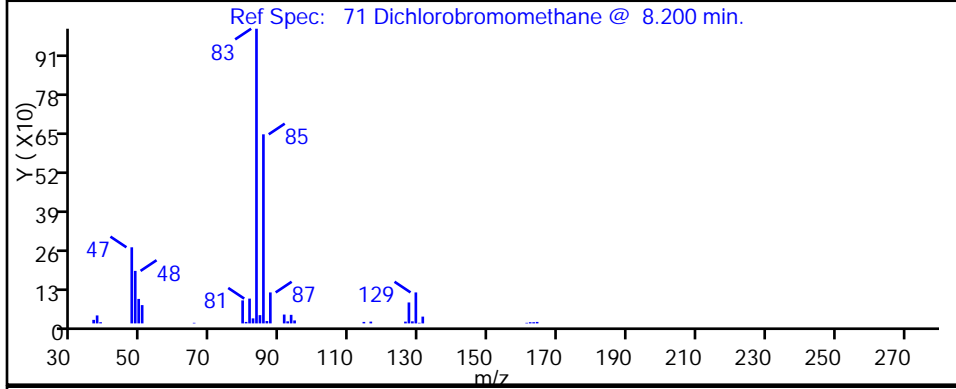
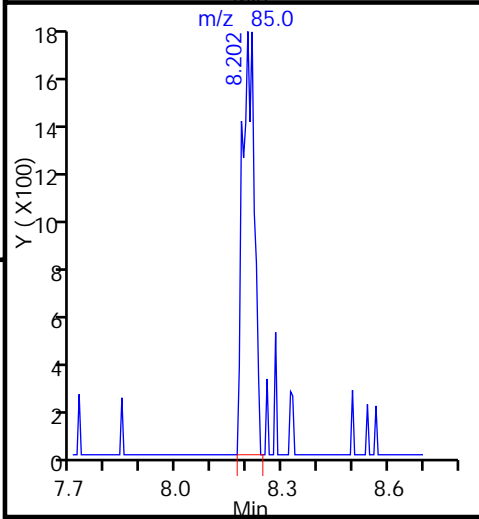
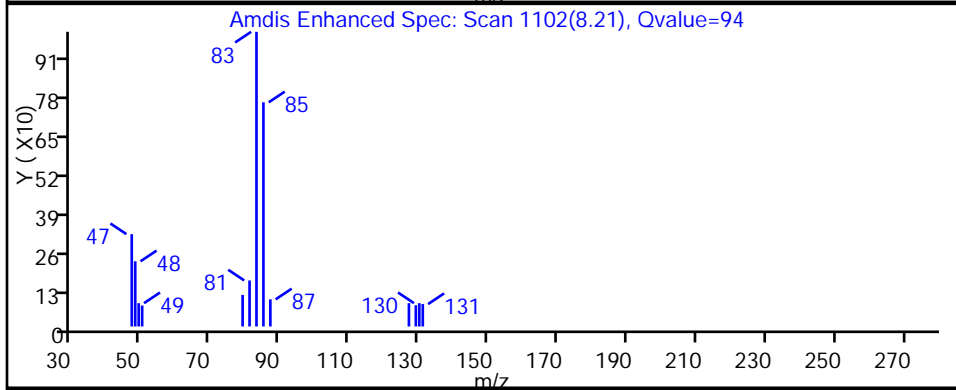
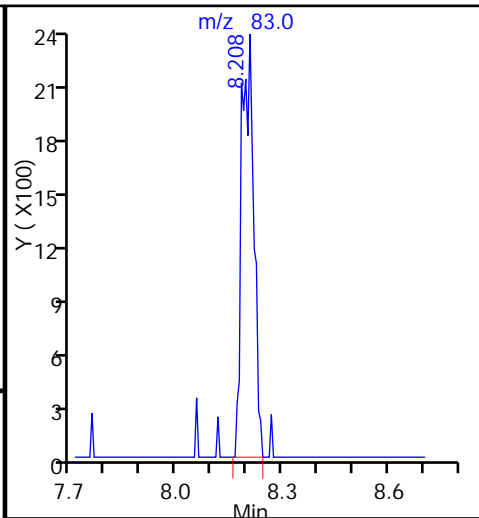
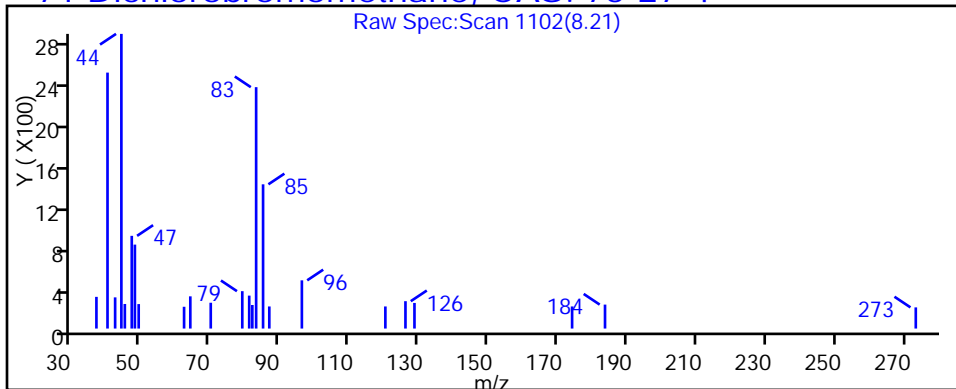
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

71 Dichlorobromomethane, CAS: 75-27-4



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304004.D

Injection Date: 04-Mar-2015 12:56:30

Instrument ID: CHHP5

Lims ID: 180-41696-A-1

Lab Sample ID: 180-41696-1

Client ID: HD-MW-175-0/1-0

Operator ID: 001562

ALS Bottle#: 4

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

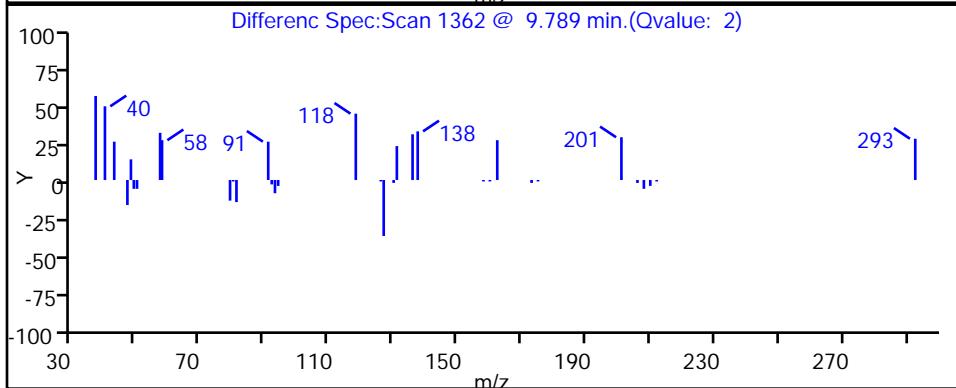
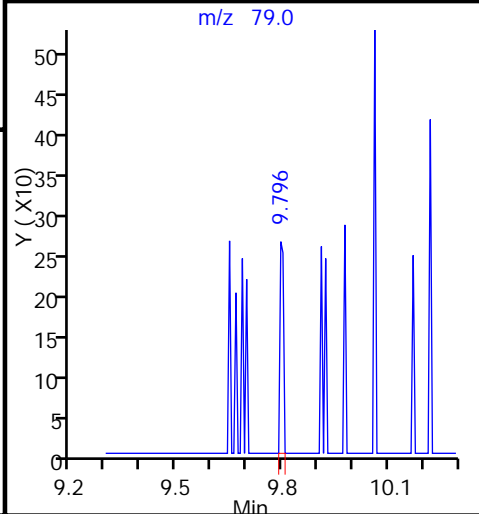
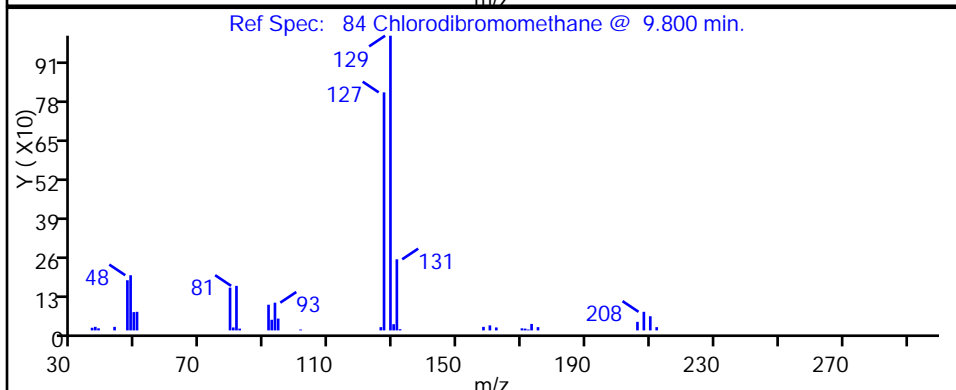
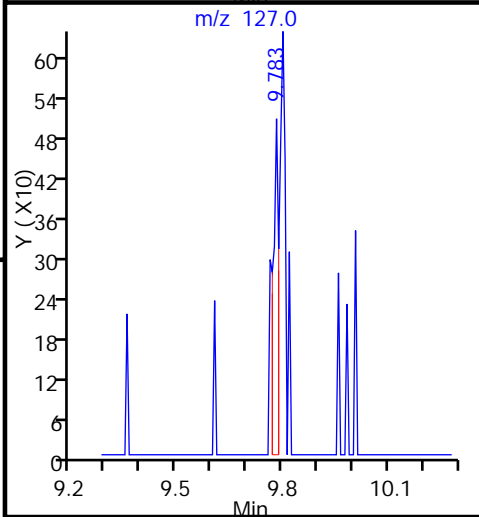
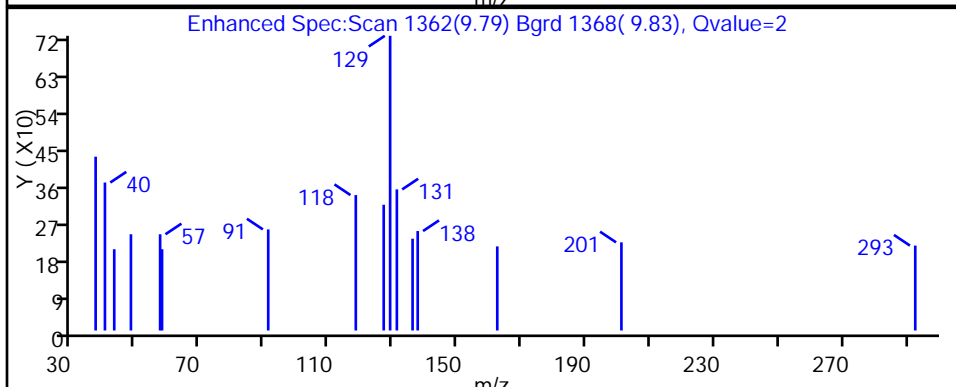
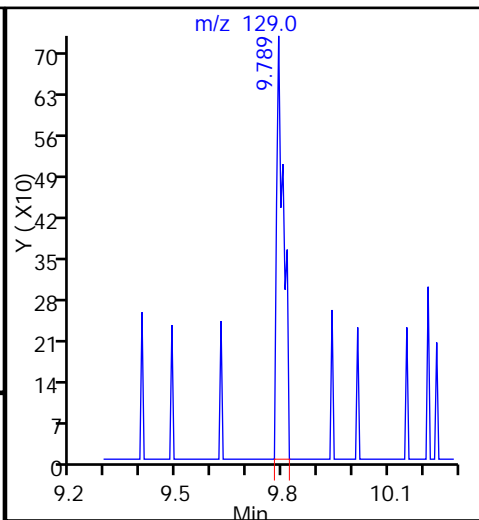
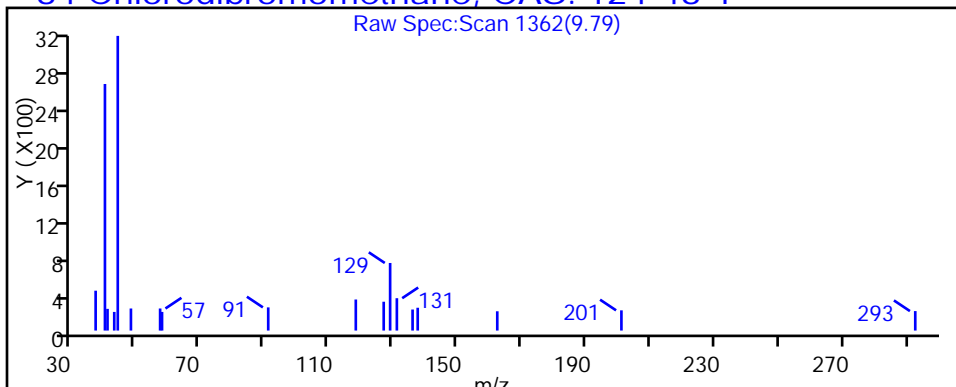
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

84 Chlorodibromomethane, CAS: 124-48-1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Client Sample ID: HD-MW-172-0/1-0 Lab Sample ID: 180-41696-2
 Matrix: Water Lab File ID: 50304010.D
 Analysis Method: 8260C Date Collected: 03/02/2015 15:40
 Sample wt/vol: 5(mL) Date Analyzed: 03/04/2015 15:20
 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.: 134740 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.28
75-01-4	Vinyl chloride	1.0	U	1.0	0.23
74-83-9	Bromomethane	1.0	U	1.0	0.31
75-00-3	Chloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.30
67-64-1	Acetone	5.0	U	5.0	2.5
75-15-0	Carbon disulfide	1.0	U	1.0	0.21
75-09-2	Methylene Chloride	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.17
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.18
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.12
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.24
74-97-5	Bromochloromethane	1.0	U	1.0	0.18
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.55
67-66-3	Chloroform	0.73	J	1.0	0.17
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.29
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.14
71-43-2	Benzene	1.0	U	1.0	0.11
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
79-01-6	Trichloroethene	1.0	U	1.0	0.14
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.095
75-27-4	Bromodichloromethane	1.0	U	1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53
108-88-3	Toluene	1.0	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.15
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.20
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.16
124-48-1	Dibromochloromethane	1.0	U	1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
100-41-4	Ethylbenzene	1.0	U	1.0	0.23
1330-20-7	Xylenes, Total	3.0	U	3.0	0.49
100-42-5	Styrene	1.0	U	1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Client Sample ID: HD-MW-172-0/1-0 Lab Sample ID: 180-41696-2
 Matrix: Water Lab File ID: 50304010.D
 Analysis Method: 8260C Date Collected: 03/02/2015 15:40
 Sample wt/vol: 5(mL) Date Analyzed: 03/04/2015 15:20
 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.: 134740 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20
107-13-1	Acrylonitrile	20	U	20	0.55
123-91-1	1,4-Dioxane	200	U	200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		64-135
2037-26-5	Toluene-d8 (Surr)	103		71-118
460-00-4	4-Bromofluorobenzene (Surr)	101		70-118
1868-53-7	Dibromofluoromethane (Surr)	95		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304010.D
 Lims ID: 180-41696-A-2 Lab Sample ID: 180-41696-2
 Client ID: HD-MW-172-0/1-0
 Sample Type: Client
 Inject. Date: 04-Mar-2015 15:20:30 ALS Bottle#: 10 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-41696-A-2
 Misc. Info.: 180-0005893-010
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\MMSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 05-Mar-2015 07:48:36 Calib Date: 03-Mar-2015 18:29:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303018.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: gordonk

Date: 05-Mar-2015 07:48:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.303	4.320	-0.017	96	138369	1000.0	
* 2 Fluorobenzene (IS)	96	7.278	7.277	0.001	99	424036	50.0	
* 3 Chlorobenzene-d5	119	10.362	10.367	-0.005	99	99230	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.686	12.691	-0.005	98	147582	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.530	6.528	0.002	52	86447	47.6	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.907	6.900	0.007	98	108463	48.3	
\$ 7 Toluene-d8 (Surr)	98	8.927	8.925	0.002	100	398020	51.5	
\$ 8 4-Bromofluorobenzene (Surr	95	11.530	11.535	-0.005	98	144807	50.3	
12 Chloromethane	50		1.777				ND	
13 Vinyl chloride	62		1.905				ND	
15 Bromomethane	94		2.252				ND	
16 Chloroethane	64		2.373				ND	
22 1,1-Dichloroethene	96		3.371				ND	
24 Acetone	43	3.506	3.493	0.013	62	7714	8.66	
26 Carbon disulfide	76	3.701	3.651	0.050	58	2354	0.3874	
31 Methylene Chloride	84		4.144				ND	
33 Acrylonitrile	53		4.551				ND	
34 trans-1,2-Dichloroethene	96		4.570				ND	
35 Methyl tert-butyl ether	73		4.600				ND	
37 1,1-Dichloroethane	63		5.172				ND	
45 cis-1,2-Dichloroethene	96		5.938				ND	
46 2-Butanone (MEK)	43		5.987				ND	
49 Chlorobromomethane	128		6.230				ND	
52 Chloroform	83	6.347	6.340	0.007	94	14311	3.65	
53 1,1,1-Trichloroethane	97		6.528				ND	
56 Carbon tetrachloride	117		6.717				ND	
58 Benzene	78		6.954				ND	
59 1,2-Dichloroethane	62		6.991				ND	
64 Trichloroethene	130		7.666				ND	
67 1,2-Dichloropropane	63		7.909				ND	
70 1,4-Dioxane	88		8.061				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.201				ND	
74 cis-1,3-Dichloropropene	75		8.658				ND	
75 4-Methyl-2-pentanone (MIBK)	43		8.828				ND	
76 Toluene	91		8.992				ND	
77 trans-1,3-Dichloropropene	75		9.217				ND	
79 1,1,2-Trichloroethane	97		9.400				ND	
80 Tetrachloroethene	164		9.540				ND	
82 2-Hexanone	43		9.661				ND	
84 Chlorodibromomethane	129		9.795				ND	
85 Ethylene Dibromide	107		9.899				ND	
87 Chlorobenzene	112		10.391				ND	
89 1,1,1,2-Tetrachloroethane	131		10.477				ND	
90 Ethylbenzene	106		10.501				ND	
91 m-Xylene & p-Xylene	106		10.623				ND	
92 o-Xylene	106		11.012				ND	
93 Styrene	104		11.030				ND	
94 Bromoform	173		11.213				ND	
99 1,1,2,2-Tetrachloroethane	83		11.675				ND	
S 133 Xylenes, Total	106		1.000				ND	

Reagents:

VOA8260INT_00029

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00031

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304010.D

Injection Date: 04-Mar-2015 15:20:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: 180-41696-A-2

Lab Sample ID: 180-41696-2

Worklist Smp#: 10

Client ID: HD-MW-172-0/1-0

Purge Vol: 5.000 mL

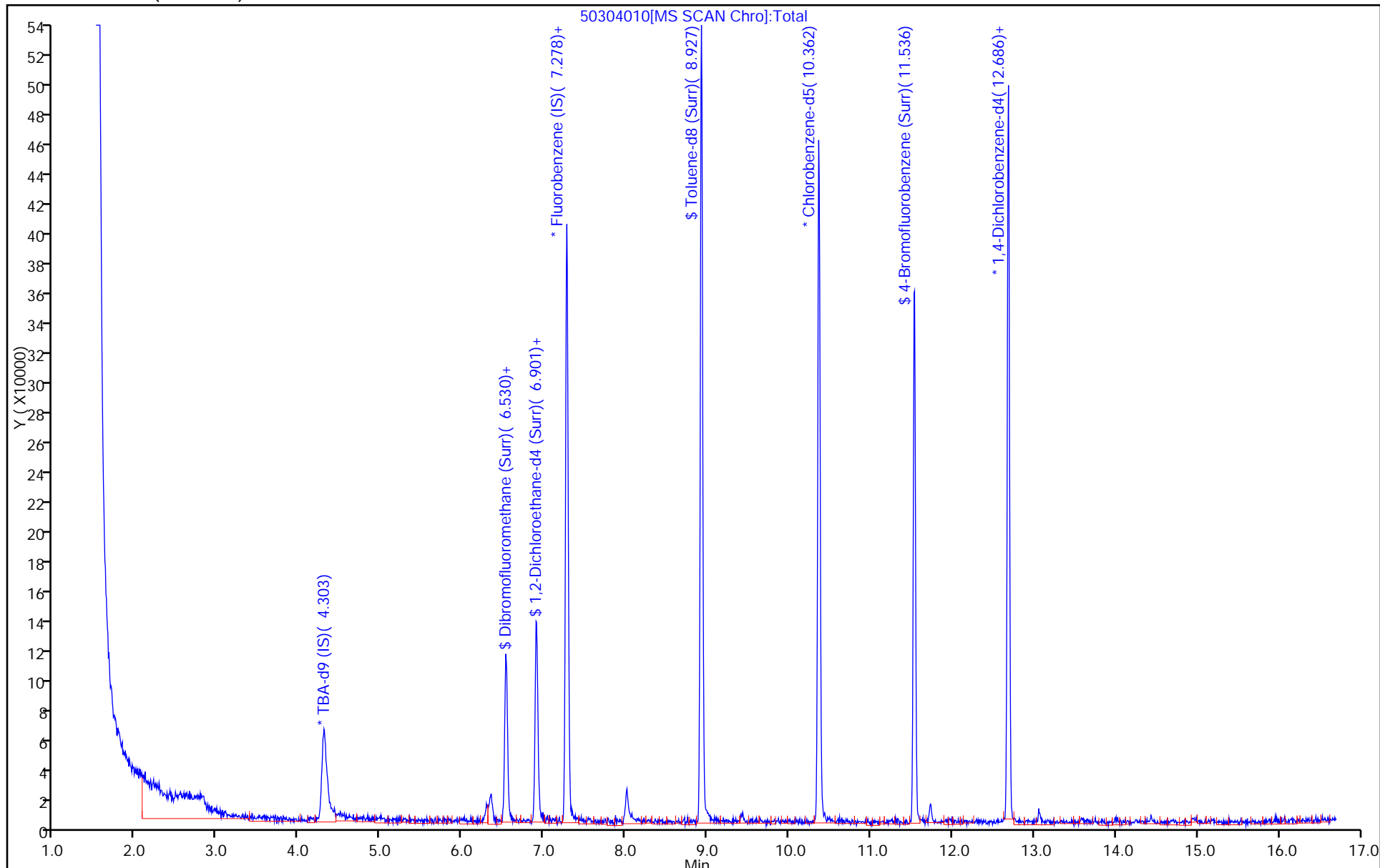
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304010.D

Injection Date: 04-Mar-2015 15:20:30

Instrument ID: CHHP5

Lims ID: 180-41696-A-2

Lab Sample ID: 180-41696-2

Client ID: HD-MW-172-0/1-0

Operator ID: 001562

ALS Bottle#: 10

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

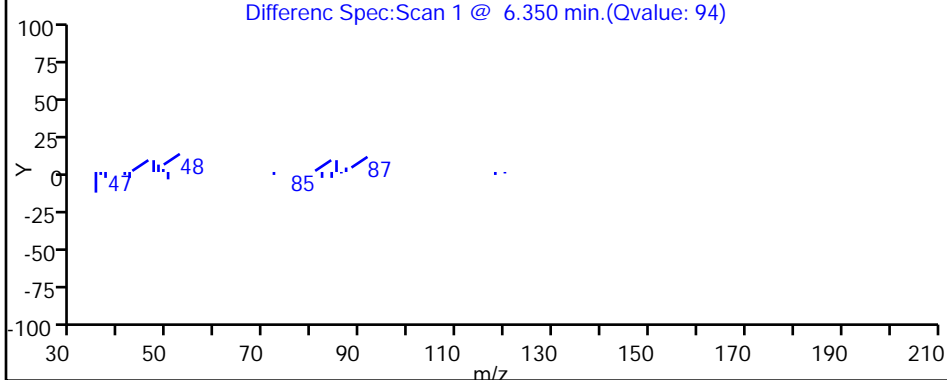
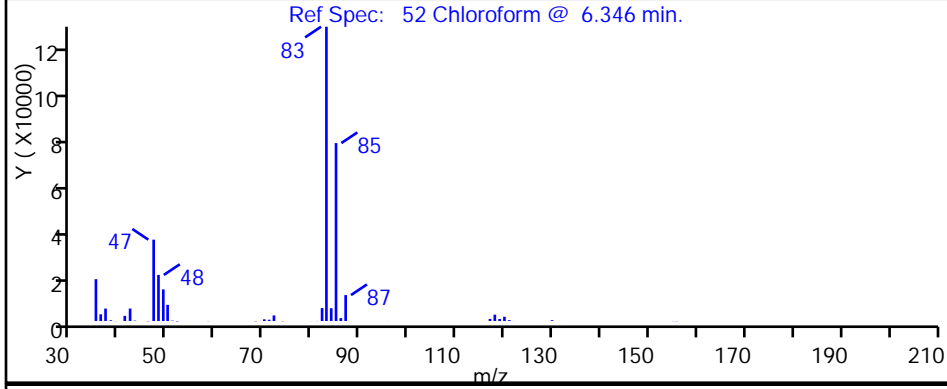
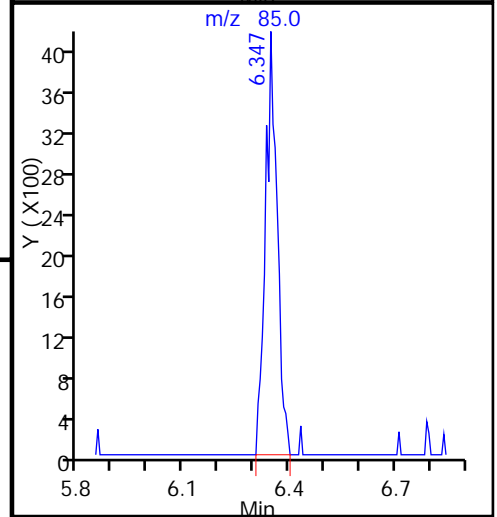
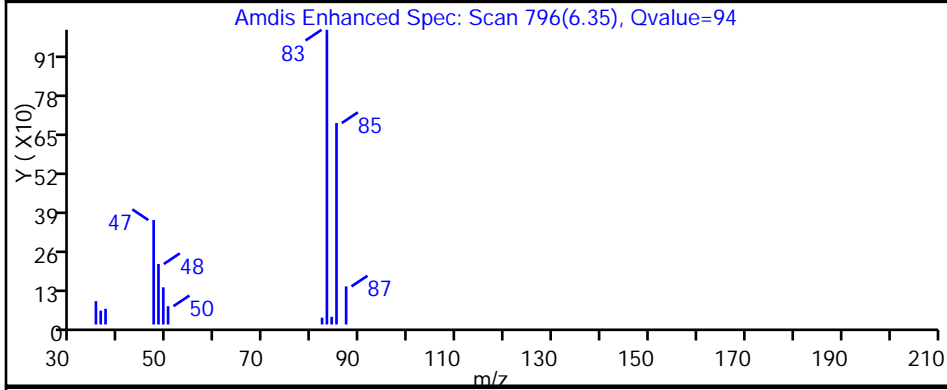
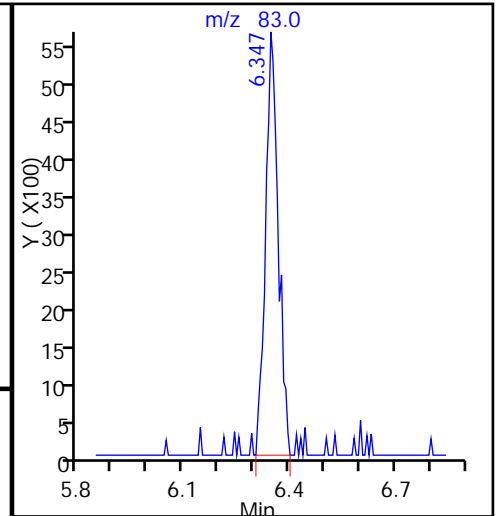
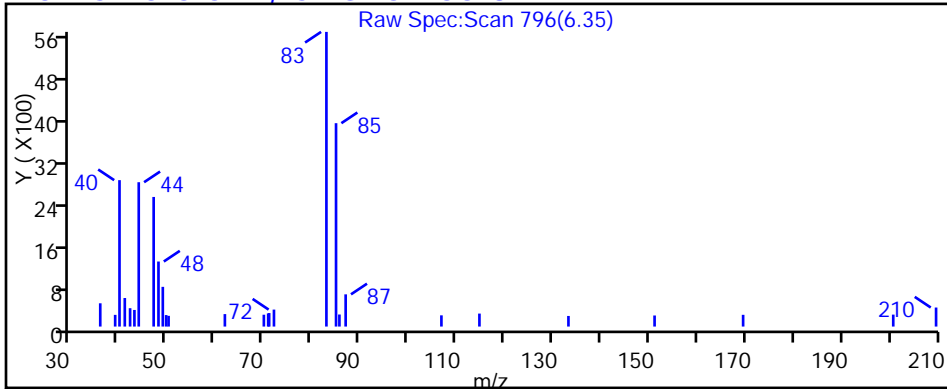
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

52 Chloroform, CAS: 67-66-3



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Client Sample ID: HD-MW-173-0/1-0 Lab Sample ID: 180-41696-3
 Matrix: Water Lab File ID: 50304011.D
 Analysis Method: 8260C Date Collected: 03/03/2015 11:00
 Sample wt/vol: 5(mL) Date Analyzed: 03/04/2015 15:44
 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.: 134740 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.28
75-01-4	Vinyl chloride	1.0	U	1.0	0.23
74-83-9	Bromomethane	1.0	U	1.0	0.31
75-00-3	Chloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.30
67-64-1	Acetone	5.0	U	5.0	2.5
75-15-0	Carbon disulfide	1.0	U	1.0	0.21
75-09-2	Methylene Chloride	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.17
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.18
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.12
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.24
74-97-5	Bromochloromethane	1.0	U	1.0	0.18
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.55
67-66-3	Chloroform	1.0	U	1.0	0.17
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.29
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.14
71-43-2	Benzene	1.0	U	1.0	0.11
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
79-01-6	Trichloroethene	1.0	U	1.0	0.14
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.095
75-27-4	Bromodichloromethane	1.0	U	1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53
108-88-3	Toluene	1.0	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.15
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.20
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.16
124-48-1	Dibromochloromethane	1.0	U	1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
100-41-4	Ethylbenzene	1.0	U	1.0	0.23
1330-20-7	Xylenes, Total	3.0	U	3.0	0.49
100-42-5	Styrene	1.0	U	1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Client Sample ID: HD-MW-173-0/1-0 Lab Sample ID: 180-41696-3
 Matrix: Water Lab File ID: 50304011.D
 Analysis Method: 8260C Date Collected: 03/03/2015 11:00
 Sample wt/vol: 5(mL) Date Analyzed: 03/04/2015 15:44
 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.: 134740 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20
107-13-1	Acrylonitrile	20	U	20	0.55
123-91-1	1,4-Dioxane	200	U	200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		64-135
2037-26-5	Toluene-d8 (Surr)	106		71-118
460-00-4	4-Bromofluorobenzene (Surr)	102		70-118
1868-53-7	Dibromofluoromethane (Surr)	94		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304011.D
 Lims ID: 180-41696-A-3 Lab Sample ID: 180-41696-3
 Client ID: HD-MW-173-0/1-0
 Sample Type: Client
 Inject. Date: 04-Mar-2015 15:44:30 ALS Bottle#: 11 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-41696-A-3
 Misc. Info.: 180-0005893-011
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\MMSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 05-Mar-2015 07:50:14 Calib Date: 03-Mar-2015 18:29:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303018.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: gordonk

Date: 05-Mar-2015 07:50:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.304	4.320	-0.016	97	115686	1000.0	
* 2 Fluorobenzene (IS)	96	7.279	7.277	0.002	99	419761	50.0	
* 3 Chlorobenzene-d5	119	10.363	10.367	-0.004	100	93813	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.687	12.691	-0.004	98	139249	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.531	6.528	0.003	53	84837	47.2	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.908	6.900	0.008	99	103036	46.4	
\$ 7 Toluene-d8 (Surr)	98	8.928	8.925	0.003	100	387197	52.9	
\$ 8 4-Bromofluorobenzene (Surr	95	11.531	11.535	-0.004	98	139404	51.2	
12 Chloromethane	50		1.777				ND	
13 Vinyl chloride	62		1.905				ND	
15 Bromomethane	94		2.252				ND	
16 Chloroethane	64		2.373				ND	
22 1,1-Dichloroethene	96		3.371				ND	
24 Acetone	43	3.513	3.493	0.020	63	3745	4.25	M
26 Carbon disulfide	76		3.651				ND	
31 Methylene Chloride	84		4.144				ND	
33 Acrylonitrile	53		4.551				ND	
34 trans-1,2-Dichloroethene	96		4.570				ND	
35 Methyl tert-butyl ether	73		4.600				ND	
37 1,1-Dichloroethane	63		5.172				ND	
45 cis-1,2-Dichloroethene	96		5.938				ND	
46 2-Butanone (MEK)	43		5.987				ND	
49 Chlorobromomethane	128		6.230				ND	
52 Chloroform	83		6.340				ND	
53 1,1,1-Trichloroethane	97		6.528				ND	
56 Carbon tetrachloride	117		6.717				ND	
58 Benzene	78		6.954				ND	
59 1,2-Dichloroethane	62		6.991				ND	
64 Trichloroethene	130		7.666				ND	
67 1,2-Dichloropropane	63		7.909				ND	
70 1,4-Dioxane	88		8.061				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.201					ND
74 cis-1,3-Dichloropropene	75		8.658					ND
75 4-Methyl-2-pentanone (MIBK)	43		8.828					ND
76 Toluene	91		8.992					ND
77 trans-1,3-Dichloropropene	75		9.217					ND
79 1,1,2-Trichloroethane	97		9.400					ND
80 Tetrachloroethene	164		9.540					ND
82 2-Hexanone	43		9.661					ND
84 Chlorodibromomethane	129		9.795					ND
85 Ethylene Dibromide	107		9.899					ND
87 Chlorobenzene	112		10.391					ND
89 1,1,1,2-Tetrachloroethane	131		10.477					ND
90 Ethylbenzene	106		10.501					ND
91 m-Xylene & p-Xylene	106		10.623					ND
92 o-Xylene	106		11.012					ND
93 Styrene	104		11.030					ND
94 Bromoform	173		11.213					ND
99 1,1,2,2-Tetrachloroethane	83		11.675					ND
S 133 Xylenes, Total	106		1.000					ND

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00029

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00031

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304011.D

Injection Date: 04-Mar-2015 15:44:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: 180-41696-A-3

Lab Sample ID: 180-41696-3

Worklist Smp#: 11

Client ID: HD-MW-173-0/1-0

Purge Vol: 5.000 mL

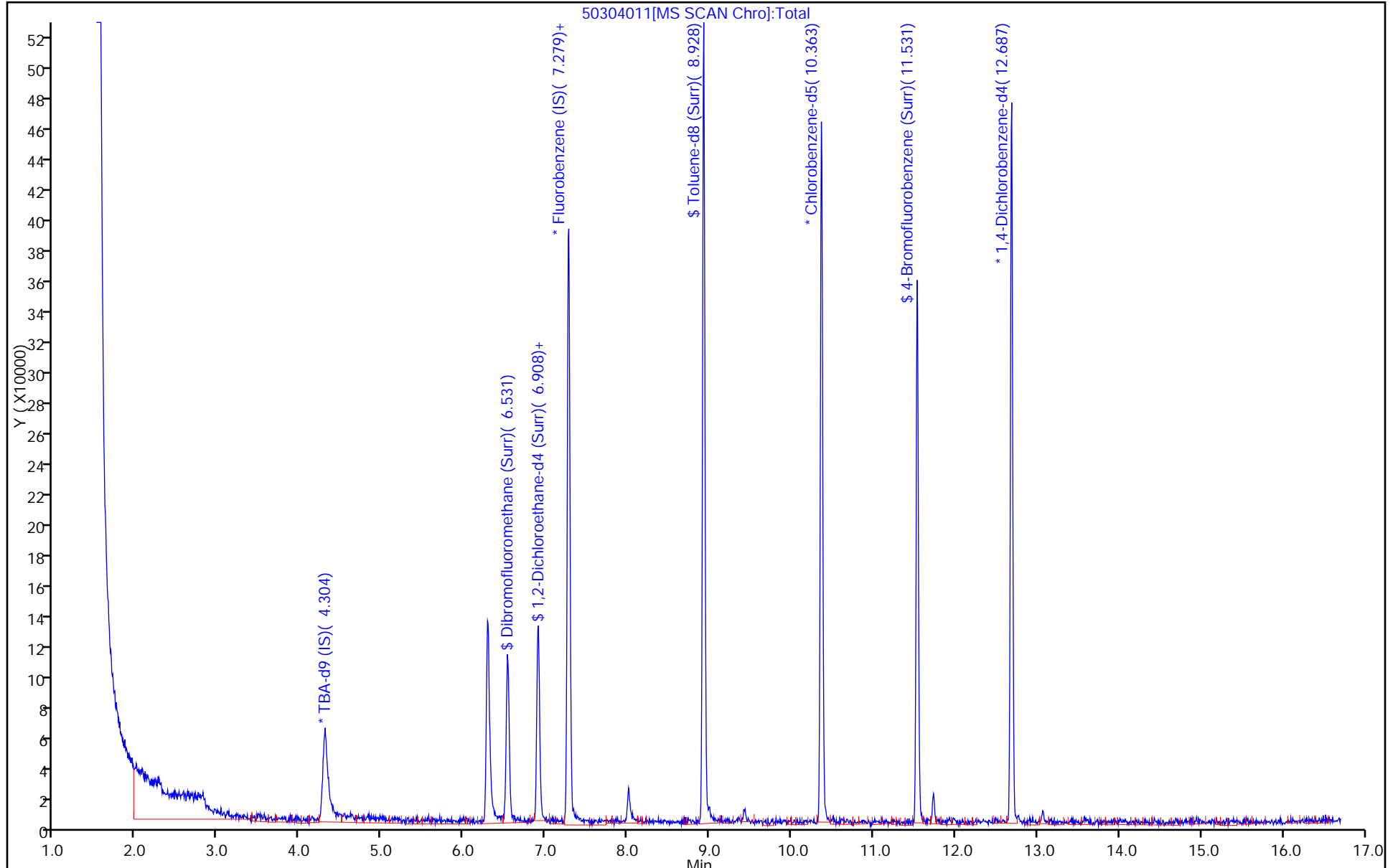
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



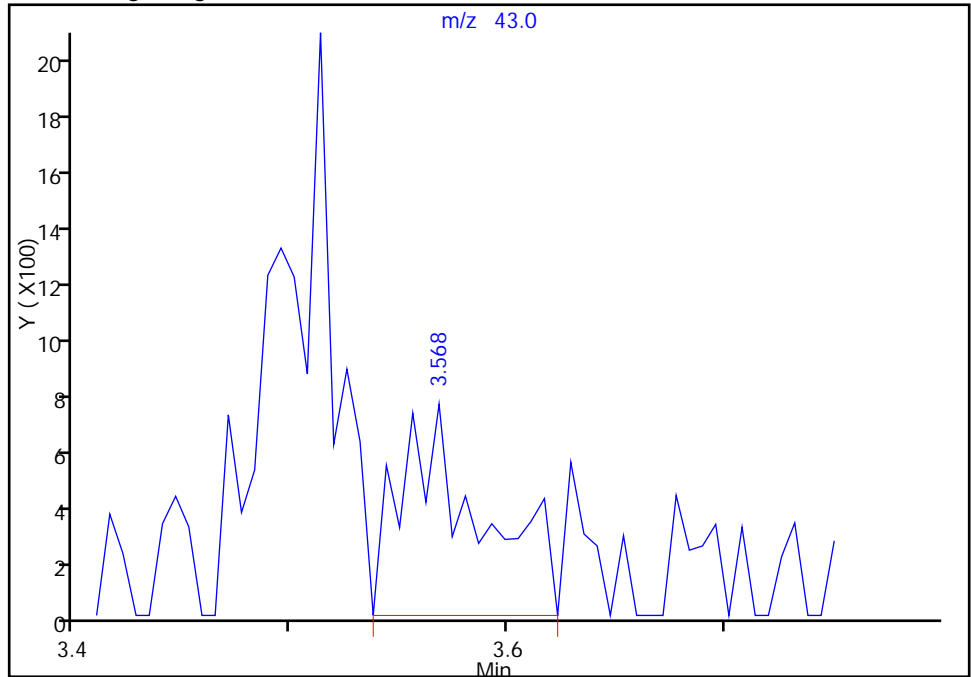
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304011.D				
Injection Date:	04-Mar-2015 15:44:30	Instrument ID:	CHHP5		
Lims ID:	180-41696-A-3	Lab Sample ID:	180-41696-3		
Client ID:	HD-MW-173-0/1-0				
Operator ID:	001562	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector:	MS SCAN		

24 Acetone, CAS: 67-64-1

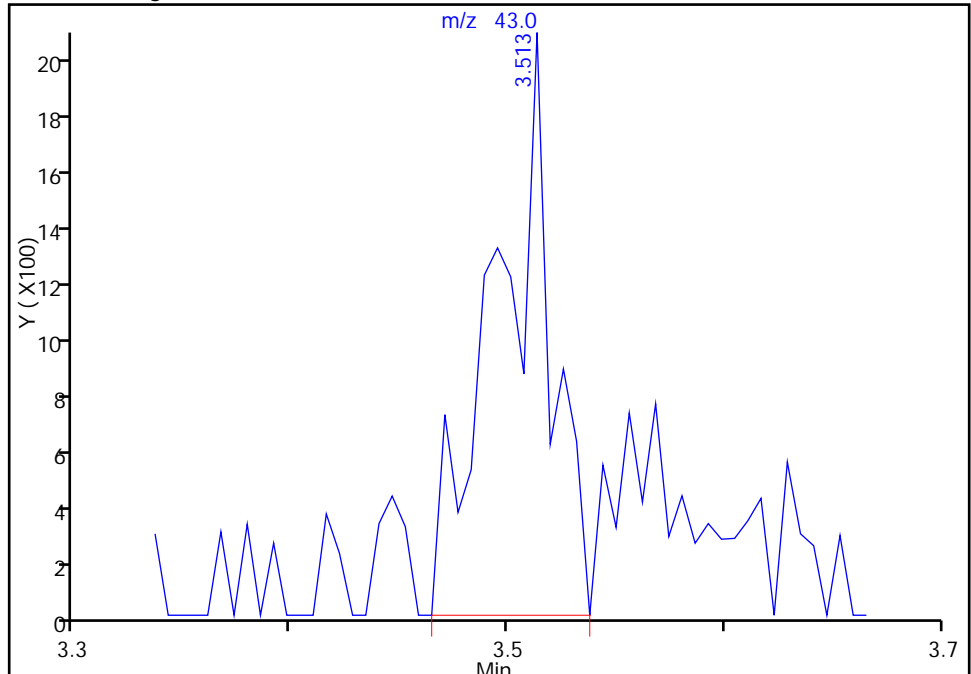
RT: 3.57
Area: 1918
Amount: 2.175648
Amount Units: ng

Processing Integration Results



RT: 3.51
Area: 3745
Amount: 4.248073
Amount Units: ng

Manual Integration Results



Reviewer: gordonk, 05-Mar-2015 07:50:14
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Client Sample ID: HD-MW-174-0/1-0 Lab Sample ID: 180-41696-4
 Matrix: Water Lab File ID: 50304012.D
 Analysis Method: 8260C Date Collected: 03/03/2015 11:20
 Sample wt/vol: 5(mL) Date Analyzed: 03/04/2015 16:08
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 134740 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.28
75-01-4	Vinyl chloride	1.0	U	1.0	0.23
74-83-9	Bromomethane	1.0	U	1.0	0.31
75-00-3	Chloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.30
67-64-1	Acetone	5.0	U	5.0	2.5
75-15-0	Carbon disulfide	1.0	U	1.0	0.21
75-09-2	Methylene Chloride	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.17
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.18
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.12
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.24
74-97-5	Bromochloromethane	1.0	U	1.0	0.18
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.55
67-66-3	Chloroform	1.7		1.0	0.17
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.29
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.14
71-43-2	Benzene	1.0	U	1.0	0.11
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
79-01-6	Trichloroethene	0.37	J	1.0	0.14
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.095
75-27-4	Bromodichloromethane	0.31	J	1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53
108-88-3	Toluene	1.0	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.15
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.20
127-18-4	Tetrachloroethene	4.7		1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.16
124-48-1	Dibromochloromethane	1.0	U	1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
100-41-4	Ethylbenzene	1.0	U	1.0	0.23
1330-20-7	Xylenes, Total	3.0	U	3.0	0.49
100-42-5	Styrene	1.0	U	1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Client Sample ID: HD-MW-174-0/1-0 Lab Sample ID: 180-41696-4
 Matrix: Water Lab File ID: 50304012.D
 Analysis Method: 8260C Date Collected: 03/03/2015 11:20
 Sample wt/vol: 5(mL) Date Analyzed: 03/04/2015 16:08
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 134740 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20
107-13-1	Acrylonitrile	20	U	20	0.55
123-91-1	1,4-Dioxane	200	U	200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		64-135
2037-26-5	Toluene-d8 (Surr)	106		71-118
460-00-4	4-Bromofluorobenzene (Surr)	105		70-118
1868-53-7	Dibromofluoromethane (Surr)	96		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304012.D
 Lims ID: 180-41696-A-4 Lab Sample ID: 180-41696-4
 Client ID: HD-MW-174-0/1-0
 Sample Type: Client
 Inject. Date: 04-Mar-2015 16:08:30 ALS Bottle#: 12 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-41696-A-4
 Misc. Info.: 180-0005893-012
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\MMSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 05-Mar-2015 07:51:27 Calib Date: 03-Mar-2015 18:29:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303018.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: gordonk

Date: 05-Mar-2015 07:51:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.302	4.320	-0.018	98	117770	1000.0	
* 2 Fluorobenzene (IS)	96	7.277	7.277	0.000	99	416612	50.0	
* 3 Chlorobenzene-d5	119	10.367	10.367	0.000	99	92920	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.685	12.691	-0.006	99	145182	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.534	6.528	0.006	52	86060	48.2	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.905	6.900	0.005	99	106116	48.1	
\$ 7 Toluene-d8 (Surr)	98	8.925	8.925	0.000	100	382231	52.8	
\$ 8 4-Bromofluorobenzene (Surr	95	11.535	11.535	0.000	99	141904	52.7	
12 Chloromethane	50		1.777				ND	
13 Vinyl chloride	62		1.905				ND	
15 Bromomethane	94		2.252				ND	
16 Chloroethane	64		2.373				ND	
22 1,1-Dichloroethene	96		3.371				ND	
24 Acetone	43		3.493				ND	
26 Carbon disulfide	76		3.651				ND	
31 Methylene Chloride	84		4.144				ND	
33 Acrylonitrile	53		4.551				ND	
34 trans-1,2-Dichloroethene	96		4.570				ND	
35 Methyl tert-butyl ether	73		4.600				ND	
37 1,1-Dichloroethane	63		5.172				ND	
45 cis-1,2-Dichloroethene	96		5.938				ND	
46 2-Butanone (MEK)	43		5.987				ND	
49 Chlorobromomethane	128		6.230				ND	
52 Chloroform	83	6.346	6.340	0.006	98	33521	8.70	
53 1,1,1-Trichloroethane	97		6.528				ND	
56 Carbon tetrachloride	117		6.717				ND	
58 Benzene	78		6.954				ND	
59 1,2-Dichloroethane	62		6.991				ND	
64 Trichloroethene	130	7.666	7.666	0.000	92	4576	1.85	
67 1,2-Dichloropropane	63		7.909				ND	
70 1,4-Dioxane	88		8.061				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83	8.201	8.201	0.000	8	3608	1.55	
74 cis-1,3-Dichloropropene	75		8.658				ND	
75 4-Methyl-2-pentanone (MIBK)	43		8.828				ND	
76 Toluene	91		8.992				ND	
77 trans-1,3-Dichloropropene	75		9.217				ND	
79 1,1,2-Trichloroethane	97		9.400				ND	
80 Tetrachloroethene	164	9.546	9.540	0.006	98	41223	23.3	
82 2-Hexanone	43		9.661				ND	
84 Chlorodibromomethane	129		9.795				ND	
85 Ethylene Dibromide	107		9.899				ND	
87 Chlorobenzene	112		10.391				ND	
89 1,1,1,2-Tetrachloroethane	131		10.477				ND	
90 Ethylbenzene	106		10.501				ND	
91 m-Xylene & p-Xylene	106		10.623				ND	
92 o-Xylene	106		11.012				ND	
93 Styrene	104		11.030				ND	
94 Bromoform	173		11.213				ND	
99 1,1,2,2-Tetrachloroethane	83		11.675				ND	
S 133 Xylenes, Total	106		1.000				ND	

Reagents:

VOA8260INT_00029

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00031

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304012.D

Injection Date: 04-Mar-2015 16:08:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: 180-41696-A-4

Lab Sample ID: 180-41696-4

Worklist Smp#: 12

Client ID: HD-MW-174-0/1-0

Purge Vol: 5.000 mL

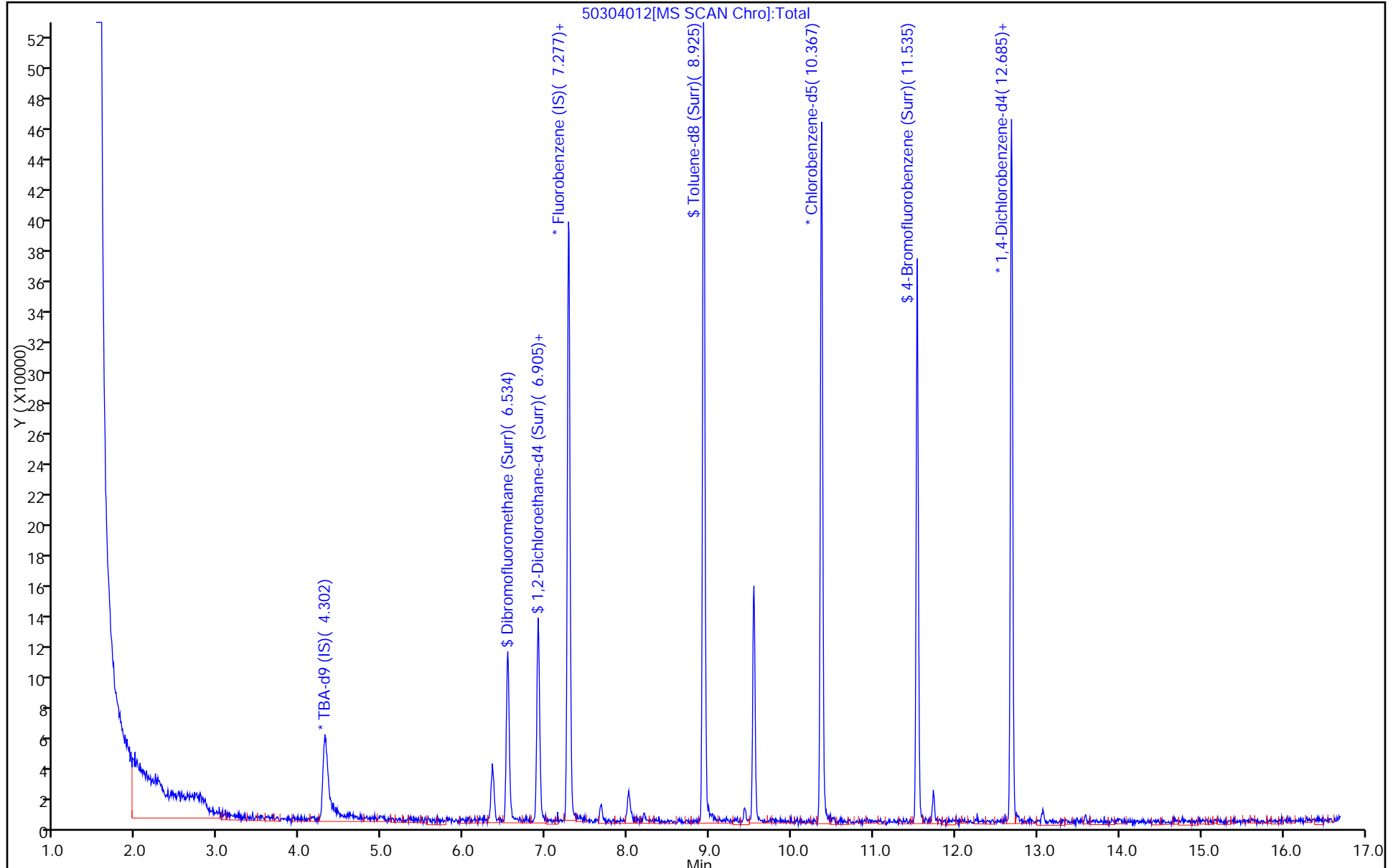
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304012.D

Injection Date: 04-Mar-2015 16:08:30

Instrument ID: CHHP5

Lims ID: 180-41696-A-4

Lab Sample ID: 180-41696-4

Client ID: HD-MW-174-0/1-0

Operator ID: 001562

ALS Bottle#: 12

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

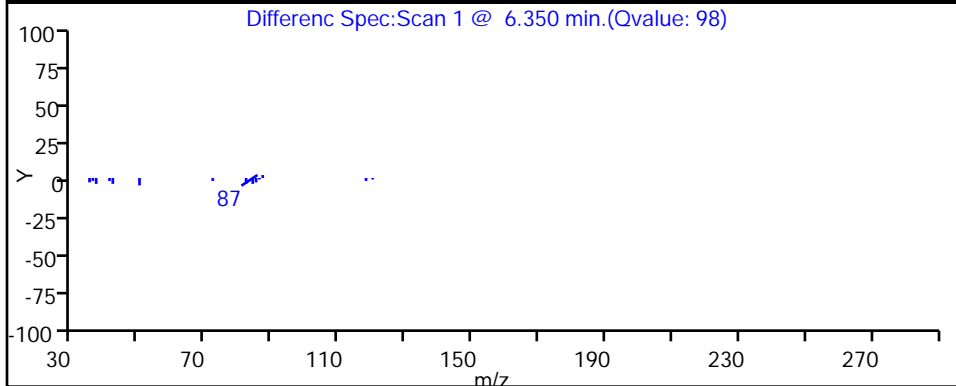
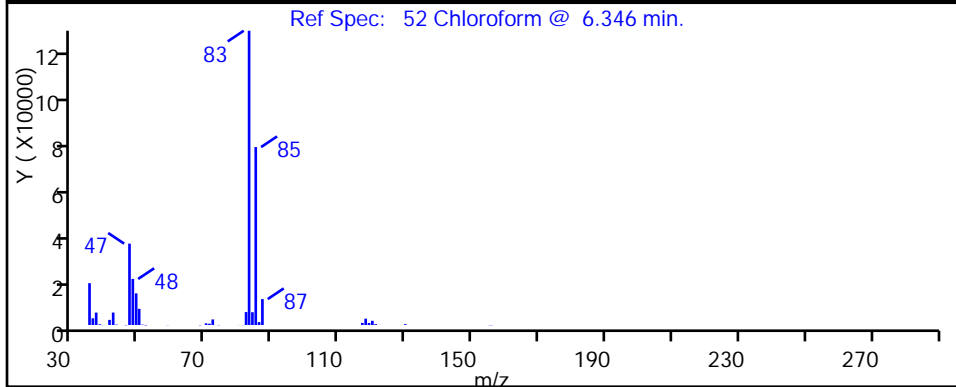
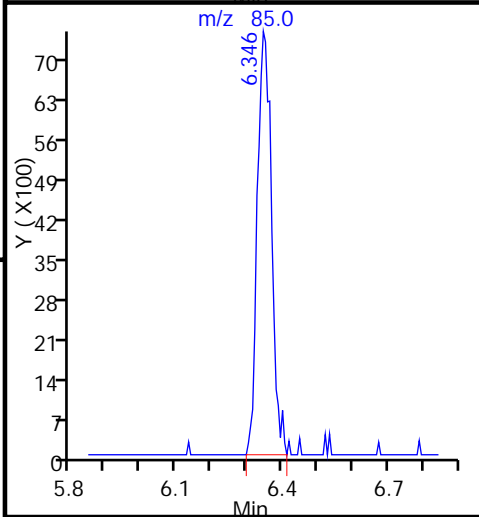
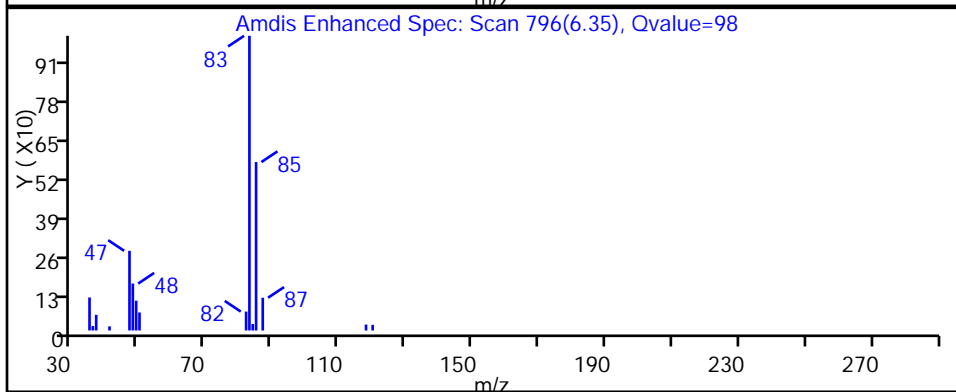
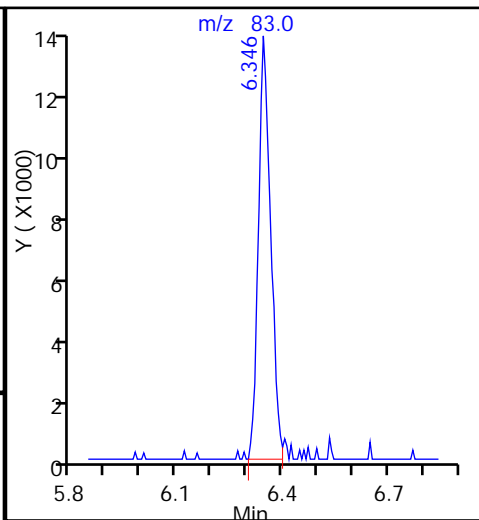
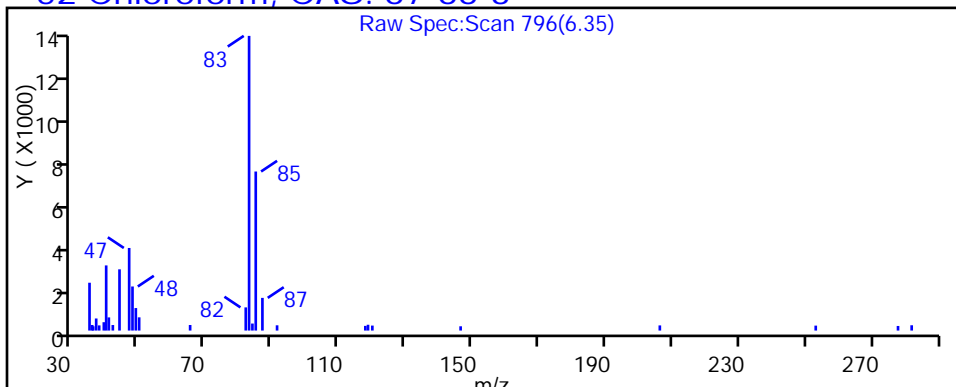
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

52 Chloroform, CAS: 67-66-3



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304012.D

Injection Date: 04-Mar-2015 16:08:30

Instrument ID: CHHP5

Lims ID: 180-41696-A-4

Lab Sample ID: 180-41696-4

Client ID: HD-MW-174-0/1-0

Operator ID: 001562

ALS Bottle#: 12

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

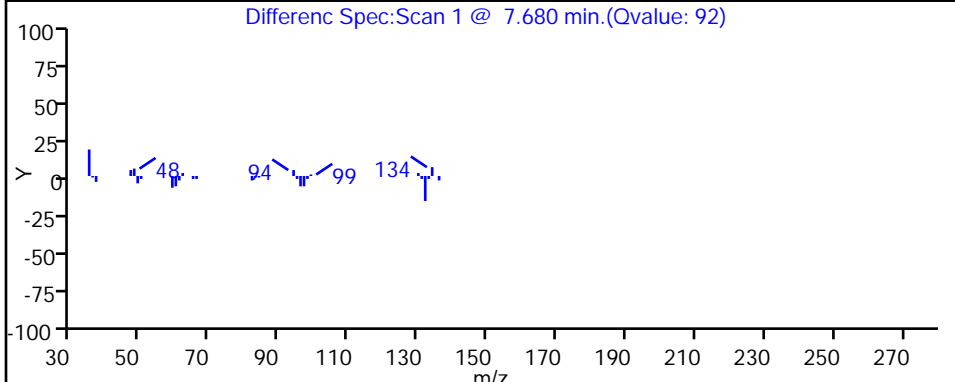
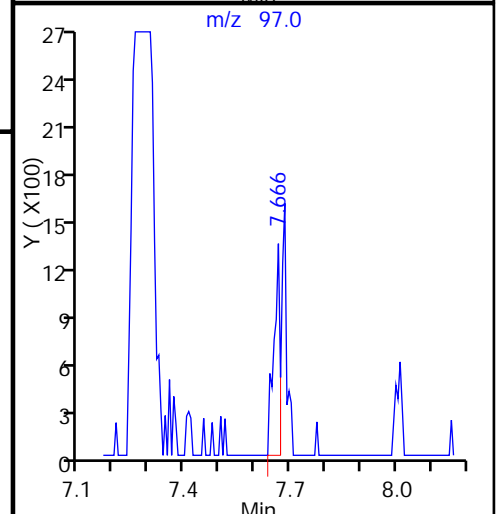
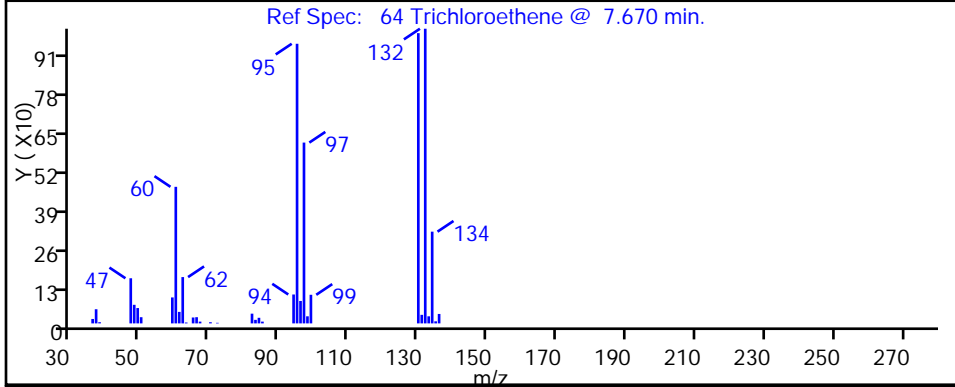
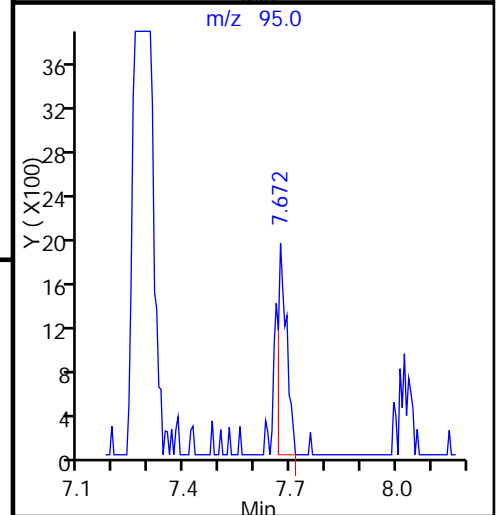
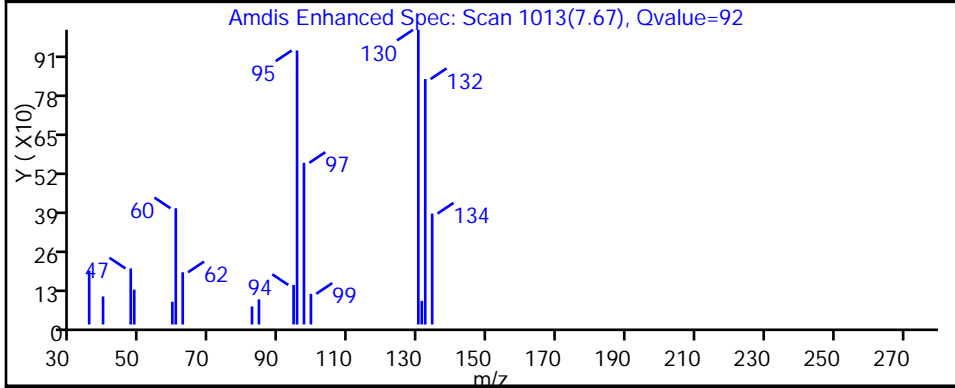
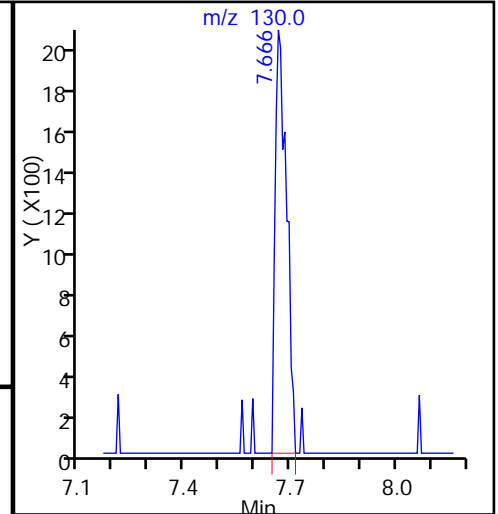
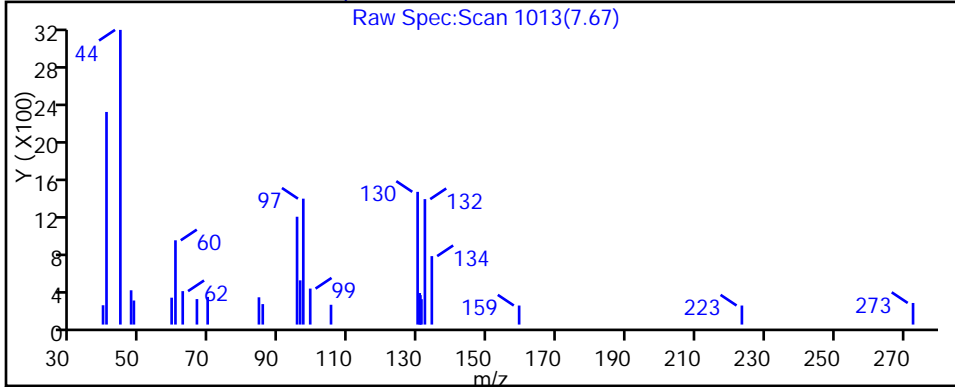
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

64 Trichloroethene, CAS: 79-01-6



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304012.D

Injection Date: 04-Mar-2015 16:08:30

Instrument ID: CHHP5

Lims ID: 180-41696-A-4

Lab Sample ID: 180-41696-4

Client ID: HD-MW-174-0/1-0

Operator ID: 001562

ALS Bottle#: 12

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

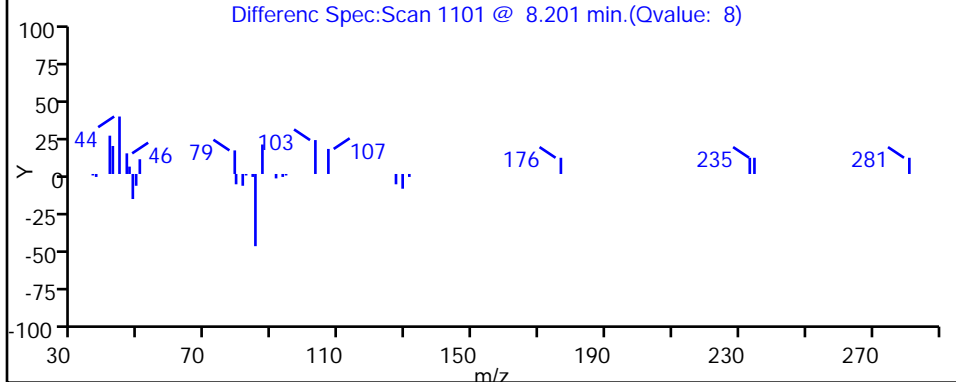
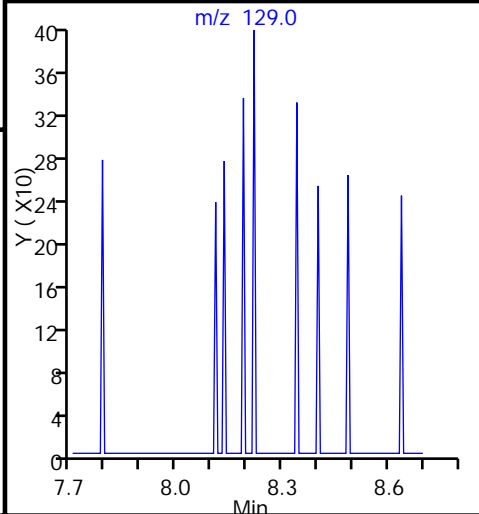
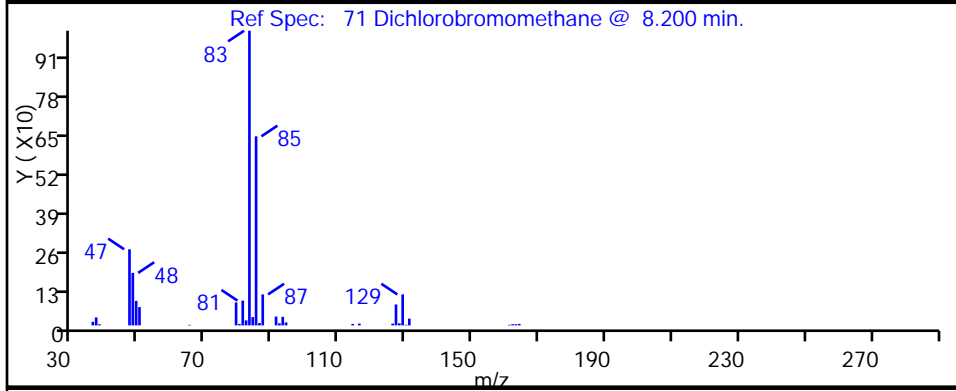
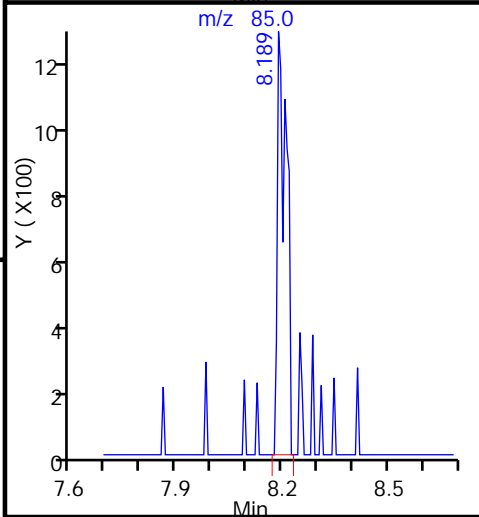
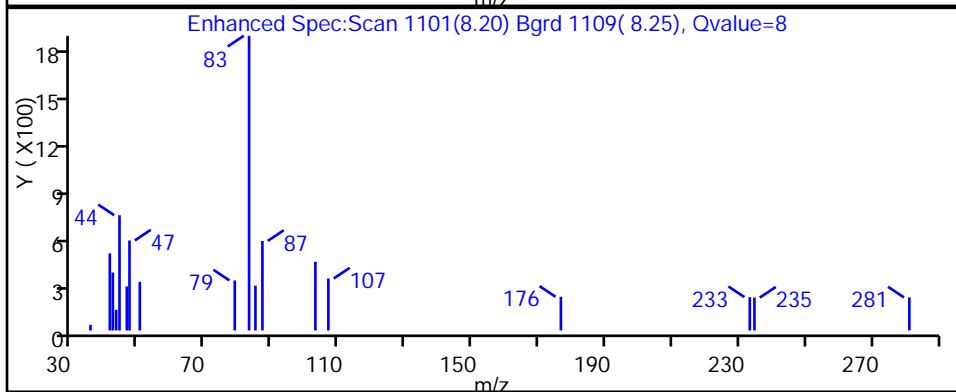
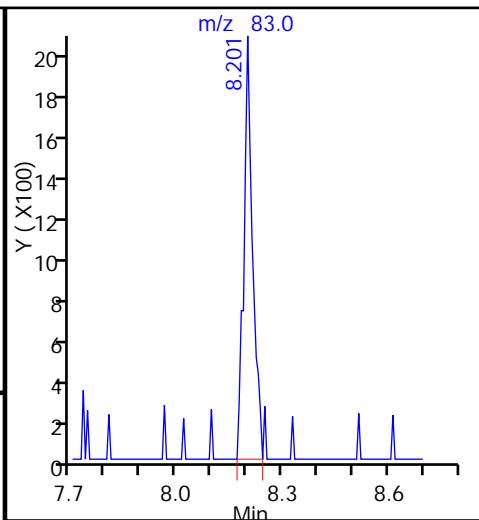
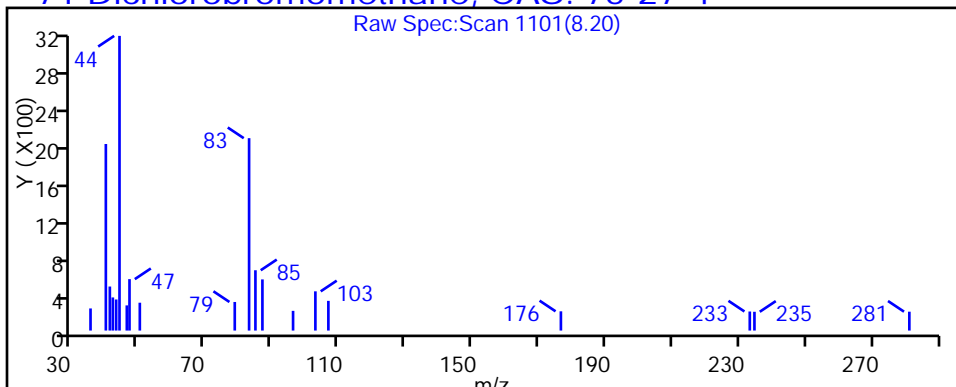
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

71 Dichlorobromomethane, CAS: 75-27-4



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304012.D

Injection Date: 04-Mar-2015 16:08:30

Instrument ID: CHHP5

Lims ID: 180-41696-A-4

Lab Sample ID: 180-41696-4

Client ID: HD-MW-174-0/1-0

Operator ID: 001562

ALS Bottle#: 12

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

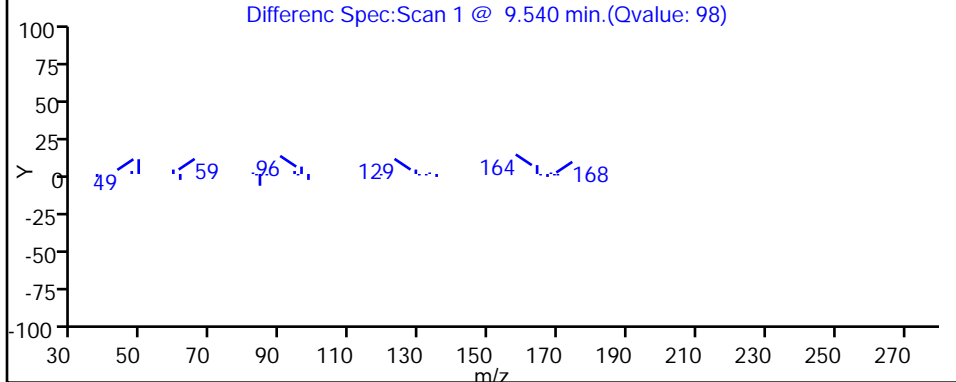
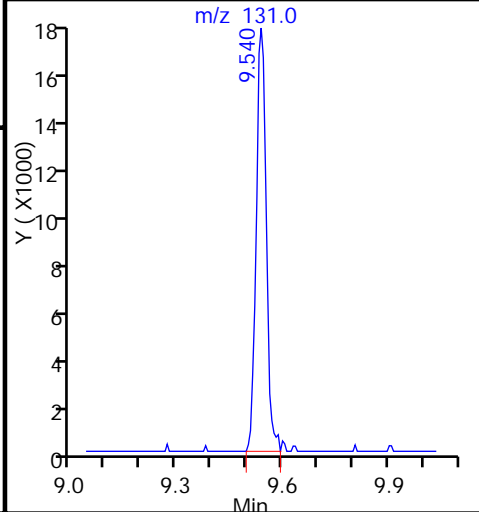
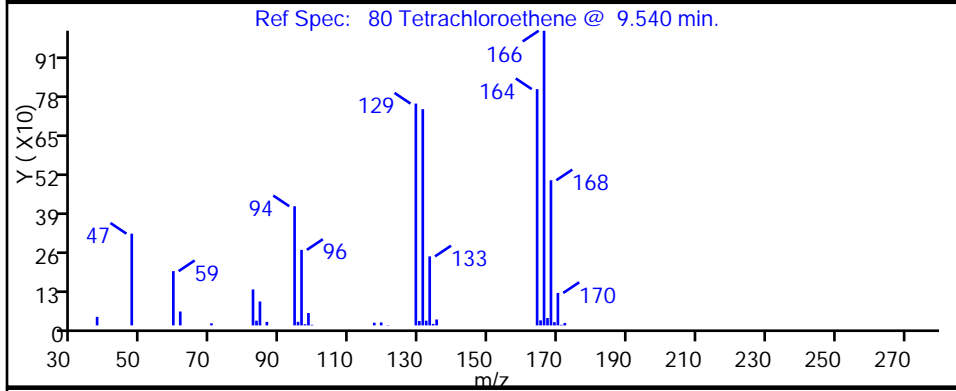
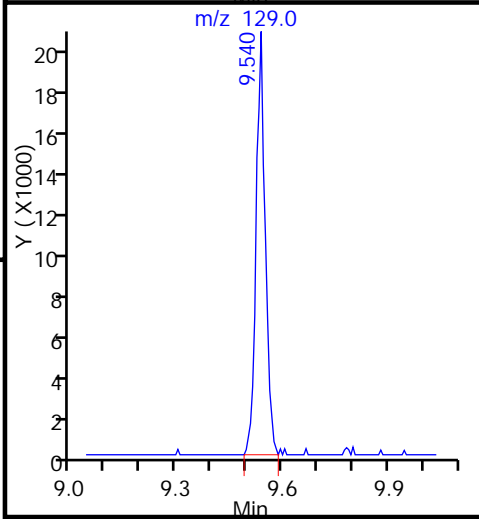
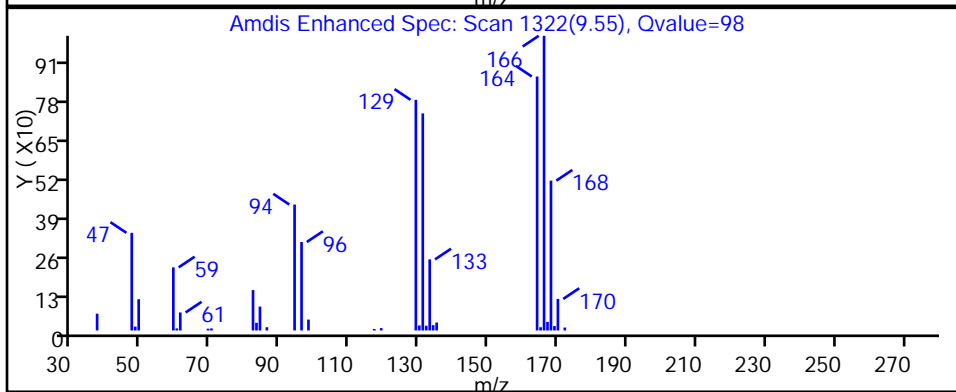
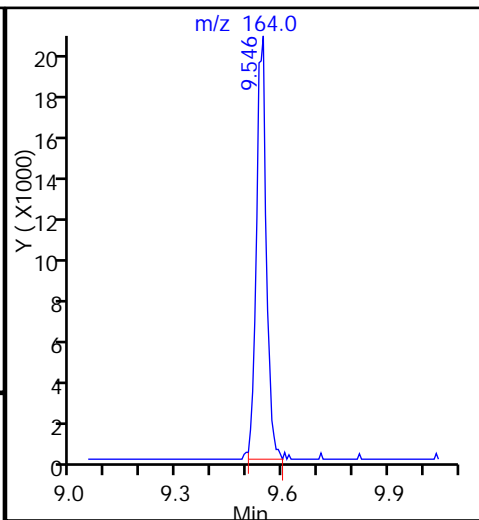
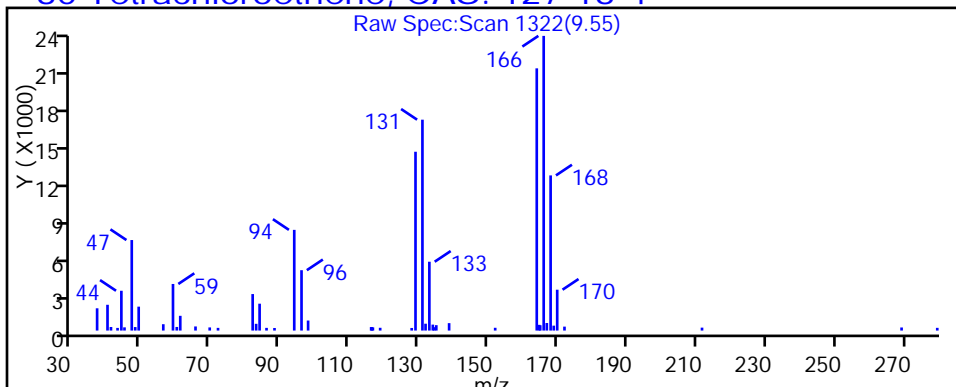
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

80 Tetrachloroethene, CAS: 127-18-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Client Sample ID: HD-MW-166-0/1-0 Lab Sample ID: 180-41696-5
 Matrix: Water Lab File ID: 50304013.D
 Analysis Method: 8260C Date Collected: 03/03/2015 11:45
 Sample wt/vol: 5(mL) Date Analyzed: 03/04/2015 16:32
 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.: 134740 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.28
75-01-4	Vinyl chloride	1.0	U	1.0	0.23
74-83-9	Bromomethane	1.0	U	1.0	0.31
75-00-3	Chloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.30
67-64-1	Acetone	5.0	U	5.0	2.5
75-15-0	Carbon disulfide	1.0	U	1.0	0.21
75-09-2	Methylene Chloride	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.17
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.18
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.12
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.24
74-97-5	Bromochloromethane	1.0	U	1.0	0.18
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.55
67-66-3	Chloroform	2.4		1.0	0.17
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.29
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.14
71-43-2	Benzene	1.0	U	1.0	0.11
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
79-01-6	Trichloroethene	1.0		1.0	0.14
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.095
75-27-4	Bromodichloromethane	0.50	J	1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53
108-88-3	Toluene	1.0	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.15
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.20
127-18-4	Tetrachloroethene	0.80	J	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.16
124-48-1	Dibromochloromethane	1.0	U	1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
100-41-4	Ethylbenzene	1.0	U	1.0	0.23
1330-20-7	Xylenes, Total	3.0	U	3.0	0.49
100-42-5	Styrene	1.0	U	1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Client Sample ID: HD-MW-166-0/1-0 Lab Sample ID: 180-41696-5
 Matrix: Water Lab File ID: 50304013.D
 Analysis Method: 8260C Date Collected: 03/03/2015 11:45
 Sample wt/vol: 5(mL) Date Analyzed: 03/04/2015 16:32
 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.: 134740 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20
107-13-1	Acrylonitrile	20	U	20	0.55
123-91-1	1,4-Dioxane	200	U	200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		64-135
2037-26-5	Toluene-d8 (Surr)	101		71-118
460-00-4	4-Bromofluorobenzene (Surr)	101		70-118
1868-53-7	Dibromofluoromethane (Surr)	97		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304013.D
 Lims ID: 180-41696-A-5 Lab Sample ID: 180-41696-5
 Client ID: HD-MW-166-0/1-0
 Sample Type: Client
 Inject. Date: 04-Mar-2015 16:32:30 ALS Bottle#: 13 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-41696-A-5
 Misc. Info.: 180-0005893-013
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\MMSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 05-Mar-2015 07:53:10 Calib Date: 03-Mar-2015 18:29:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303018.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: gordonk

Date: 05-Mar-2015 07:53:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.296	4.320	-0.024	97	101750	1000.0	
* 2 Fluorobenzene (IS)	96	7.276	7.277	-0.001	99	404390	50.0	
* 3 Chlorobenzene-d5	119	10.367	10.367	0.000	100	91859	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.685	12.691	-0.006	98	142875	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.534	6.528	0.006	52	84333	48.7	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.905	6.900	0.005	99	103779	48.5	
\$ 7 Toluene-d8 (Surr)	98	8.925	8.925	0.000	100	363275	50.7	
\$ 8 4-Bromofluorobenzene (Surr	95	11.535	11.535	0.000	99	134747	50.6	
12 Chloromethane	50		1.777				ND	
13 Vinyl chloride	62		1.905				ND	
15 Bromomethane	94		2.252				ND	
16 Chloroethane	64		2.373				ND	
22 1,1-Dichloroethene	96		3.371				ND	
24 Acetone	43	3.486	3.493	-0.007	51	6636	7.81	M
26 Carbon disulfide	76	3.663	3.651	0.012	50	2753	0.4750	
31 Methylene Chloride	84		4.144				ND	
33 Acrylonitrile	53		4.551				ND	
34 trans-1,2-Dichloroethene	96		4.570				ND	
35 Methyl tert-butyl ether	73	4.594	4.600	-0.006	1	2042	0.3320	
37 1,1-Dichloroethane	63		5.172				ND	
45 cis-1,2-Dichloroethene	96		5.938				ND	
46 2-Butanone (MEK)	43		5.987				ND	
49 Chlorobromomethane	128		6.230				ND	
52 Chloroform	83	6.346	6.340	0.006	96	45271	12.1	
53 1,1,1-Trichloroethane	97		6.528				ND	
56 Carbon tetrachloride	117		6.717				ND	
58 Benzene	78		6.954				ND	
59 1,2-Dichloroethane	62		6.991				ND	
64 Trichloroethene	130	7.672	7.666	0.006	97	12541	5.21	
67 1,2-Dichloropropane	63		7.909				ND	
70 1,4-Dioxane	88		8.061				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83	8.201	8.201	0.000	88	5591	2.48	
74 cis-1,3-Dichloropropene	75		8.658				ND	
75 4-Methyl-2-pentanone (MIBK)	43		8.828				ND	
76 Toluene	91		8.992				ND	
77 trans-1,3-Dichloropropene	75		9.217				ND	
79 1,1,2-Trichloroethane	97		9.400				ND	
80 Tetrachloroethene	164	9.540	9.540	0.000	94	7004	4.00	
82 2-Hexanone	43		9.661				ND	
84 Chlorodibromomethane	129		9.795				ND	
85 Ethylene Dibromide	107		9.899				ND	
87 Chlorobenzene	112		10.391				ND	
89 1,1,1,2-Tetrachloroethane	131		10.477				ND	
90 Ethylbenzene	106		10.501				ND	
91 m-Xylene & p-Xylene	106		10.623				ND	
92 o-Xylene	106		11.012				ND	
93 Styrene	104		11.030				ND	
94 Bromoform	173		11.213				ND	
99 1,1,2,2-Tetrachloroethane	83		11.675				ND	
S 133 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00029

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00031

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304013.D

Injection Date: 04-Mar-2015 16:32:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: 180-41696-A-5

Lab Sample ID: 180-41696-5

Worklist Smp#: 13

Client ID: HD-MW-166-0/1-0

Purge Vol: 5.000 mL

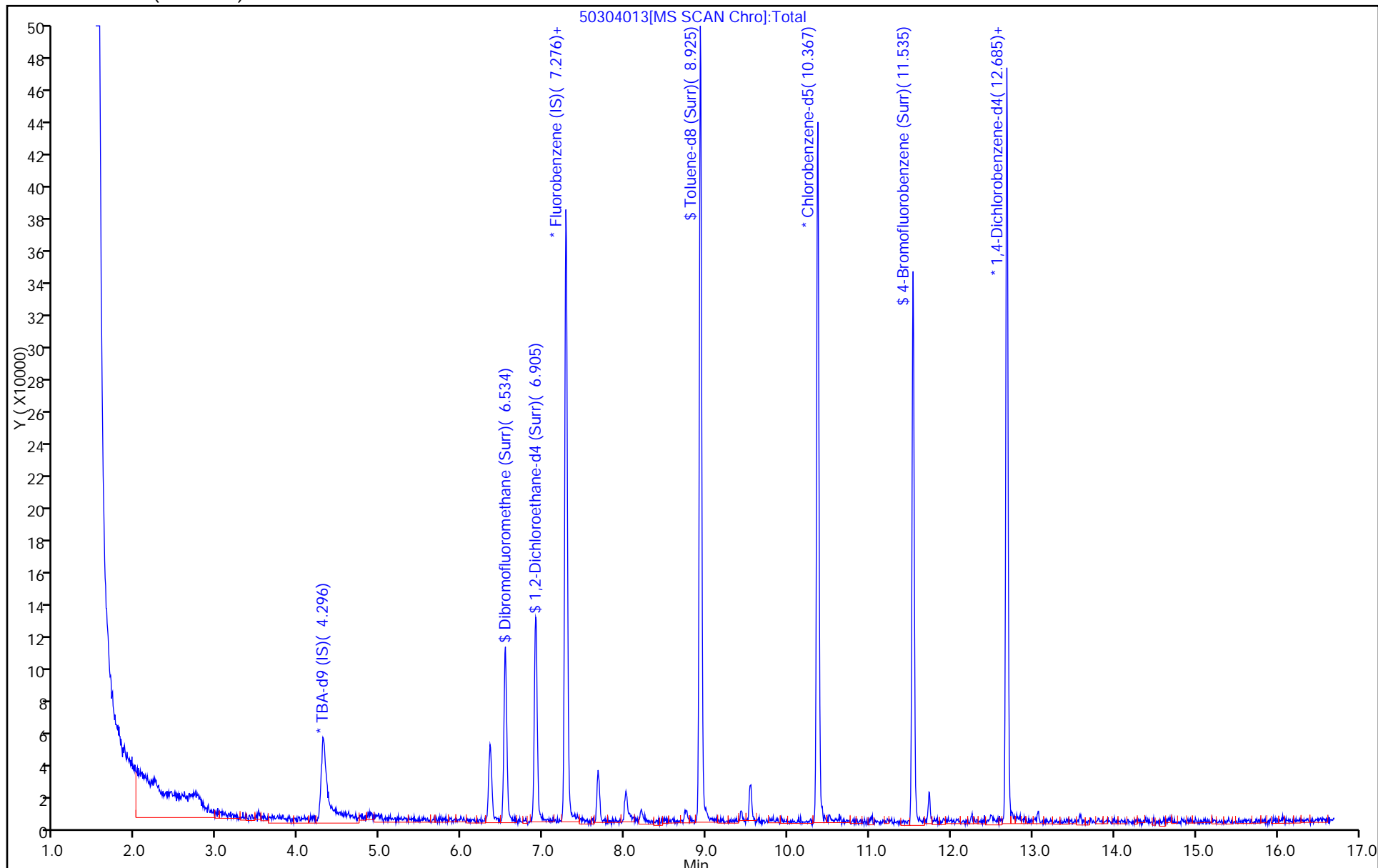
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304013.D

Injection Date: 04-Mar-2015 16:32:30

Instrument ID: CHHP5

Lims ID: 180-41696-A-5

Lab Sample ID: 180-41696-5

Client ID: HD-MW-166-0/1-0

Operator ID: 001562

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

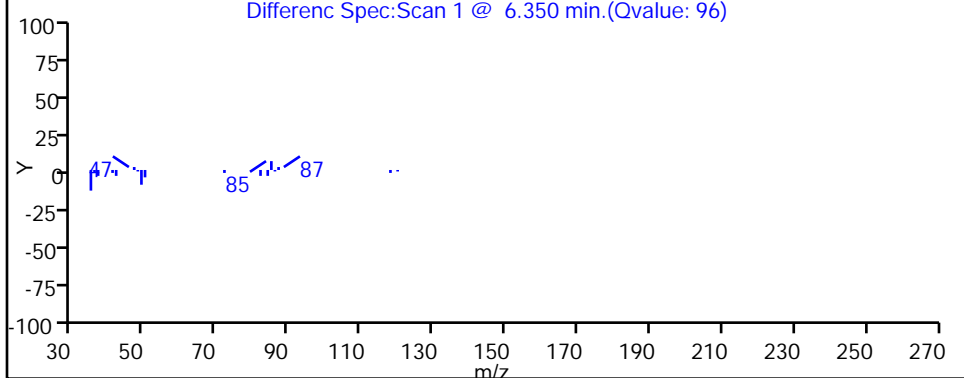
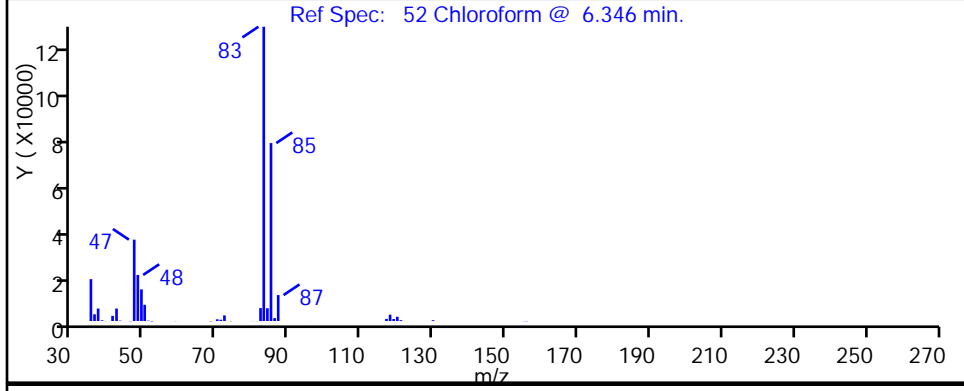
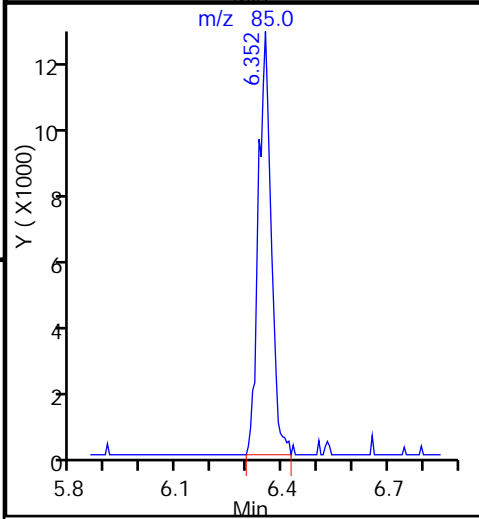
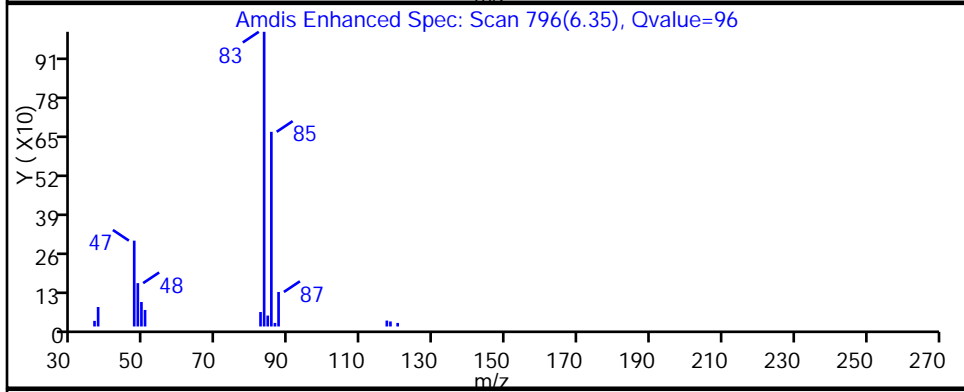
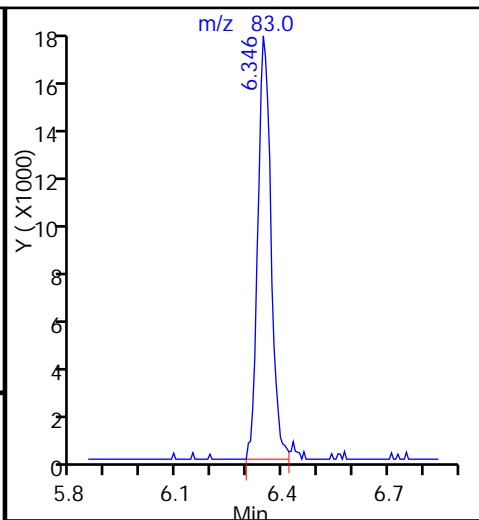
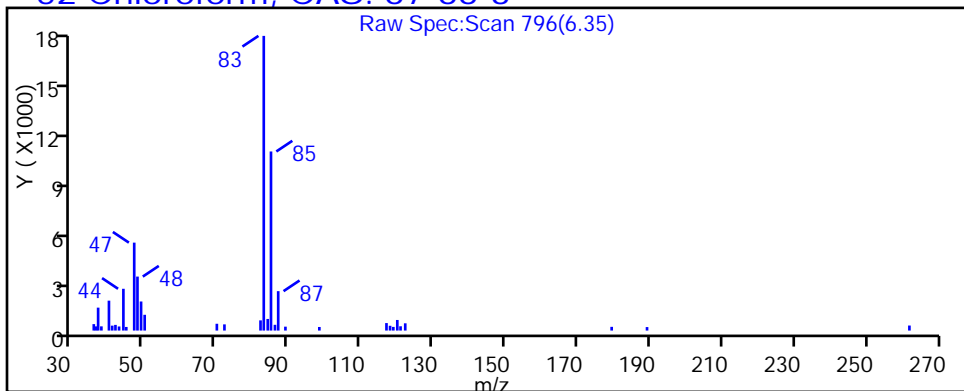
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

52 Chloroform, CAS: 67-66-3



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304013.D

Injection Date: 04-Mar-2015 16:32:30

Instrument ID: CHHP5

Lims ID: 180-41696-A-5

Lab Sample ID: 180-41696-5

Client ID: HD-MW-166-0/1-0

Operator ID: 001562

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

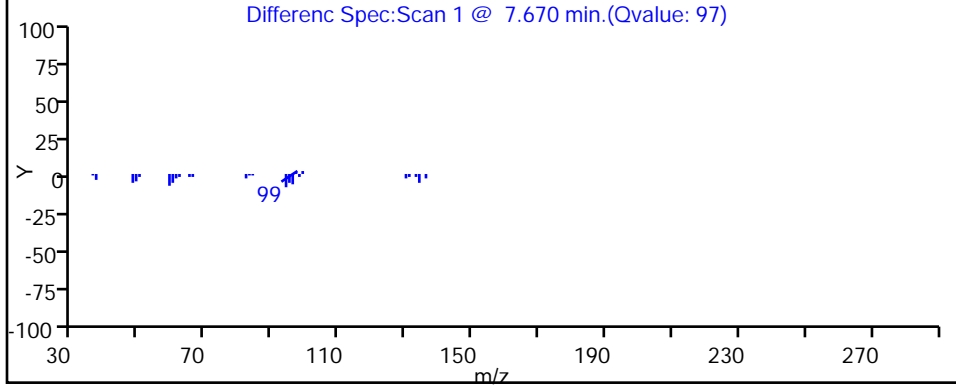
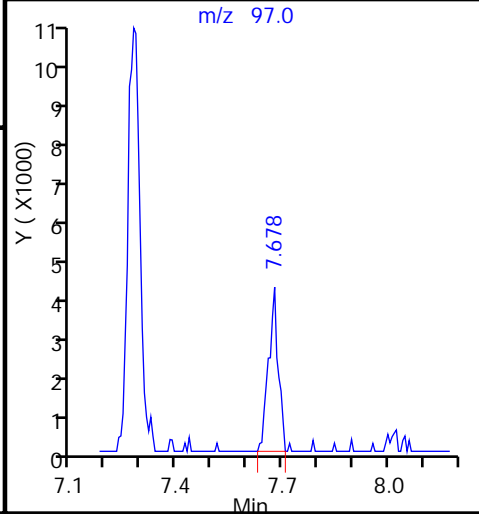
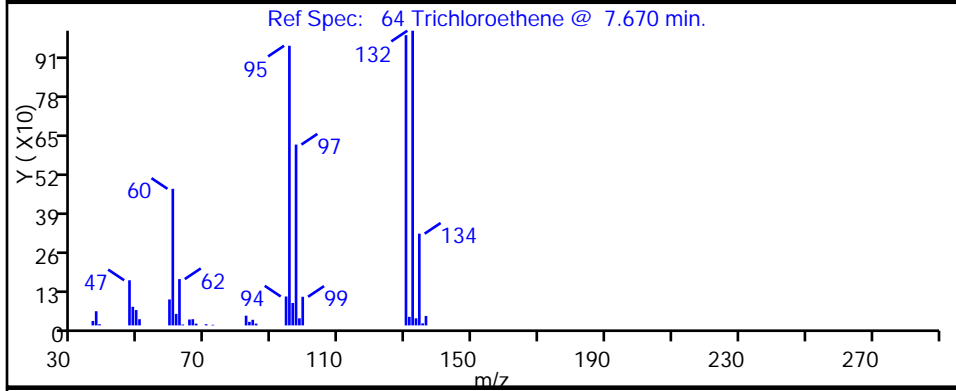
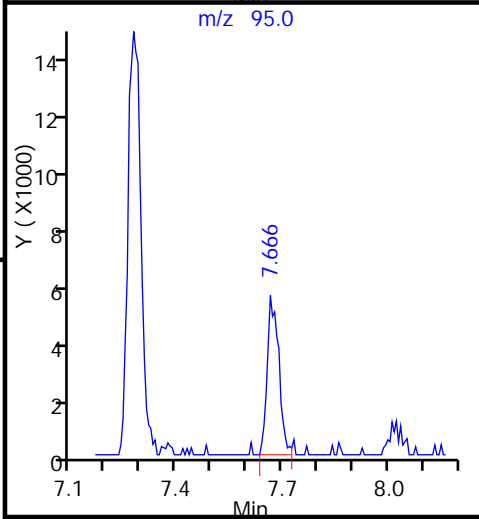
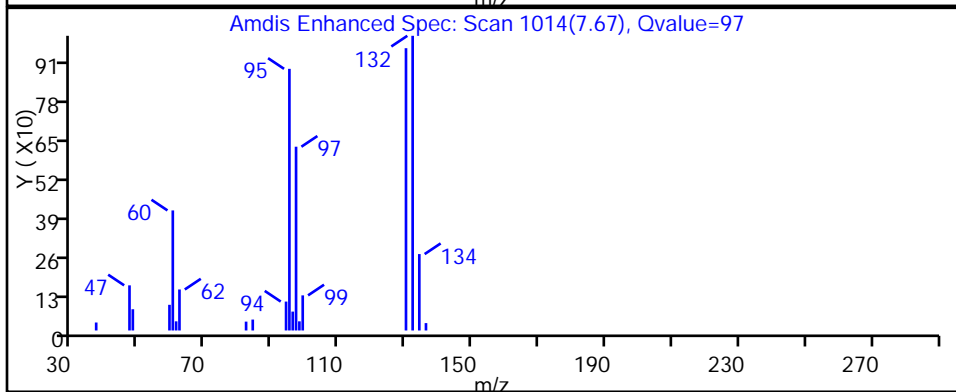
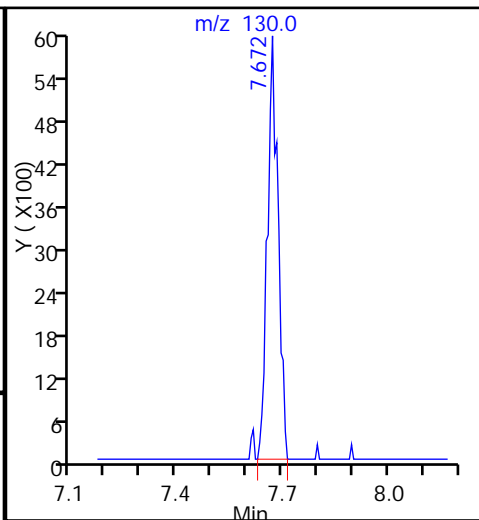
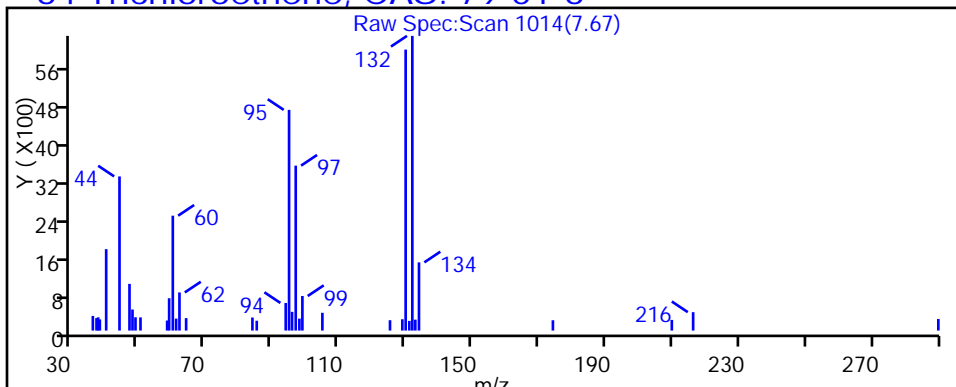
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

64 Trichloroethene, CAS: 79-01-6



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304013.D

Injection Date: 04-Mar-2015 16:32:30

Instrument ID: CHHP5

Lims ID: 180-41696-A-5

Lab Sample ID: 180-41696-5

Client ID: HD-MW-166-0/1-0

Operator ID: 001562

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

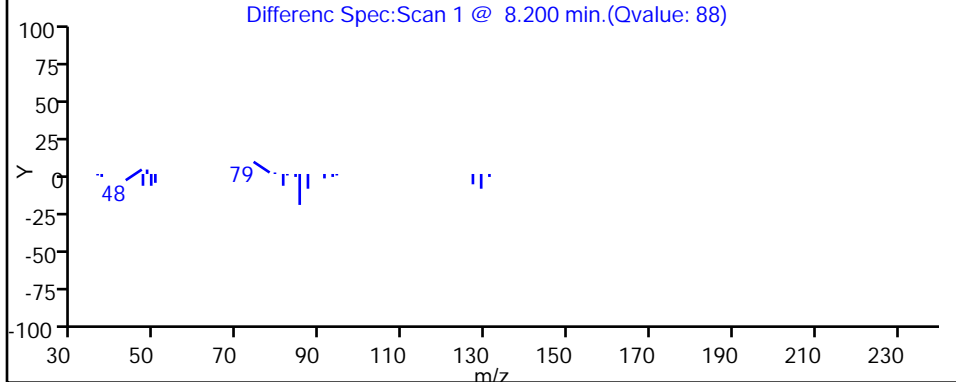
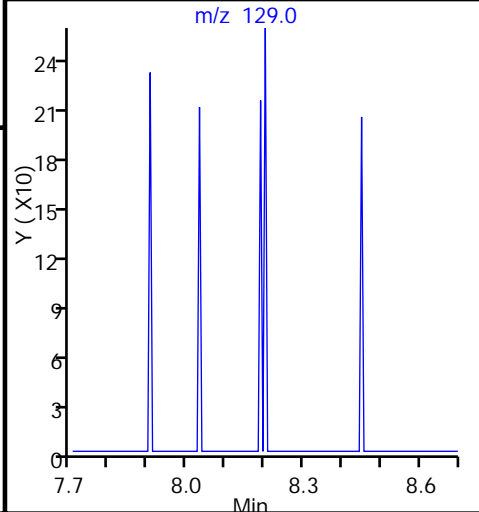
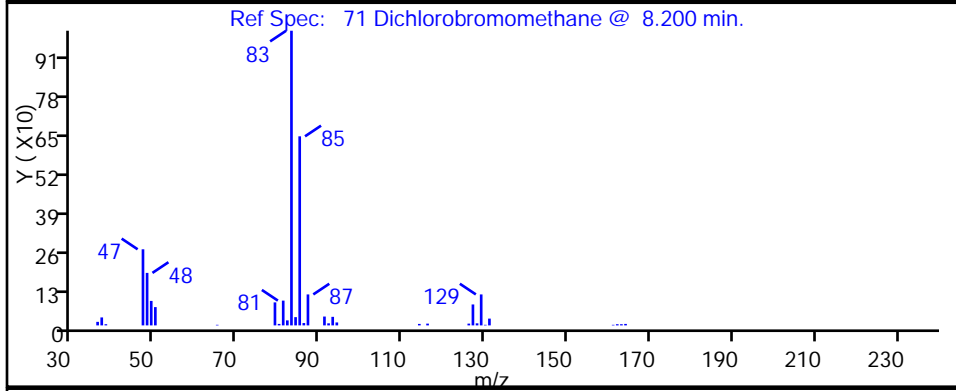
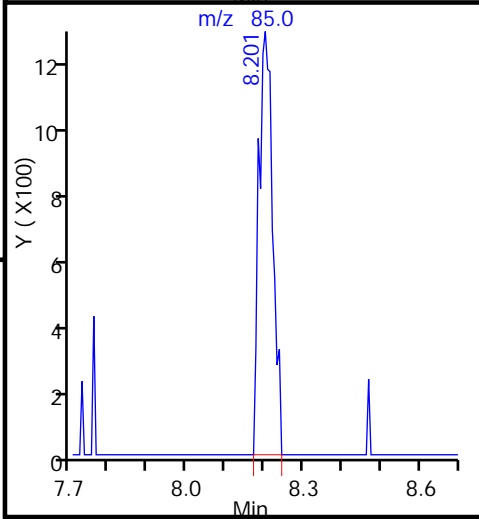
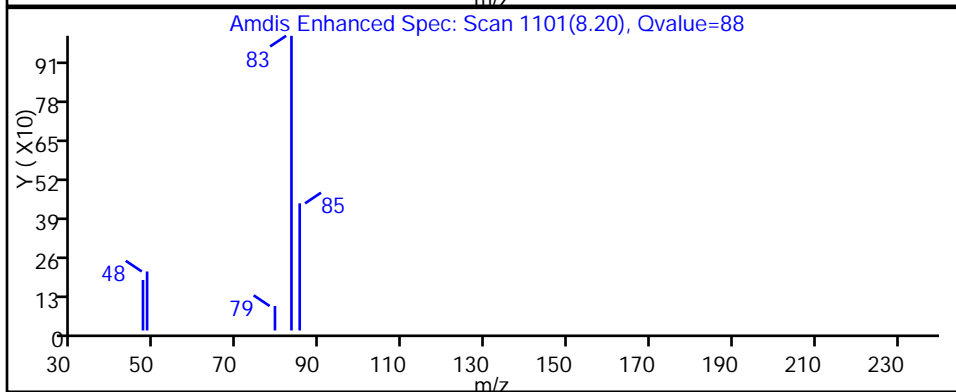
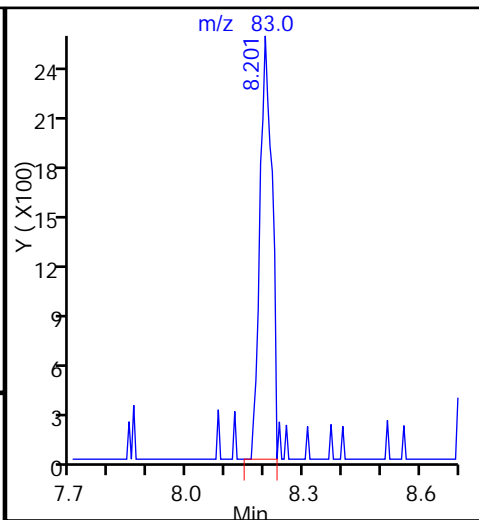
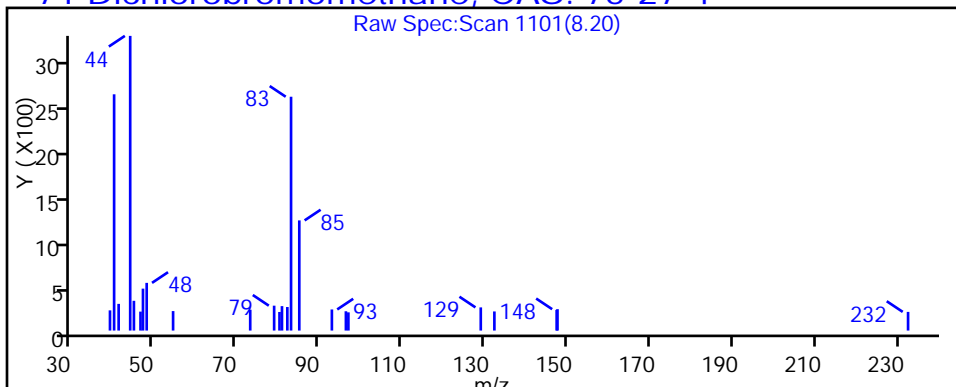
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

71 Dichlorobromomethane, CAS: 75-27-4



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304013.D

Injection Date: 04-Mar-2015 16:32:30

Instrument ID: CHHP5

Lims ID: 180-41696-A-5

Lab Sample ID: 180-41696-5

Client ID: HD-MW-166-0/1-0

Operator ID: 001562

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

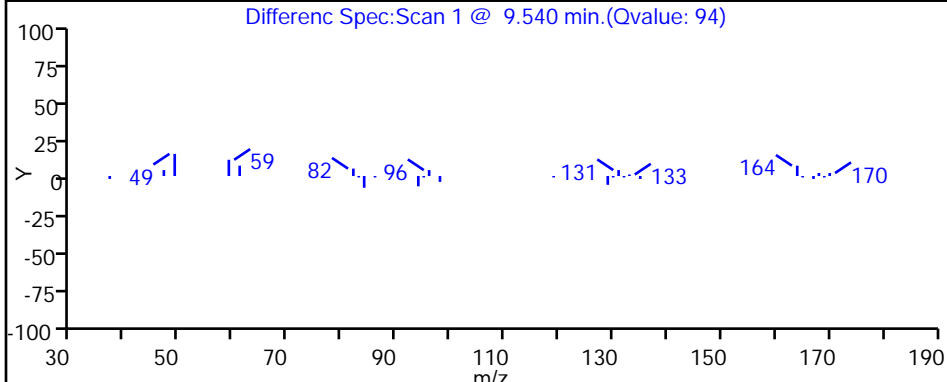
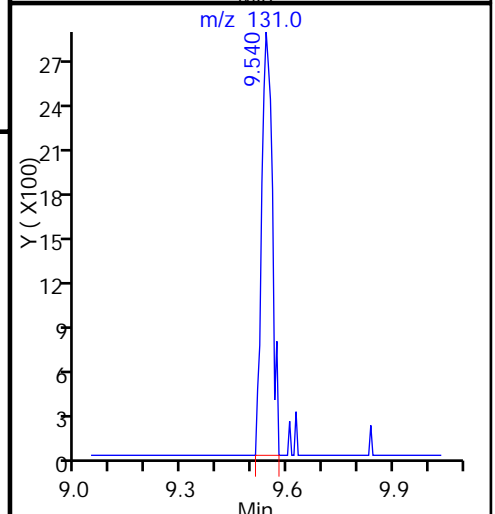
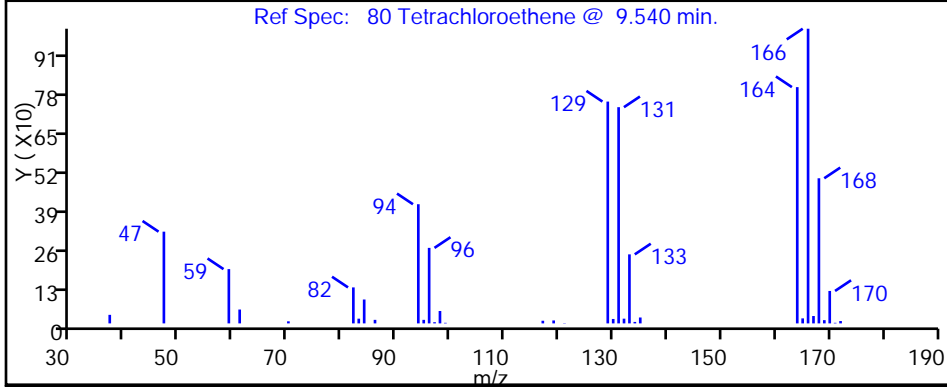
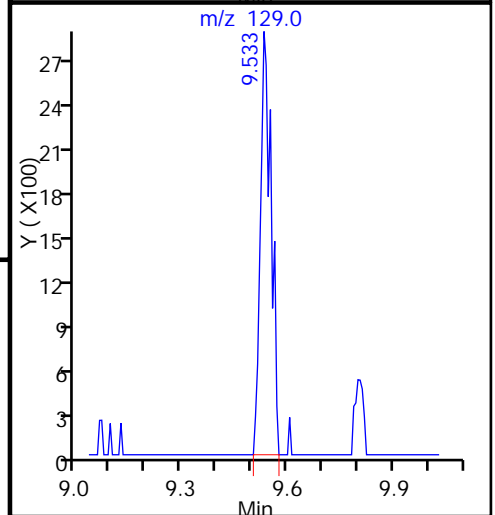
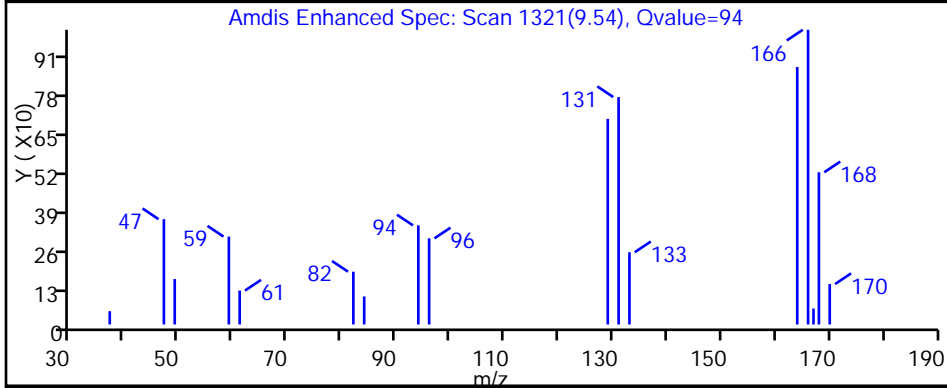
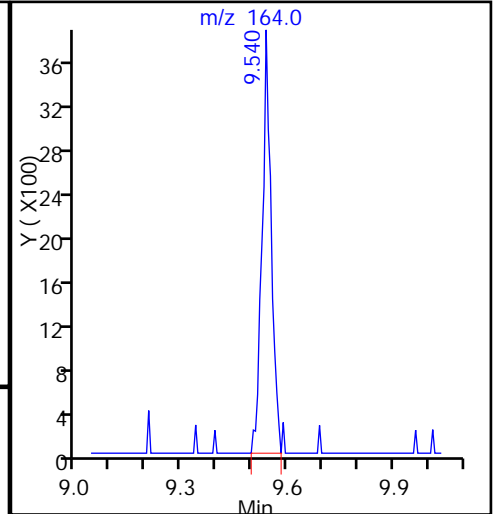
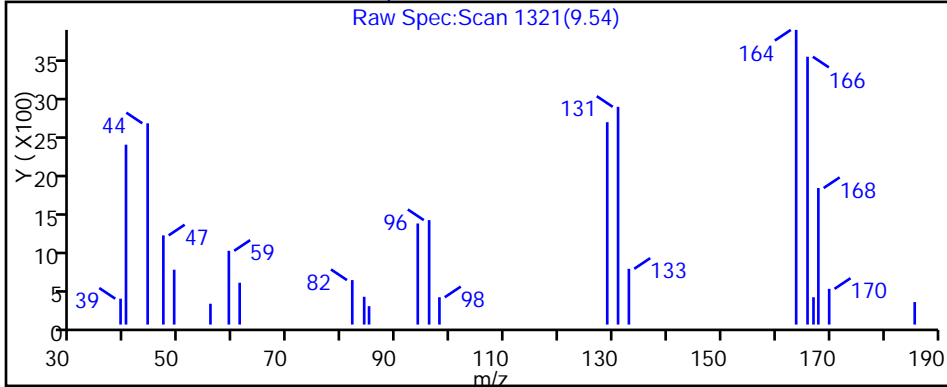
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

80 Tetrachloroethene, CAS: 127-18-4



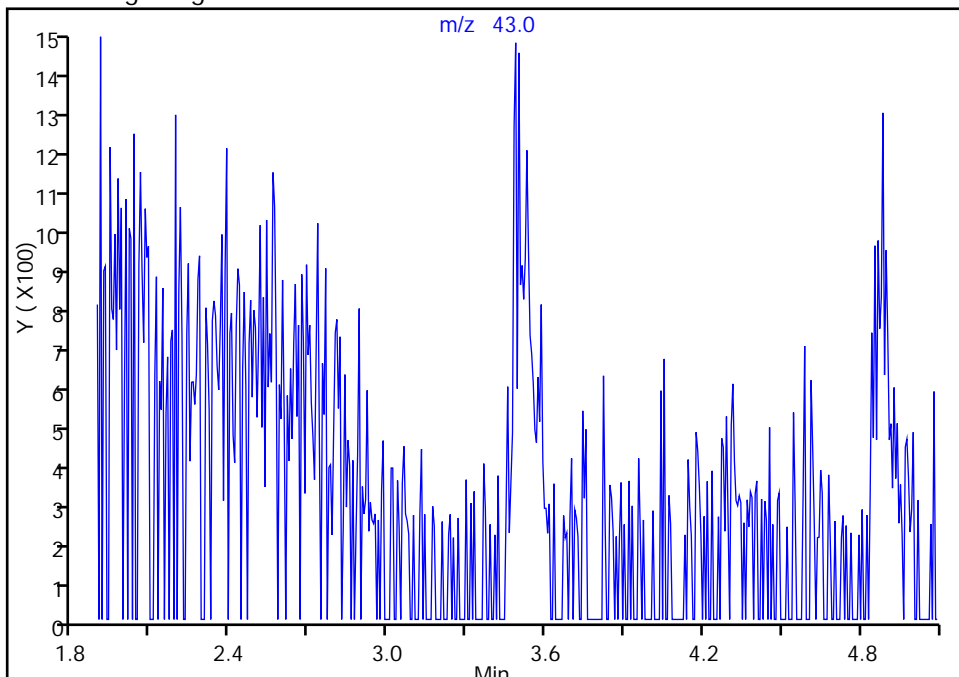
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304013.D
Injection Date: 04-Mar-2015 16:32:30 Instrument ID: CHHP5
Lims ID: 180-41696-A-5 Lab Sample ID: 180-41696-5
Client ID: HD-MW-166-0/1-0
Operator ID: 001562 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

24 Acetone, CAS: 67-64-1

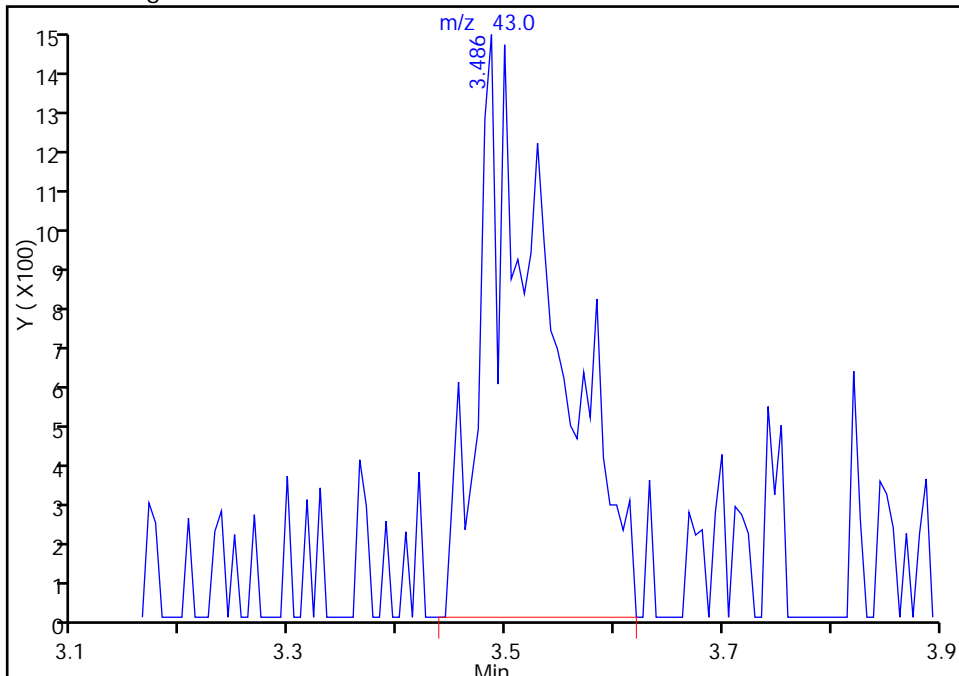
Not Detected
Expected RT: 3.49

Processing Integration Results



RT: 3.49
Area: 6636
Amount: 7.813546
Amount Units: ng

Manual Integration Results



Reviewer: gordonk, 05-Mar-2015 07:53:10
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Client Sample ID: HD-MW-167-0/1-0 Lab Sample ID: 180-41696-6
 Matrix: Water Lab File ID: 50304014.D
 Analysis Method: 8260C Date Collected: 03/03/2015 12:00
 Sample wt/vol: 5(mL) Date Analyzed: 03/04/2015 16:56
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 134740 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.28
75-01-4	Vinyl chloride	1.0	U	1.0	0.23
74-83-9	Bromomethane	1.0	U	1.0	0.31
75-00-3	Chloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.30
67-64-1	Acetone	5.0	U	5.0	2.5
75-15-0	Carbon disulfide	1.0	U	1.0	0.21
75-09-2	Methylene Chloride	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.17
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.18
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.12
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.24
74-97-5	Bromochloromethane	1.0	U	1.0	0.18
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.55
67-66-3	Chloroform	3.0		1.0	0.17
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.29
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.14
71-43-2	Benzene	1.0	U	1.0	0.11
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
79-01-6	Trichloroethene	2.6		1.0	0.14
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.095
75-27-4	Bromodichloromethane	0.84	J	1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53
108-88-3	Toluene	1.0	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.15
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.20
127-18-4	Tetrachloroethene	8.6		1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.16
124-48-1	Dibromochloromethane	1.0	U	1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
100-41-4	Ethylbenzene	1.0	U	1.0	0.23
1330-20-7	Xylenes, Total	3.0	U	3.0	0.49
100-42-5	Styrene	1.0	U	1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Client Sample ID: HD-MW-167-0/1-0 Lab Sample ID: 180-41696-6
 Matrix: Water Lab File ID: 50304014.D
 Analysis Method: 8260C Date Collected: 03/03/2015 12:00
 Sample wt/vol: 5(mL) Date Analyzed: 03/04/2015 16:56
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 134740 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20
107-13-1	Acrylonitrile	20	U	20	0.55
123-91-1	1,4-Dioxane	200	U	200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		64-135
2037-26-5	Toluene-d8 (Surr)	104		71-118
460-00-4	4-Bromofluorobenzene (Surr)	104		70-118
1868-53-7	Dibromofluoromethane (Surr)	93		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304014.D
 Lims ID: 180-41696-A-6 Lab Sample ID: 180-41696-6
 Client ID: HD-MW-167-0/1-0
 Sample Type: Client
 Inject. Date: 04-Mar-2015 16:56:30 ALS Bottle#: 14 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-41696-A-6
 Misc. Info.: 180-0005893-014
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\MMSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 05-Mar-2015 07:55:01 Calib Date: 03-Mar-2015 18:29:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303018.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: gordonk

Date: 05-Mar-2015 07:55:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.308	4.320	-0.012	95	103674	1000.0	
* 2 Fluorobenzene (IS)	96	7.277	7.277	0.000	99	398465	50.0	
* 3 Chlorobenzene-d5	119	10.367	10.367	0.000	99	89051	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.685	12.691	-0.006	99	136191	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.529	6.528	0.001	54	79531	46.6	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.906	6.900	0.006	98	102737	48.7	
\$ 7 Toluene-d8 (Surr)	98	8.926	8.925	0.001	100	359663	51.8	
\$ 8 4-Bromofluorobenzene (Surr	95	11.529	11.535	-0.006	99	134524	52.1	
12 Chloromethane	50		1.777				ND	
13 Vinyl chloride	62		1.905				ND	
15 Bromomethane	94		2.252				ND	
16 Chloroethane	64		2.373				ND	
22 1,1-Dichloroethene	96		3.371				ND	
24 Acetone	43	3.505	3.493	0.012	20	4983	5.95	M
26 Carbon disulfide	76		3.651				ND	
31 Methylene Chloride	84		4.144				ND	
33 Acrylonitrile	53		4.551				ND	
34 trans-1,2-Dichloroethene	96		4.570				ND	
35 Methyl tert-butyl ether	73		4.600				ND	
37 1,1-Dichloroethane	63		5.172				ND	
45 cis-1,2-Dichloroethene	96		5.938				ND	
46 2-Butanone (MEK)	43		5.987				ND	
49 Chlorobromomethane	128		6.230				ND	
52 Chloroform	83	6.346	6.340	0.006	94	56188	15.2	
53 1,1,1-Trichloroethane	97		6.528				ND	
56 Carbon tetrachloride	117		6.717				ND	
58 Benzene	78		6.954				ND	
59 1,2-Dichloroethane	62		6.991				ND	
64 Trichloroethene	130	7.666	7.666	0.000	98	31171	13.2	
67 1,2-Dichloropropane	63		7.909				ND	
70 1,4-Dioxane	88		8.061				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83	8.196	8.201	-0.005	98	9296	4.18	
74 cis-1,3-Dichloropropene	75		8.658				ND	
75 4-Methyl-2-pentanone (MIBK)	43		8.828				ND	
76 Toluene	91	8.992	8.992	0.000	23	1718	0.1869	
77 trans-1,3-Dichloropropene	75		9.217				ND	
79 1,1,2-Trichloroethane	97		9.400				ND	
80 Tetrachloroethene	164	9.540	9.540	0.000	99	72533	42.8	
82 2-Hexanone	43		9.661				ND	
84 Chlorodibromomethane	129		9.795				ND	
85 Ethylene Dibromide	107		9.899				ND	
87 Chlorobenzene	112		10.391				ND	
89 1,1,1,2-Tetrachloroethane	131		10.477				ND	
90 Ethylbenzene	106		10.501				ND	
91 m-Xylene & p-Xylene	106	10.623	10.623	0.000	92	1287	0.3070	
92 o-Xylene	106	11.018	11.012	0.006	31	642	0.1578	
93 Styrene	104		11.030				ND	
94 Bromoform	173		11.213				ND	
99 1,1,2,2-Tetrachloroethane	83		11.675				ND	
S 133 Xylenes, Total	106				0		0.4647	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00029

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00031

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304014.D

Injection Date: 04-Mar-2015 16:56:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: 180-41696-A-6

Lab Sample ID: 180-41696-6

Worklist Smp#: 14

Client ID: HD-MW-167-0/1-0

Purge Vol: 5.000 mL

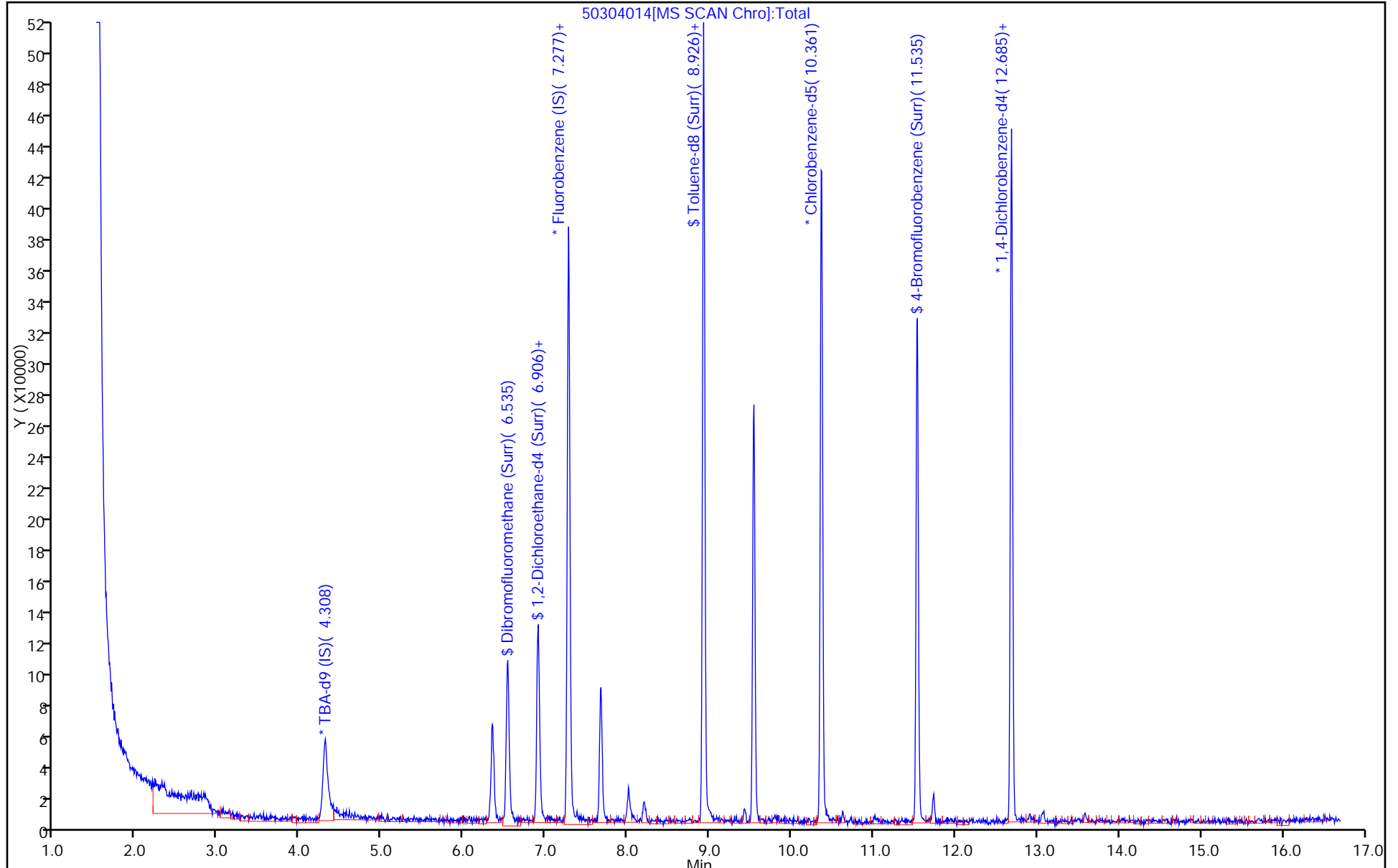
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304014.D

Injection Date: 04-Mar-2015 16:56:30

Instrument ID: CHHP5

Lims ID: 180-41696-A-6

Lab Sample ID: 180-41696-6

Client ID: HD-MW-167-0/1-0

Operator ID: 001562

ALS Bottle#: 14

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

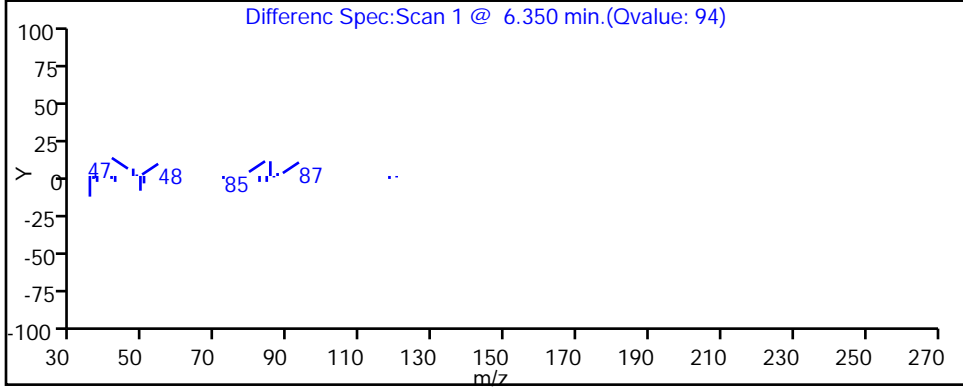
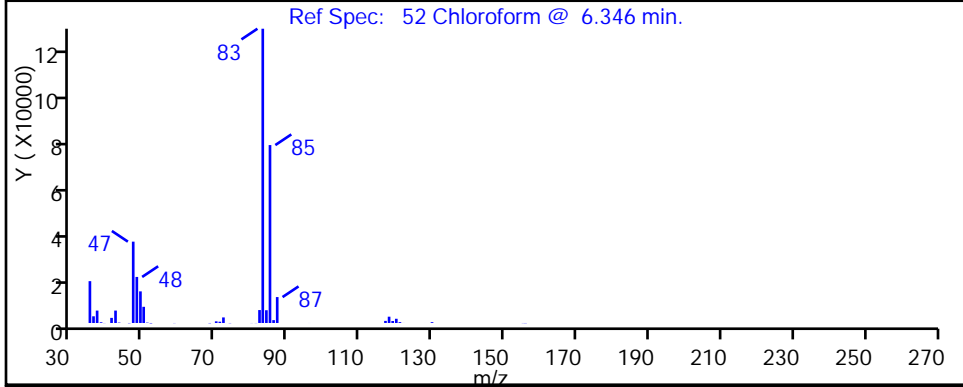
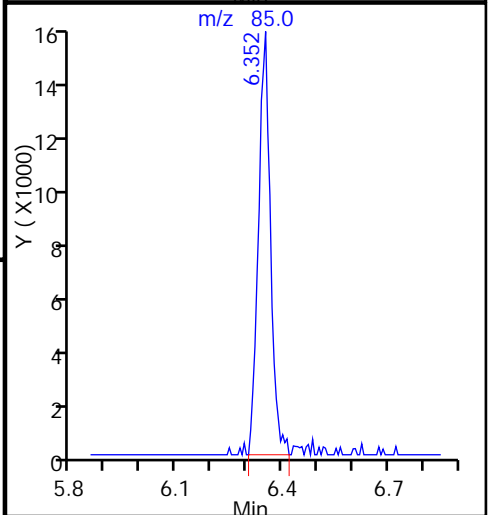
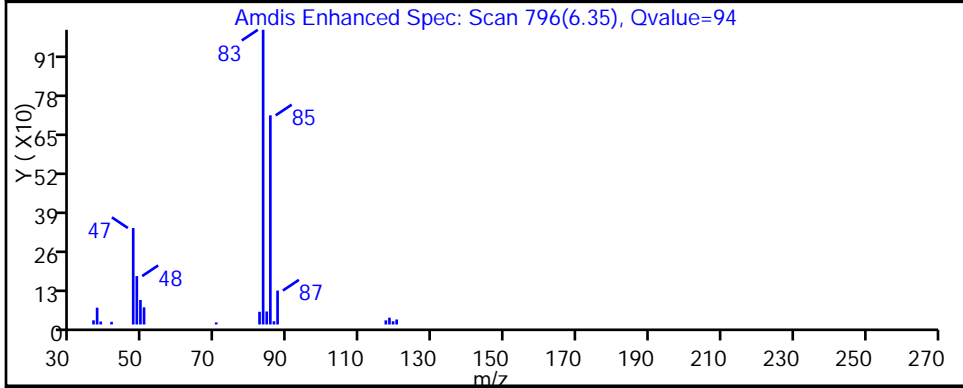
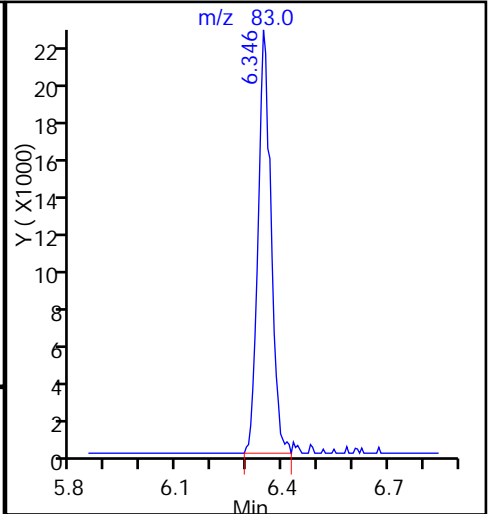
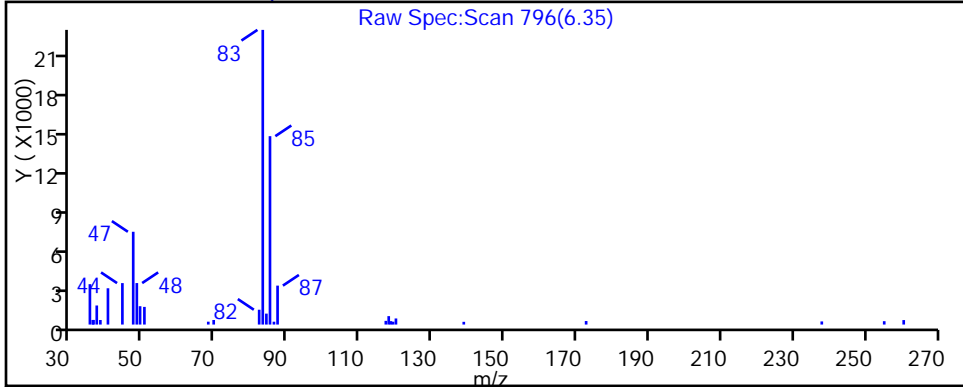
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

52 Chloroform, CAS: 67-66-3



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304014.D

Injection Date: 04-Mar-2015 16:56:30

Instrument ID: CHHP5

Lims ID: 180-41696-A-6

Lab Sample ID: 180-41696-6

Client ID: HD-MW-167-0/1-0

Operator ID: 001562

ALS Bottle#: 14

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

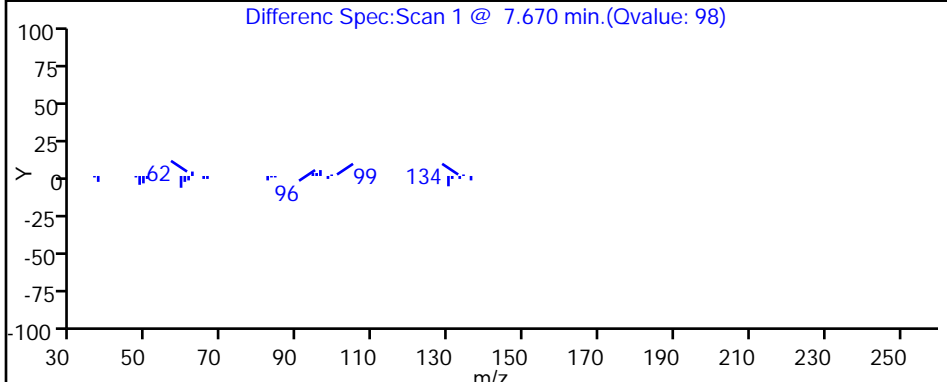
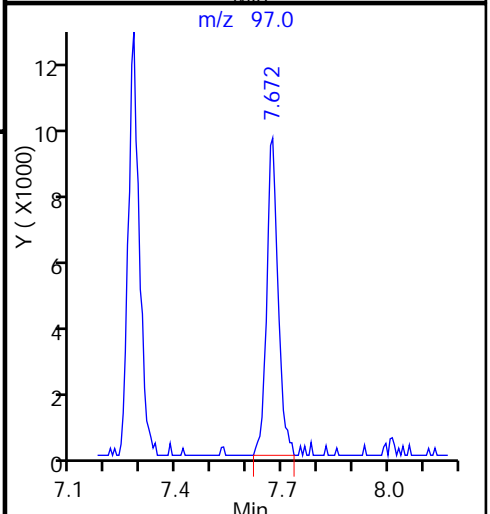
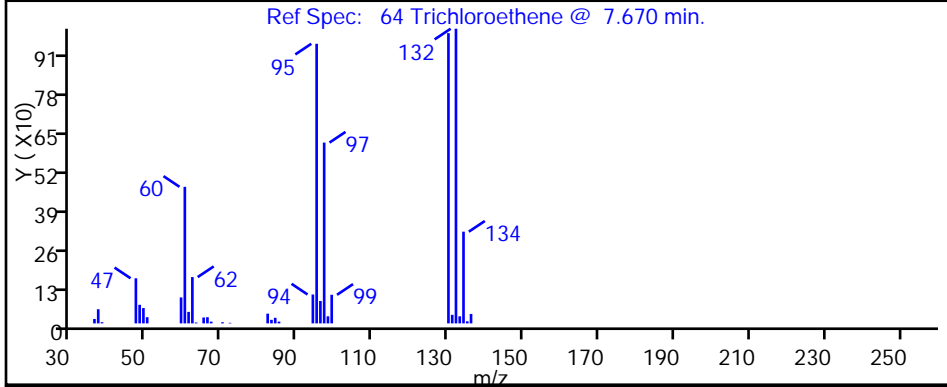
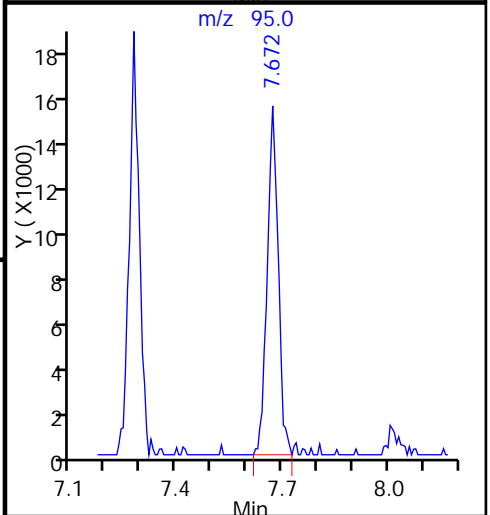
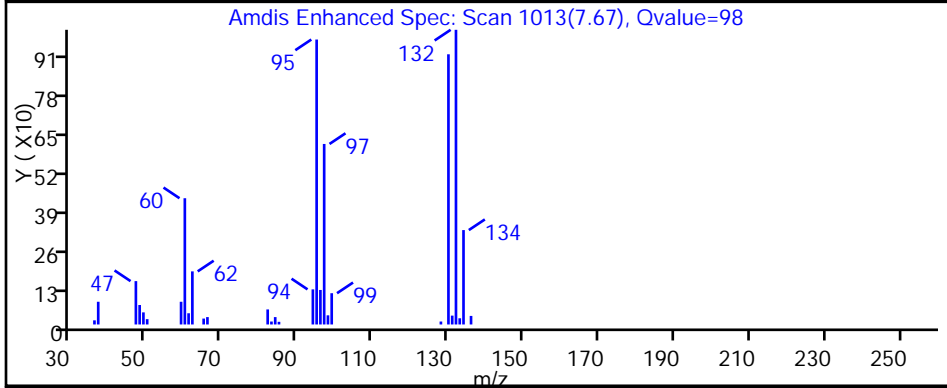
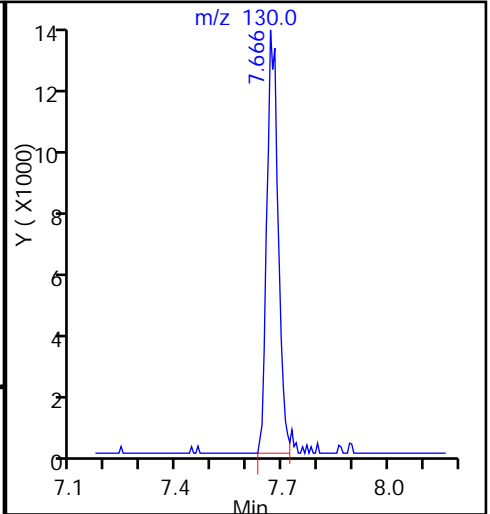
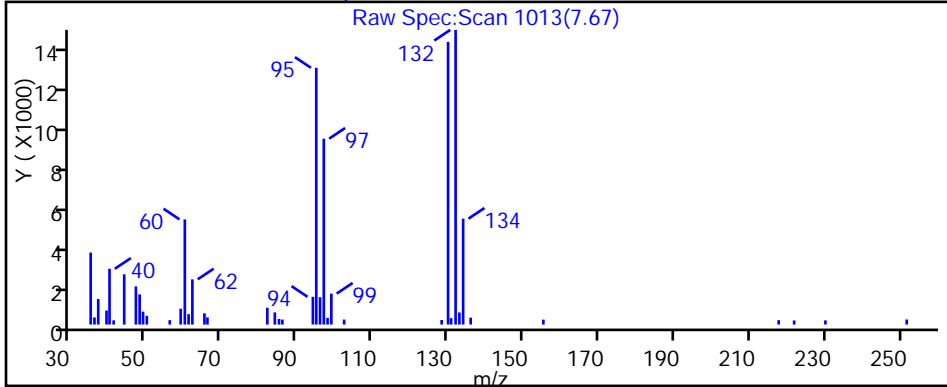
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

64 Trichloroethene, CAS: 79-01-6



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304014.D

Injection Date: 04-Mar-2015 16:56:30

Instrument ID: CHHP5

Lims ID: 180-41696-A-6

Lab Sample ID: 180-41696-6

Client ID: HD-MW-167-0/1-0

Operator ID: 001562

ALS Bottle#: 14

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

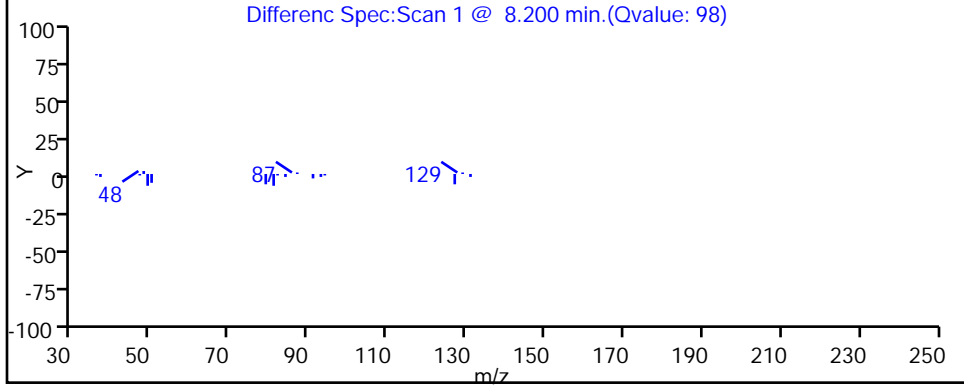
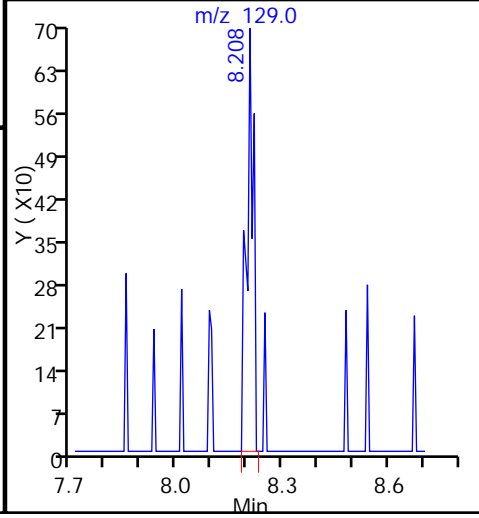
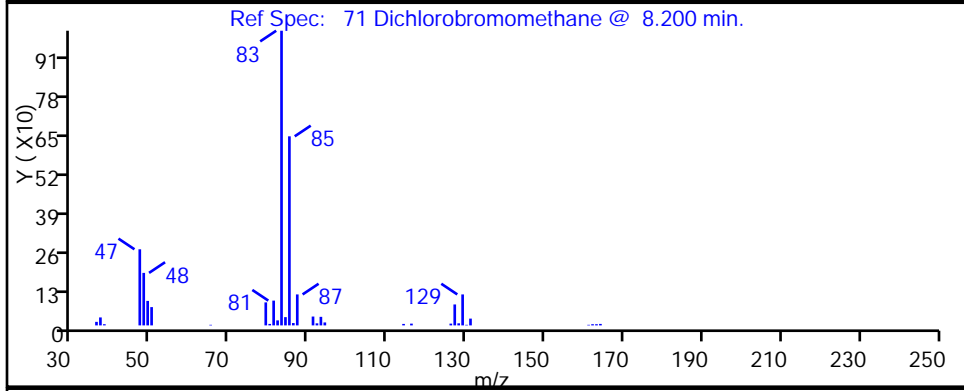
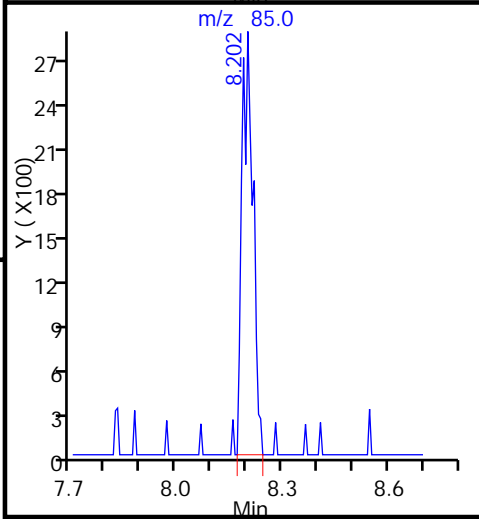
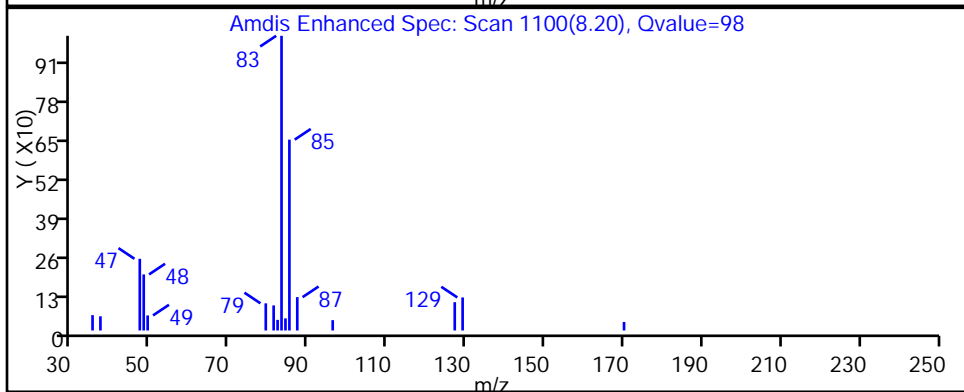
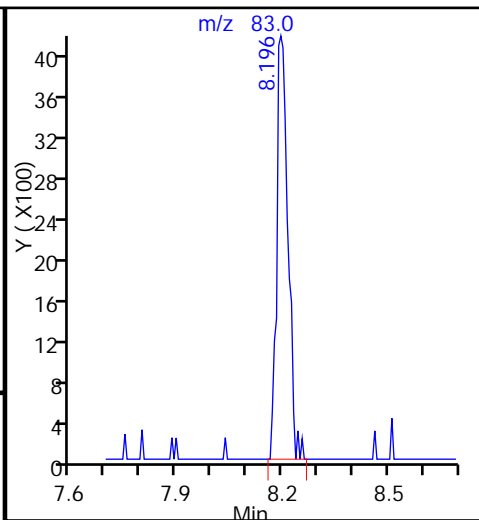
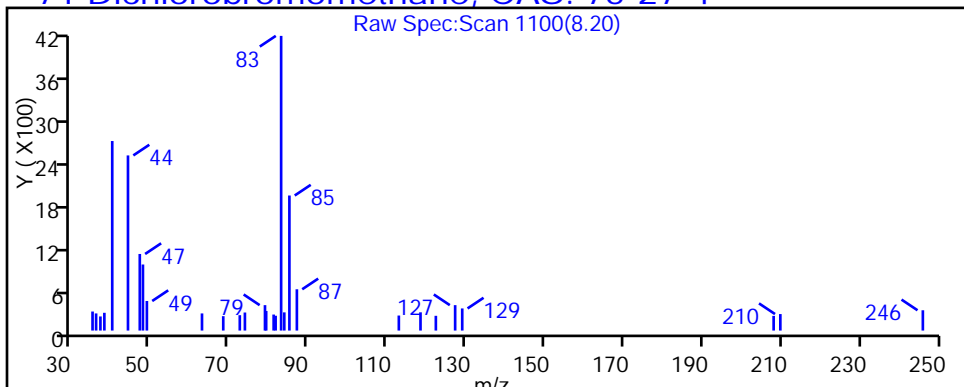
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

71 Dichlorobromomethane, CAS: 75-27-4



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304014.D

Injection Date: 04-Mar-2015 16:56:30

Instrument ID: CHHP5

Lims ID: 180-41696-A-6

Lab Sample ID: 180-41696-6

Client ID: HD-MW-167-0/1-0

Operator ID: 001562

ALS Bottle#: 14

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

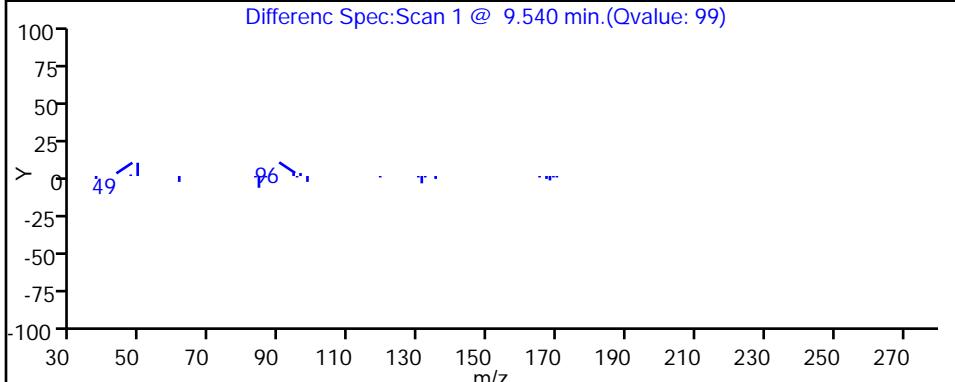
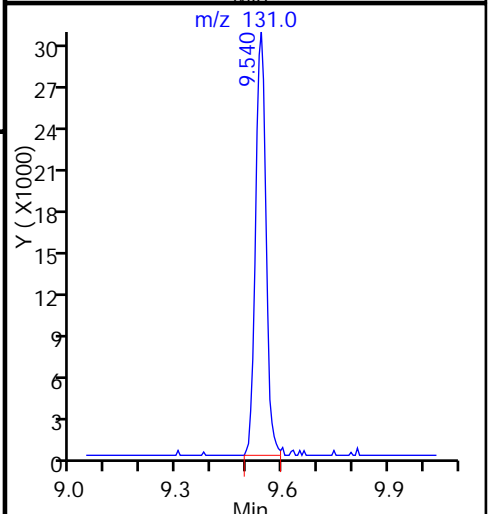
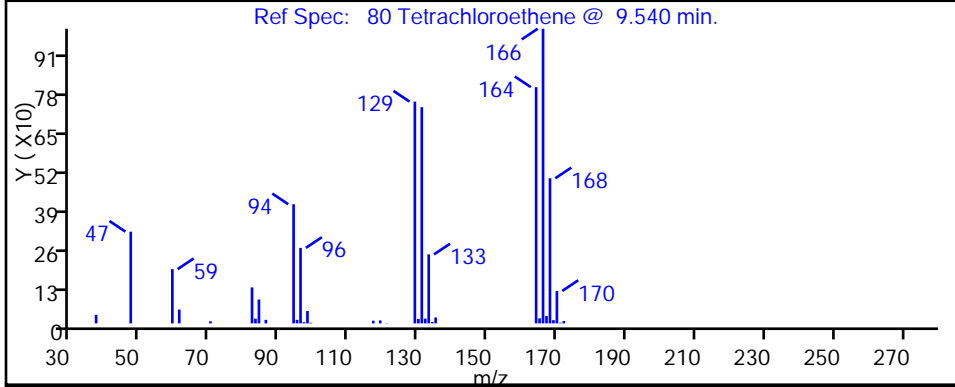
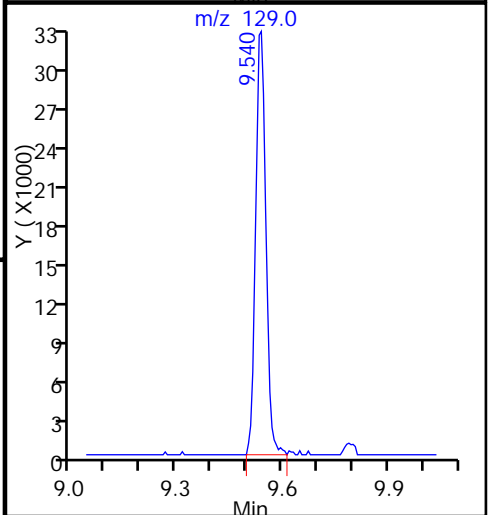
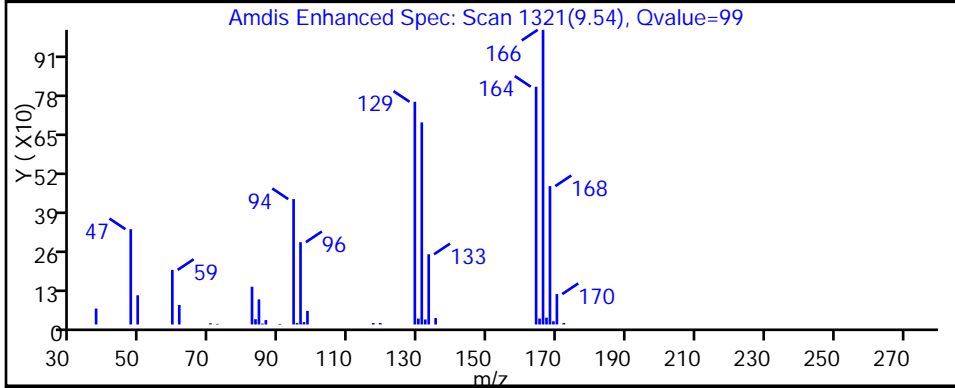
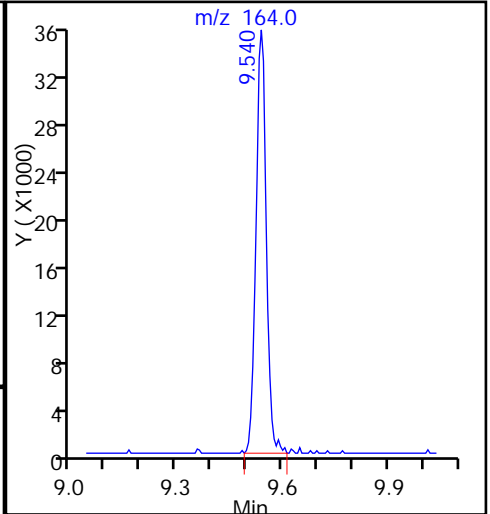
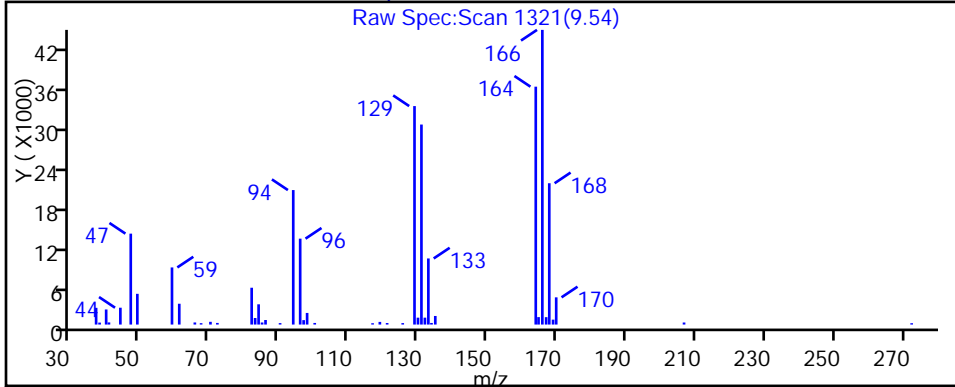
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

80 Tetrachloroethene, CAS: 127-18-4



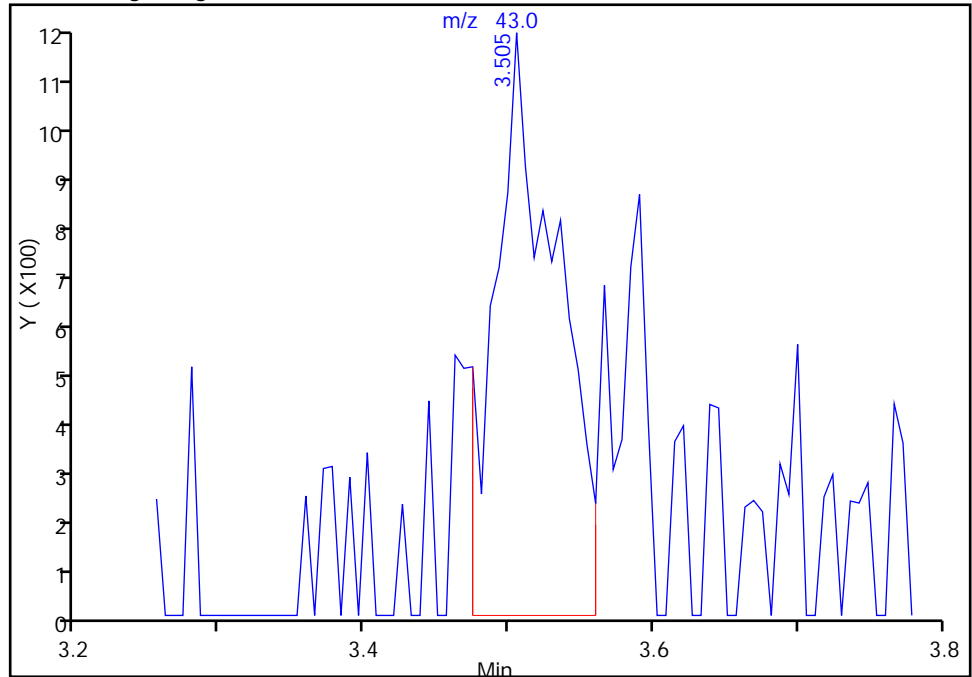
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304014.D
Injection Date: 04-Mar-2015 16:56:30 Instrument ID: CHHP5
Lims ID: 180-41696-A-6 Lab Sample ID: 180-41696-6
Client ID: HD-MW-167-0/1-0
Operator ID: 001562 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

24 Acetone, CAS: 67-64-1

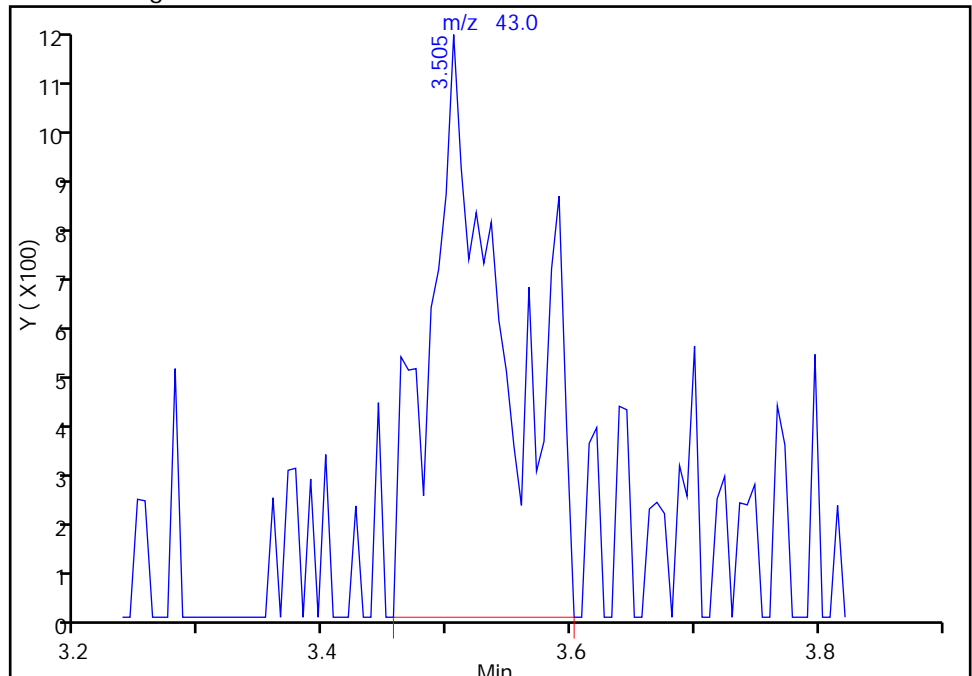
RT: 3.51
Area: 3461
Amount: 4.135744
Amount Units: ng

Processing Integration Results



RT: 3.51
Area: 4983
Amount: 5.954467
Amount Units: ng

Manual Integration Results



Reviewer: gordonk, 05-Mar-2015 07:55:01
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Client Sample ID: HD-MW-171-0/1-0 Lab Sample ID: 180-41696-7
 Matrix: Water Lab File ID: 50304015.D
 Analysis Method: 8260C Date Collected: 03/03/2015 13:30
 Sample wt/vol: 5(mL) Date Analyzed: 03/04/2015 17:21
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 134740 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.28
75-01-4	Vinyl chloride	1.0	U	1.0	0.23
74-83-9	Bromomethane	1.0	U	1.0	0.31
75-00-3	Chloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.30
67-64-1	Acetone	14		5.0	2.5
75-15-0	Carbon disulfide	0.29	J	1.0	0.21
75-09-2	Methylene Chloride	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.17
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.18
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.12
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.24
74-97-5	Bromochloromethane	1.0	U	1.0	0.18
78-93-3	2-Butanone (MEK)	57		5.0	0.55
67-66-3	Chloroform	1.0	U	1.0	0.17
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.29
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.14
71-43-2	Benzene	1.4		1.0	0.11
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
79-01-6	Trichloroethene	0.14	J	1.0	0.14
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.095
75-27-4	Bromodichloromethane	1.0	U	1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	1.6	J	5.0	0.53
108-88-3	Toluene	1.1		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.15
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.20
127-18-4	Tetrachloroethene	1.0		1.0	0.15
591-78-6	2-Hexanone	0.58	J	5.0	0.16
124-48-1	Dibromochloromethane	1.0	U	1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
100-41-4	Ethylbenzene	1.0	U	1.0	0.23
1330-20-7	Xylenes, Total	3.0	U	3.0	0.49
100-42-5	Styrene	0.098	J	1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Client Sample ID: HD-MW-171-0/1-0 Lab Sample ID: 180-41696-7
 Matrix: Water Lab File ID: 50304015.D
 Analysis Method: 8260C Date Collected: 03/03/2015 13:30
 Sample wt/vol: 5(mL) Date Analyzed: 03/04/2015 17:21
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 134740 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20
107-13-1	Acrylonitrile	0.72	J	20	0.55
123-91-1	1,4-Dioxane	200	U	200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		64-135
2037-26-5	Toluene-d8 (Surr)	105		71-118
460-00-4	4-Bromofluorobenzene (Surr)	106		70-118
1868-53-7	Dibromofluoromethane (Surr)	100		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304015.D
 Lims ID: 180-41696-A-7 Lab Sample ID: 180-41696-7
 Client ID: HD-MW-171-0/1-0
 Sample Type: Client
 Inject. Date: 04-Mar-2015 17:21:30 ALS Bottle#: 15 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-41696-A-7
 Misc. Info.: 180-0005893-015
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\MMSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 05-Mar-2015 07:57:45 Calib Date: 03-Mar-2015 18:29:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303018.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: gordonk

Date: 05-Mar-2015 07:57:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.298	4.320	-0.022	96	120160	1000.0	
* 2 Fluorobenzene (IS)	96	7.279	7.277	0.002	99	380117	50.0	
* 3 Chlorobenzene-d5	119	10.357	10.367	-0.010	100	85383	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.687	12.691	-0.004	98	142818	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.531	6.528	0.003	53	81668	50.2	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.902	6.900	0.002	99	99688	49.6	
\$ 7 Toluene-d8 (Surr)	98	8.928	8.925	0.003	100	348942	52.4	
\$ 8 4-Bromofluorobenzene (Surr	95	11.531	11.535	-0.004	97	130813	52.8	
12 Chloromethane	50		1.777				ND	M
13 Vinyl chloride	62		1.905				ND	
15 Bromomethane	94		2.252				ND	
16 Chloroethane	64		2.373				ND	
22 1,1-Dichloroethene	96		3.371				ND	
24 Acetone	43	3.501	3.493	0.008	100	54915	68.8	
26 Carbon disulfide	76	3.659	3.651	0.008	95	7930	1.46	
31 Methylene Chloride	84		4.144				ND	
33 Acrylonitrile	53	4.578	4.551	0.027	1	3901	3.58	M
34 trans-1,2-Dichloroethene	96		4.570				ND	
35 Methyl tert-butyl ether	73		4.600				ND	
37 1,1-Dichloroethane	63		5.172				ND	
45 cis-1,2-Dichloroethene	96		5.938				ND	
46 2-Butanone (MEK)	43	5.989	5.987	0.002	100	371899	285.9	
49 Chlorobromomethane	128		6.230				ND	
52 Chloroform	83		6.340				ND	
53 1,1,1-Trichloroethane	97		6.528				ND	
56 Carbon tetrachloride	117		6.717				ND	
58 Benzene	78	6.957	6.954	0.003	99	66579	6.93	
59 1,2-Dichloroethane	62		6.991				ND	
64 Trichloroethene	130	7.675	7.666	0.009	86	1567	0.6930	
67 1,2-Dichloropropane	63		7.909				ND	
70 1,4-Dioxane	88		8.061				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.201				ND	
74 cis-1,3-Dichloropropene	75		8.658				ND	
75 4-Methyl-2-pentanone (MIBK)	43	8.824	8.828	-0.004	97	20254	7.86	
76 Toluene	91	8.995	8.992	0.003	100	46919	5.32	
77 trans-1,3-Dichloropropene	75		9.217				ND	
79 1,1,2-Trichloroethane	97		9.400				ND	
80 Tetrachloroethene	164	9.542	9.540	0.002	97	8302	5.11	
82 2-Hexanone	43	9.670	9.661	0.009	53	5237	2.91	M
84 Chlorodibromomethane	129		9.795				ND	
85 Ethylene Dibromide	107		9.899				ND	
87 Chlorobenzene	112		10.391				ND	
89 1,1,1,2-Tetrachloroethane	131		10.477				ND	
90 Ethylbenzene	106	10.503	10.501	0.002	0	516	0.1581	
91 m-Xylene & p-Xylene	106	10.625	10.623	0.002	94	2793	0.6948	
92 o-Xylene	106	11.020	11.012	0.008	9	697	0.1787	
93 Styrene	104	11.033	11.030	0.003	83	3132	0.4911	
94 Bromoform	173		11.213				ND	
99 1,1,2,2-Tetrachloroethane	83		11.675				ND	
S 133 Xylenes, Total	106				0		0.8734	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00029

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00031

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304015.D

Injection Date: 04-Mar-2015 17:21:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: 180-41696-A-7

Lab Sample ID: 180-41696-7

Worklist Smp#: 15

Client ID: HD-MW-171-0/1-0

Purge Vol: 5.000 mL

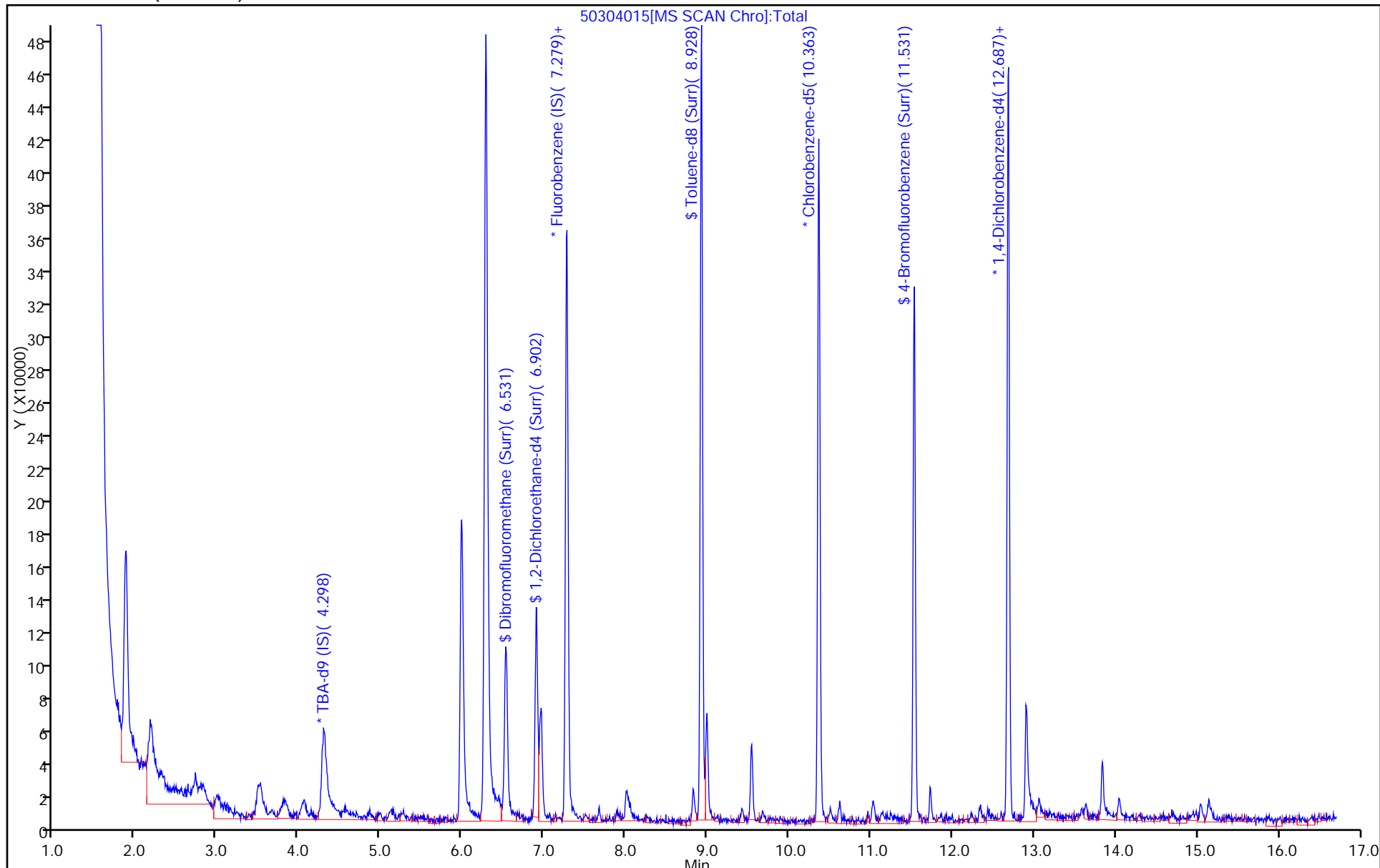
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304015.D

Injection Date: 04-Mar-2015 17:21:30

Instrument ID: CHHP5

Lims ID: 180-41696-A-7

Lab Sample ID: 180-41696-7

Client ID: HD-MW-171-0/1-0

Operator ID: 001562

ALS Bottle#: 15

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

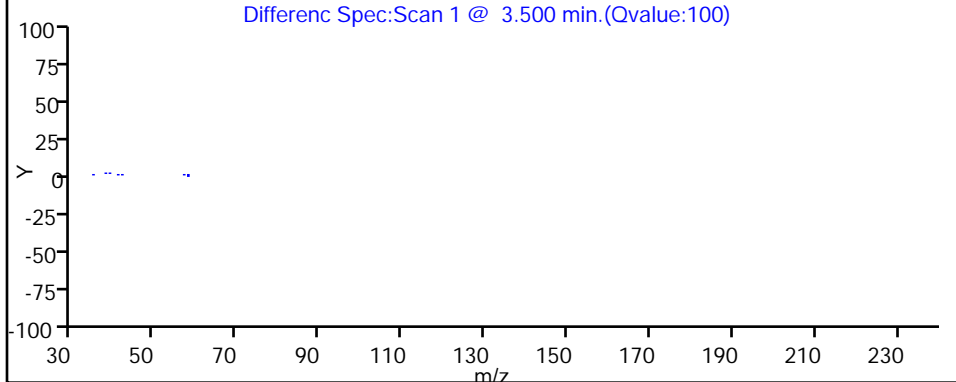
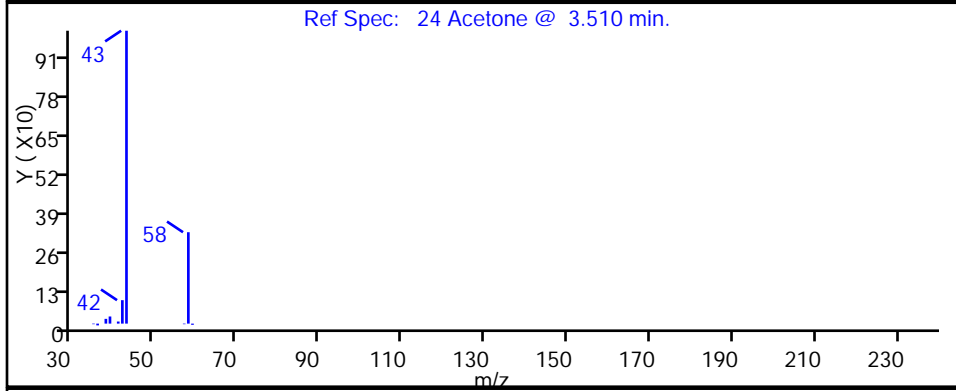
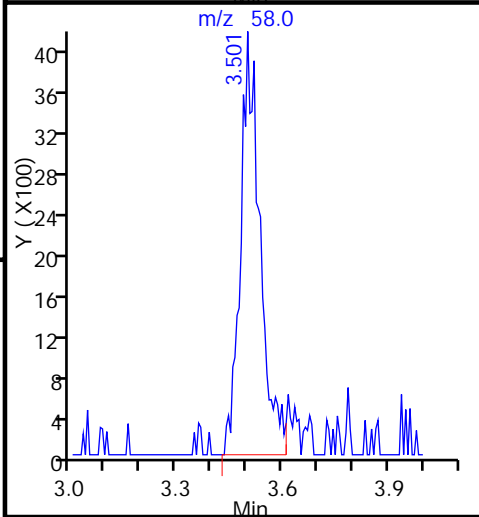
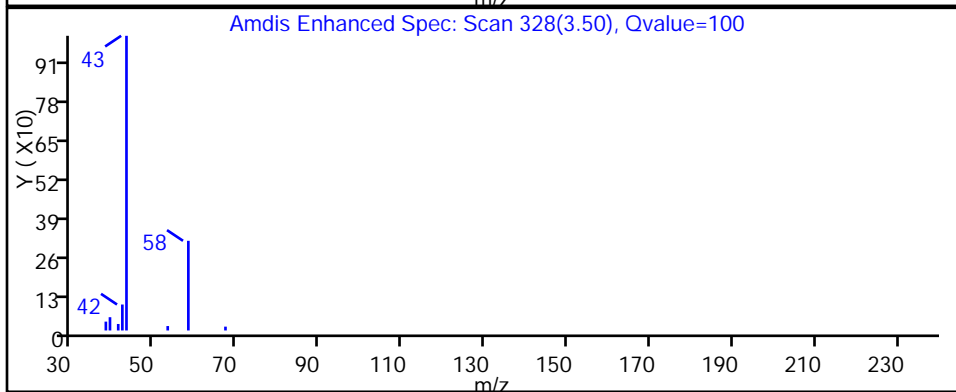
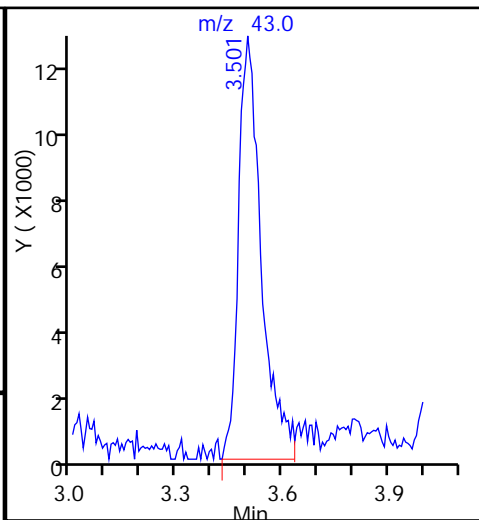
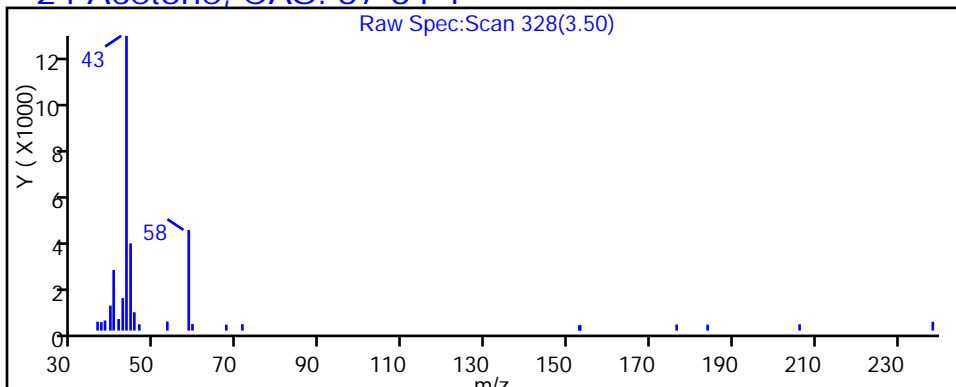
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

24 Acetone, CAS: 67-64-1



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304015.D

Injection Date: 04-Mar-2015 17:21:30

Instrument ID: CHHP5

Lims ID: 180-41696-A-7

Lab Sample ID: 180-41696-7

Client ID: HD-MW-171-0/1-0

Operator ID: 001562

ALS Bottle#: 15 Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

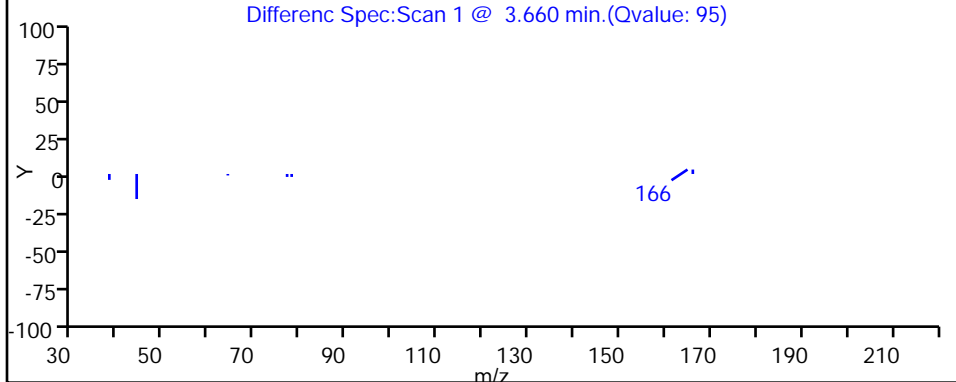
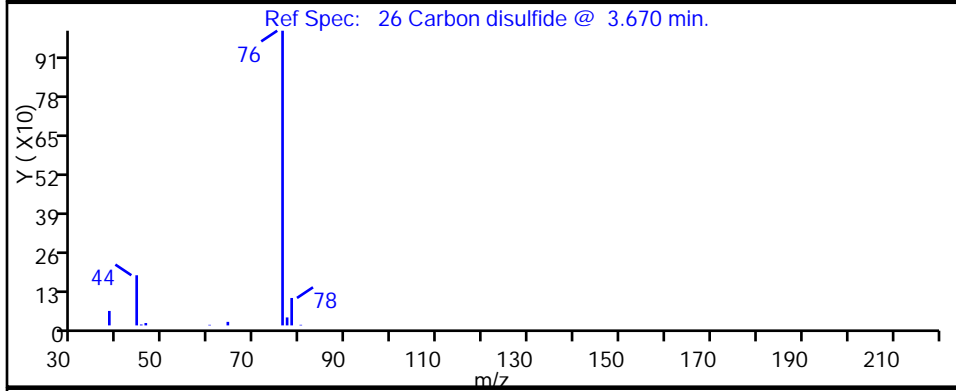
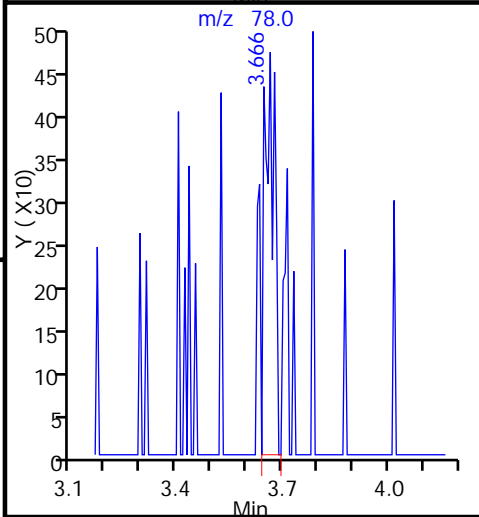
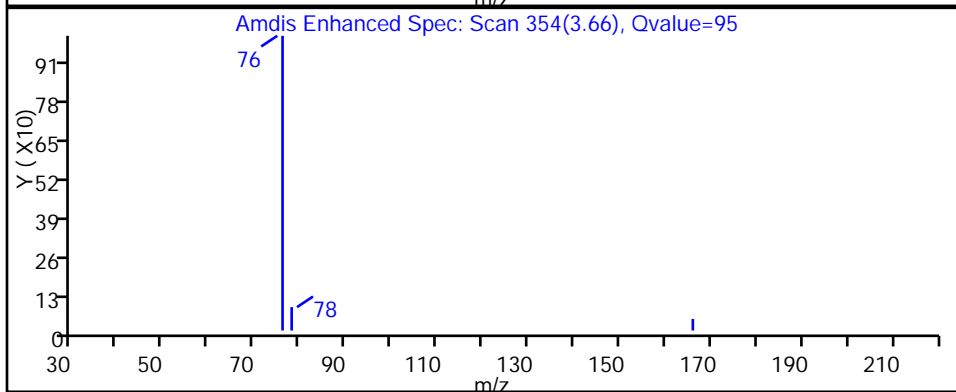
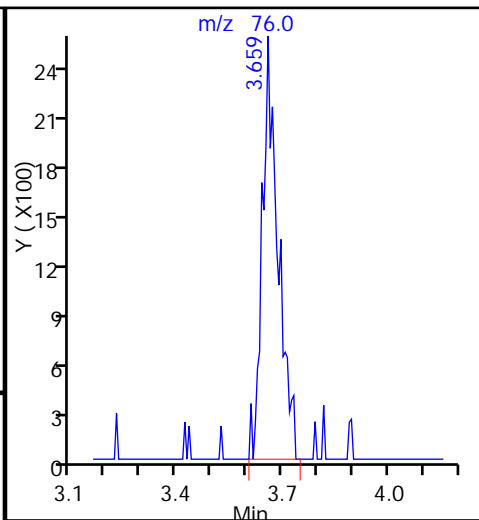
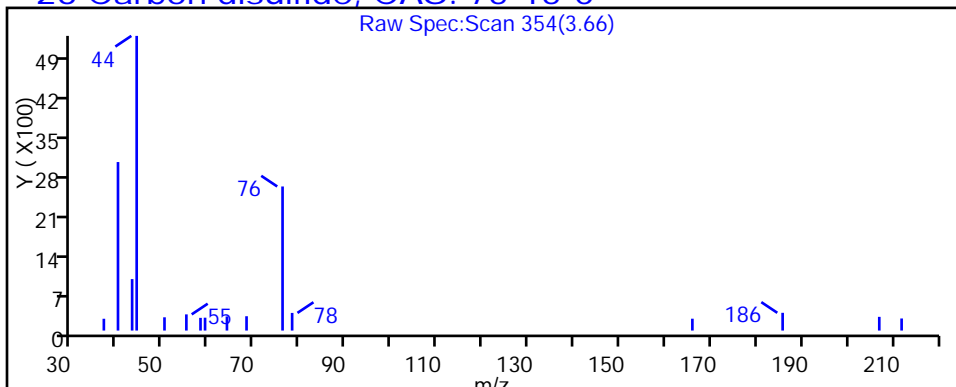
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

26 Carbon disulfide, CAS: 75-15-0



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304015.D

Injection Date: 04-Mar-2015 17:21:30

Instrument ID: CHHP5

Lims ID: 180-41696-A-7

Lab Sample ID: 180-41696-7

Client ID: HD-MW-171-0/1-0

Operator ID: 001562

ALS Bottle#: 15

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

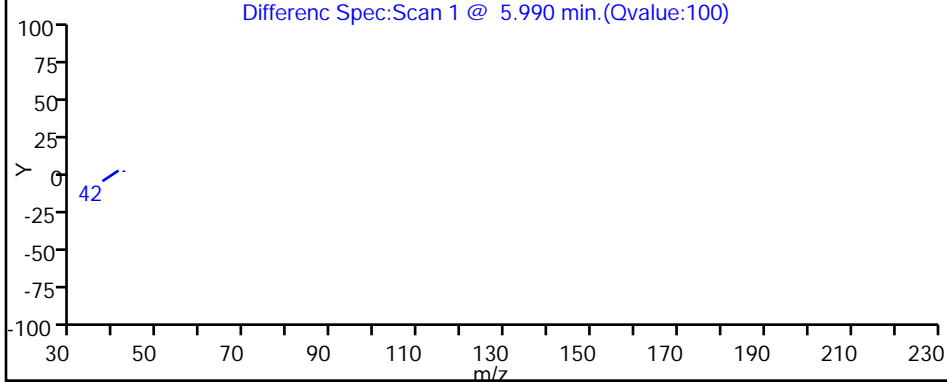
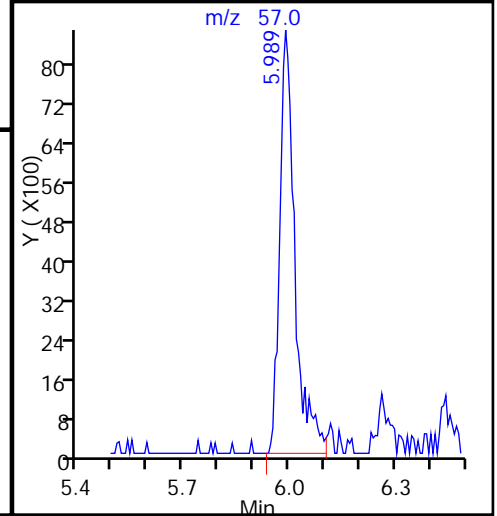
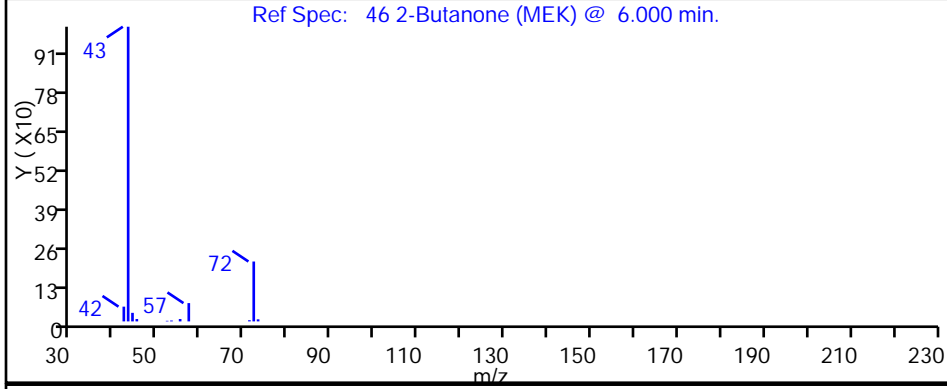
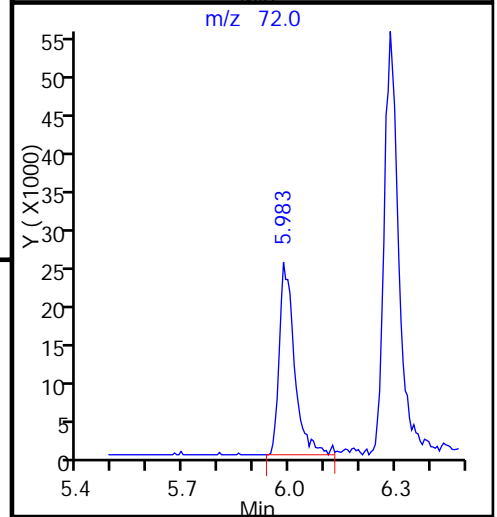
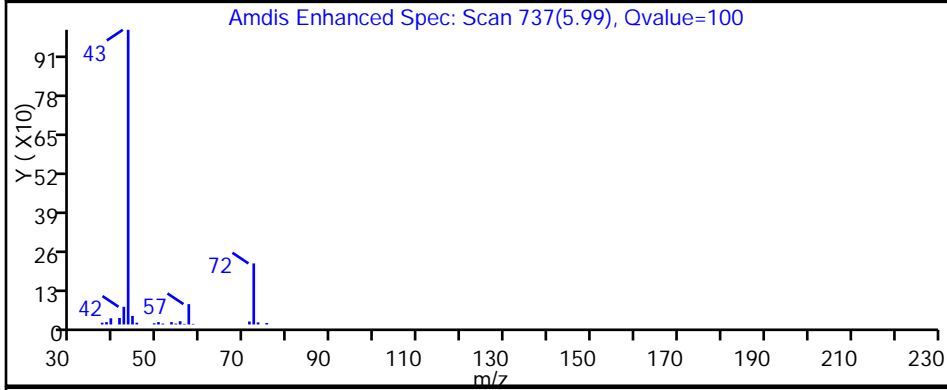
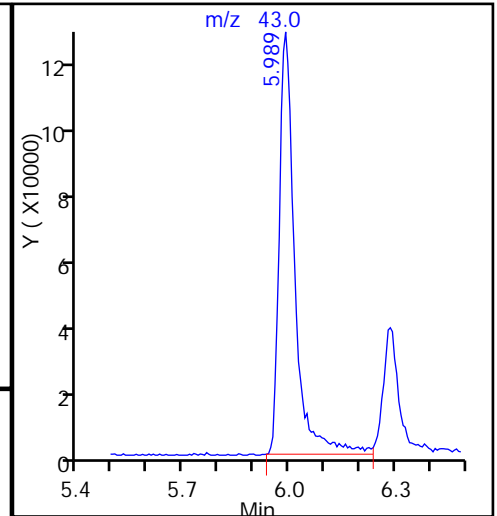
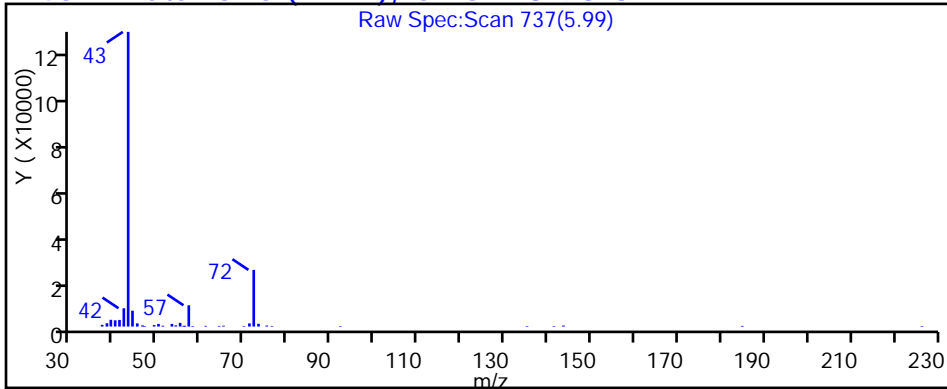
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

46 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304015.D

Injection Date: 04-Mar-2015 17:21:30

Instrument ID: CHHP5

Lims ID: 180-41696-A-7

Lab Sample ID: 180-41696-7

Client ID: HD-MW-171-0/1-0

Operator ID: 001562

ALS Bottle#: 15 Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

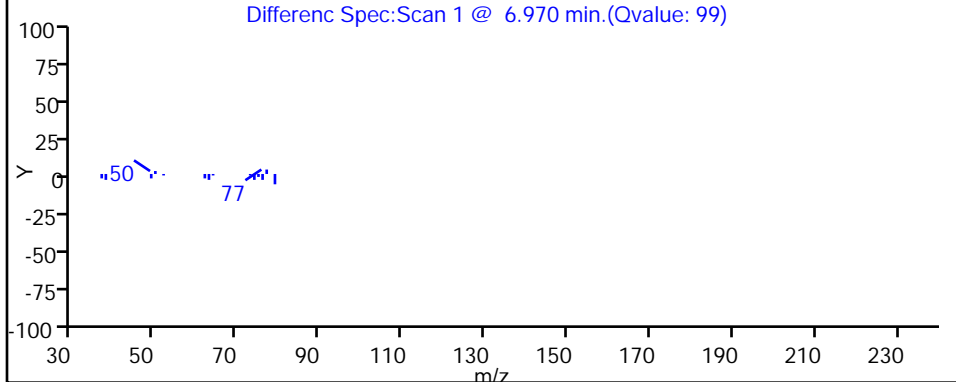
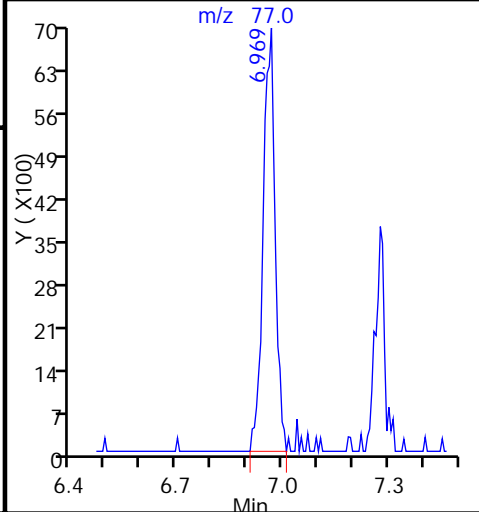
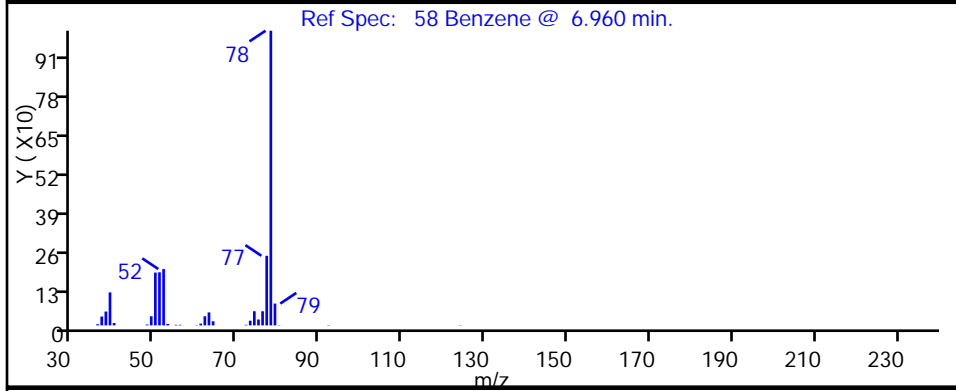
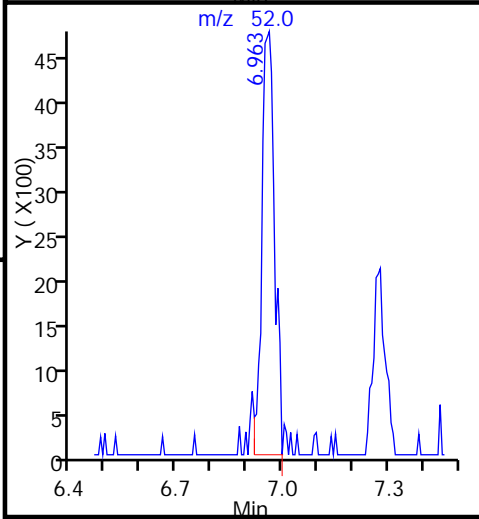
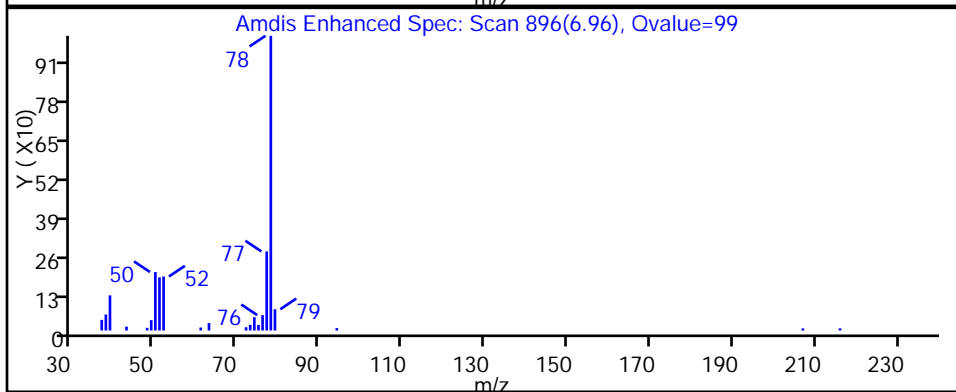
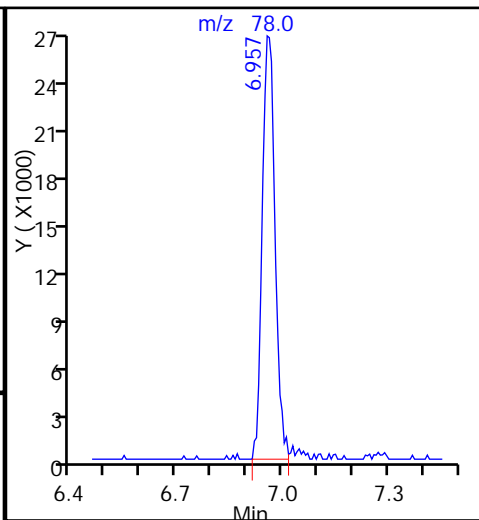
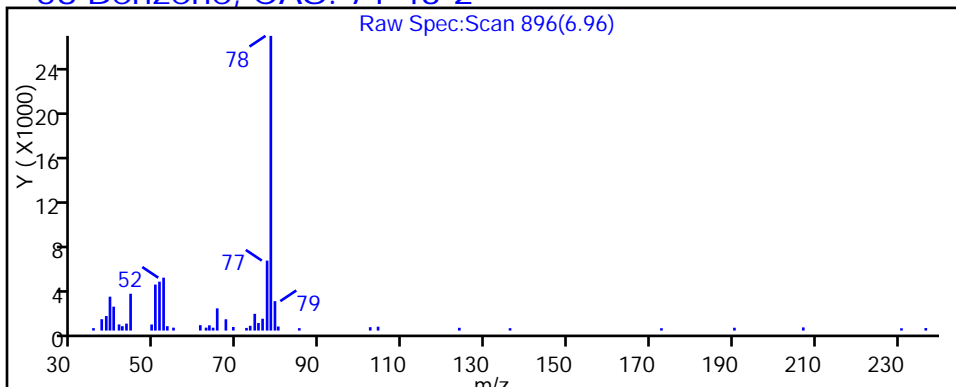
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

58 Benzene, CAS: 71-43-2



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304015.D

Injection Date: 04-Mar-2015 17:21:30

Instrument ID: CHHP5

Lims ID: 180-41696-A-7

Lab Sample ID: 180-41696-7

Client ID: HD-MW-171-0/1-0

Operator ID: 001562

ALS Bottle#: 15 Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

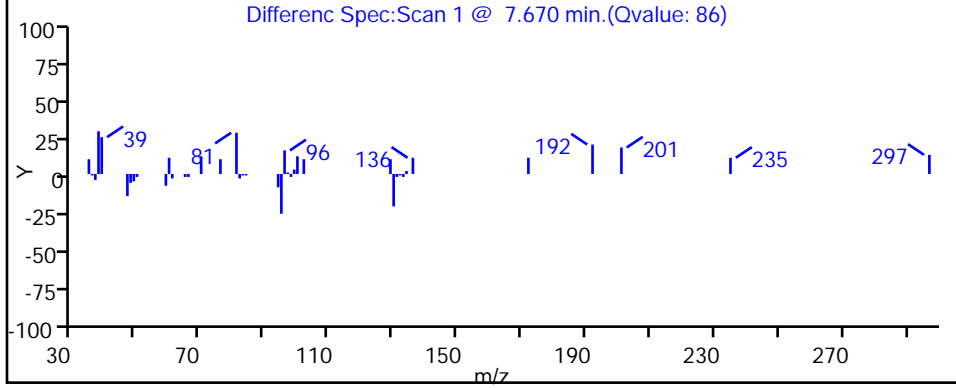
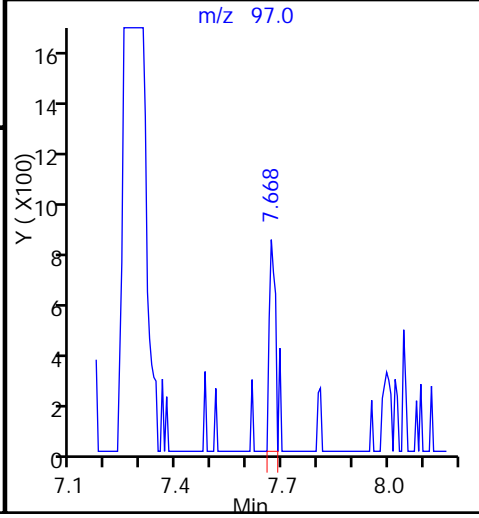
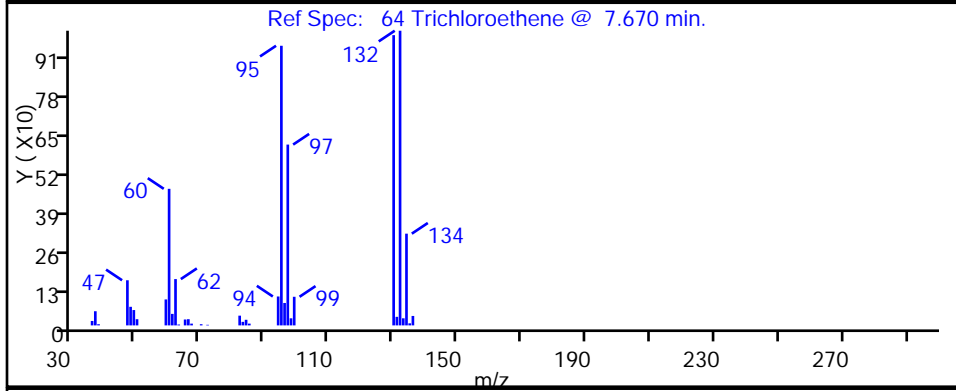
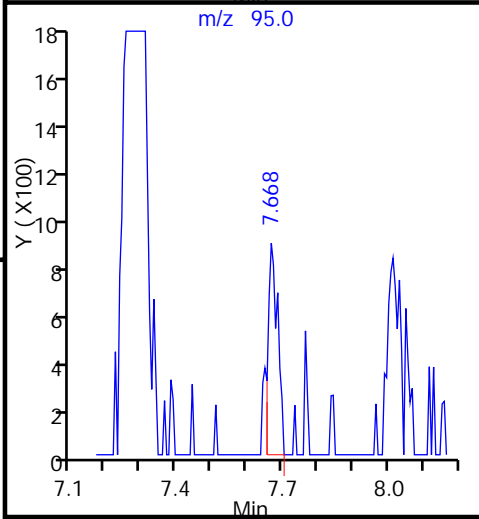
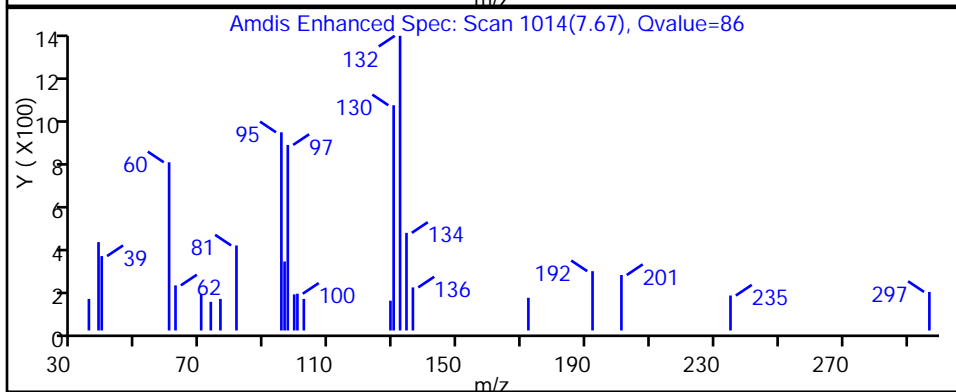
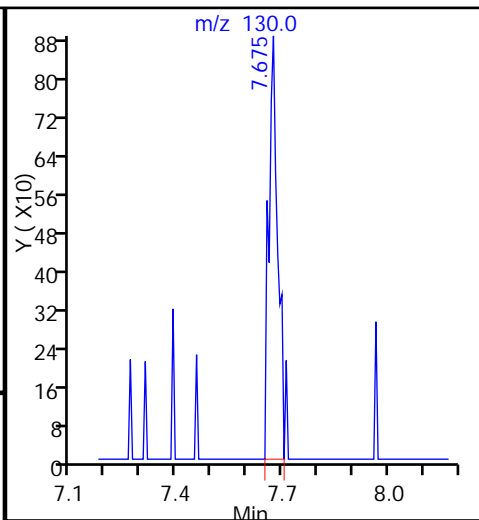
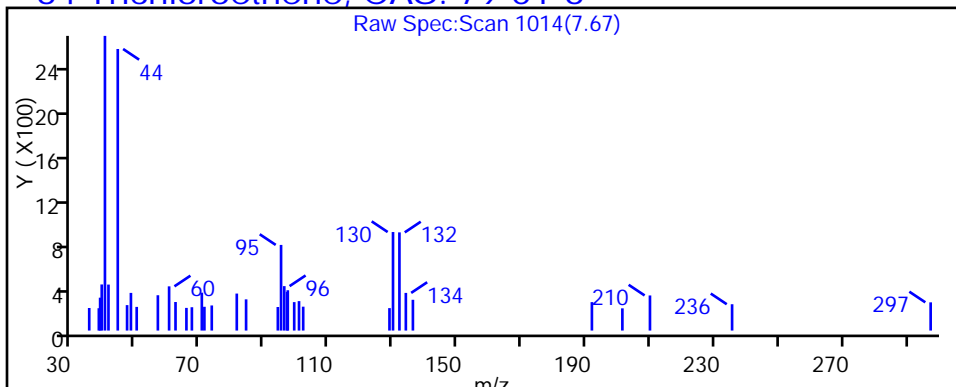
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

64 Trichloroethene, CAS: 79-01-6



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304015.D

Injection Date: 04-Mar-2015 17:21:30

Instrument ID: CHHP5

Lims ID: 180-41696-A-7

Lab Sample ID: 180-41696-7

Client ID: HD-MW-171-0/1-0

Operator ID: 001562

ALS Bottle#: 15

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

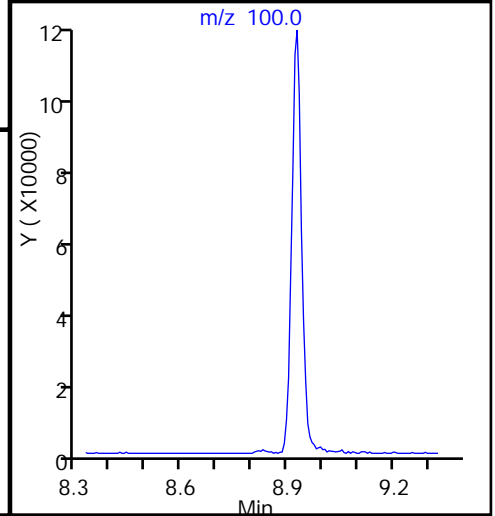
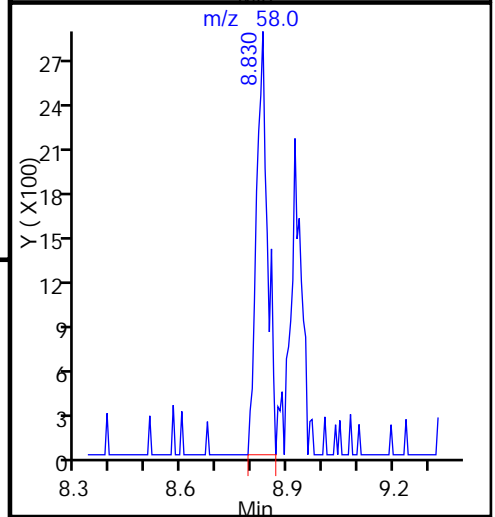
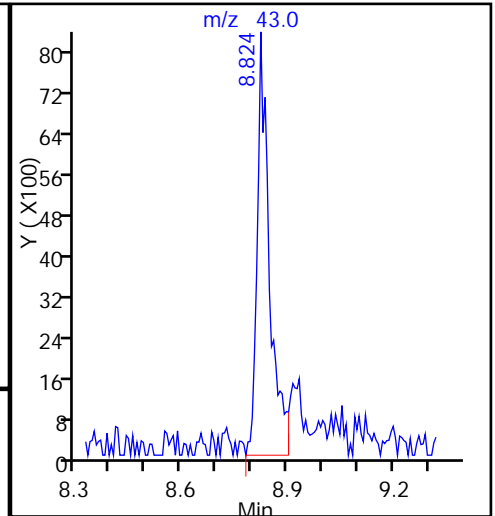
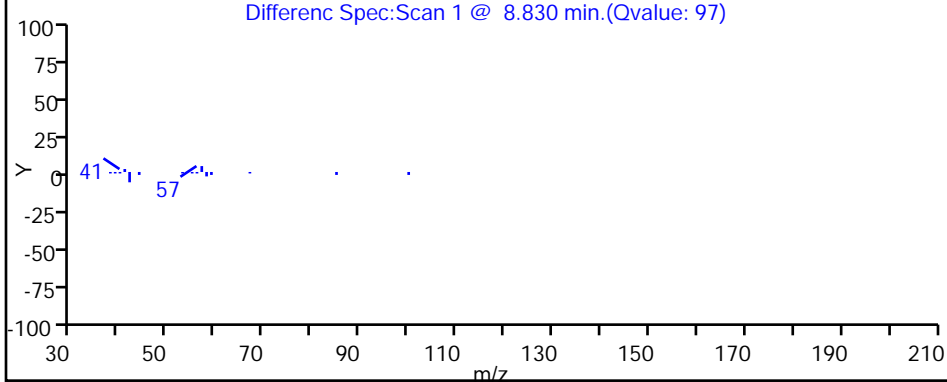
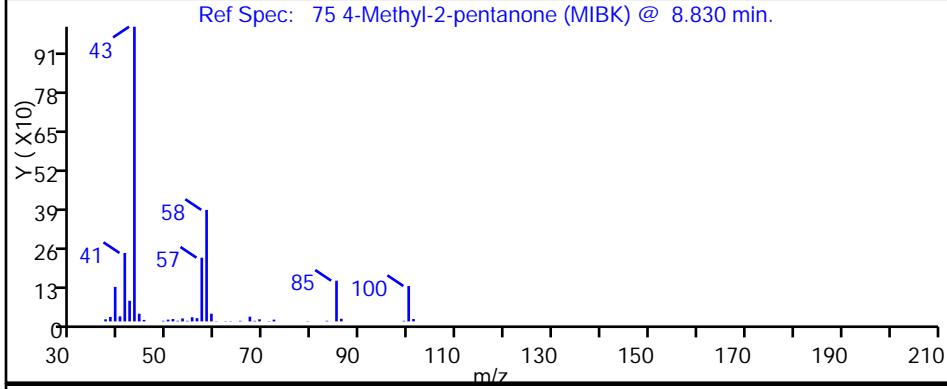
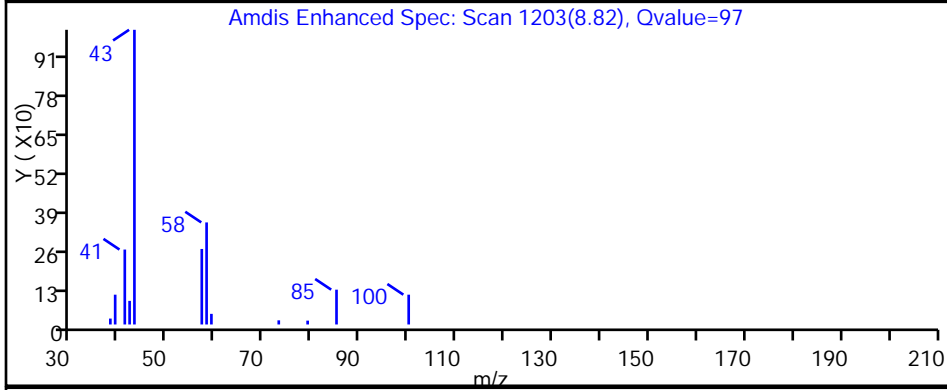
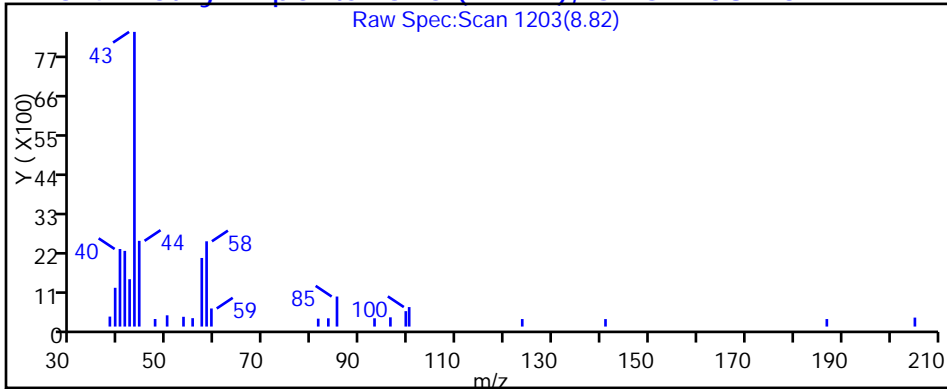
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

75 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304015.D

Injection Date: 04-Mar-2015 17:21:30

Instrument ID: CHHP5

Lims ID: 180-41696-A-7

Lab Sample ID: 180-41696-7

Client ID: HD-MW-171-0/1-0

Operator ID: 001562

ALS Bottle#: 15

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

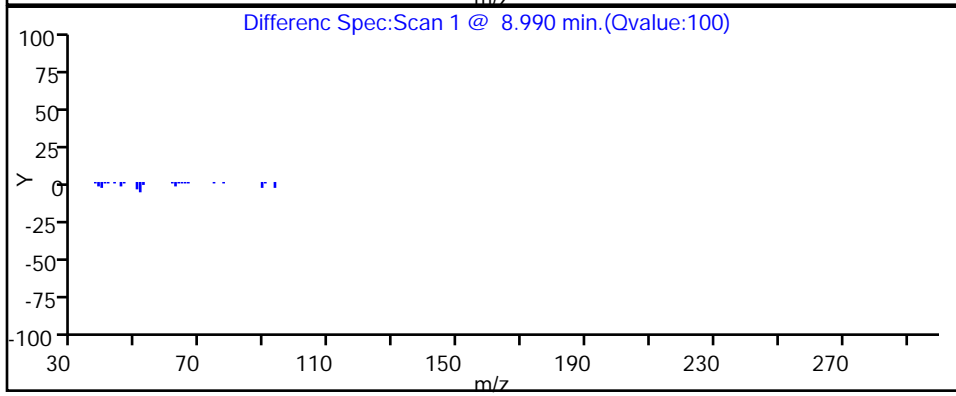
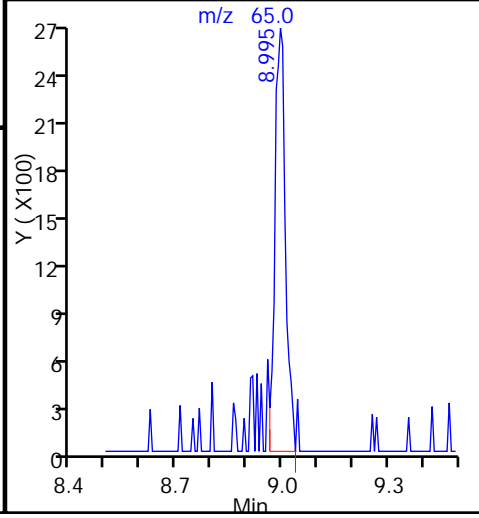
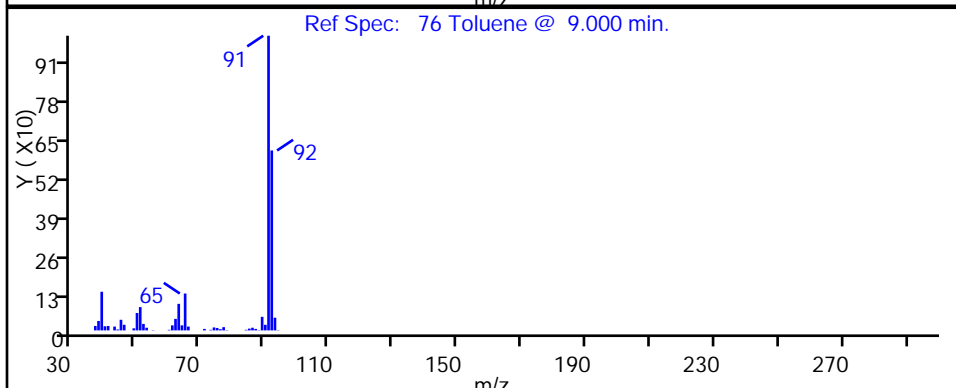
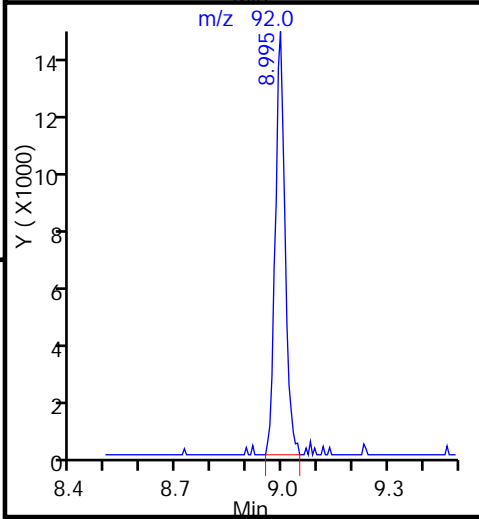
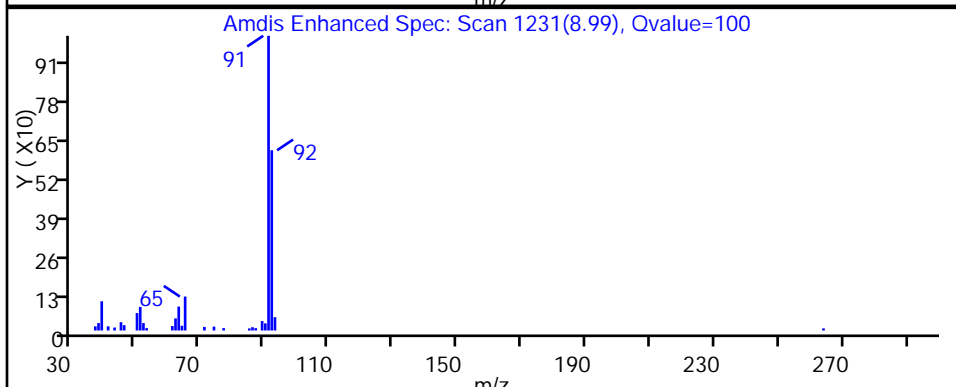
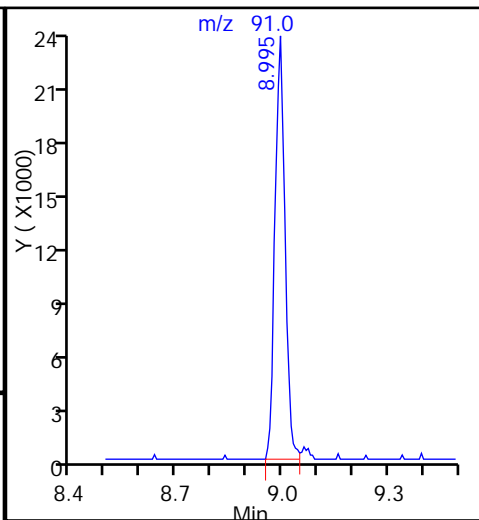
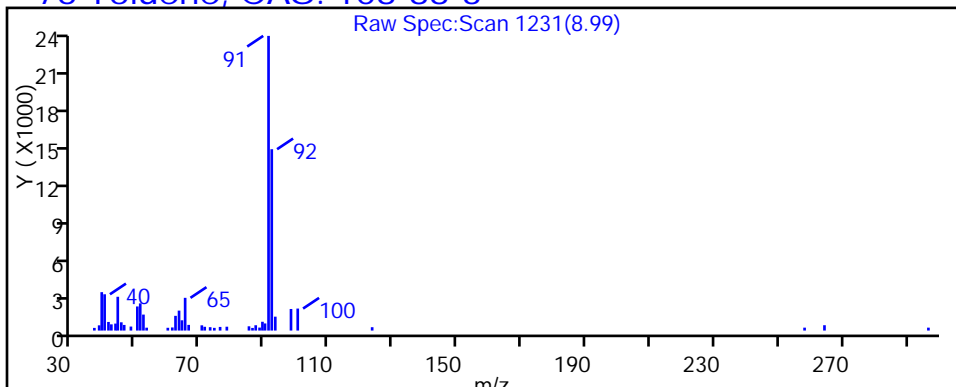
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

76 Toluene, CAS: 108-88-3



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304015.D

Injection Date: 04-Mar-2015 17:21:30

Instrument ID: CHHP5

Lims ID: 180-41696-A-7

Lab Sample ID: 180-41696-7

Client ID: HD-MW-171-0/1-0

Operator ID: 001562

ALS Bottle#: 15

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

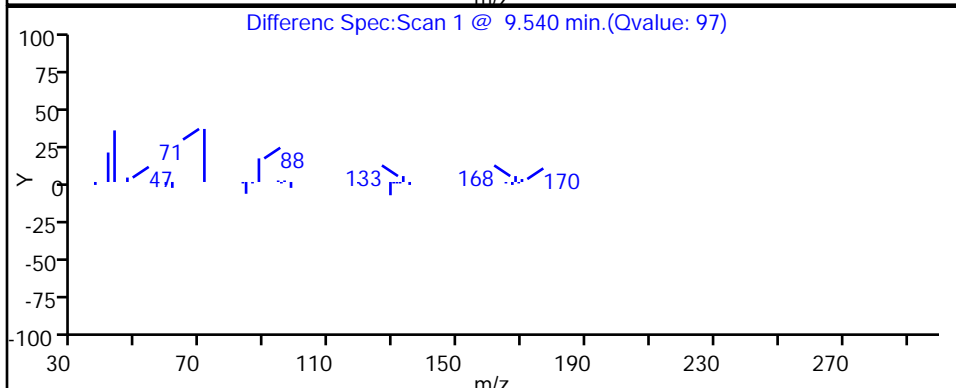
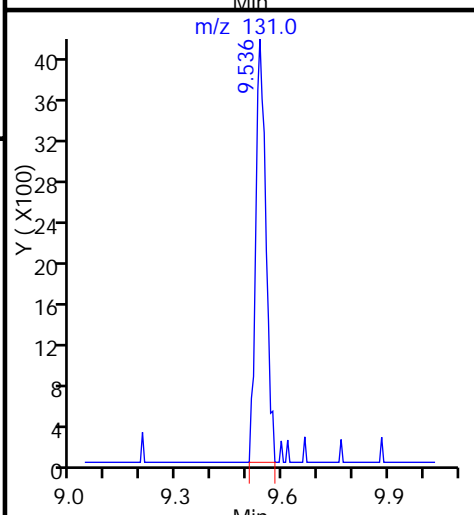
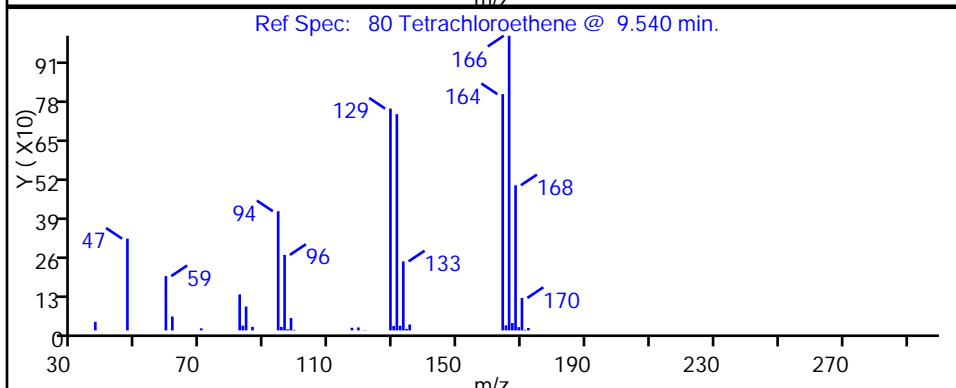
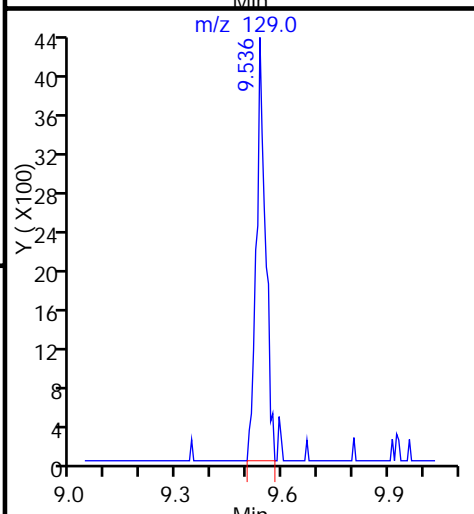
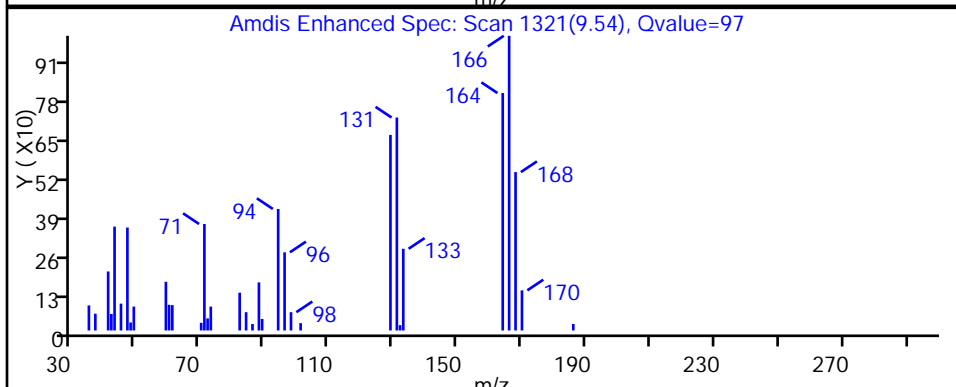
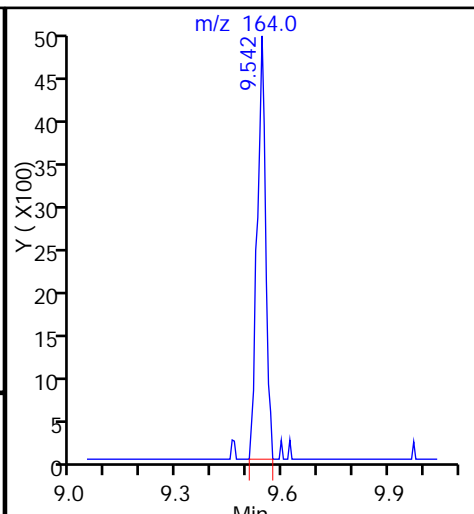
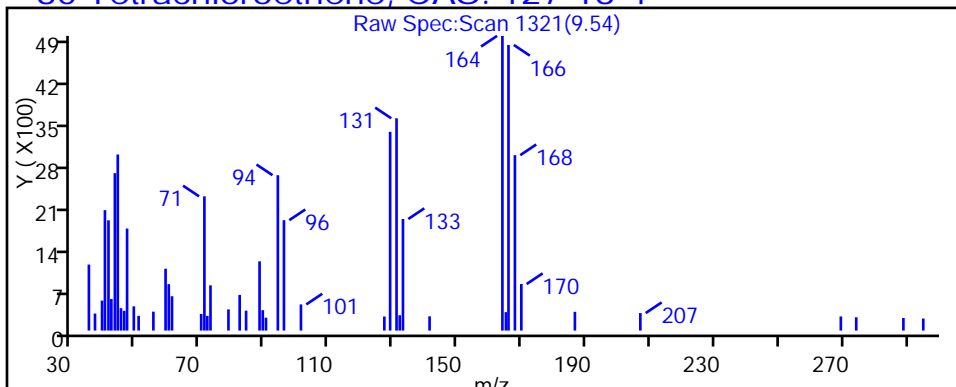
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

80 Tetrachloroethene, CAS: 127-18-4



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304015.D

Injection Date: 04-Mar-2015 17:21:30

Instrument ID: CHHP5

Lims ID: 180-41696-A-7

Lab Sample ID: 180-41696-7

Client ID: HD-MW-171-0/1-0

Operator ID: 001562

ALS Bottle#: 15

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

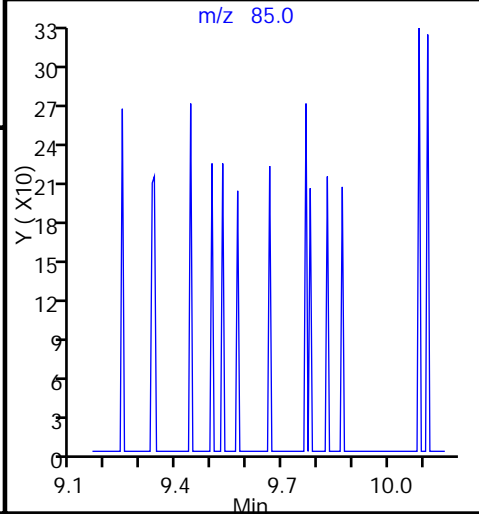
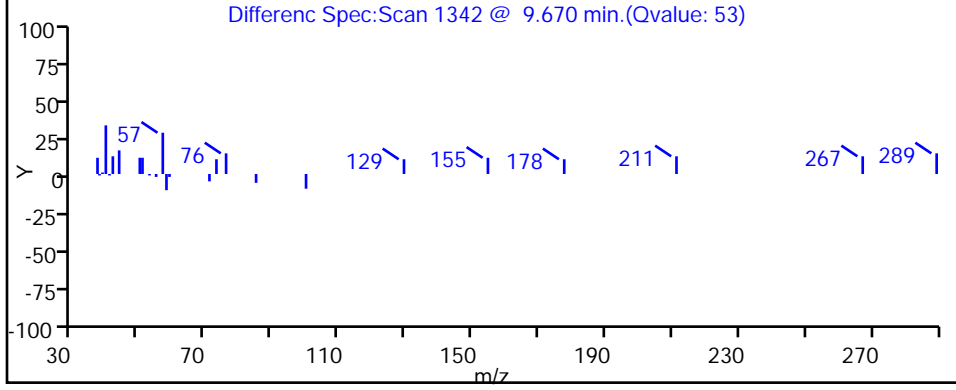
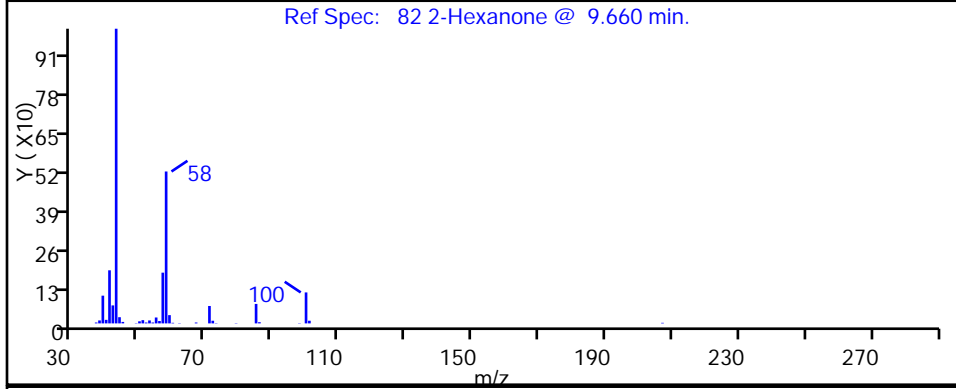
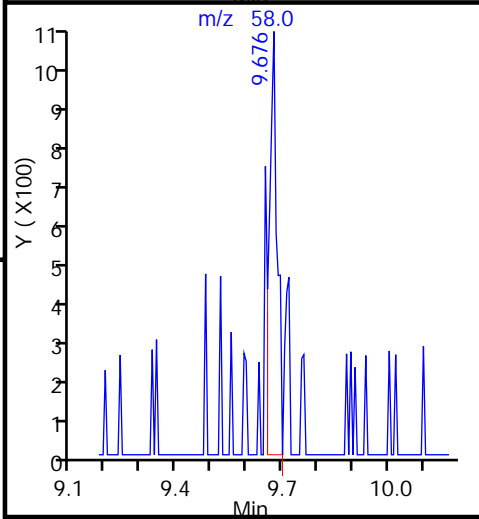
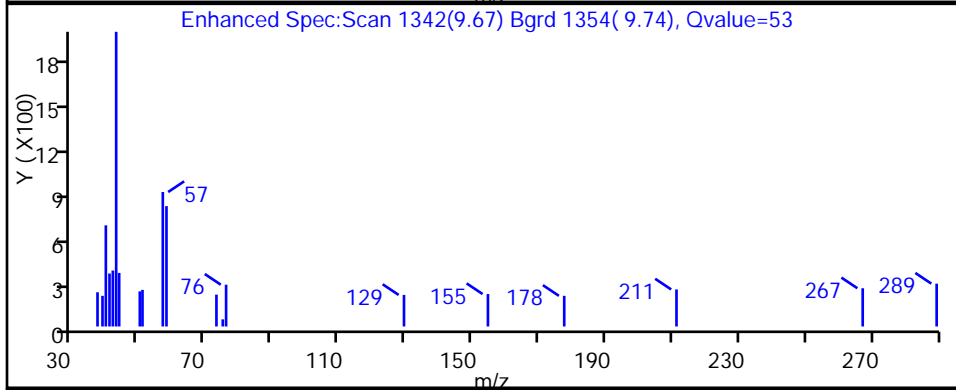
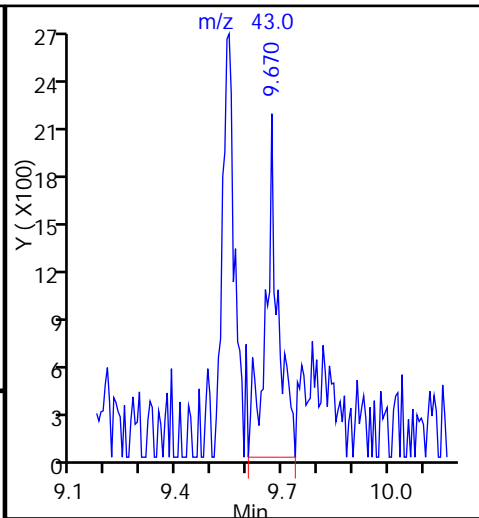
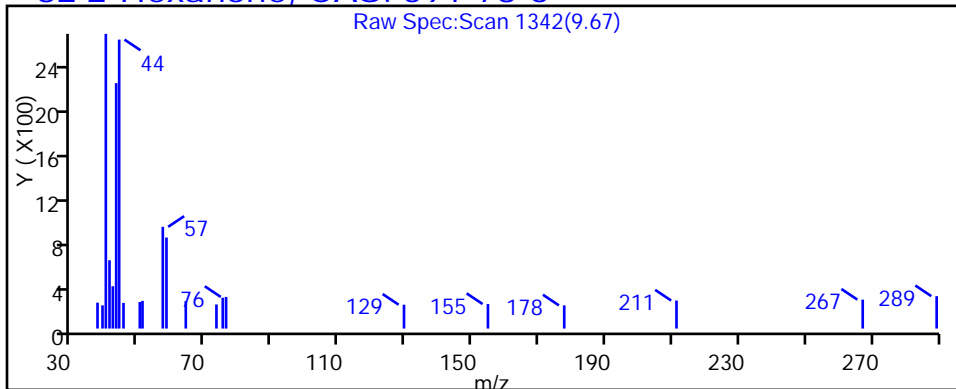
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

82 2-Hexanone, CAS: 591-78-6



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304015.D

Injection Date: 04-Mar-2015 17:21:30

Instrument ID: CHHP5

Lims ID: 180-41696-A-7

Lab Sample ID: 180-41696-7

Client ID: HD-MW-171-0/1-0

Operator ID: 001562

ALS Bottle#: 15

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

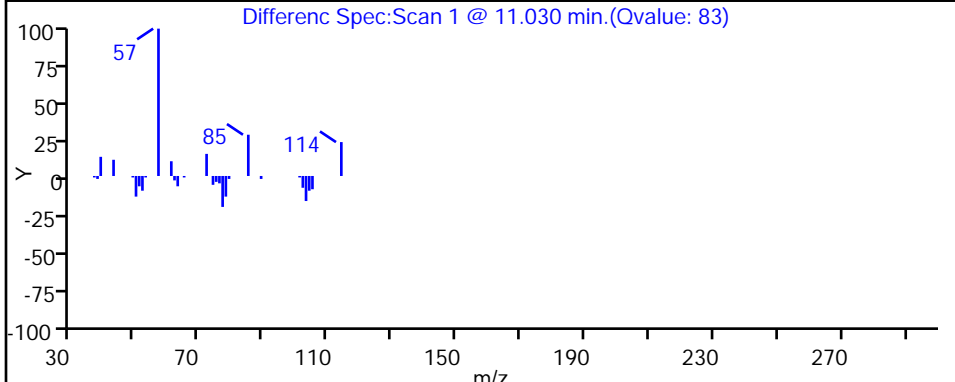
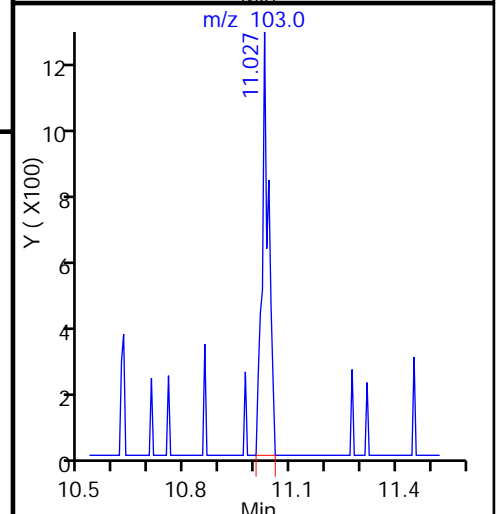
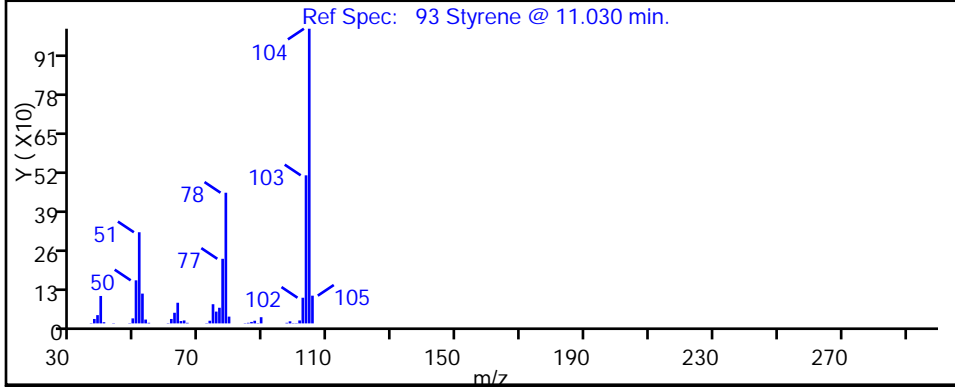
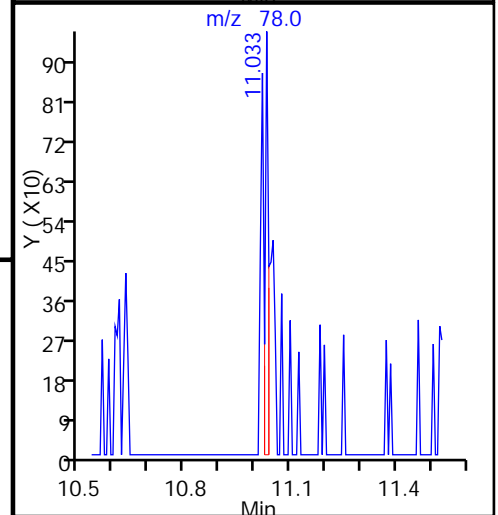
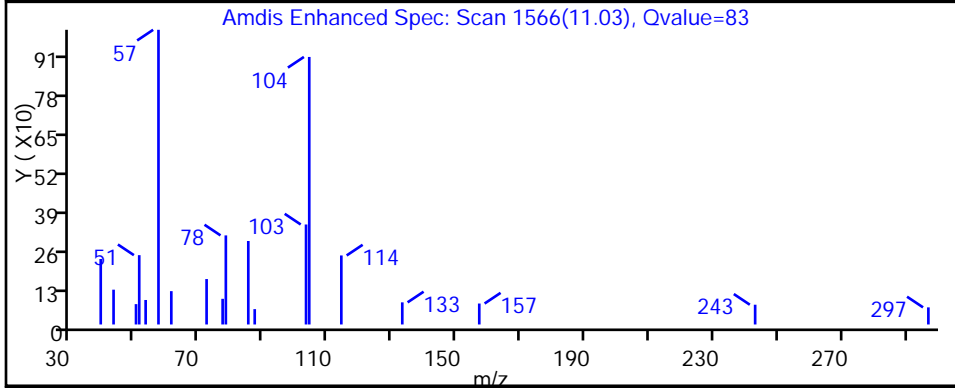
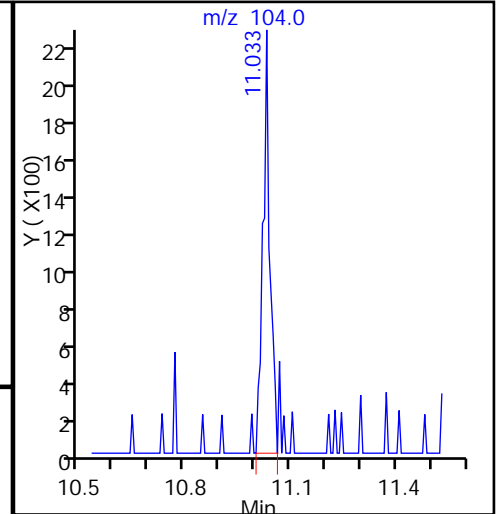
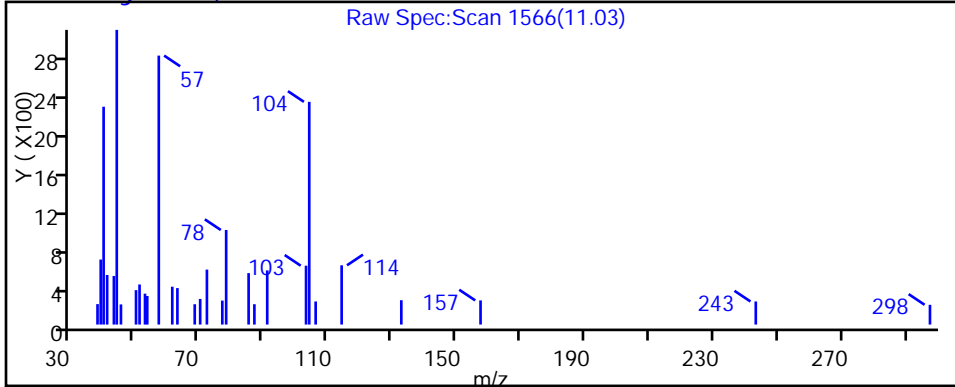
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

93 Styrene, CAS: 100-42-5



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304015.D

Injection Date: 04-Mar-2015 17:21:30

Instrument ID: CHHP5

Lims ID: 180-41696-A-7

Lab Sample ID: 180-41696-7

Client ID: HD-MW-171-0/1-0

Operator ID: 001562

ALS Bottle#: 15

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

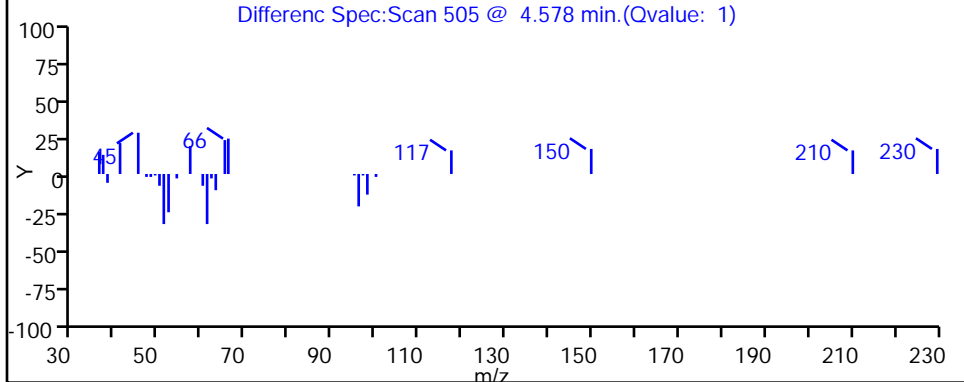
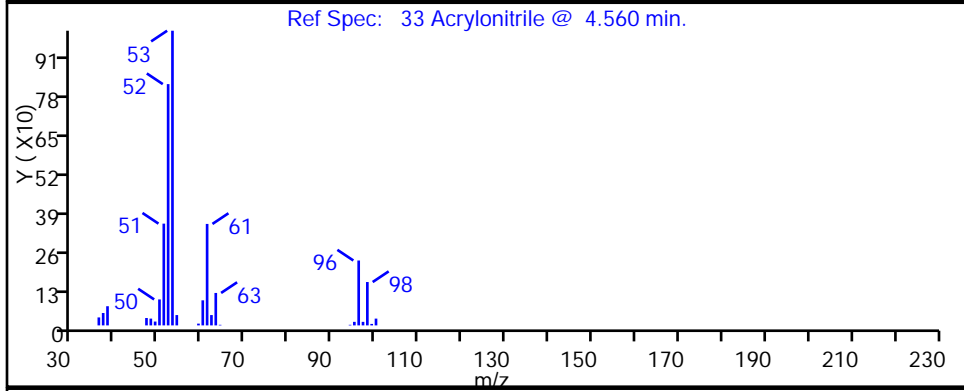
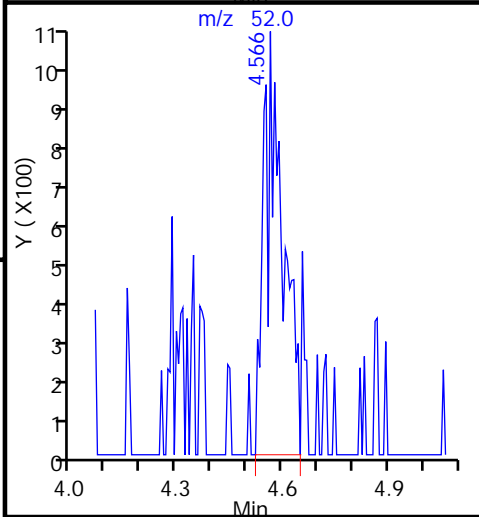
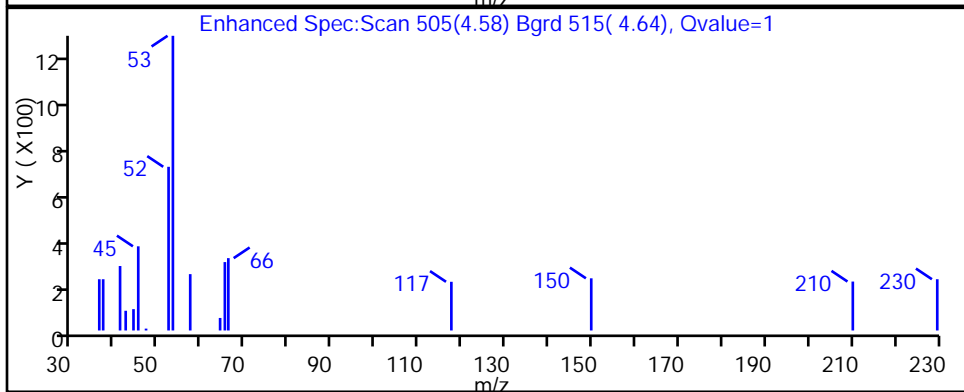
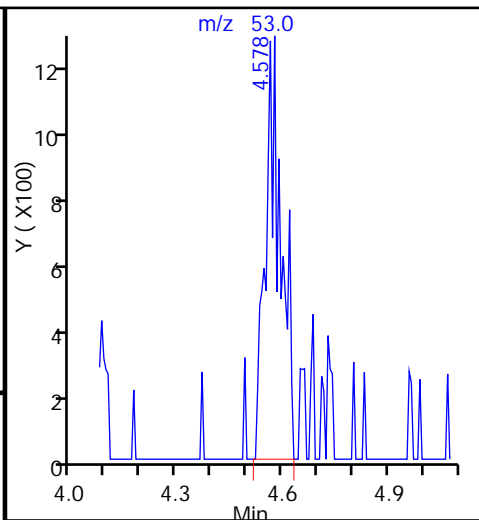
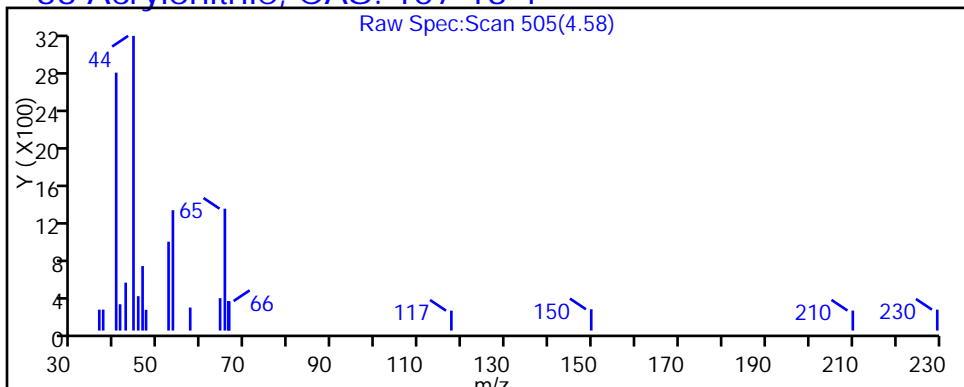
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

33 Acrylonitrile, CAS: 107-13-1



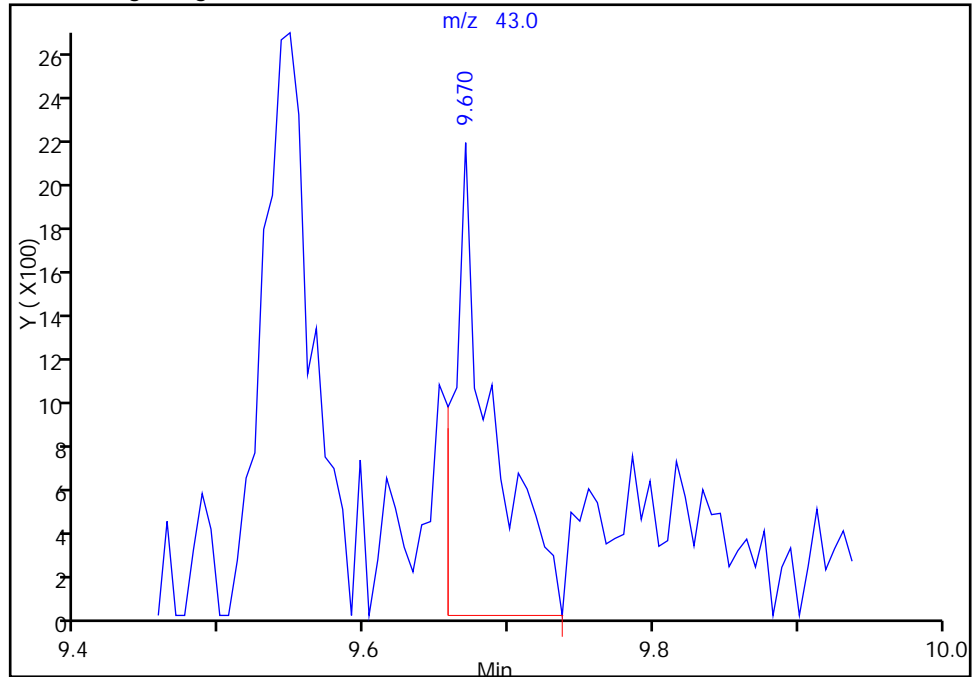
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304015.D
Injection Date: 04-Mar-2015 17:21:30 Instrument ID: CHHP5
Lims ID: 180-41696-A-7 Lab Sample ID: 180-41696-7
Client ID: HD-MW-171-0/1-0
Operator ID: 001562 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

82 2-Hexanone, CAS: 591-78-6

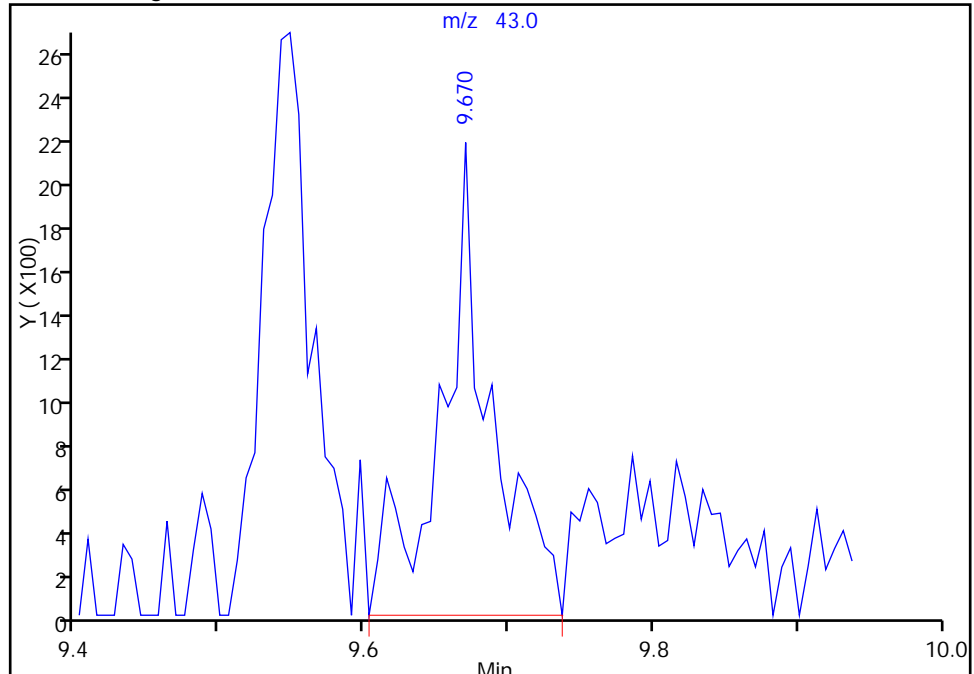
RT: 9.67
Area: 3843
Amount: 2.135400
Amount Units: ng

Processing Integration Results



RT: 9.67
Area: 5237
Amount: 2.909990
Amount Units: ng

Manual Integration Results



Reviewer: gordonk, 05-Mar-2015 07:57:45
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

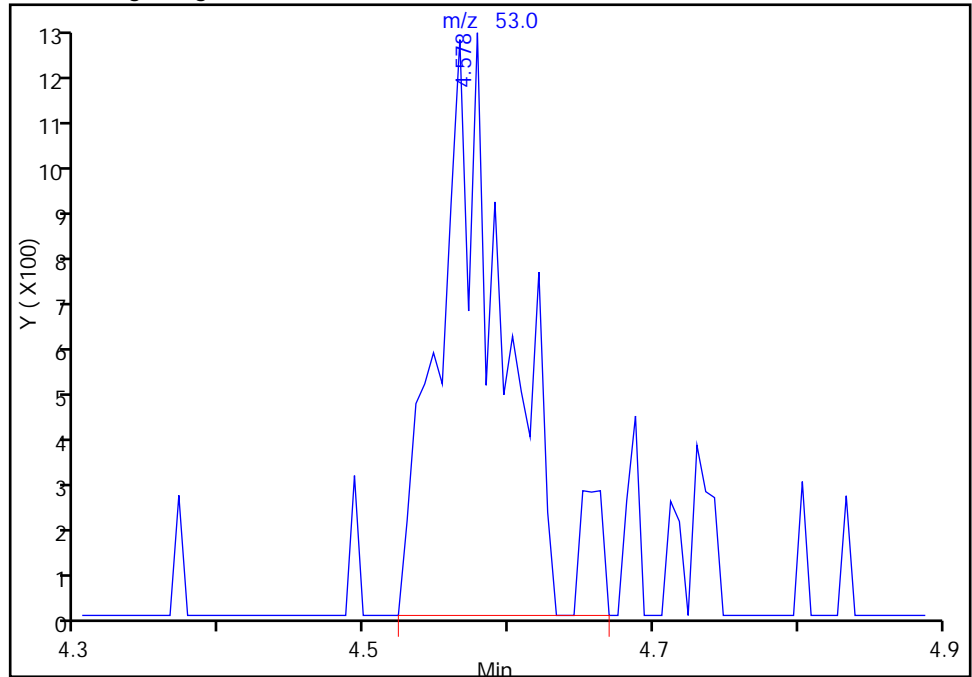
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304015.D				
Injection Date:	04-Mar-2015 17:21:30	Instrument ID:	CHHP5		
Lims ID:	180-41696-A-7	Lab Sample ID:	180-41696-7		
Client ID:	HD-MW-171-0/1-0				
Operator ID:	001562	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector:	MS SCAN		

33 Acrylonitrile, CAS: 107-13-1

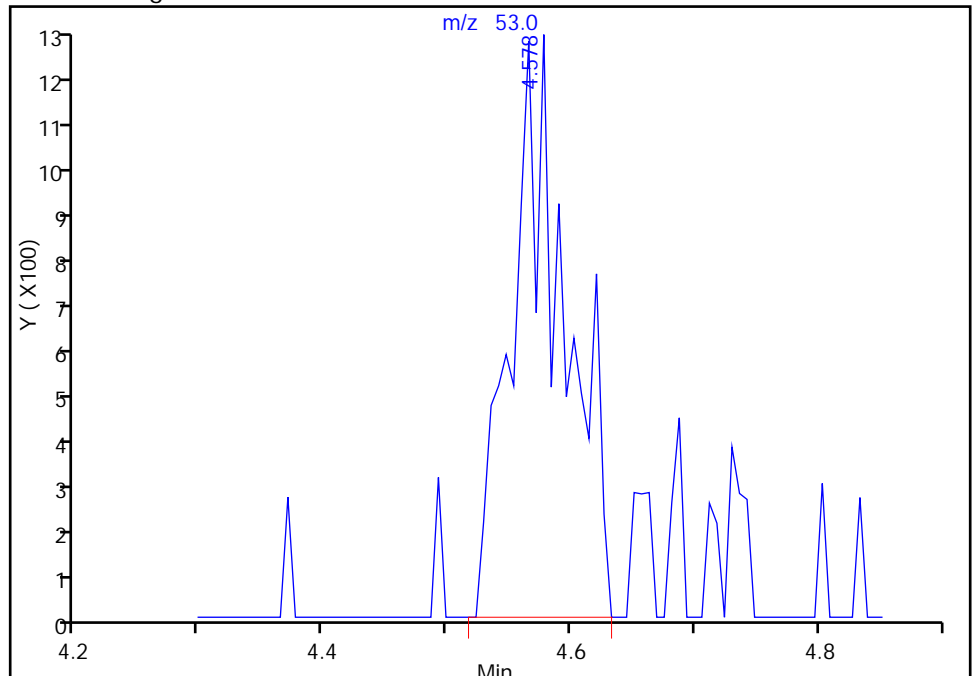
RT: 4.58
Area: 4198
Amount: 3.856679
Amount Units: ng

Processing Integration Results



RT: 4.58
Area: 3901
Amount: 3.583827
Amount Units: ng

Manual Integration Results



Reviewer: gordonk, 05-Mar-2015 07:57:45
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Client Sample ID: TRIP BLANK Lab Sample ID: 180-41696-8
 Matrix: Water Lab File ID: 50304005.D
 Analysis Method: 8260C Date Collected: 03/03/2015 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 03/04/2015 13:20
 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.: 134740 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.28
75-01-4	Vinyl chloride	1.0	U	1.0	0.23
74-83-9	Bromomethane	1.0	U	1.0	0.31
75-00-3	Chloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.30
67-64-1	Acetone	5.0	U	5.0	2.5
75-15-0	Carbon disulfide	1.0	U	1.0	0.21
75-09-2	Methylene Chloride	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.17
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.18
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.12
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.24
74-97-5	Bromochloromethane	1.0	U	1.0	0.18
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.55
67-66-3	Chloroform	1.0	U	1.0	0.17
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.29
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.14
71-43-2	Benzene	1.0	U	1.0	0.11
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
79-01-6	Trichloroethene	1.0	U	1.0	0.14
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.095
75-27-4	Bromodichloromethane	1.0	U	1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53
108-88-3	Toluene	1.0	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.15
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.20
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.16
124-48-1	Dibromochloromethane	1.0	U	1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
100-41-4	Ethylbenzene	1.0	U	1.0	0.23
1330-20-7	Xylenes, Total	3.0	U	3.0	0.49
100-42-5	Styrene	1.0	U	1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Client Sample ID: TRIP BLANK Lab Sample ID: 180-41696-8
 Matrix: Water Lab File ID: 50304005.D
 Analysis Method: 8260C Date Collected: 03/03/2015 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 03/04/2015 13:20
 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.: 134740 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20
107-13-1	Acrylonitrile	20	U	20	0.55
123-91-1	1,4-Dioxane	200	U	200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		64-135
2037-26-5	Toluene-d8 (Surr)	106		71-118
460-00-4	4-Bromofluorobenzene (Surr)	104		70-118
1868-53-7	Dibromofluoromethane (Surr)	93		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304005.D
 Lims ID: 180-41696-A-8 Lab Sample ID: 180-41696-8
 Client ID: TRIP BLANK
 Sample Type: Client
 Inject. Date: 04-Mar-2015 13:20:30 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-41696-A-8
 Misc. Info.: 180-0005893-005
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\MMSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 04-Mar-2015 14:14:43 Calib Date: 03-Mar-2015 18:29:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303018.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: fergusond

Date: 04-Mar-2015 14:12:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.302	4.320	-0.018	98	124691	1000.0	
* 2 Fluorobenzene (IS)	96	7.277	7.277	0.000	99	429436	50.0	
* 3 Chlorobenzene-d5	119	10.367	10.367	0.000	99	98250	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.691	12.691	0.000	99	150437	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.535	6.528	0.007	52	85932	46.7	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.906	6.900	0.006	99	109055	48.0	
\$ 7 Toluene-d8 (Surr)	98	8.932	8.925	0.007	100	406858	53.1	
\$ 8 4-Bromofluorobenzene (Surr	95	11.535	11.535	0.000	99	148732	52.2	
12 Chloromethane	50		1.777				ND	
13 Vinyl chloride	62		1.905				ND	
15 Bromomethane	94		2.252				ND	
16 Chloroethane	64		2.373				ND	
22 1,1-Dichloroethene	96		3.371				ND	
24 Acetone	43	3.517	3.493	0.024	30	4483	4.97	
26 Carbon disulfide	76		3.651				ND	
31 Methylene Chloride	84		4.144				ND	
33 Acrylonitrile	53		4.551				ND	
34 trans-1,2-Dichloroethene	96		4.570				ND	
35 Methyl tert-butyl ether	73		4.600				ND	
37 1,1-Dichloroethane	63		5.172				ND	
45 cis-1,2-Dichloroethene	96		5.938				ND	
46 2-Butanone (MEK)	43		5.987				ND	
49 Chlorobromomethane	128		6.230				ND	
52 Chloroform	83	6.340	6.340	0.000	1	1130	0.2845	
53 1,1,1-Trichloroethane	97		6.528				ND	
56 Carbon tetrachloride	117		6.717				ND	
58 Benzene	78		6.954				ND	
59 1,2-Dichloroethane	62		6.991				ND	
64 Trichloroethene	130		7.666				ND	
67 1,2-Dichloropropane	63		7.909				ND	
70 1,4-Dioxane	88		8.061				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.201				ND	
74 cis-1,3-Dichloropropene	75		8.658				ND	
75 4-Methyl-2-pentanone (MIBK)	43		8.828				ND	
76 Toluene	91		8.992				ND	
77 trans-1,3-Dichloropropene	75		9.217				ND	
79 1,1,2-Trichloroethane	97		9.400				ND	
80 Tetrachloroethene	164		9.540				ND	
82 2-Hexanone	43		9.661				ND	
84 Chlorodibromomethane	129		9.795				ND	
85 Ethylene Dibromide	107		9.899				ND	
87 Chlorobenzene	112		10.391				ND	
89 1,1,1,2-Tetrachloroethane	131		10.477				ND	
90 Ethylbenzene	106		10.501				ND	
91 m-Xylene & p-Xylene	106		10.623				ND	
92 o-Xylene	106		11.012				ND	
93 Styrene	104		11.030				ND	
94 Bromoform	173		11.213				ND	
99 1,1,2,2-Tetrachloroethane	83		11.675				ND	
S 133 Xylenes, Total	106		1.000				ND	

Reagents:

VOA8260INT_00029

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00031

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304005.D

Injection Date: 04-Mar-2015 13:20:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: 180-41696-A-8

Lab Sample ID: 180-41696-8

Worklist Smp#: 5

Client ID: TRIP BLANK

Purge Vol: 5.000 mL

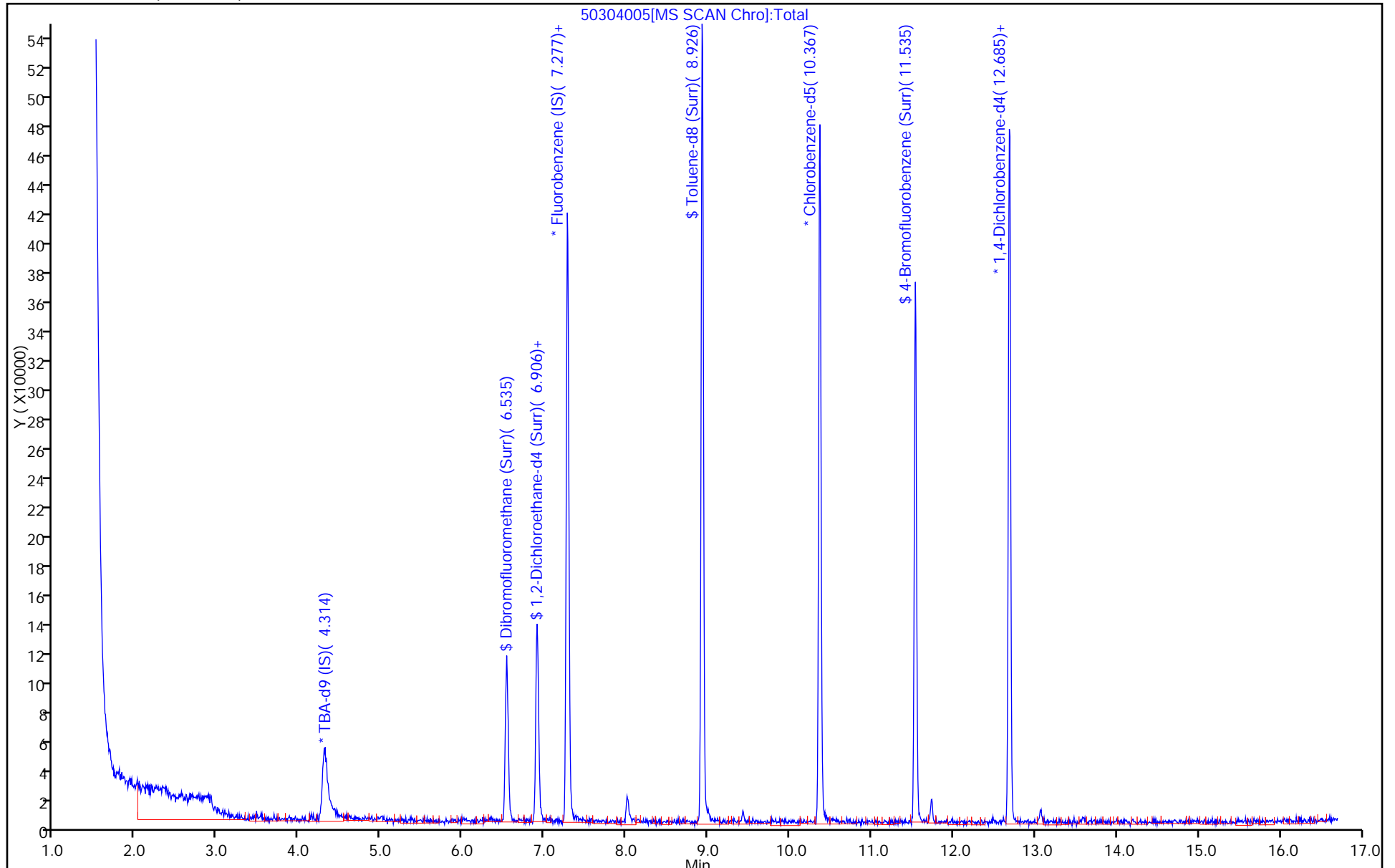
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



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

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1 Analy Batch No.: 134613

SDG No.: _____

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2015 14:28 Calibration End Date: 03/03/2015 18:29 Calibration ID: 22321

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-134613/18	50303018.D
Level 2	IC 180-134613/8	50303008.D
Level 3	ICIS 180-134613/9	50303009.D
Level 4	IC 180-134613/10	50303010.D
Level 5	IC 180-134613/11	50303011.D
Level 6	IC 180-134613/12	50303012.D
Level 7	IC 180-134613/13	50303013.D
Level 8	IC 180-134613/14	50303014.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Dichlorodifluoromethane	0.2690 0.2315	0.2475 0.2504	0.2293 0.2519	0.2623	0.2680	Ave		0.2512			0.1000	6.0	20.0				
Chloromethane	0.4680 0.3696	0.3882 0.4086	0.3655 0.4050	0.4008	0.4067	Ave		0.4015			0.1000	7.9	20.0				
Vinyl chloride	0.4208 0.3539	0.3727 0.3911	0.3674 0.3929	0.3892	0.3994	Ave		0.3859			0.1000	5.4	20.0				
1,3-Butadiene	0.5877 0.3874	0.4356 0.4336	0.4089 0.4363	0.4396	0.4507	Ave		0.4475			0.0100	13.0	20.0				
Bromomethane	0.2102 0.0967	0.1328 0.1105	0.1305 0.0997	0.1176	0.1084	Lin2	0.5322	0.1060			0.0500			0.9930		0.9900	
Chloroethane	0.2042 0.1423	0.1531 0.1639	0.1454 0.1403	0.1542	0.1526	Ave		0.1570			0.0500	13.0	20.0				
Dichlorofluoromethane	0.4250 0.3125	0.3499 0.3829	0.3794 0.3280	0.3555	0.3456	Ave		0.3598			0.0100	9.8	20.0				
Trichlorofluoromethane	0.3357 0.2560	0.2761 0.3432	0.3149 0.2839	0.2982	0.2961	Ave		0.3005			0.1000	9.9	20.0				
Ethyl ether	0.3462 0.2756	0.2799 0.2862	0.2559 0.3022	0.2863	0.2877	Ave		0.2900			0.0100	9.0	20.0				
Acrolein	0.0381 0.0352	0.0397 0.0387	0.0353 0.0396	0.0401	0.0397	Ave		0.0383			0.0100	5.1	20.0				
1,1-Dichloroethene	0.3310 0.2752	0.2698 0.2934	0.2608 0.2973	0.2971	0.3045	Ave		0.2911			0.1000	7.7	20.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3119 0.2752	0.2867 0.3077	0.2648 0.2991	0.3034	0.3054	Ave		0.2943			0.1000	5.8	20.0				
Acetone	0.1272 0.0999	0.1070 0.0981	0.0956 0.1093	0.1023	0.1006	Ave		0.1050			0.0500	9.5	20.0				
Iodomethane	0.4701 0.3888	0.3781 0.4191	0.3659 0.4254	0.4071	0.4219	Ave		0.4096			0.0100	8.0	20.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Pittsburgh

Job No.: 180-41696-1

Analy Batch No.: 134613

SDG No.: _____

Instrument ID: CHHP5

GC Column: DB-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2015 14:28

Calibration End Date: 03/03/2015 18:29

Calibration ID: 22321

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Carbon disulfide	0.7278 0.6896	0.6311 0.7798	0.6350 0.7889	0.7235	0.7569	Ave		0.7166			0.1000	8.5	20.0				
Allyl chloride	0.1767 0.1804	0.1687 0.1929	0.1597 0.2039	0.1828	0.1896	Ave		0.1818			0.0100	7.7	20.0				
Methyl acetate	0.3135 0.2835	0.2688 0.2970	0.2547 0.3078	0.2918	0.2933	Ave		0.2888			0.1000	6.7	20.0				
Methylene Chloride	0.5303 0.3048	0.3340 0.3171	0.3002 0.3296	0.3199	0.3150	Lin2	1.1200	0.3021			0.1000			0.9970		0.9900	
tert-Butyl alcohol	1.0728 1.1874	1.1850 1.2108	1.0775 1.3423	1.2805	1.2306	Ave		1.1984			0.0100	7.7	20.0				
Acrylonitrile	0.1522 0.1402	0.1370 0.1445	0.1317 0.1514	0.1426	0.1458	Ave		0.1432			0.0100	4.8	20.0				
trans-1,2-Dichloroethene	0.3284 0.2932	0.2930 0.3077	0.2772 0.3241	0.3005	0.3112	Ave		0.3044			0.1000	5.6	20.0				
Methyl tert-butyl ether	0.8077 0.7491	0.7066 0.7930	0.6816 0.8220	0.7507	0.7733	Ave		0.7605			0.1000	6.4	20.0				
Hexane	0.6242 0.5039	0.5149 0.5384	0.5008 0.5460	0.5396	0.5552	Ave		0.5404			0.0100	7.3	20.0				
1,1-Dichloroethane	0.6587 0.5578	0.5463 0.5868	0.5240 0.6027	0.5806	0.5849	Ave		0.5802			0.2000	7.0	20.0				
Vinyl acetate	0.1554 0.2042	0.1712 0.2248	0.1846 0.2374	0.1922	0.2159	Ave		0.1982			0.0100	14.0	20.0				
2,2-Dichloropropane	0.2089 0.2094	0.1923 0.2380	0.1918 0.2406	0.2153	0.2221	Ave		0.2148			0.0100	8.5	20.0				
cis-1,2-Dichloroethene	0.3752 0.3124	0.3118 0.3268	0.2893 0.3375	0.3247	0.3263	Ave		0.3255			0.1000	7.6	20.0				
2-Butanone (MEK)	0.1805 0.1692	0.1656 0.1804	0.1533 0.1823	0.1632	0.1743	Ave		0.1711			0.0500	5.9	20.0				
Bromochloromethane	0.1602 0.1300	0.1227 0.1367	0.1187 0.1453	0.1320	0.1397	Ave		0.1357			0.0100	9.7	20.0				
Tetrahydrofuran	0.1465 0.1140	0.1197 0.1221	0.1051 0.1283	0.1156	0.1227	Ave		0.1218			0.0100	10.0	20.0				
Chloroform	0.5305 0.4435	0.4372 0.4691	0.4040 0.4864	0.4580	0.4705	Ave		0.4624			0.2000	8.1	20.0				
1,1,1-Trichloroethane	0.3408 0.3041	0.2781 0.3311	0.2786 0.3337	0.3135	0.3326	Ave		0.3141			0.1000	8.0	20.0				
Cyclohexane	0.7553 0.6547	0.7067 0.7163	0.6518 0.7113	0.7195	0.7234	Ave		0.7049			0.1000	5.0	20.0				
Carbon tetrachloride	0.2188 0.2137	0.1783 0.2421	0.1756 0.2456	0.2093	0.2208	Ave		0.2130			0.1000	12.0	20.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Pittsburgh

Job No.: 180-41696-1

Analy Batch No.: 134613

SDG No.: _____

Instrument ID: CHHP5

GC Column: DB-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2015 14:28

Calibration End Date: 03/03/2015 18:29

Calibration ID: 22321

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
1,1-Dichloropropene	0.4190	0.3836	0.3653	0.4094	0.4159	Ave		0.4007			0.0100	5.1	20.0				
	0.3837	0.4120	0.4171														
Isobutyl alcohol	0.0062	0.0051	0.0049	0.0062	0.0072	Ave		0.0069		*	0.0100	23.0	* 20.0				
	0.0076	0.0082	0.0094														
Benzene	1.4277	1.2285	1.1487	1.2764	1.3023	Ave		1.2629			0.5000	6.6	20.0				
	1.1958	1.2459	1.2779														
1,2-Dichloroethane	0.3936	0.3377	0.3255	0.3674	0.3684	Ave		0.3648			0.1000	6.9	20.0				
	0.3555	0.3701	0.4002														
n-Heptane	0.5428	0.4383	0.4485	0.4948	0.4996	Ave		0.4910			0.0100	7.2	20.0				
	0.4760	0.5130	0.5151														
Trichloroethene	0.2973	0.2875	0.2716	0.3042	0.3116	Ave		0.2974			0.2000	5.0	20.0				
	0.2860	0.3057	0.3157														
Methylcyclohexane	0.5952	0.5402	0.5146	0.5673	0.5970	Ave		0.5619			0.1000	5.4	20.0				
	0.5306	0.5732	0.5770														
1,2-Dichloropropane	0.3666	0.3035	0.2998	0.3291	0.3338	Ave		0.3317			0.1000	6.9	20.0				
	0.3252	0.3418	0.3537														
Dibromomethane	0.1544	0.1379	0.1316	0.1493	0.1534	Ave		0.1498			0.0100	7.3	20.0				
	0.1493	0.1557	0.1667														
1,4-Dioxane	0.0032	0.0026	0.0024	0.0029	0.0030	Ave		0.0030		*	0.0100	11.0	20.0				
	0.0032	0.0030	0.0034														
Bromodichloromethane	0.2516	0.2511	0.2361	0.2772	0.2930	Ave		0.2792			0.2000	11.0	20.0				
	0.2918	0.3052	0.3279														
cis-1,3-Dichloropropene	0.3080	0.3071	0.3282	0.3733	0.3881	Ave		0.3698			0.2000	14.0	20.0				
	0.3953	0.4172	0.4415														
4-Methyl-2-pentanone (MIBK)	1.5509	1.5302	1.3735	1.5874	1.5632	Ave		1.5097			0.1000	4.4	20.0				
	1.4938	1.5109	1.4677														
Toluene	6.2344	5.4647	4.8117	5.3452	5.2977	Ave		5.1608			0.4000	11.0	20.0				
	4.6779	4.8614	4.5935														
trans-1,3-Dichloropropene	0.9390	0.9614	0.9301	1.0789	1.1369	Ave		1.0882			0.1000	12.0	20.0				
	1.1640	1.2251	1.2704														
Ethyl methacrylate	1.1441	0.9998	1.0308	1.2627	1.3088	Ave		1.2235			0.0100	12.0	20.0				
	1.2928	1.3638	1.3853														
1,1,2-Trichloroethane	1.0940	0.9633	0.8597	0.9757	0.9363	Ave		0.9428			0.1000	7.6	20.0				
	0.8884	0.9132	0.9115														
Tetrachloroethene	1.1157	0.9938	0.8738	0.9857	0.9770	Ave		0.9523			0.2000	8.9	20.0				
	0.8701	0.9281	0.8743														
1,3-Dichloropropane	1.9802	1.8629	1.6343	1.8293	1.7741	Ave		1.7719			0.0100	6.4	20.0				
	1.6858	1.7187	1.6897														
2-Hexanone	1.0477	1.0431	0.9679	1.1247	1.1004	Ave		1.0539			0.1000	4.5	20.0				
	1.0339	1.0684	1.0449														

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Pittsburgh

Job No.: 180-41696-1

Analy Batch No.: 134613

SDG No.: _____

Instrument ID: CHHP5

GC Column: DB-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2015 14:28

Calibration End Date: 03/03/2015 18:29

Calibration ID: 22321

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Dibromochloromethane	0.5658 0.6599	0.5280 0.7119	0.5067 0.7217	0.6199	0.6460	Ave		0.6200			0.1000	13.0		20.0			
1,2-Dibromoethane (EDB)	0.9524 0.9044	0.8836 0.9137	0.8153 0.9237	0.9263	0.9441	Ave		0.9079			0.1000	4.8		20.0			
3-Chlorobenzotrifluoride	1.9226 1.4974	1.6501 1.5076	1.5454 1.3370	1.6222	1.5811	Ave		1.5829			0.0100	11.0		20.0			
Chlorobenzene	4.0215 3.0327	3.4837 3.1544	3.0203 3.0023	3.3643	3.3626	Ave		3.3052			0.5000	10.0		20.0			
4-Chlorobenzotrifluoride	1.7532 1.4334	1.5607 1.4283	1.5227 1.2996	1.5809	1.5247	Ave		1.5129			0.0100	8.8		20.0			
1,1,1,2-Tetrachloroethane	0.8054 0.7937	0.6270 0.8576	0.6290 0.8548	0.7520	0.7784	Ave		0.7622			0.0100	12.0		20.0			
Ethylbenzene	2.1162 1.8003	1.9583 1.8639	1.7671 1.7871	1.9934	2.0020	Ave		1.9111			0.1000	6.6		20.0			
m-Xylene & p-Xylene	2.6982 2.2243	2.3435 2.3081	2.1594 2.2145	2.4436	2.4413	Ave		2.3541			0.1000	7.4		20.0			
o-Xylene	2.6404 2.1191	2.3559 2.2160	2.1315 2.1144	2.3759	2.3231	Ave		2.2845			0.3000	7.9		20.0			
Styrene	4.3797 3.4898	3.7333 3.6111	3.4486 3.4638	3.9065	3.8442	Ave		3.7346			0.3000	8.4		20.0			
Bromoform	0.2653 0.3657	0.2684 0.4014	0.2412 0.4171	0.3168	0.3442	Ave		0.3275			0.1000	20.0		20.0			
2-Chlorobenzotrifluoride	1.8187 1.4793	1.6992 1.5053	1.5228 1.3486	1.6018	1.5787	Ave		1.5693			0.0100	9.1		20.0			
Isopropylbenzene	6.6841 5.0501	5.9488 5.3239	5.2815 4.8448	5.9350	5.7977	Ave		5.6082			0.1000	11.0		20.0			
1,1,2,2-Tetrachloroethane	1.2994 1.2807	1.2094 1.3493	1.2094 1.3104	1.3458	1.3524	Ave		1.3069			0.3000	3.6		20.0			
Bromobenzene	1.0162 0.8475	0.8667 0.8518	0.8177 0.8692	0.8652	0.8533	Ave		0.8735			0.0100	6.9		20.0			
1,2,3-Trichloropropane	0.3627 0.2773	0.2931 0.2821	0.2728 0.2922	0.2800	0.2812	Ave		0.2927			0.0100	10.0		20.0			
trans-1,4-Dichloro-2-butene	0.2945 0.2859	0.2754 0.3162	0.2472 0.3267	0.2688	0.2602	Ave		0.2844			0.0100	9.6		20.0			
N-Propylbenzene	1.2166 1.1118	1.1732 1.1670	1.1362 1.1460	1.1729	1.1590	Ave		1.1604			0.0100	2.7		20.0			
2-Chlorotoluene	1.1065 0.9256	0.9581 0.9475	0.8975 0.9360	0.9513	0.9430	Ave		0.9582			0.0100	6.6		20.0			
3-Chlorotoluene	1.1820 0.9566	0.9980 0.9593	0.9643 0.9127	0.9261	0.9364	Ave		0.9794			0.0100	8.8		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Pittsburgh

Job No.: 180-41696-1

Analy Batch No.: 134613

SDG No.: _____

Instrument ID: CHHP5

GC Column: DB-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2015 14:28

Calibration End Date: 03/03/2015 18:29

Calibration ID: 22321

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
1,3,5-Trimethylbenzene	3.6478 3.0305	3.2397 3.1239	3.1299 3.0311	3.2594	3.2246	Ave		3.2109			0.0100	6.2	20.0				
4-Chlorotoluene	1.1560 0.9823	0.9826 1.0361	0.9918 1.0330	1.0376	1.0526	Ave		1.0340			0.0100	5.5	20.0				
tert-Butylbenzene	3.1191 2.5612	2.8481 2.6780	2.7134 2.6395	2.8302	2.7808	Ave		2.7713			0.0100	6.2	20.0				
1,2,4-Trimethylbenzene	3.6951 3.1036	3.3863 3.2221	3.2100 3.1692	3.3631	3.3623	Ave		3.3140			0.0100	5.6	20.0				
3,4-Dichlorobenzotrifluoride	0.7760 0.7222	0.8131 0.7485	0.7548 0.6963	0.7399	0.7344	Ave		0.7482			0.0100	4.7	20.0				
sec-Butylbenzene	4.7250 3.6615	4.1212 3.7973	3.8832 3.6388	4.0747	4.0112	Ave		3.9891			0.0100	8.7	20.0				
1,3-Dichlorobenzene	2.0686 1.6213	1.7447 1.6705	1.6238 1.6741	1.6987	1.7072	Ave		1.7261			0.6000	8.4	20.0				
4-Isopropyltoluene	3.7034 3.0652	3.3375 3.2100	3.1450 3.0900	3.3337	3.2665	Ave		3.2689			0.0100	6.2	20.0				
1,4-Dichlorobenzene	2.0020 1.6465	1.7449 1.6908	1.6438 1.7119	1.7346	1.7242	Ave		1.7373			0.5000	6.5	20.0				
2,4-Dichlorobenzotrifluoride	0.7973 0.6761	0.7429 0.6931	0.7301 0.6448	0.6927	0.7117	Ave		0.7111			0.0100	6.5	20.0				
2,5-Dichlorobenzotrifluoride	0.8019 0.7607	0.8189 0.7865	0.7792 0.7420	0.7522	0.7608	Ave		0.7753			0.0100	3.4	20.0				
n-Butylbenzene	3.2542 2.7311	2.9123 2.8828	2.7781 2.8096	2.9485	2.9341	Ave		2.9063			0.0100	5.5	20.0				
1,2-Dichlorobenzene	1.8289 1.5040	1.5633 1.5462	1.4970 1.5487	1.5655	1.5779	Ave		1.5789			0.4000	6.7	20.0				
1,2-Dibromo-3-Chloropropane	0.0849 0.1157	0.0814 0.1305	0.0843 0.1353	0.0954	0.1047	Ave		0.1040			0.0500	20.0	20.0				
1,2,4-Trichlorobenzene	0.8675 0.7733	0.7499 0.7923	0.7387 0.7989	0.8082	0.7890	Ave		0.7897			0.2000	5.0	20.0				
Hexachlorobutadiene	0.3817 0.3102	0.3469 0.3430	0.3138 0.3383	0.3301	0.3340	Ave		0.3373			0.0100	6.6	20.0				
Naphthalene	2.5167 2.2552	2.2494 2.2646	2.0797 2.3040	2.3468	2.3135	Ave		2.2912			0.0100	5.3	20.0				
1,2,3-Trichlorobenzene	0.7593 0.6559	0.6685 0.6729	0.5998 0.6937	0.6946	0.6725	Ave		0.6771			0.0100	6.6	20.0				
2,4,5-Trichlorotoluene	0.4218 0.3329	0.3284 0.3441	0.3044 0.3502	0.3314	0.3274	Ave		0.3426			0.0100	10.0	20.0				
2,3,6-Trichlorotoluene	0.3897 0.3029	0.3072 0.3055	0.2791 0.3183	0.3175	0.3065	Ave		0.3158			0.0100	10.0	20.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1 Analy Batch No.: 134613

SDG No.: _____

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2015 14:28 Calibration End Date: 03/03/2015 18:29 Calibration ID: 22321

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Dibromofluoromethane (Surr)	0.2143 0.2131	0.2130 0.2223	0.2086 0.2061	0.2196	0.2156	Ave		0.2141			2.5		20.0				
1,2-Dichloroethane-d4 (Surr)	0.2838 0.2624	0.2484 0.2700	0.2554 0.2655	0.2610	0.2699	Ave		0.2646			4.0		20.0				
Toluene-d8 (Surr)	4.5146 3.6171	4.2502 3.7635	3.8828 3.1038	4.0750	3.9724	Ave		3.8974			11.0		20.0				
4-Bromofluorobenzene (Surr)	1.7106 1.3934	1.4785 1.4322	1.3831 1.2832	1.4890	1.4299	Ave		1.4500			8.5		20.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1 Analy Batch No.: 134613

SDG No.: _____

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2015 14:28 Calibration End Date: 03/03/2015 18:29 Calibration ID: 22321

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-134613/18	50303018.D
Level 2	IC 180-134613/8	50303008.D
Level 3	ICIS 180-134613/9	50303009.D
Level 4	IC 180-134613/10	50303010.D
Level 5	IC 180-134613/11	50303011.D
Level 6	IC 180-134613/12	50303012.D
Level 7	IC 180-134613/13	50303013.D
Level 8	IC 180-134613/14	50303014.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
Dichlorodifluoromethane	FB	Ave	11738	61161	120251	186155	248600	5.00	25.0	50.0	75.0	100
			392329	459101	555245			175	200	250		
Chloromethane	FB	Ave	20422	95934	191737	284435	377346	5.00	25.0	50.0	75.0	100
			626420	749194	892689			175	200	250		
Vinyl chloride	FB	Ave	18364	92094	192697	276203	370529	5.00	25.0	50.0	75.0	100
			599809	717244	866068			175	200	250		
1,3-Butadiene	FB	Ave	25646	107650	214505	311986	418091	5.00	25.0	50.0	75.0	100
			656586	795057	961606			175	200	250		
Bromomethane	FB	Lin2	9174	32814	68450	83485	100603	5.00	25.0	50.0	75.0	100
			163842	202557	219710			175	200	250		
Chloroethane	FB	Ave	8910	37829	76259	109418	141570	5.00	25.0	50.0	75.0	100
			241114	300539	309302			175	200	250		
Dichlorofluoromethane	FB	Ave	18545	86469	199002	252307	320590	5.00	25.0	50.0	75.0	100
			529735	702217	722968			175	200	250		
Trichlorofluoromethane	FB	Ave	14651	68228	165171	211640	274680	5.00	25.0	50.0	75.0	100
			433936	629405	625870			175	200	250		
Ethyl ether	FB	Ave	15110	69164	134232	203184	266877	5.00	25.0	50.0	75.0	100
			467174	524790	666037			175	200	250		
Acrolein	FB	Ave	33215	49025	55616	66477	73636	100	125	150	175	200
			76799	88701	95898			225	250	275		
1,1-Dichloroethene	FB	Ave	14445	66672	136777	210842	282447	5.00	25.0	50.0	75.0	100
			466370	537938	655372			175	200	250		
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	13613	70857	138904	215323	283308	5.00	25.0	50.0	75.0	100
			466462	564199	659263			175	200	250		
Acetone	FB	Ave	27756	52872	100332	145165	186722	25.0	50.0	100	150	200
			338711	359769	482030			350	400	500		
Iodomethane	FB	Ave	20517	93450	191906	288929	391404	5.00	25.0	50.0	75.0	100
			658969	768602	937612			175	200	250		
Carbon disulfide	FB	Ave	31759	155959	333091	513502	702207	5.00	25.0	50.0	75.0	100
			1168823	1429882	1738988			175	200	250		

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1 Analy Batch No.: 134613

SDG No.: _____

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2015 14:28 Calibration End Date: 03/03/2015 18:29 Calibration ID: 22321

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			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
Allyl chloride	FB	Ave	7709 305734	41688 353770	83771 449430	129734	175910	5.00 175	25.0 200	50.0 250	75.0	100
Methyl acetate	FB	Ave	68405 2402270	332118 2723193	667992 3392163	1035670	1360573	25.0 875	125 1000	250 1250	375	500
Methylene Chloride	FB	Lin2	23143 516693	82531 581573	157472 726477	227072	292219	5.00 175	25.0 200	50.0 250	75.0	100
tert-Butyl alcohol	TBA	Ave	8526 407341	47518 473360	88451 611565	166475	219266	50.0 1750	250 2000	500 2500	750	1000
Acrylonitrile	FB	Ave	66409 2376546	338546 2649598	691056 3337128	1012388	1352445	50.0 1750	250 2000	500 2500	750	1000
trans-1,2-Dichloroethene	FB	Ave	14331 496919	72412 564166	145422 714392	213264	288749	5.00 175	25.0 200	50.0 250	75.0	100
Methyl tert-butyl ether	FB	Ave	35247 1269630	174611 1454209	357516 1811989	532783	717429	5.00 175	25.0 200	50.0 250	75.0	100
Hexane	FB	Ave	27239 854071	127250 987257	262665 1203451	382955	515034	5.00 175	25.0 200	50.0 250	75.0	100
1,1-Dichloroethane	FB	Ave	28747 945361	134994 1076133	274871 1328543	412070	542610	5.00 175	25.0 200	50.0 250	75.0	100
Vinyl acetate	FB	Ave	6783 346138	42316 412211	96814 523307	136421	200290	5.00 175	25.0 200	50.0 250	75.0	100
2,2-Dichloropropane	FB	Ave	9115 354872	47512 436442	100580 530241	152789	206033	5.00 175	25.0 200	50.0 250	75.0	100
cis-1,2-Dichloroethene	FB	Ave	16372 529478	77048 599342	151771 743970	230462	302735	5.00 175	25.0 200	50.0 250	75.0	100
2-Butanone (MEK)	FB	Ave	39378 573542	81869 661664	160864 803658	231681	323375	25.0 350	50.0 400	100 500	150	200
Bromochloromethane	FB	Ave	6992 220291	30321 250607	62252 320382	93661	129587	5.00 175	25.0 200	50.0 250	75.0	100
Tetrahydrofuran	FB	Ave	12789 386544	59174 447707	110296 565784	164028	227621	10.0 350	50.0 400	100 500	150	200
Chloroform	FB	Ave	23149 751712	108043 860226	211933 1072109	325101	436474	5.00 175	25.0 200	50.0 250	75.0	100
1,1,1-Trichloroethane	FB	Ave	14873 515456	68728 607230	146155 735465	222478	308574	5.00 175	25.0 200	50.0 250	75.0	100
Cyclohexane	FB	Ave	32962 1109737	174651 1313560	341881 1567791	510634	671150	5.00 175	25.0 200	50.0 250	75.0	100
Carbon tetrachloride	FB	Ave	9550 362211	44069 443952	92122 541326	148555	204809	5.00 175	25.0 200	50.0 250	75.0	100
1,1-Dichloropropene	FB	Ave	18284 650285	94793 755478	191632 919340	290552	385796	5.00 175	25.0 200	50.0 250	75.0	100
Isobutyl alcohol	FB	Ave	6766 324042	31713 374911	64264 519953	110778	166120	125 4375	625 5000	1250 6250	1875	2500

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1 Analy Batch No.: 134613

SDG No.: _____

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2015 14:28 Calibration End Date: 03/03/2015 18:29 Calibration ID: 22321

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			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
Benzene	FB	Ave	62303 2026853	303591 2284771	602514 2816860	905954	1208197	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloroethane	FB	Ave	17175 602602	83451 678619	170712 882169	260776	341780	5.00 175	25.0 200	50.0 250	75.0	100
n-Heptane	FB	Ave	23686 806729	108328 940701	235230 1135342	351211	463470	5.00 175	25.0 200	50.0 250	75.0	100
Trichloroethene	FB	Ave	12976 484743	71046 560499	142439 695890	215876	289114	5.00 175	25.0 200	50.0 250	75.0	100
Methylcyclohexane	FB	Ave	25976 899256	133492 1051065	269904 1271791	402645	553839	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloropropane	FB	Ave	15999 551216	75001 626785	157237 779651	233558	309721	5.00 175	25.0 200	50.0 250	75.0	100
Dibromomethane	FB	Ave	6736 252976	34073 285467	69033 367478	105949	142348	5.00 175	25.0 200	50.0 250	75.0	100
1,4-Dioxane	FB	Ave	2785 107243	12787 108953	25299 148650	41693	56031	100 3500	500 4000	1000 5000	1500	2000
Bromodichloromethane	FB	Ave	10980 494496	62048 559625	123848 722661	196712	271870	5.00 175	25.0 200	50.0 250	75.0	100
cis-1,3-Dichloropropene	FB	Ave	13441 670035	75900 764955	172126 973151	264977	360087	5.00 175	25.0 200	50.0 250	75.0	100
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	75647 1293845	171096 1424348	349805 1780762	535170	716953	25.0 350	50.0 400	100 500	150	200
Toluene	CBZ	Ave	60820 2025808	305509 2291440	612731 2786685	901036	1214867	5.00 175	25.0 200	50.0 250	75.0	100
trans-1,3-Dichloropropene	CBZ	Ave	9160 504089	53750 577469	118446 770673	181868	260722	5.00 175	25.0 200	50.0 250	75.0	100
Ethyl methacrylate	CBZ	Ave	11161 559868	55893 642835	131269 840399	212852	300128	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2-Trichloroethane	CBZ	Ave	10673 384751	53855 430453	109481 552961	164474	214719	5.00 175	25.0 200	50.0 250	75.0	100
Tetrachloroethene	CBZ	Ave	10884 376799	55560 437446	111273 530396	166159	224037	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Dichloropropane	CBZ	Ave	19318 730064	104148 810109	208110 1025068	308357	406834	5.00 175	25.0 200	50.0 250	75.0	100
2-Hexanone	CBZ	Ave	51105 895448	116636 1007219	246507 1267784	379170	504684	25.0 350	50.0 400	100 500	150	200
Dibromochloromethane	CBZ	Ave	5520 285792	29519 335537	64530 437822	104491	148140	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dibromoethane (EDB)	CBZ	Ave	9291 391652	49397 430697	103819 560401	156151	216491	5.00 175	25.0 200	50.0 250	75.0	100
3-Chlorobenzotrifluoride	CBZ	Ave	18756 648455	92250 710605	196791 811123	273444	362586	5.00 175	25.0 200	50.0 250	75.0	100

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1 Analy Batch No.: 134613

SDG No.: _____

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2015 14:28 Calibration End Date: 03/03/2015 18:29 Calibration ID: 22321

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			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
Chlorobenzene	CBZ	Ave	39232 1313352	194761 1486822	384609 1821377	567114	771107	5.00 175	25.0 200	50.0 250	75.0	100
4-Chlorobenzotrifluoride	CBZ	Ave	17103 620760	87255 673239	193901 788386	266494	349632	5.00 175	25.0 200	50.0 250	75.0	100
1,1,1,2-Tetrachloroethane	CBZ	Ave	7857 343717	35053 404254	80096 518562	126760	178500	5.00 175	25.0 200	50.0 250	75.0	100
Ethylbenzene	CBZ	Ave	20645 779624	109479 878562	225030 1084192	336025	459104	5.00 175	25.0 200	50.0 250	75.0	100
m-Xylene & p-Xylene	CBZ	Ave	26322 963277	131016 1087938	274985 1343425	411920	559842	5.00 175	25.0 200	50.0 250	75.0	100
o-Xylene	CBZ	Ave	25758 917689	131707 1044535	271432 1282744	400497	532728	5.00 175	25.0 200	50.0 250	75.0	100
Styrene	CBZ	Ave	42726 1511299	208713 1702135	439152 2101328	658511	881546	5.00 175	25.0 200	50.0 250	75.0	100
Bromoform	CBZ	Ave	2588 158386	15007 189179	30710 253039	53409	78926	5.00 175	25.0 200	50.0 250	75.0	100
2-Chlorobenzotrifluoride	CBZ	Ave	17742 640624	94998 709528	193920 818132	270017	362034	5.00 175	25.0 200	50.0 250	75.0	100
Isopropylbenzene	CBZ	Ave	65207 2186986	332572 2509471	672554 2939157	1000450	1329527	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2,2-Tetrachloroethane	CBZ	Ave	12676 554635	73095 635984	154009 794942	226865	310127	5.00 175	25.0 200	50.0 250	75.0	100
Bromobenzene	DCB	Ave	14051 509283	68608 564181	141042 712137	214072	285408	5.00 175	25.0 200	50.0 250	75.0	100
1,2,3-Trichloropropane	DCB	Ave	5015 166640	23201 186872	47052 239368	69273	94067	5.00 175	25.0 200	50.0 250	75.0	100
trans-1,4-Dichloro-2-butene	DCB	Ave	4072 171777	21797 209408	42637 267698	66494	87031	5.00 175	25.0 200	50.0 250	75.0	100
N-Propylbenzene	DCB	Ave	16822 668080	92868 772940	195976 938881	290195	387657	5.00 175	25.0 200	50.0 250	75.0	100
2-Chlorotoluene	DCB	Ave	15299 556210	75841 627560	154797 766804	235369	315400	5.00 175	25.0 200	50.0 250	75.0	100
3-Chlorotoluene	DCB	Ave	16343 574840	78996 635360	166326 747748	229133	313196	5.00 175	25.0 200	50.0 250	75.0	100
1,3,5-Trimethylbenzene	DCB	Ave	50437 1821042	256444 2069067	539843 2483271	806423	1078510	5.00 175	25.0 200	50.0 250	75.0	100
4-Chlorotoluene	DCB	Ave	15984 590273	77780 686264	171070 846300	256729	352063	5.00 175	25.0 200	50.0 250	75.0	100
tert-Butylbenzene	DCB	Ave	43127 1538995	225443 1773732	468002 2162487	700240	930079	5.00 175	25.0 200	50.0 250	75.0	100
1,2,4-Trimethylbenzene	DCB	Ave	51091 1864947	268049 2134132	553643 2596483	832074	1124585	5.00 175	25.0 200	50.0 250	75.0	100

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1 Analy Batch No.: 134613

SDG No.: _____

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2015 14:28 Calibration End Date: 03/03/2015 18:29 Calibration ID: 22321

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			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
3,4-Dichlorobenzotrifluoride	DCB	Ave	10729 433987	64362 495775	130185 570450	183065	245627	5.00 175	25.0 200	50.0 250	75.0	100
sec-Butylbenzene	DCB	Ave	65330 2200188	326221 2515133	669756 2981190	1008135	1341600	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Dichlorobenzene	DCB	Ave	28602 974213	138101 1106407	280066 1371526	420272	570988	5.00 175	25.0 200	50.0 250	75.0	100
4-Isopropyltoluene	DCB	Ave	51205 1841892	264184 2126114	542443 2531591	824816	1092513	5.00 175	25.0 200	50.0 250	75.0	100
1,4-Dichlorobenzene	DCB	Ave	27681 989384	138120 1119886	283523 1402521	429154	576692	5.00 175	25.0 200	50.0 250	75.0	100
2,4-Dichlorobenzotrifluoride	DCB	Ave	11024 406260	58806 459072	125921 528265	171372	238033	5.00 175	25.0 200	50.0 250	75.0	100
2,5-Dichlorobenzotrifluoride	DCB	Ave	11088 457073	64824 520914	134395 607921	186097	254456	5.00 175	25.0 200	50.0 250	75.0	100
n-Butylbenzene	DCB	Ave	44994 1641091	230526 1909418	479164 2301855	729499	981363	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichlorobenzene	DCB	Ave	25288 903766	123743 1024132	258190 1268840	387327	527759	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dibromo-3-Chloropropane	DCB	Ave	1174 69537	6441 86409	14541 110818	23597	35031	5.00 175	25.0 200	50.0 250	75.0	100
1,2,4-Trichlorobenzene	DCB	Ave	11994 464683	59357 524775	127415 654550	199956	263899	5.00 175	25.0 200	50.0 250	75.0	100
Hexachlorobutadiene	DCB	Ave	5277 186416	27458 227215	54129 277147	81675	111717	5.00 175	25.0 200	50.0 250	75.0	100
Naphthalene	DCB	Ave	34798 1355121	178051 1499909	358706 1887643	580632	773789	5.00 175	25.0 200	50.0 250	75.0	100
1,2,3-Trichlorobenzene	DCB	Ave	10498 394157	52915 445662	103456 568326	171850	224922	5.00 175	25.0 200	50.0 250	75.0	100
2,4,5-Trichlorotoluene	DCB	Ave	5832 200009	25992 227883	52505 286878	81997	109488	5.00 175	25.0 200	50.0 250	75.0	100
2,3,6-Trichlorotoluene	DCB	Ave	5388 182005	24319 202347	48130 260759	78544	102526	5.00 175	25.0 200	50.0 250	75.0	100
Dibromofluoromethane (Surr)	FB	Ave	9351 361120	52645 407623	109435 454279	155860	199995	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloroethane-d4 (Surr)	FB	Ave	12383 444667	61392 495199	133978 585333	185233	250369	5.00 175	25.0 200	50.0 250	75.0	100
Toluene-d8 (Surr)	CBZ	Ave	44042 1566428	237614 1773929	494434 1882951	686909	910944	5.00 175	25.0 200	50.0 250	75.0	100
4-Bromofluorobenzene (Surr)	CBZ	Ave	16688 603450	82659 675059	176122 778464	251005	327893	5.00 175	25.0 200	50.0 250	75.0	100

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1 Analy Batch No.: 134613

SDG No.: _____

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2015 14:28 Calibration End Date: 03/03/2015 18:29 Calibration ID: 22321

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303008.D
 Lims ID: IC VSTD5
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 03-Mar-2015 14:28:30 ALS Bottle#: 6 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD5
 Misc. Info.: 180-0005873-008
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub4
 Method: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 04-Mar-2015 10:13:04 Calib Date: 03-Mar-2015 18:29:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303018.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: fergusond

Date: 03-Mar-2015 15:51:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.314	4.321	-0.007	94	160393	1000.0	1000.0	M
* 2 Fluorobenzene (IS)	96	7.277	7.278	-0.001	98	494254	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.367	10.368	-0.001	96	111812	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.691	12.686	0.005	96	158312	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.528	6.535	-0.007	84	52645	25.0	24.9	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.899	6.907	-0.007	95	61392	25.0	23.5	
\$ 7 Toluene-d8 (Surr)	98	8.931	8.926	0.005	94	237614	25.0	27.3	
\$ 8 4-Bromofluorobenzene (Surr	95	11.535	11.536	-0.001	88	82659	25.0	25.5	
11 Dichlorodifluoromethane	85	1.625	1.626	-0.001	98	61161	25.0	24.6	
12 Chloromethane	50	1.777	1.772	0.005	99	95934	25.0	24.2	
13 Vinyl chloride	62	1.899	1.906	-0.007	98	92094	25.0	24.1	
14 Butadiene	39	1.941	1.948	-0.007	97	107650	25.0	24.3	
15 Bromomethane	94	2.252	2.253	-0.001	92	32814	25.0	26.3	
16 Chloroethane	64	2.379	2.386	-0.007	97	37829	25.0	24.4	
17 Dichlorofluoromethane	67	2.653	2.654	-0.001	97	86469	25.0	24.3	
18 Trichlorofluoromethane	101	2.720	2.709	0.011	95	68228	25.0	23.0	
20 Ethyl ether	59	3.085	3.098	-0.013	94	69164	25.0	24.1	
21 Acrolein	56	3.261	3.263	-0.001	98	49025	125.0	129.5	
22 1,1-Dichloroethene	96	3.371	3.384	-0.013	96	66672	25.0	23.2	
23 1,1,2-Trichloro-1,2,2-trif	101	3.420	3.427	-0.007	94	70857	25.0	24.4	
24 Acetone	43	3.493	3.500	-0.007	98	52872	50.0	50.9	
25 Iodomethane	142	3.584	3.585	-0.001	98	93450	25.0	23.1	
26 Carbon disulfide	76	3.663	3.664	-0.001	99	155959	25.0	22.0	
28 3-Chloro-1-propene	76	3.943	3.950	-0.007	90	41688	25.0	23.2	
30 Methyl acetate	43	4.022	4.023	-0.001	99	332118	125.0	116.3	
31 Methylene Chloride	84	4.150	4.151	-0.001	99	82531	25.0	23.9	
32 2-Methyl-2-propanol	59	4.454	4.437	0.017	96	47518	250.0	247.2	
33 Acrylonitrile	53	4.557	4.558	-0.001	98	338546	250.0	239.2	
34 trans-1,2-Dichloroethene	96	4.569	4.577	-0.008	56	72412	25.0	24.1	
35 Methyl tert-butyl ether	73	4.600	4.601	-0.001	98	174611	25.0	23.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.989	4.990	-0.001	96	127250	25.0	23.8	
37 1,1-Dichloroethane	63	5.178	5.179	-0.001	96	134994	25.0	23.5	
38 Vinyl acetate	43	5.299	5.307	-0.008	96	42316	25.0	21.6	
44 2,2-Dichloropropane	77	5.926	5.933	-0.007	77	47512	25.0	22.4	
45 cis-1,2-Dichloroethene	96	5.938	5.939	-0.001	83	77048	25.0	23.9	
46 2-Butanone (MEK)	43	5.993	5.994	-0.001	99	81869	50.0	48.4	
49 Chlorobromomethane	128	6.230	6.231	-0.001	92	30321	25.0	22.6	
51 Tetrahydrofuran	42	6.297	6.298	-0.001	95	59174	50.0	49.2	
52 Chloroform	83	6.340	6.347	-0.007	97	108043	25.0	23.6	
53 1,1,1-Trichloroethane	97	6.534	6.541	-0.007	96	68728	25.0	22.1	
54 Cyclohexane	56	6.589	6.596	-0.007	92	174651	25.0	25.1	
56 Carbon tetrachloride	117	6.723	6.724	-0.001	58	44069	25.0	20.9	
55 1,1-Dichloropropene	75	6.729	6.730	-0.001	92	94793	25.0	23.9	
57 Isobutyl alcohol	41	6.954	6.955	-0.001	36	31713	625.0	467.5	
58 Benzene	78	6.960	6.961	-0.001	98	303591	25.0	24.3	
59 1,2-Dichloroethane	62	6.991	6.992	-0.001	95	83451	25.0	23.1	
62 n-Heptane	43	7.283	7.284	-0.001	96	108328	25.0	22.3	
64 Trichloroethene	130	7.672	7.673	-0.001	97	71046	25.0	24.2	
66 Methylcyclohexane	83	7.867	7.868	-0.001	94	133492	25.0	24.0	
67 1,2-Dichloropropane	63	7.909	7.910	-0.001	91	75001	25.0	22.9	
68 Dibromomethane	93	8.025	8.026	-0.001	95	34073	25.0	23.0	
70 1,4-Dioxane	88	8.067	8.056	0.011	89	12787	500.0	437.5	M
71 Dichlorobromomethane	83	8.201	8.202	-0.001	97	62048	25.0	22.5	
74 cis-1,3-Dichloropropene	75	8.664	8.665	-0.001	91	75900	25.0	20.8	
75 4-Methyl-2-pentanone (MIBK)	43	8.828	8.829	-0.001	98	171096	50.0	50.7	
76 Toluene	91	8.992	8.993	-0.001	97	305509	25.0	26.5	
77 trans-1,3-Dichloropropene	75	9.223	9.224	-0.001	99	53750	25.0	22.1	
78 Ethyl methacrylate	69	9.321	9.322	-0.001	93	55893	25.0	20.4	
79 1,1,2-Trichloroethane	97	9.400	9.407	-0.007	91	53855	25.0	25.5	
80 Tetrachloroethene	164	9.540	9.541	-0.001	96	55560	25.0	26.1	
81 1,3-Dichloropropane	76	9.570	9.571	-0.001	98	104148	25.0	26.3	
82 2-Hexanone	43	9.661	9.662	-0.001	99	116636	50.0	49.5	
84 Chlorodibromomethane	129	9.795	9.796	-0.001	89	29519	25.0	21.3	
85 Ethylene Dibromide	107	9.905	9.906	-0.001	96	49397	25.0	24.3	
86 3-Chlorobenzotrifluoride	180	10.379	10.374	0.005	94	92250	25.0	26.1	
87 Chlorobenzene	112	10.397	10.398	-0.001	95	194761	25.0	26.4	
88 4-Chlorobenzotrifluoride	180	10.434	10.435	-0.001	94	87255	25.0	25.8	
89 1,1,1,2-Tetrachloroethane	131	10.483	10.477	0.006	86	35053	25.0	20.6	
90 Ethylbenzene	106	10.507	10.508	-0.001	98	109479	25.0	25.6	
91 m-Xylene & p-Xylene	106	10.622	10.624	-0.002	99	131016	25.0	24.9	
92 o-Xylene	106	11.018	11.013	0.005	96	131707	25.0	25.8	
93 Styrene	104	11.030	11.031	-0.001	95	208713	25.0	25.0	
94 Bromoform	173	11.219	11.214	0.005	96	15007	25.0	20.5	
96 2-Chlorobenzotrifluoride	180	11.279	11.274	0.005	97	94998	25.0	27.1	
97 Isopropylbenzene	105	11.383	11.384	-0.001	96	332572	25.0	26.5	
99 1,1,2,2-Tetrachloroethane	83	11.681	11.676	0.005	95	73095	25.0	25.0	
100 Bromobenzene	156	11.693	11.682	0.011	97	68608	25.0	24.8	
101 1,2,3-Trichloropropane	110	11.730	11.725	0.005	87	23201	25.0	25.0	
102 trans-1,4-Dichloro-2-buten	53	11.730	11.737	-0.007	68	21797	25.0	24.2	
103 N-Propylbenzene	120	11.790	11.792	-0.002	99	92868	25.0	25.3	
104 2-Chlorotoluene	126	11.876	11.883	-0.007	96	75841	25.0	25.0	
105 3-Chlorotoluene	126	11.936	11.938	-0.002	95	78996	25.0	25.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.967	11.968	-0.001	95	256444	25.0	25.2	
107 4-Chlorotoluene	126	11.991	11.986	0.005	97	77780	25.0	23.8	
108 tert-Butylbenzene	119	12.289	12.290	-0.001	93	225443	25.0	25.7	
110 1,2,4-Trimethylbenzene	105	12.344	12.339	0.005	95	268049	25.0	25.5	
111 1,2-dichloro-4-(trifluorom	214	12.405	12.406	-0.001	97	64362	25.0	27.2	
112 sec-Butylbenzene	105	12.514	12.509	0.005	94	326221	25.0	25.8	
113 1,3-Dichlorobenzene	146	12.624	12.625	-0.001	97	138101	25.0	25.3	
114 4-Isopropyltoluene	119	12.654	12.655	-0.001	97	264184	25.0	25.5	
115 1,4-Dichlorobenzene	146	12.715	12.710	0.005	95	138120	25.0	25.1	
116 2,4-Dichloro-1-(trifluorom	214	12.764	12.765	-0.001	96	58806	25.0	26.1	
118 2,5-Dichlorobenzotrifluori	214	12.813	12.807	0.005	97	64824	25.0	26.4	
120 n-Butylbenzene	91	13.068	13.069	-0.001	98	230526	25.0	25.1	
121 1,2-Dichlorobenzene	146	13.086	13.087	-0.001	95	123743	25.0	24.8	
122 1,2-Dibromo-3-Chloropropan	75	13.865	13.866	-0.001	63	6441	25.0	19.6	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.005	14.006	-0.001	98	259963	75.0	76.1	
125 2,3- & 3,4- Dichlorotoluen	125	14.431	14.432	-0.001	99	168108	50.0	49.8	
126 1,2,4-Trichlorobenzene	180	14.698	14.693	0.005	94	59357	25.0	23.7	
127 Hexachlorobutadiene	225	14.869	14.870	-0.001	96	27458	25.0	25.7	
128 Naphthalene	128	14.948	14.943	0.005	97	178051	25.0	24.5	
129 1,2,3-Trichlorobenzene	180	15.191	15.186	0.005	95	52915	25.0	24.7	
131 2,4,5-Trichlorotoluene	159	15.970	15.971	-0.001	97	25992	25.0	24.0	
130 2,3,6-Trichlorotoluene	159	16.067	16.068	-0.001	97	24319	25.0	24.3	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		50.0	50.7	
S 134 1,2-Dichloroethene, Total	96				0		50.0	48.0	
S 135 1,3-Dichloropropene, Total	1				0		50.0	42.8	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOAACRPRI_00003	Amount Added: 5.00	Units: uL	
VOA8260SURR_00031	Amount Added: 1.00	Units: uL	
VOA8260VOAPRI_00102	Amount Added: 1.00	Units: uL	
voaWEEpri Res_00003	Amount Added: 1.00	Units: uL	
VOAVAPRI_00003	Amount Added: 1.00	Units: uL	
voaWKetpri Re_00003	Amount Added: 1.00	Units: uL	
VOA8260INT_00029	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303008.D

Injection Date: 03-Mar-2015 14:28:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: IC VSTD5

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

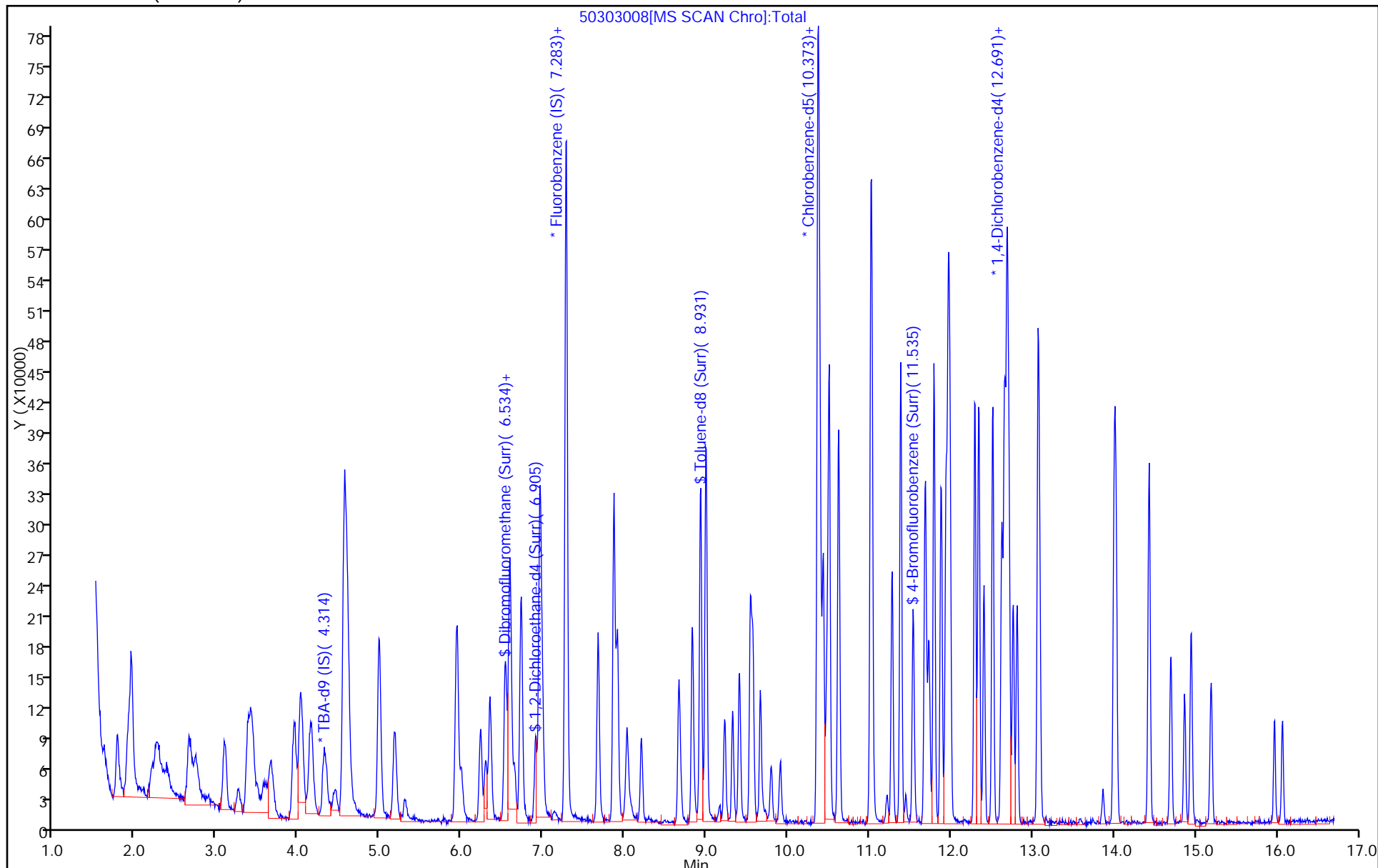
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



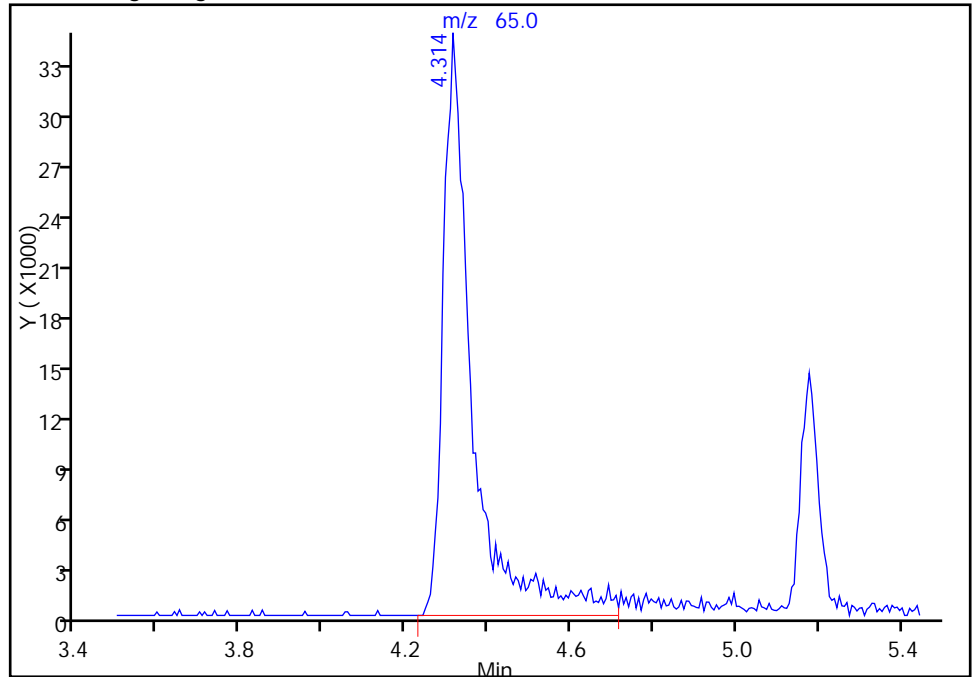
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303008.D
Injection Date: 03-Mar-2015 14:28:30 Instrument ID: CHHP5
Lims ID: IC VSTD5
Client ID:
Operator ID: 001562 ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

* 1 TBA-d9 (IS), CAS: 25725-11-5

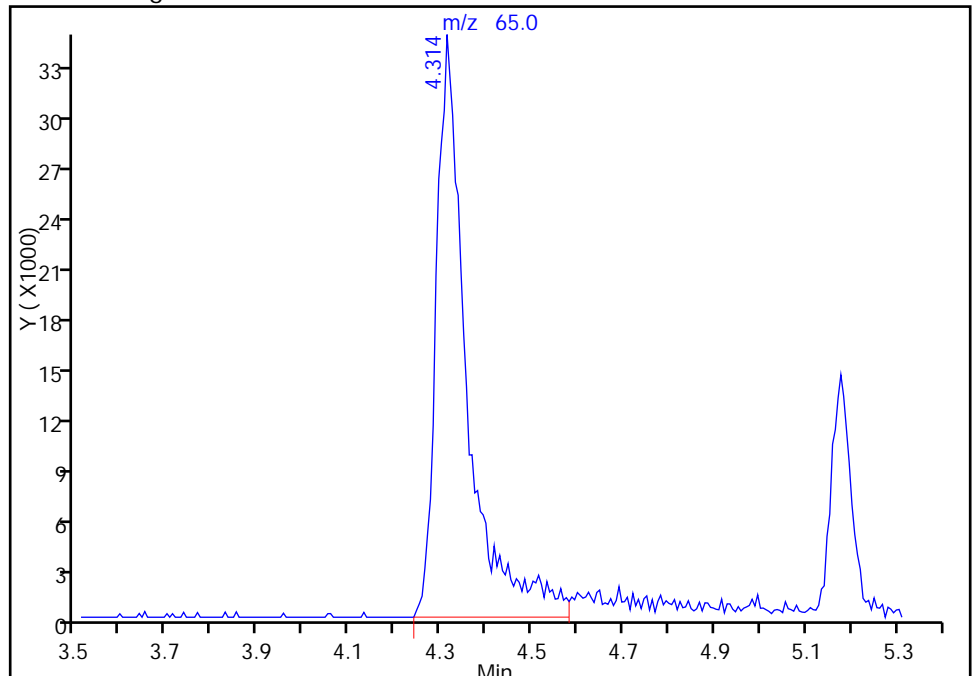
RT: 4.31
Area: 169293
Amount: 1000.0000
Amount Units: ng

Processing Integration Results



RT: 4.31
Area: 160393
Amount: 1000.0000
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 04-Mar-2015 09:28:28
Audit Action: Manually Integrated
Audit Reason: Peak Tail

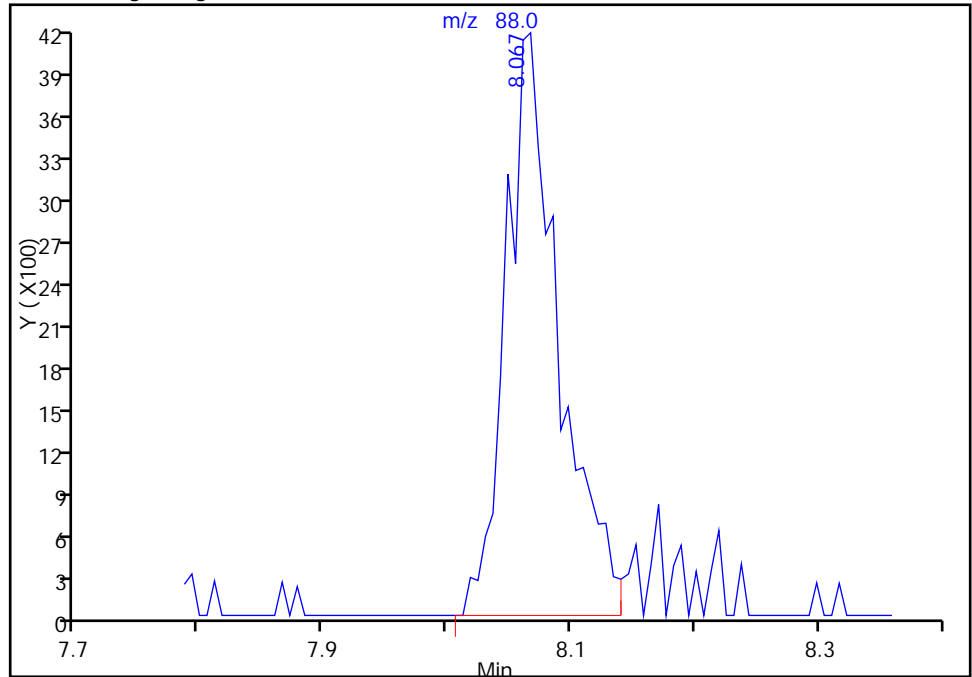
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303008.D
Injection Date: 03-Mar-2015 14:28:30 Instrument ID: CHHP5
Lims ID: IC VSTD5
Client ID:
Operator ID: 001562 ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

70 1,4-Dioxane, CAS: 123-91-1

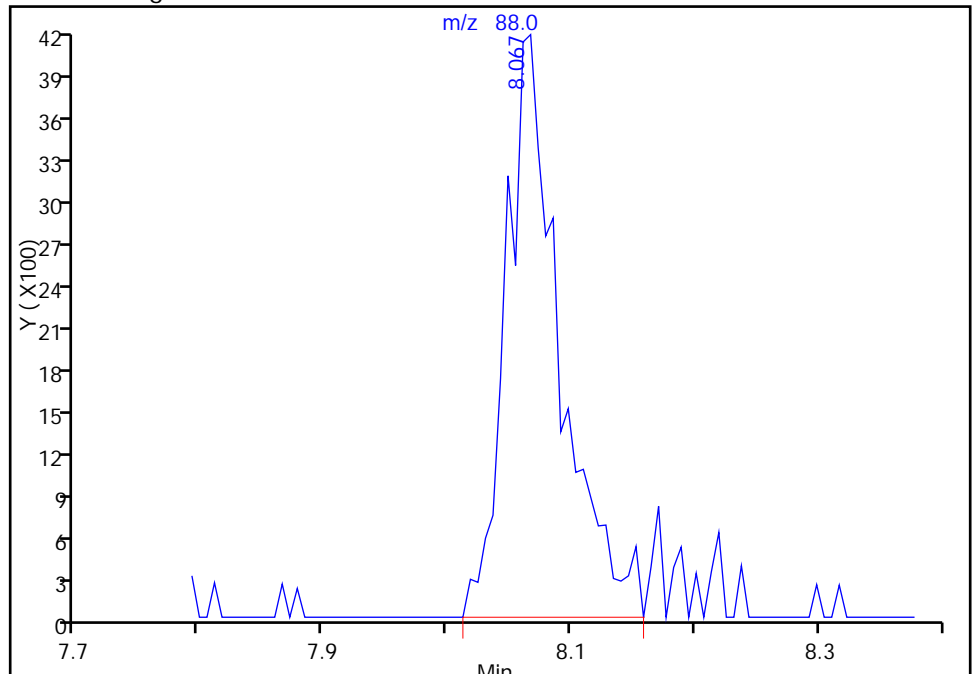
RT: 8.07
Area: 12493
Amount: 432.4578
Amount Units: ng

Processing Integration Results



RT: 8.07
Area: 12787
Amount: 437.5160
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 04-Mar-2015 09:20:09
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303009.D
 Lims ID: ICIS VSTD10
 Client ID:
 Sample Type: ICIS Calib Level: 3
 Inject. Date: 03-Mar-2015 14:52:30 ALS Bottle#: 7 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICIS VSTD10
 Misc. Info.: 180-0005873-009
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub4
 Method: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 04-Mar-2015 10:28:23 Calib Date: 03-Mar-2015 18:29:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303018.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: fergusond

Date: 04-Mar-2015 10:28:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.321	4.321	0.000	75	164184	1000.0	1000.0	M
* 2 Fluorobenzene (IS)	96	7.278	7.278	0.000	95	524529	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.368	10.368	0.000	94	127341	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.686	12.686	0.000	92	172477	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.535	6.535	0.000	49	109435	50.0	48.7	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.907	6.907	0.000	67	133978	50.0	48.3	
\$ 7 Toluene-d8 (Surr)	98	8.926	8.926	0.000	80	494434	50.0	49.8	
\$ 8 4-Bromofluorobenzene (Surr	95	11.536	11.536	0.000	89	176122	50.0	47.7	
11 Dichlorodifluoromethane	85	1.626	1.626	0.000	97	120251	50.0	45.6	
12 Chloromethane	50	1.772	1.772	0.000	87	191737	50.0	45.5	
13 Vinyl chloride	62	1.906	1.906	0.000	83	192697	50.0	47.6	
14 Butadiene	39	1.948	1.948	0.000	97	214505	50.0	45.7	
15 Bromomethane	94	2.253	2.253	0.000	89	68450	50.0	56.6	
16 Chloroethane	64	2.386	2.386	0.000	93	76259	50.0	46.3	
17 Dichlorofluoromethane	67	2.654	2.654	0.000	96	199002	50.0	52.7	
18 Trichlorofluoromethane	101	2.709	2.709	0.000	81	165171	50.0	52.4	
20 Ethyl ether	59	3.098	3.098	0.000	86	134232	50.0	44.1	
21 Acrolein	56	3.263	3.263	0.000	88	55616	150.0	138.4	
22 1,1-Dichloroethene	96	3.384	3.384	0.000	98	136777	50.0	44.8	
23 1,1,2-Trichloro-1,2,2-trif	101	3.427	3.427	0.000	93	138904	50.0	45.0	
24 Acetone	43	3.500	3.500	0.000	96	100332	100.0	91.1	
25 Iodomethane	142	3.585	3.585	0.000	94	191906	50.0	44.7	
26 Carbon disulfide	76	3.664	3.664	0.000	99	333091	50.0	44.3	
28 3-Chloro-1-propene	76	3.950	3.950	0.000	88	83771	50.0	43.9	
30 Methyl acetate	43	4.023	4.023	0.000	99	667992	250.0	220.5	
31 Methylene Chloride	84	4.151	4.151	0.000	92	157472	50.0	46.0	
32 2-Methyl-2-propanol	59	4.437	4.437	0.000	71	88451	500.0	449.6	
33 Acrylonitrile	53	4.558	4.558	0.000	100	691056	500.0	460.1	
34 trans-1,2-Dichloroethene	96	4.577	4.577	0.000	59	145422	50.0	45.5	
35 Methyl tert-butyl ether	73	4.601	4.601	0.000	92	357516	50.0	44.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.990	4.990	0.000	94	262665	50.0	46.3	
37 1,1-Dichloroethane	63	5.179	5.179	0.000	85	274871	50.0	45.2	
38 Vinyl acetate	43	5.307	5.307	0.000	96	96814	50.0	46.6	
44 2,2-Dichloropropane	77	5.933	5.933	0.000	63	100580	50.0	44.6	
45 cis-1,2-Dichloroethene	96	5.939	5.939	0.000	71	151771	50.0	44.4	
46 2-Butanone (MEK)	43	5.994	5.994	0.000	93	160864	100.0	89.6	
49 Chlorobromomethane	128	6.231	6.231	0.000	87	62252	50.0	43.7	
51 Tetrahydrofuran	42	6.298	6.298	0.000	92	110296	100.0	86.4	
52 Chloroform	83	6.347	6.347	0.000	84	211933	50.0	43.7	
53 1,1,1-Trichloroethane	97	6.541	6.541	0.000	89	146155	50.0	44.4	
54 Cyclohexane	56	6.596	6.596	0.000	94	341881	50.0	46.2	
56 Carbon tetrachloride	117	6.724	6.724	0.000	61	92122	50.0	41.2	
55 1,1-Dichloropropene	75	6.730	6.730	0.000	90	191632	50.0	45.6	
57 Isobutyl alcohol	41	6.955	6.955	0.000	39	64264	1250.0	892.6	
58 Benzene	78	6.961	6.961	0.000	97	602514	50.0	45.5	
59 1,2-Dichloroethane	62	6.992	6.992	0.000	87	170712	50.0	44.6	
62 n-Heptane	43	7.284	7.284	0.000	71	235230	50.0	45.7	
64 Trichloroethene	130	7.673	7.673	0.000	93	142439	50.0	45.6	
66 Methylcyclohexane	83	7.868	7.868	0.000	92	269904	50.0	45.8	
67 1,2-Dichloropropane	63	7.910	7.910	0.000	90	157237	50.0	45.2	
68 Dibromomethane	93	8.026	8.026	0.000	91	69033	50.0	43.9	
70 1,4-Dioxane	88	8.056	8.056	0.000	94	25299	1000.0	815.7	M
71 Dichlorobromomethane	83	8.202	8.202	0.000	90	123848	50.0	42.3	
74 cis-1,3-Dichloropropene	75	8.665	8.665	0.000	90	172126	50.0	44.4	
75 4-Methyl-2-pentanone (MIBK)	43	8.829	8.829	0.000	96	349805	100.0	91.0	
76 Toluene	91	8.993	8.993	0.000	91	612731	50.0	46.6	
77 trans-1,3-Dichloropropene	75	9.224	9.224	0.000	82	118446	50.0	42.7	
78 Ethyl methacrylate	69	9.322	9.322	0.000	94	131269	50.0	42.1	
79 1,1,2-Trichloroethane	97	9.407	9.407	0.000	85	109481	50.0	45.6	
80 Tetrachloroethene	164	9.541	9.541	0.000	97	111273	50.0	45.9	
81 1,3-Dichloropropane	76	9.571	9.571	0.000	95	208110	50.0	46.1	
82 2-Hexanone	43	9.662	9.662	0.000	98	246507	100.0	91.8	
84 Chlorodibromomethane	129	9.796	9.796	0.000	88	64530	50.0	40.9	
85 Ethylene Dibromide	107	9.906	9.906	0.000	99	103819	50.0	44.9	
86 3-Chlorobenzotrifluoride	180	10.374	10.374	0.000	74	196791	50.0	48.8	
87 Chlorobenzene	112	10.398	10.398	0.000	90	384609	50.0	45.7	
88 4-Chlorobenzotrifluoride	180	10.435	10.435	0.000	78	193901	50.0	50.3	
89 1,1,1,2-Tetrachloroethane	131	10.477	10.477	0.000	79	80096	50.0	41.3	
90 Ethylbenzene	106	10.508	10.508	0.000	98	225030	50.0	46.2	
91 m-Xylene & p-Xylene	106	10.624	10.624	0.000	99	274985	50.0	45.9	
92 o-Xylene	106	11.013	11.013	0.000	92	271432	50.0	46.7	
93 Styrene	104	11.031	11.031	0.000	91	439152	50.0	46.2	
94 Bromoform	173	11.214	11.214	0.000	69	30710	50.0	36.8	
96 2-Chlorobenzotrifluoride	180	11.274	11.274	0.000	95	193920	50.0	48.5	
97 Isopropylbenzene	105	11.384	11.384	0.000	96	672554	50.0	47.1	
99 1,1,2,2-Tetrachloroethane	83	11.676	11.676	0.000	76	154009	50.0	46.3	
100 Bromobenzene	156	11.682	11.682	0.000	94	141042	50.0	46.8	
101 1,2,3-Trichloropropane	110	11.725	11.725	0.000	57	47052	50.0	46.6	
102 trans-1,4-Dichloro-2-buten	53	11.737	11.737	0.000	60	42637	50.0	43.5	
103 N-Propylbenzene	120	11.792	11.792	0.000	93	195976	50.0	49.0	
104 2-Chlorotoluene	126	11.883	11.883	0.000	96	154797	50.0	46.8	
105 3-Chlorotoluene	126	11.938	11.938	0.000	55	166326	50.0	49.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.968	11.968	0.000	94	539843	50.0	48.7	
107 4-Chlorotoluene	126	11.986	11.986	0.000	98	171070	50.0	48.0	
108 tert-Butylbenzene	119	12.290	12.290	0.000	63	468002	50.0	49.0	
110 1,2,4-Trimethylbenzene	105	12.339	12.339	0.000	98	553643	50.0	48.4	
111 1,2-dichloro-4-(trifluorom	214	12.406	12.406	0.000	96	130185	50.0	50.4	
112 sec-Butylbenzene	105	12.509	12.509	0.000	94	669756	50.0	48.7	
113 1,3-Dichlorobenzene	146	12.625	12.625	0.000	82	280066	50.0	47.0	
114 4-Isopropyltoluene	119	12.655	12.655	0.000	91	542443	50.0	48.1	
115 1,4-Dichlorobenzene	146	12.710	12.710	0.000	92	283523	50.0	47.3	
116 2,4-Dichloro-1-(trifluorom	214	12.765	12.765	0.000	89	125921	50.0	51.3	
118 2,5-Dichlorobenzotrifluori	214	12.807	12.807	0.000	97	134395	50.0	50.3	
120 n-Butylbenzene	91	13.069	13.069	0.000	95	479164	50.0	47.8	
121 1,2-Dichlorobenzene	146	13.087	13.087	0.000	94	258190	50.0	47.4	
122 1,2-Dibromo-3-Chloropropan	75	13.866	13.866	0.000	51	14541	50.0	40.5	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.006	14.006	0.000	96	553886	150.0	148.9	
125 2,3- & 3,4- Dichlorotoluen	125	14.432	14.432	0.000	98	360944	100.0	98.1	
126 1,2,4-Trichlorobenzene	180	14.693	14.693	0.000	91	127415	50.0	46.8	
127 Hexachlorobutadiene	225	14.870	14.870	0.000	90	54129	50.0	46.5	
128 Naphthalene	128	14.943	14.943	0.000	97	358706	50.0	45.4	
129 1,2,3-Trichlorobenzene	180	15.186	15.186	0.000	95	103456	50.0	44.3	
131 2,4,5-Trichlorotoluene	159	15.971	15.971	0.000	93	52505	50.0	44.4	
130 2,3,6-Trichlorotoluene	159	16.068	16.068	0.000	94	48130	50.0	44.2	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		100.0	92.5	
S 134 1,2-Dichloroethene, Total	96				0		100.0	90.0	
S 135 1,3-Dichloropropene, Total	1				0		100.0	87.1	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOAACRPRI_00003	Amount Added: 6.00	Units: uL	
VOA8260SURRE_00031	Amount Added: 2.00	Units: uL	
VOA8260VOAPRI_00102	Amount Added: 2.00	Units: uL	
voaWEEpri Res_00003	Amount Added: 2.00	Units: uL	
VOAVAPRI_00003	Amount Added: 2.00	Units: uL	
voaWKetpri Re_00003	Amount Added: 2.00	Units: uL	
VOA8260INT_00029	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303009.D

Injection Date: 03-Mar-2015 14:52:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: ICIS VSTD10

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

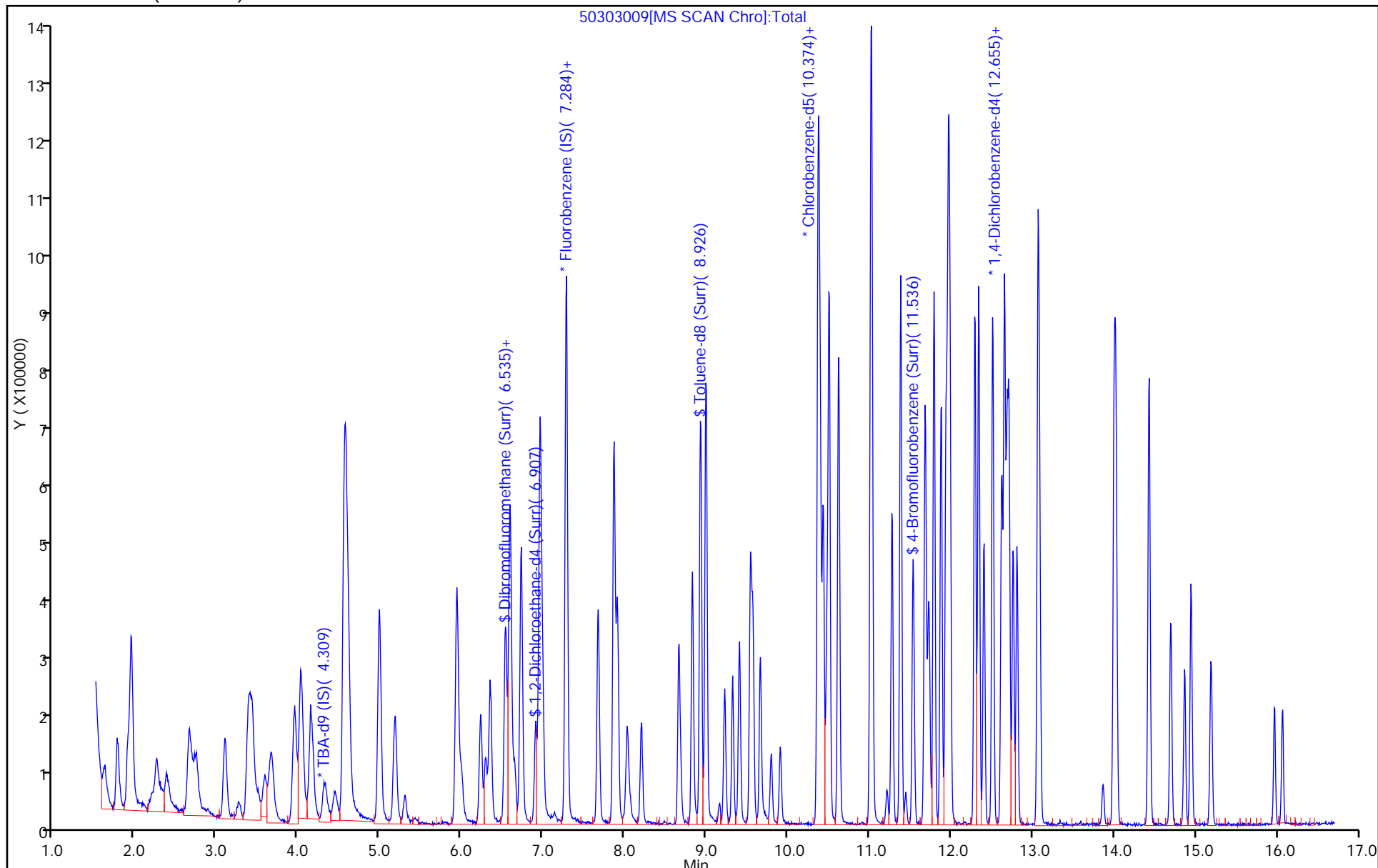
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



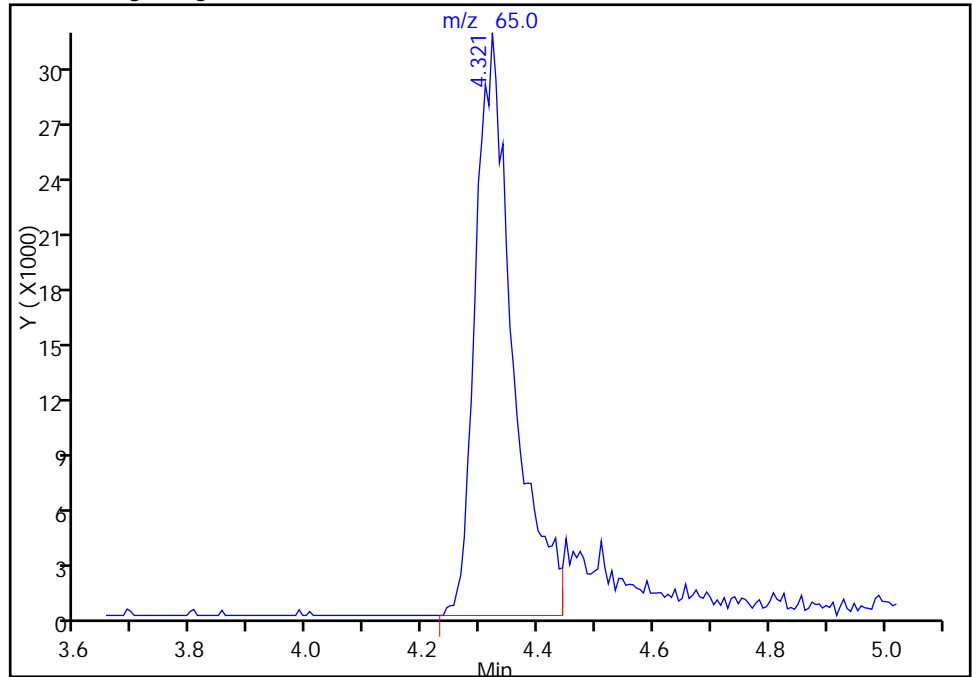
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303009.D
Injection Date: 03-Mar-2015 14:52:30 Instrument ID: CHHP5
Lims ID: ICIS VSTD10
Client ID:
Operator ID: 001562 ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

* 1 TBA-d9 (IS), CAS: 25725-11-5

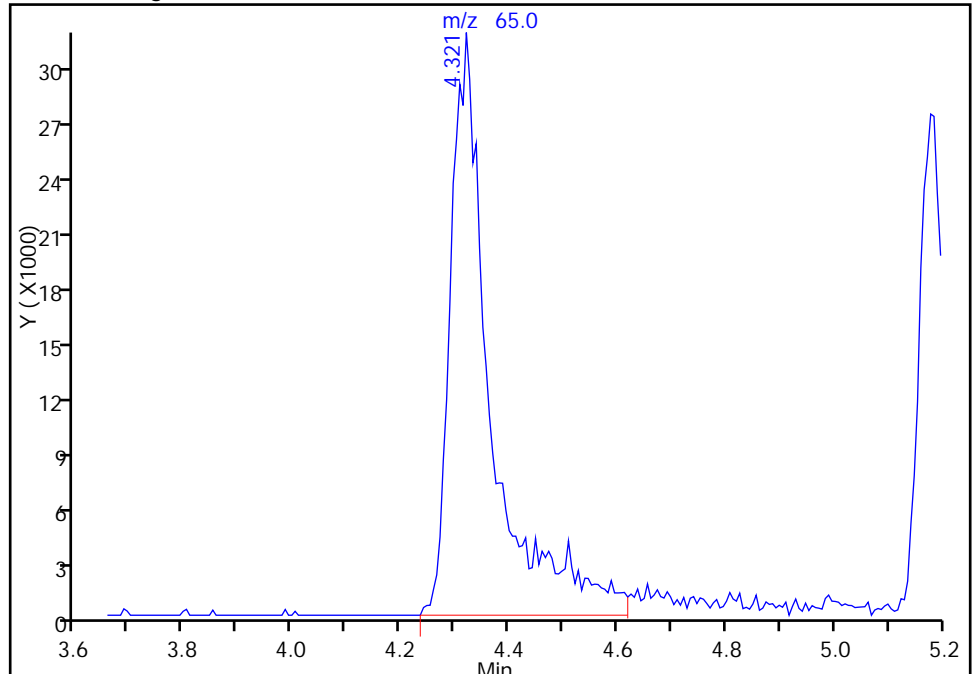
RT: 4.32
Area: 141522
Amount: 1000.0000
Amount Units: ng

Processing Integration Results



RT: 4.32
Area: 164184
Amount: 1000.0000
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 04-Mar-2015 09:28:59
Audit Action: Manually Integrated
Audit Reason: Peak Tail

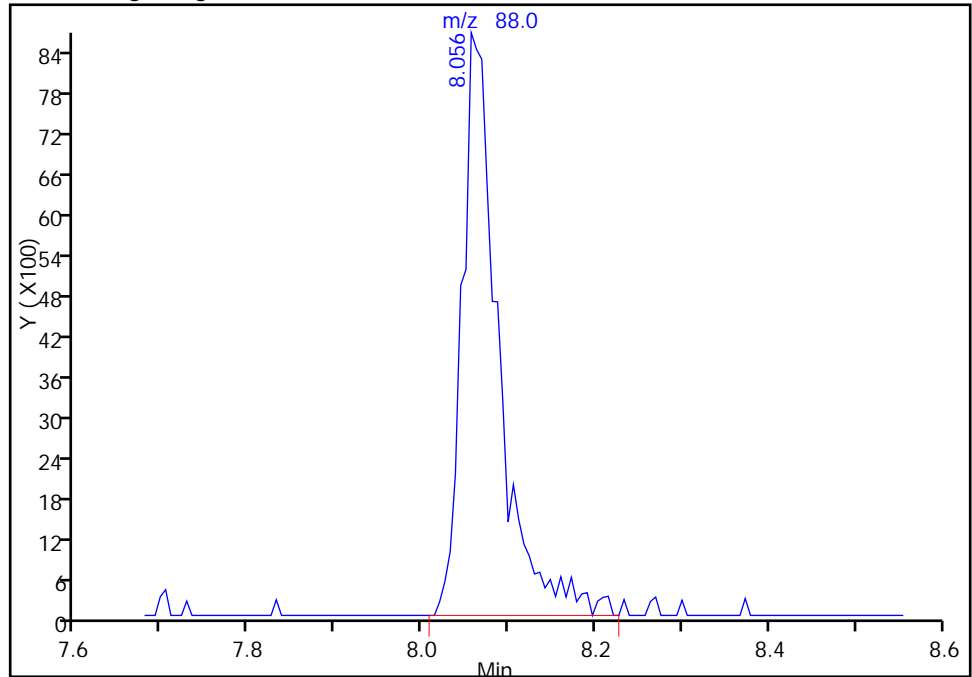
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303009.D
Injection Date: 03-Mar-2015 14:52:30 Instrument ID: CHHP5
Lims ID: ICIS VSTD10
Client ID:
Operator ID: 001562 ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

70 1,4-Dioxane, CAS: 123-91-1

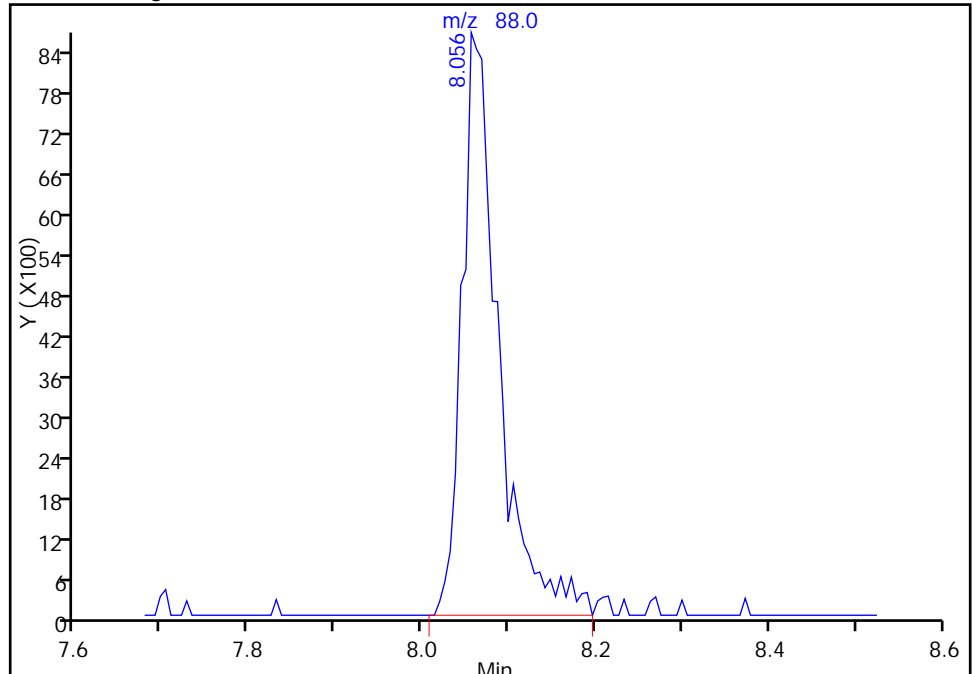
RT: 8.06
Area: 25579
Amount: 832.2190
Amount Units: ng

Processing Integration Results



RT: 8.06
Area: 25299
Amount: 815.6604
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 04-Mar-2015 09:25:43
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303010.D
 Lims ID: IC VSTD15
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 03-Mar-2015 15:16:30 ALS Bottle#: 8 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD15
 Misc. Info.: 180-0005873-010
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub4
 Method: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 04-Mar-2015 10:13:08 Calib Date: 03-Mar-2015 18:29:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303018.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: fergusond

Date: 04-Mar-2015 09:26:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.321	4.321	0.000	94	173343	1000.0	1000.0	M
* 2 Fluorobenzene (IS)	96	7.277	7.277	0.000	96	473168	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.368	10.368	0.000	95	112379	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.685	12.685	0.000	95	164943	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.535	6.535	0.000	79	155860	75.0	76.9	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.912	6.912	0.000	96	185233	75.0	74.0	
\$ 7 Toluene-d8 (Surr)	98	8.932	8.932	0.000	94	686909	75.0	78.4	
\$ 8 4-Bromofluorobenzene (Surr	95	11.536	11.536	0.000	86	251005	75.0	77.0	
11 Dichlorodifluoromethane	85	1.620	1.620	0.000	98	186155	75.0	78.3	
12 Chloromethane	50	1.778	1.778	0.000	99	284435	75.0	74.9	
13 Vinyl chloride	62	1.912	1.912	0.000	98	276203	75.0	75.6	
14 Butadiene	39	1.948	1.948	0.000	98	311986	75.0	73.7	
15 Bromomethane	94	2.258	2.258	0.000	89	83485	75.0	78.2	
16 Chloroethane	64	2.380	2.380	0.000	97	109418	75.0	73.7	
17 Dichlorofluoromethane	67	2.648	2.648	0.000	97	252307	75.0	74.1	
18 Trichlorofluoromethane	101	2.708	2.708	0.000	97	211640	75.0	74.4	
20 Ethyl ether	59	3.092	3.092	0.000	100	203184	75.0	74.0	
21 Acrolein	56	3.274	3.274	0.000	100	66477	175.0	183.4	
22 1,1-Dichloroethene	96	3.384	3.384	0.000	100	210842	75.0	76.5	
23 1,1,2-Trichloro-1,2,2-trif	101	3.420	3.420	0.000	100	215323	75.0	77.3	
24 Acetone	43	3.505	3.505	0.000	100	145165	150.0	146.1	
25 Iodomethane	142	3.585	3.585	0.000	100	288929	75.0	74.5	
26 Carbon disulfide	76	3.664	3.664	0.000	100	513502	75.0	75.7	
28 3-Chloro-1-propene	76	3.956	3.956	0.000	100	129734	75.0	75.4	
30 Methyl acetate	43	4.029	4.029	0.000	100	1035670	375.0	378.9	
31 Methylene Chloride	84	4.150	4.150	0.000	100	227072	75.0	75.7	
32 2-Methyl-2-propanol	59	4.454	4.454	0.000	100	166475	750.0	801.4	
33 Acrylonitrile	53	4.564	4.564	0.000	100	1012388	750.0	747.2	
34 trans-1,2-Dichloroethene	96	4.576	4.576	0.000	100	213264	75.0	74.0	
35 Methyl tert-butyl ether	73	4.607	4.607	0.000	100	532783	75.0	74.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.990	4.990	0.000	100	382955	75.0	74.9	
37 1,1-Dichloroethane	63	5.178	5.178	0.000	100	412070	75.0	75.0	
38 Vinyl acetate	43	5.306	5.306	0.000	100	136421	75.0	72.7	
44 2,2-Dichloropropane	77	5.933	5.933	0.000	100	152789	75.0	75.2	
45 cis-1,2-Dichloroethene	96	5.945	5.945	0.000	100	230462	75.0	74.8	
46 2-Butanone (MEK)	43	6.000	6.000	0.000	100	231681	150.0	143.1	
49 Chlorobromomethane	128	6.237	6.237	0.000	100	93661	75.0	73.0	
51 Tetrahydrofuran	42	6.292	6.292	0.000	100	164028	150.0	142.4	
52 Chloroform	83	6.346	6.346	0.000	100	325101	75.0	74.3	
53 1,1,1-Trichloroethane	97	6.535	6.535	0.000	100	222478	75.0	74.9	
54 Cyclohexane	56	6.590	6.590	0.000	100	510634	75.0	76.6	
56 Carbon tetrachloride	117	6.724	6.724	0.000	100	148555	75.0	73.7	
55 1,1-Dichloropropene	75	6.730	6.730	0.000	100	290552	75.0	76.6	
57 Isobutyl alcohol	41	6.949	6.949	0.000	100	110778	1875.0	1705.7	
58 Benzene	78	6.967	6.967	0.000	100	905954	75.0	75.8	
59 1,2-Dichloroethane	62	6.991	6.991	0.000	100	260776	75.0	75.5	
62 n-Heptane	43	7.283	7.283	0.000	100	351211	75.0	75.6	
64 Trichloroethene	130	7.673	7.673	0.000	100	215876	75.0	76.7	
66 Methylcyclohexane	83	7.867	7.867	0.000	100	402645	75.0	75.7	
67 1,2-Dichloropropane	63	7.910	7.910	0.000	100	233558	75.0	74.4	
68 Dibromomethane	93	8.025	8.025	0.000	100	105949	75.0	74.8	
70 1,4-Dioxane	88	8.068	8.068	0.000	100	41693	1500.0	1490.1	
71 Dichlorobromomethane	83	8.202	8.202	0.000	100	196712	75.0	74.4	
74 cis-1,3-Dichloropropene	75	8.664	8.664	0.000	100	264977	75.0	75.7	
75 4-Methyl-2-pentanone (MIBK)	43	8.828	8.828	0.000	100	535170	150.0	157.7	
76 Toluene	91	8.999	8.999	0.000	100	901036	75.0	77.7	
77 trans-1,3-Dichloropropene	75	9.224	9.224	0.000	100	181868	75.0	74.4	
78 Ethyl methacrylate	69	9.321	9.321	0.000	100	212852	75.0	77.4	
79 1,1,2-Trichloroethane	97	9.406	9.406	0.000	100	164474	75.0	77.6	
80 Tetrachloroethene	164	9.540	9.540	0.000	100	166159	75.0	77.6	
81 1,3-Dichloropropane	76	9.571	9.571	0.000	100	308357	75.0	77.4	
82 2-Hexanone	43	9.662	9.662	0.000	100	379170	150.0	160.1	
84 Chlorodibromomethane	129	9.796	9.796	0.000	100	104491	75.0	75.0	
85 Ethylene Dibromide	107	9.905	9.905	0.000	100	156151	75.0	76.5	
86 3-Chlorobenzotrifluoride	180	10.374	10.374	0.000	100	273444	75.0	76.9	
87 Chlorobenzene	112	10.398	10.398	0.000	100	567114	75.0	76.3	
88 4-Chlorobenzotrifluoride	180	10.428	10.428	0.000	100	266494	75.0	78.4	
89 1,1,1,2-Tetrachloroethane	131	10.477	10.477	0.000	100	126760	75.0	74.0	
90 Ethylbenzene	106	10.508	10.508	0.000	100	336025	75.0	78.2	
91 m-Xylene & p-Xylene	106	10.623	10.623	0.000	100	411920	75.0	77.9	
92 o-Xylene	106	11.019	11.019	0.000	100	400497	75.0	78.0	
93 Styrene	104	11.031	11.031	0.000	100	658511	75.0	78.5	
94 Bromoform	173	11.213	11.213	0.000	100	53409	75.0	72.6	
96 2-Chlorobenzotrifluoride	180	11.280	11.280	0.000	100	270017	75.0	76.6	
97 Isopropylbenzene	105	11.384	11.384	0.000	100	1000450	75.0	79.4	
99 1,1,2,2-Tetrachloroethane	83	11.682	11.682	0.000	100	226865	75.0	77.2	
100 Bromobenzene	156	11.688	11.688	0.000	100	214072	75.0	74.3	
101 1,2,3-Trichloropropane	110	11.724	11.724	0.000	100	69273	75.0	71.7	
102 trans-1,4-Dichloro-2-buten	53	11.736	11.736	0.000	100	66494	75.0	70.9	
103 N-Propylbenzene	120	11.791	11.791	0.000	100	290195	75.0	75.8	
104 2-Chlorotoluene	126	11.882	11.882	0.000	100	235369	75.0	74.5	
105 3-Chlorotoluene	126	11.937	11.937	0.000	100	229133	75.0	70.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.968	11.968	0.000	100	806423	75.0	76.1	
107 4-Chlorotoluene	126	11.986	11.986	0.000	100	256729	75.0	75.3	
108 tert-Butylbenzene	119	12.296	12.296	0.000	100	700240	75.0	76.6	
110 1,2,4-Trimethylbenzene	105	12.339	12.339	0.000	100	832074	75.0	76.1	
111 1,2-dichloro-4-(trifluorom	214	12.406	12.406	0.000	100	183065	75.0	74.2	
112 sec-Butylbenzene	105	12.515	12.515	0.000	100	1008135	75.0	76.6	
113 1,3-Dichlorobenzene	146	12.625	12.625	0.000	100	420272	75.0	73.8	
114 4-Isopropyltoluene	119	12.655	12.655	0.000	100	824816	75.0	76.5	
115 1,4-Dichlorobenzene	146	12.710	12.710	0.000	100	429154	75.0	74.9	
116 2,4-Dichloro-1-(trifluorom	214	12.764	12.764	0.000	100	171372	75.0	73.1	
118 2,5-Dichlorobenzotrifluori	214	12.813	12.813	0.000	100	186097	75.0	72.8	
120 n-Butylbenzene	91	13.069	13.069	0.000	100	729499	75.0	76.1	
121 1,2-Dichlorobenzene	146	13.087	13.087	0.000	100	387327	75.0	74.4	
122 1,2-Dibromo-3-Chloropropan	75	13.866	13.866	0.000	100	23597	75.0	68.8	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.012	14.012	0.000	100	813805	225.0	228.8	
125 2,3- & 3,4- Dichlorotoluen	125	14.431	14.431	0.000	100	529936	150.0	150.7	
126 1,2,4-Trichlorobenzene	180	14.693	14.693	0.000	100	199956	75.0	76.8	
127 Hexachlorobutadiene	225	14.869	14.869	0.000	100	81675	75.0	73.4	
128 Naphthalene	128	14.942	14.942	0.000	100	580632	75.0	76.8	
129 1,2,3-Trichlorobenzene	180	15.192	15.192	0.000	100	171850	75.0	76.9	
131 2,4,5-Trichlorotoluene	159	15.970	15.970	0.000	100	81997	75.0	72.6	
130 2,3,6-Trichlorotoluene	159	16.068	16.068	0.000	100	78544	75.0	75.4	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		150.0	155.9	
S 134 1,2-Dichloroethene, Total	96				0		150.0	148.8	
S 135 1,3-Dichloropropene, Total	1				0		150.0	150.1	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

voaWketpri Re_00003	Amount Added: 3.00	Units: uL	
VOA8260SURR_00031	Amount Added: 3.00	Units: uL	
VOA8260VOAPRI_00102	Amount Added: 3.00	Units: uL	
voaWEEpri Res_00003	Amount Added: 3.00	Units: uL	
VOAVAPRI_00003	Amount Added: 3.00	Units: uL	
VOAACRPRI_00003	Amount Added: 7.00	Units: uL	
VOA8260INT_00029	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303010.D

Injection Date: 03-Mar-2015 15:16:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: IC VSTD15

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

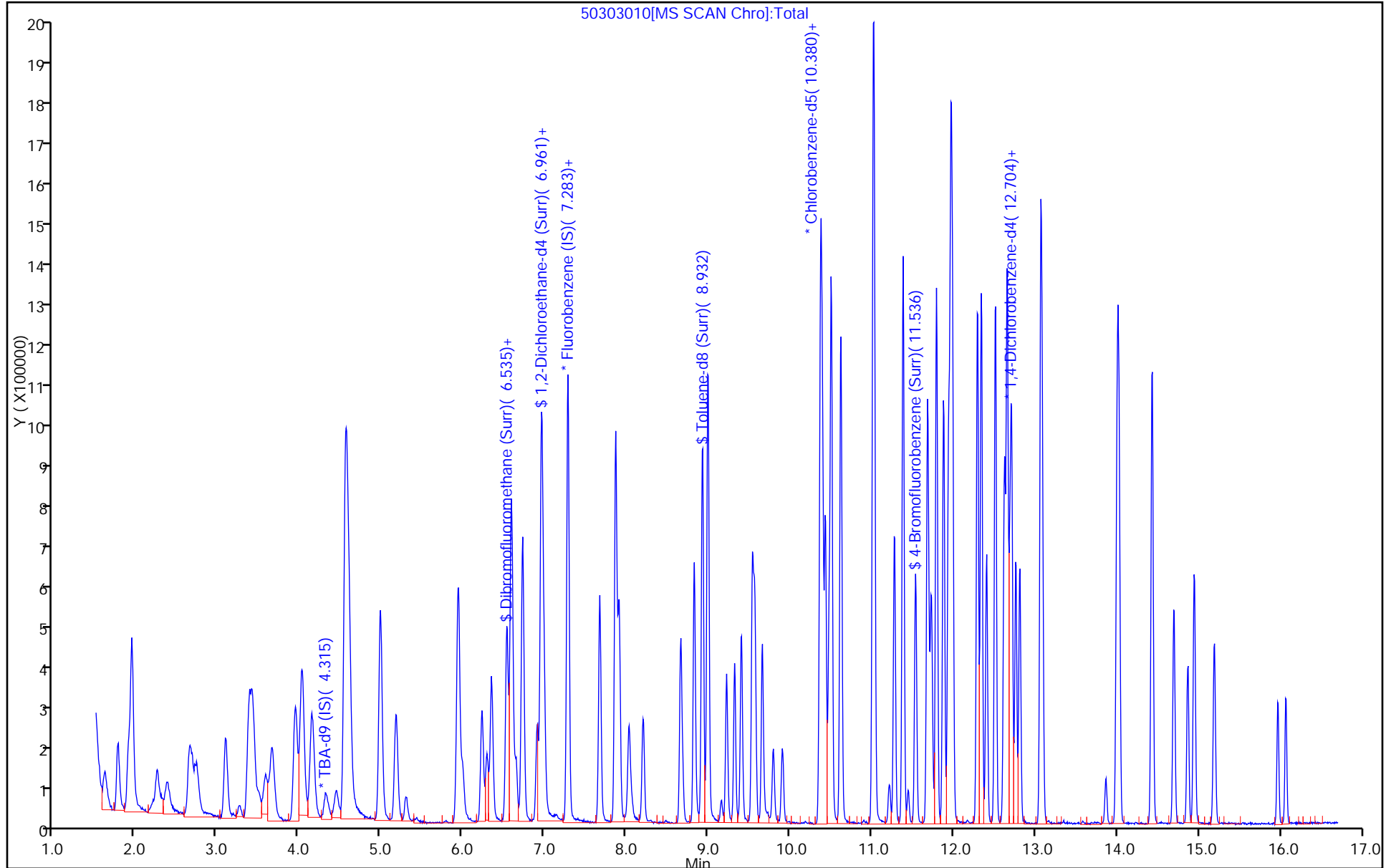
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



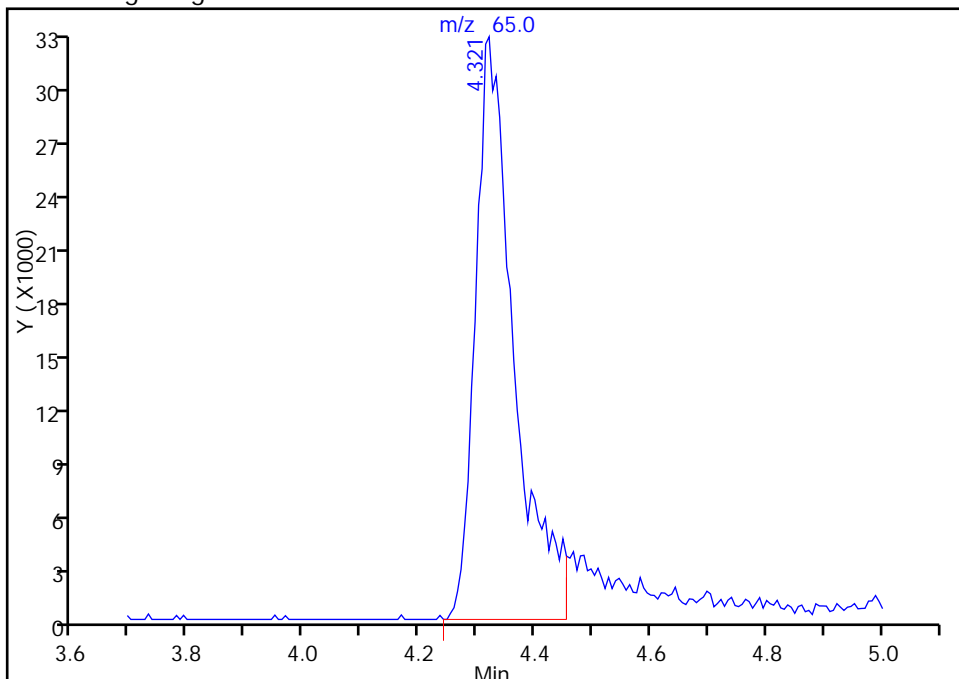
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303010.D
Injection Date: 03-Mar-2015 15:16:30 Instrument ID: CHHP5
Lims ID: IC VSTD15
Client ID:
Operator ID: 001562 ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

* 1 TBA-d9 (IS), CAS: 25725-11-5

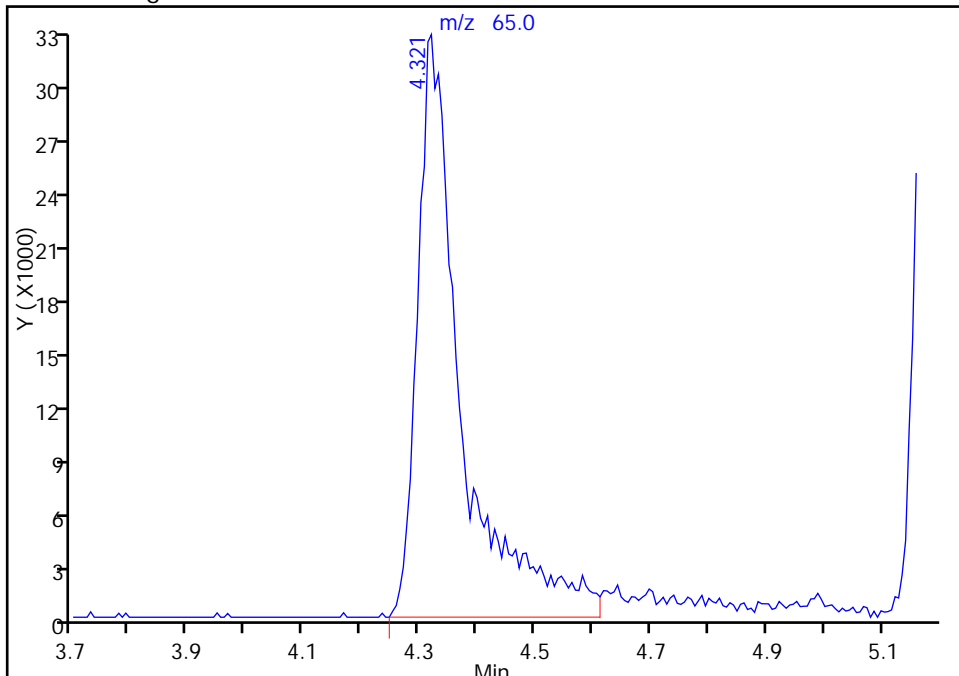
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Area: 152021
Amount: 1000.0000
Amount Units: ng

Processing Integration Results



RT: 4.32
Area: 173343
Amount: 1000.0000
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 04-Mar-2015 09:31:26
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303011.D
 Lims ID: IC VSTD20
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 03-Mar-2015 15:40:30 ALS Bottle#: 9 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD20
 Misc. Info.: 180-0005873-011
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub4
 Method: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 04-Mar-2015 10:13:10 Calib Date: 03-Mar-2015 18:29:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303018.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: fergusond

Date: 04-Mar-2015 09:33:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.321	4.321	0.000	95	178184	1000.0	1000.0	M
* 2 Fluorobenzene (IS)	96	7.277	7.277	0.000	90	463863	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.368	10.368	0.000	97	114659	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.686	12.685	0.001	96	167232	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.535	6.535	0.000	98	199995	100.0	100.7	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.906	6.912	-0.006	99	250369	100.0	102.0	
\$ 7 Toluene-d8 (Surr)	98	8.926	8.932	-0.006	100	910944	100.0	101.9	
\$ 8 4-Bromofluorobenzene (Surr	95	11.536	11.536	0.000	99	327893	100.0	98.6	
11 Dichlorodifluoromethane	85	1.626	1.620	0.006	71	248600	100.0	106.7	
12 Chloromethane	50	1.778	1.778	0.000	94	377346	100.0	101.3	
13 Vinyl chloride	62	1.906	1.912	-0.006	100	370529	100.0	103.5	
14 Butadiene	39	1.948	1.948	0.000	98	418091	100.0	100.7	
15 Bromomethane	94	2.252	2.258	-0.006	70	100603	100.0	97.3	
16 Chloroethane	64	2.386	2.380	0.006	78	141570	100.0	97.2	
17 Dichlorofluoromethane	67	2.654	2.648	0.006	99	320590	100.0	96.0	
18 Trichlorofluoromethane	101	2.703	2.708	-0.005	97	274680	100.0	98.5	
20 Ethyl ether	59	3.092	3.092	0.000	99	266877	100.0	99.2	
21 Acrolein	56	3.262	3.274	-0.012	84	73636	200.0	207.2	
22 1,1-Dichloroethene	96	3.378	3.384	-0.006	99	282447	100.0	104.6	
23 1,1,2-Trichloro-1,2,2-trif	101	3.427	3.420	0.007	98	283308	100.0	103.8	
24 Acetone	43	3.506	3.505	0.001	99	186722	200.0	191.7	
25 Iodomethane	142	3.573	3.585	-0.012	96	391404	100.0	103.0	
26 Carbon disulfide	76	3.658	3.664	-0.006	100	702207	100.0	105.6	
28 3-Chloro-1-propene	76	3.944	3.956	-0.012	91	175910	100.0	104.3	
30 Methyl acetate	43	4.023	4.029	-0.006	100	1360573	500.0	507.8	
31 Methylene Chloride	84	4.144	4.150	-0.006	99	292219	100.0	100.5	
32 2-Methyl-2-propanol	59	4.449	4.454	-0.005	74	219266	1000.0	1026.9	M
33 Acrylonitrile	53	4.558	4.564	-0.006	99	1352445	1000.0	1018.2	
34 trans-1,2-Dichloroethene	96	4.564	4.576	-0.012	56	288749	100.0	102.2	
35 Methyl tert-butyl ether	73	4.607	4.607	0.000	100	717429	100.0	101.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.984	4.990	-0.006	99	515034	100.0	102.7	
37 1,1-Dichloroethane	63	5.173	5.178	-0.005	100	542610	100.0	100.8	
38 Vinyl acetate	43	5.300	5.306	-0.006	95	200290	100.0	108.9	
44 2,2-Dichloropropane	77	5.933	5.933	0.000	65	206033	100.0	103.4	
45 cis-1,2-Dichloroethene	96	5.945	5.945	0.000	92	302735	100.0	100.2	
46 2-Butanone (MEK)	43	5.994	6.000	-0.006	100	323375	200.0	203.7	
49 Chlorobromomethane	128	6.225	6.237	-0.012	79	129587	100.0	103.0	
51 Tetrahydrofuran	42	6.286	6.292	-0.006	98	227621	200.0	201.5	
52 Chloroform	83	6.347	6.346	0.001	98	436474	100.0	101.7	
53 1,1,1-Trichloroethane	97	6.535	6.535	0.000	75	308574	100.0	105.9	
54 Cyclohexane	56	6.590	6.590	0.000	83	671150	100.0	102.6	
56 Carbon tetrachloride	117	6.724	6.724	0.000	68	204809	100.0	103.6	
55 1,1-Dichloropropene	75	6.730	6.730	0.000	96	385796	100.0	103.8	
57 Isobutyl alcohol	41	6.949	6.949	0.000	41	166120	2500.0	2609.2	
58 Benzene	78	6.961	6.967	-0.006	99	1208197	100.0	103.1	
59 1,2-Dichloroethane	62	6.985	6.991	-0.006	93	341780	100.0	101.0	
62 n-Heptane	43	7.284	7.283	0.001	96	463470	100.0	101.7	
64 Trichloroethene	130	7.673	7.673	0.000	98	289114	100.0	104.8	
66 Methylcyclohexane	83	7.868	7.867	0.001	95	553839	100.0	106.2	
67 1,2-Dichloropropane	63	7.910	7.910	0.000	99	309721	100.0	100.7	
68 Dibromomethane	93	8.026	8.025	0.001	98	142348	100.0	102.4	
70 1,4-Dioxane	88	8.062	8.068	-0.006	93	56031	2000.0	2042.7	
71 Dichlorobromomethane	83	8.202	8.202	0.000	99	271870	100.0	105.0	
74 cis-1,3-Dichloropropene	75	8.658	8.664	-0.006	99	360087	100.0	104.9	
75 4-Methyl-2-pentanone (MIBK)	43	8.829	8.828	0.001	72	716953	200.0	207.1	
76 Toluene	91	8.993	8.999	-0.006	98	1214867	100.0	102.7	
77 trans-1,3-Dichloropropene	75	9.224	9.224	0.000	80	260722	100.0	104.5	
78 Ethyl methacrylate	69	9.321	9.321	0.000	93	300128	100.0	107.0	
79 1,1,2-Trichloroethane	97	9.407	9.406	0.001	93	214719	100.0	99.3	
80 Tetrachloroethene	164	9.540	9.540	0.000	98	224037	100.0	102.6	
81 1,3-Dichloropropane	76	9.571	9.571	0.000	94	406834	100.0	100.1	
82 2-Hexanone	43	9.662	9.662	0.000	99	504684	200.0	208.8	
84 Chlorodibromomethane	129	9.796	9.796	0.000	93	148140	100.0	104.2	
85 Ethylene Dibromide	107	9.905	9.905	0.000	98	216491	100.0	104.0	
86 3-Chlorobenzotrifluoride	180	10.374	10.374	0.000	99	362586	100.0	99.9	
87 Chlorobenzene	112	10.392	10.398	-0.006	89	771107	100.0	101.7	
88 4-Chlorobenzotrifluoride	180	10.435	10.428	0.007	97	349632	100.0	100.8	
89 1,1,1,2-Tetrachloroethane	131	10.477	10.477	0.000	96	178500	100.0	102.1	
90 Ethylbenzene	106	10.508	10.508	0.000	100	459104	100.0	104.8	
91 m-Xylene & p-Xylene	106	10.623	10.623	0.000	100	559842	100.0	103.7	
92 o-Xylene	106	11.013	11.019	-0.005	93	532728	100.0	101.7	
93 Styrene	104	11.031	11.031	0.000	96	881546	100.0	102.9	
94 Bromoform	173	11.213	11.213	0.000	90	78926	100.0	105.1	
96 2-Chlorobenzotrifluoride	180	11.280	11.280	0.000	96	362034	100.0	100.6	
97 Isopropylbenzene	105	11.384	11.384	0.000	97	1329527	100.0	103.4	
99 1,1,2,2-Tetrachloroethane	83	11.676	11.682	-0.006	76	310127	100.0	103.5	
100 Bromobenzene	156	11.688	11.688	0.000	95	285408	100.0	97.7	
101 1,2,3-Trichloropropane	110	11.724	11.724	0.000	70	94067	100.0	96.1	
102 trans-1,4-Dichloro-2-buten	53	11.737	11.736	0.001	79	87031	100.0	91.5	
103 N-Propylbenzene	120	11.791	11.791	0.000	98	387657	100.0	99.9	
104 2-Chlorotoluene	126	11.877	11.882	-0.005	99	315400	100.0	98.4	
105 3-Chlorotoluene	126	11.937	11.937	0.000	75	313196	100.0	95.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.968	11.968	0.000	99	1078510	100.0	100.4	
107 4-Chlorotoluene	126	11.986	11.986	0.000	99	352063	100.0	101.8	
108 tert-Butylbenzene	119	12.290	12.296	-0.006	66	930079	100.0	100.3	
110 1,2,4-Trimethylbenzene	105	12.339	12.339	0.000	100	1124585	100.0	101.5	
111 1,2-dichloro-4-(trifluorom	214	12.406	12.406	0.000	98	245627	100.0	98.2	
112 sec-Butylbenzene	105	12.509	12.515	-0.006	92	1341600	100.0	100.6	
113 1,3-Dichlorobenzene	146	12.625	12.625	0.000	88	570988	100.0	98.9	
114 4-Isopropyltoluene	119	12.655	12.655	0.000	99	1092513	100.0	99.9	
115 1,4-Dichlorobenzene	146	12.710	12.710	0.000	97	576692	100.0	99.2	
116 2,4-Dichloro-1-(trifluorom	214	12.765	12.764	0.001	94	238033	100.0	100.1	
118 2,5-Dichlorobenzotrifluori	214	12.813	12.813	0.000	97	254456	100.0	98.1	
120 n-Butylbenzene	91	13.069	13.069	0.000	100	981363	100.0	101.0	
121 1,2-Dichlorobenzene	146	13.087	13.087	0.000	99	527759	100.0	99.9	
122 1,2-Dibromo-3-Chloropropan	75	13.860	13.866	-0.006	94	35031	100.0	100.7	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.012	14.012	0.000	99	1079107	300.0	299.2	
125 2,3- & 3,4- Dichlorotoluen	125	14.426	14.431	-0.005	99	704089	200.0	197.4	
126 1,2,4-Trichlorobenzene	180	14.693	14.693	0.000	98	263899	100.0	99.9	
127 Hexachlorobutadiene	225	14.864	14.869	-0.005	94	111717	100.0	99.0	
128 Naphthalene	128	14.943	14.942	0.001	100	773789	100.0	101.0	
129 1,2,3-Trichlorobenzene	180	15.192	15.192	0.000	98	224922	100.0	99.3	
131 2,4,5-Trichlorotoluene	159	15.971	15.970	0.001	96	109488	100.0	95.6	
130 2,3,6-Trichlorotoluene	159	16.062	16.068	-0.006	97	102526	100.0	97.1	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		200.0	205.4	
S 134 1,2-Dichloroethene, Total	96				0		200.0	202.5	
S 135 1,3-Dichloropropene, Total	1				0		200.0	209.4	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOAACRPRI_00003	Amount Added: 8.00	Units: uL	
voaWKetpri Re_00003	Amount Added: 4.00	Units: uL	
VOAVAPRI_00003	Amount Added: 4.00	Units: uL	
voaWEEpri Res_00003	Amount Added: 4.00	Units: uL	
VOA8260VOAPRI_00102	Amount Added: 4.00	Units: uL	
VOA8260SURRE_00031	Amount Added: 4.00	Units: uL	
VOA8260INT_00029	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303011.D

Injection Date: 03-Mar-2015 15:40:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: IC VSTD20

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

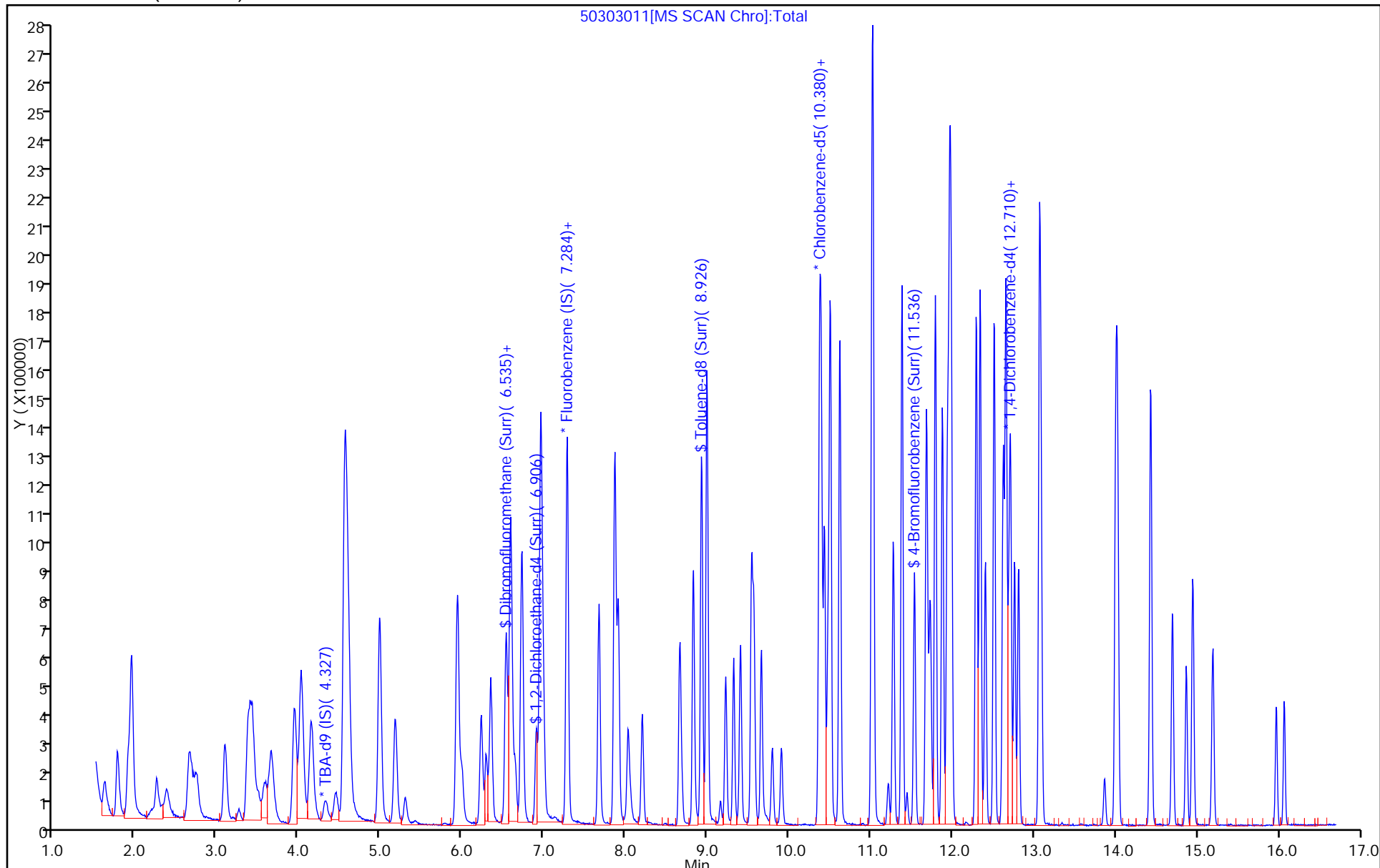
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



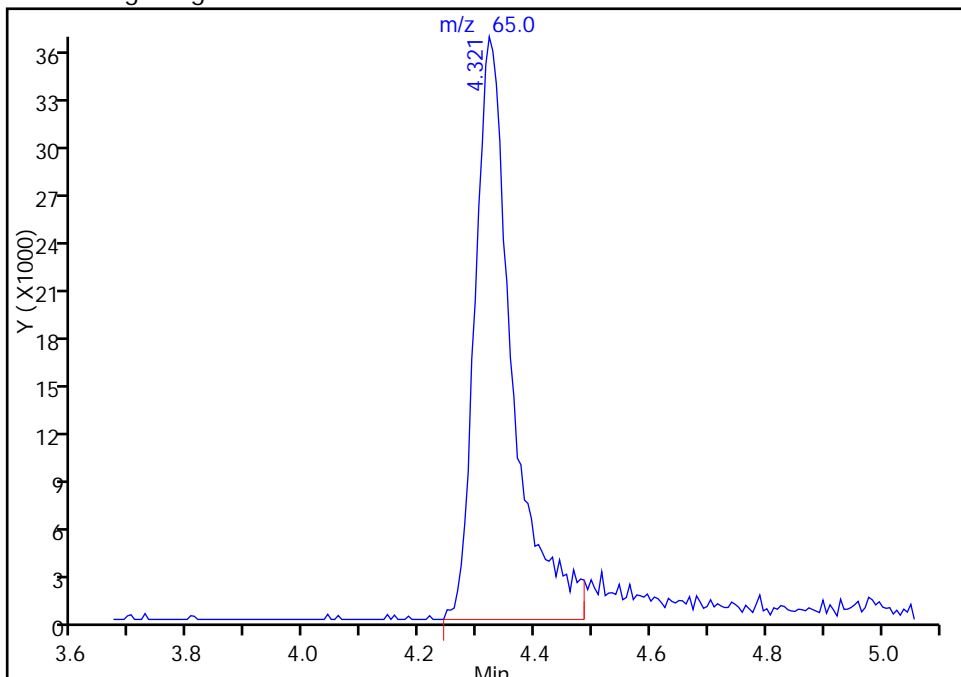
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303011.D
Injection Date: 03-Mar-2015 15:40:30 Instrument ID: CHHP5
Lims ID: IC VSTD20
Client ID:
Operator ID: 001562 ALS Bottle#: 9 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

* 1 TBA-d9 (IS), CAS: 25725-11-5

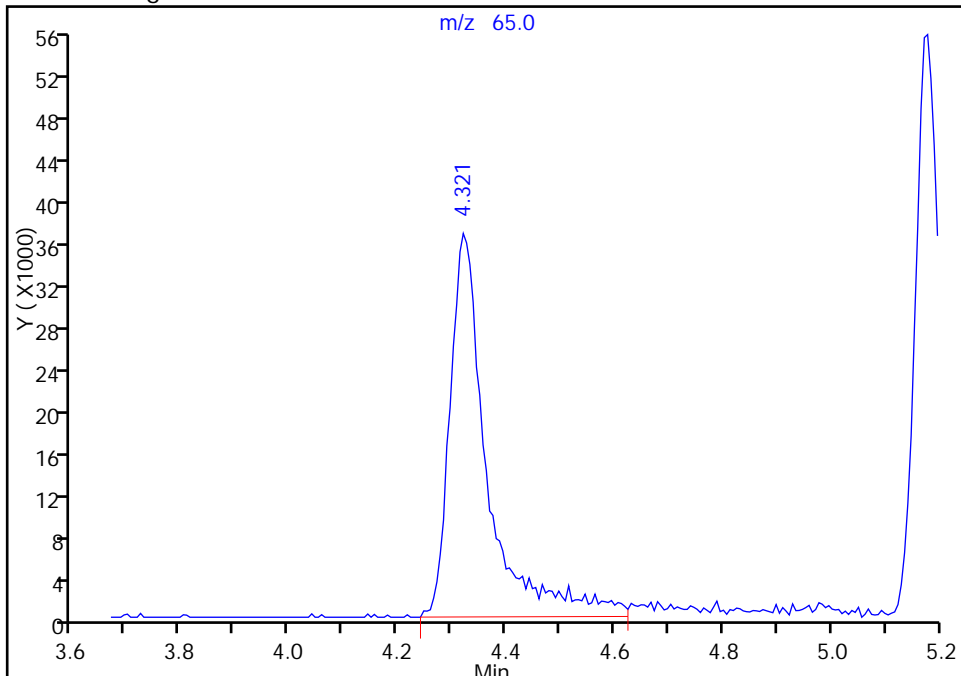
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Area: 165569
Amount: 1000.0000
Amount Units: ng

Processing Integration Results



RT: 4.32
Area: 178184
Amount: 1000.0000
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 04-Mar-2015 09:33:10
Audit Action: Manually Integrated
Audit Reason: Peak Tail

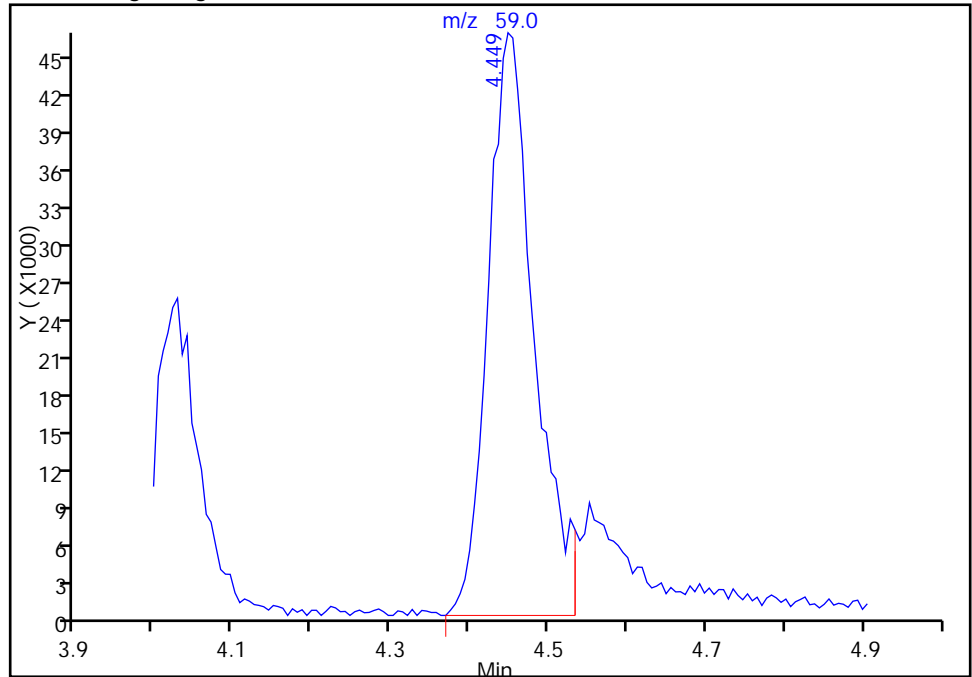
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303011.D
Injection Date: 03-Mar-2015 15:40:30 Instrument ID: CHHP5
Lims ID: IC VSTD20
Client ID:
Operator ID: 001562 ALS Bottle#: 9 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

32 2-Methyl-2-propanol, CAS: 75-65-0

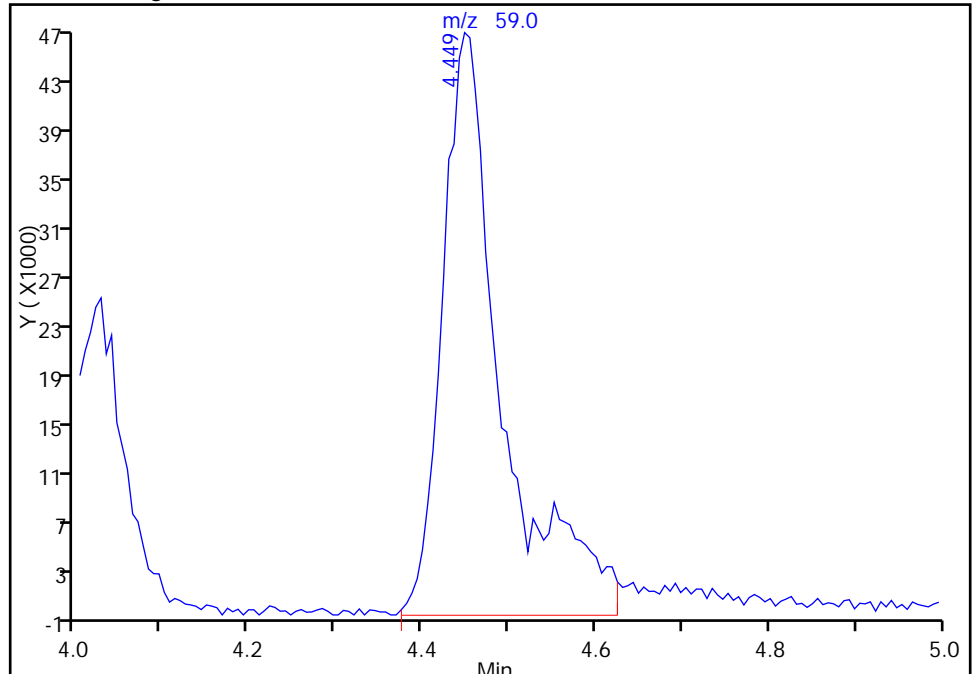
RT: 4.45
Area: 188329
Amount: 911.3747
Amount Units: ng

Processing Integration Results



RT: 4.45
Area: 219266
Amount: 1026.8689
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 04-Mar-2015 09:35:16
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303012.D
 Lims ID: IC VSTD35
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 03-Mar-2015 16:04:30 ALS Bottle#: 10 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD35
 Misc. Info.: 180-0005873-012
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub4
 Method: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 04-Mar-2015 10:13:11 Calib Date: 03-Mar-2015 18:29:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303018.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: fergusond

Date: 04-Mar-2015 09:37:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.323	4.321	0.002	87	196024	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.280	7.277	0.003	72	484263	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.370	10.368	0.002	80	123732	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.688	12.685	0.003	94	171685	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.531	6.535	-0.004	98	361120	175.0	174.2	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.908	6.912	-0.004	99	444667	175.0	173.5	
\$ 7 Toluene-d8 (Surr)	98	8.928	8.932	-0.004	100	1566428	175.0	162.4	
\$ 8 4-Bromofluorobenzene (Surr	95	11.538	11.536	0.002	99	603450	175.0	168.2	
11 Dichlorodifluoromethane	85	1.622	1.620	0.002	98	392329	175.0	161.2	
12 Chloromethane	50	1.780	1.778	0.002	94	626420	175.0	161.1	
13 Vinyl chloride	62	1.908	1.912	-0.004	99	599809	175.0	160.5	
14 Butadiene	39	1.950	1.948	0.002	98	656586	175.0	151.5	
15 Bromomethane	94	2.255	2.258	-0.003	75	163842	175.0	154.6	
16 Chloroethane	64	2.376	2.380	-0.004	83	241114	175.0	158.6	
17 Dichlorofluoromethane	67	2.650	2.648	0.002	99	529735	175.0	152.0	
18 Trichlorofluoromethane	101	2.717	2.708	0.009	98	433936	175.0	149.1	
20 Ethyl ether	59	3.094	3.092	0.002	100	467174	175.0	166.3	
21 Acrolein	56	3.258	3.274	-0.016	81	76799	225.0	207.0	
22 1,1-Dichloroethene	96	3.374	3.384	-0.010	99	466370	175.0	165.4	
23 1,1,2-Trichloro-1,2,2-trif	101	3.429	3.420	0.009	98	466462	175.0	163.7	
24 Acetone	43	3.508	3.505	0.003	98	338711	350.0	333.0	
25 Iodomethane	142	3.581	3.585	-0.004	96	658969	175.0	166.1	
26 Carbon disulfide	76	3.654	3.664	-0.010	100	1168823	175.0	168.4	
28 3-Chloro-1-propene	76	3.946	3.956	-0.010	92	305734	175.0	173.6	
30 Methyl acetate	43	4.025	4.029	-0.004	100	2402270	875.0	858.8	
31 Methylene Chloride	84	4.147	4.150	-0.003	99	516693	175.0	172.9	
32 2-Methyl-2-propanol	59	4.451	4.454	-0.003	90	407341	1750.0	1734.0	M
33 Acrylonitrile	53	4.554	4.564	-0.010	98	2376546	1750.0	1713.8	
34 trans-1,2-Dichloroethene	96	4.566	4.576	-0.010	57	496919	175.0	168.5	
35 Methyl tert-butyl ether	73	4.609	4.607	0.002	100	1269630	175.0	172.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.986	4.990	-0.004	98	854071	175.0	163.2	
37 1,1-Dichloroethane	63	5.175	5.178	-0.003	100	945361	175.0	168.2	
38 Vinyl acetate	43	5.296	5.306	-0.010	98	346138	175.0	180.3	
44 2,2-Dichloropropane	77	5.929	5.933	-0.004	65	354872	175.0	170.6	
45 cis-1,2-Dichloroethene	96	5.941	5.945	-0.004	87	529478	175.0	167.9	
46 2-Butanone (MEK)	43	5.990	6.000	-0.010	100	573542	350.0	346.1	
49 Chlorobromomethane	128	6.227	6.237	-0.010	75	220291	175.0	167.7	
51 Tetrahydrofuran	42	6.288	6.292	-0.004	99	386544	350.0	327.8	
52 Chloroform	83	6.349	6.346	0.003	85	751712	175.0	167.8	
53 1,1,1-Trichloroethane	97	6.531	6.535	-0.004	98	515456	175.0	169.5	
54 Cyclohexane	56	6.592	6.590	0.002	94	1109737	175.0	162.6	
56 Carbon tetrachloride	117	6.720	6.724	-0.004	66	362211	175.0	175.6	
55 1,1-Dichloropropene	75	6.726	6.730	-0.004	96	650285	175.0	167.5	
57 Isobutyl alcohol	41	6.951	6.949	0.002	45	324042	4375.0	4875.2	
58 Benzene	78	6.963	6.967	-0.004	98	2026853	175.0	165.7	
59 1,2-Dichloroethane	62	6.994	6.991	0.003	98	602602	175.0	170.6	
62 n-Heptane	43	7.286	7.283	0.003	89	806729	175.0	169.6	
64 Trichloroethene	130	7.669	7.673	-0.004	99	484743	175.0	168.3	
66 Methylcyclohexane	83	7.864	7.867	-0.003	95	899256	175.0	165.2	
67 1,2-Dichloropropane	63	7.906	7.910	-0.004	95	551216	175.0	171.6	
68 Dibromomethane	93	8.028	8.025	0.003	98	252976	175.0	174.4	
70 1,4-Dioxane	88	8.064	8.068	-0.004	96	107243	3500.0	3745.1	
71 Dichlorobromomethane	83	8.204	8.202	0.002	100	494496	175.0	182.9	
74 cis-1,3-Dichloropropene	75	8.660	8.664	-0.004	100	670035	175.0	187.1	
75 4-Methyl-2-pentanone (MIBK)	43	8.825	8.828	-0.003	98	1293845	350.0	346.3	
76 Toluene	91	8.995	8.999	-0.004	98	2025808	175.0	158.6	
77 trans-1,3-Dichloropropene	75	9.226	9.224	0.002	93	504089	175.0	187.2	
78 Ethyl methacrylate	69	9.324	9.321	0.003	99	559868	175.0	184.9	
79 1,1,2-Trichloroethane	97	9.403	9.406	-0.003	98	384751	175.0	164.9	
80 Tetrachloroethene	164	9.543	9.540	0.003	99	376799	175.0	159.9	
81 1,3-Dichloropropane	76	9.567	9.571	-0.004	98	730064	175.0	166.5	
82 2-Hexanone	43	9.658	9.662	-0.004	99	895448	350.0	343.4	
84 Chlorodibromomethane	129	9.792	9.796	-0.004	96	285792	175.0	186.3	
85 Ethylene Dibromide	107	9.901	9.905	-0.004	99	391652	175.0	174.3	
86 3-Chlorobenzotrifluoride	180	10.376	10.374	0.002	90	648455	175.0	165.5	
87 Chlorobenzene	112	10.394	10.398	-0.004	98	1313352	175.0	160.6	
88 4-Chlorobenzotrifluoride	180	10.431	10.428	0.003	97	620760	175.0	165.8	
89 1,1,1,2-Tetrachloroethane	131	10.479	10.477	0.002	93	343717	175.0	182.2	
90 Ethylbenzene	106	10.504	10.508	-0.004	99	779624	175.0	164.9	
91 m-Xylene & p-Xylene	106	10.625	10.623	0.002	99	963277	175.0	165.4	
92 o-Xylene	106	11.015	11.019	-0.003	90	917689	175.0	162.3	
93 Styrene	104	11.027	11.031	-0.004	91	1511299	175.0	163.5	
94 Bromoform	173	11.216	11.213	0.003	91	158386	175.0	195.4	
96 2-Chlorobenzotrifluoride	180	11.276	11.280	-0.004	91	640624	175.0	165.0	
97 Isopropylbenzene	105	11.380	11.384	-0.004	99	2186986	175.0	157.6	
99 1,1,2,2-Tetrachloroethane	83	11.678	11.682	-0.004	69	554635	175.0	171.5	
100 Bromobenzene	156	11.684	11.688	-0.004	89	509283	175.0	169.8	
101 1,2,3-Trichloropropane	110	11.727	11.724	0.003	69	166640	175.0	165.8	
102 trans-1,4-Dichloro-2-buten	53	11.733	11.736	-0.003	84	171777	175.0	175.9	
103 N-Propylbenzene	120	11.793	11.791	0.002	98	668080	175.0	167.7	
104 2-Chlorotoluene	126	11.879	11.882	-0.003	98	556210	175.0	169.1	
105 3-Chlorotoluene	126	11.939	11.937	0.002	73	574840	175.0	170.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.964	11.968	-0.004	99	1821042	175.0	165.2	
107 4-Chlorotoluene	126	11.988	11.986	0.002	97	590273	175.0	166.2	
108 tert-Butylbenzene	119	12.292	12.296	-0.004	89	1538995	175.0	161.7	
110 1,2,4-Trimethylbenzene	105	12.341	12.339	0.002	98	1864947	175.0	163.9	
111 1,2-dichloro-4-(trifluorom	214	12.408	12.406	0.002	99	433987	175.0	168.9	
112 sec-Butylbenzene	105	12.511	12.515	-0.004	93	2200188	175.0	160.6	
113 1,3-Dichlorobenzene	146	12.621	12.625	-0.004	91	974213	175.0	164.4	
114 4-Isopropyltoluene	119	12.657	12.655	0.002	98	1841892	175.0	164.1	
115 1,4-Dichlorobenzene	146	12.712	12.710	0.002	97	989384	175.0	165.9	
116 2,4-Dichloro-1-(trifluorom	214	12.761	12.764	-0.003	93	406260	175.0	166.4	
118 2,5-Dichlorobenzotrifluori	214	12.809	12.813	-0.004	95	457073	175.0	171.7	
120 n-Butylbenzene	91	13.065	13.069	-0.004	99	1641091	175.0	164.4	
121 1,2-Dichlorobenzene	146	13.083	13.087	-0.004	98	903766	175.0	166.7	
122 1,2-Dibromo-3-Chloropropan	75	13.862	13.866	-0.004	92	69537	175.0	194.7	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.008	14.012	-0.004	99	1903055	525.0	514.0	
125 2,3- & 3,4- Dichlorotoluen	125	14.428	14.431	-0.003	99	1260859	350.0	344.4	
126 1,2,4-Trichlorobenzene	180	14.695	14.693	0.002	98	464683	175.0	171.4	
127 Hexachlorobutadiene	225	14.866	14.869	-0.003	94	186416	175.0	161.0	
128 Naphthalene	128	14.945	14.942	0.003	100	1355121	175.0	172.2	
129 1,2,3-Trichlorobenzene	180	15.188	15.192	-0.004	99	394157	175.0	169.5	
131 2,4,5-Trichlorotoluene	159	15.967	15.970	-0.003	98	200009	175.0	170.0	
130 2,3,6-Trichlorotoluene	159	16.064	16.068	-0.004	97	182005	175.0	167.8	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		350.0	327.7	
S 134 1,2-Dichloroethene, Total	96				0		350.0	336.5	
S 135 1,3-Dichloropropene, Total	1				0		350.0	374.2	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00031	Amount Added: 7.00	Units: uL	
VOA8260VOAPRI_00102	Amount Added: 7.00	Units: uL	
voaWEEpri Res_00003	Amount Added: 7.00	Units: uL	
VOAVAPRI_00003	Amount Added: 7.00	Units: uL	
voaWKetpri Re_00003	Amount Added: 7.00	Units: uL	
VOAACRPRI_00003	Amount Added: 9.00	Units: uL	
VOA8260INT_00029	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303012.D

Injection Date: 03-Mar-2015 16:04:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: IC VSTD35

Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL

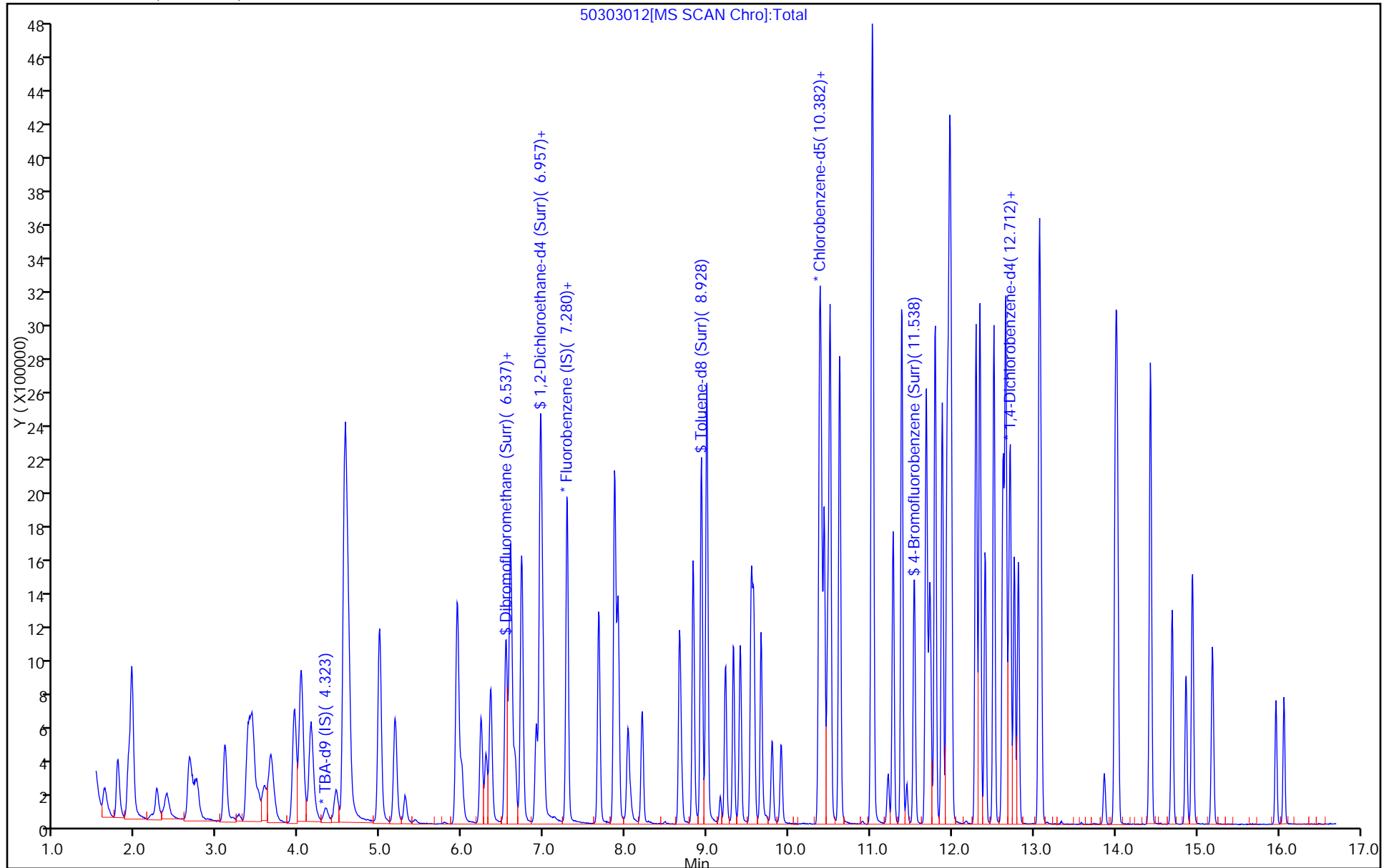
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



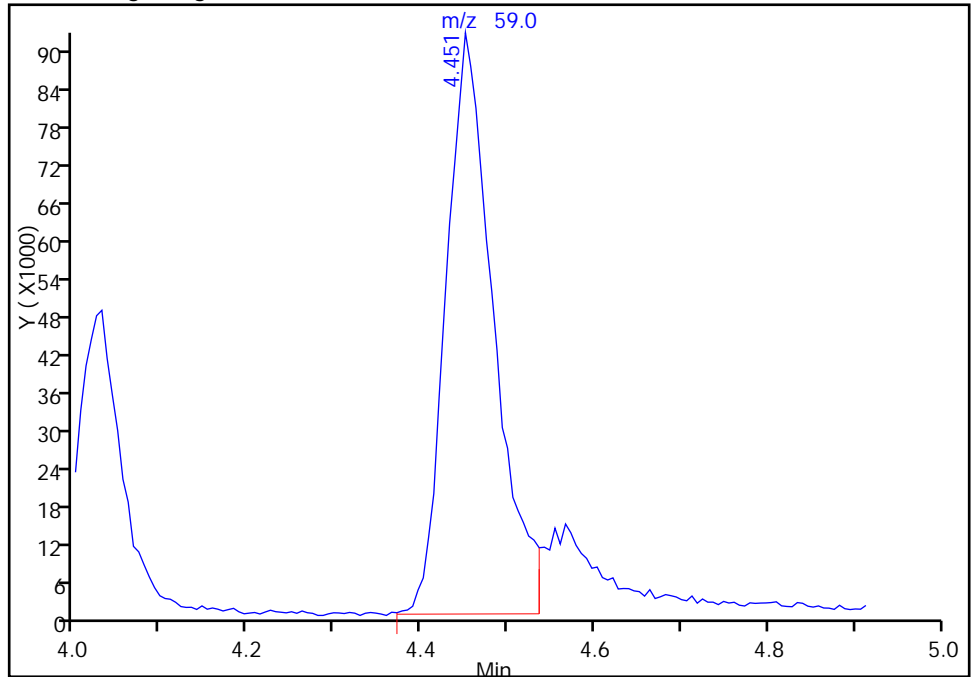
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303012.D
Injection Date: 03-Mar-2015 16:04:30 Instrument ID: CHHP5
Lims ID: IC VSTD35
Client ID:
Operator ID: 001562 ALS Bottle#: 10 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

32 2-Methyl-2-propanol, CAS: 75-65-0

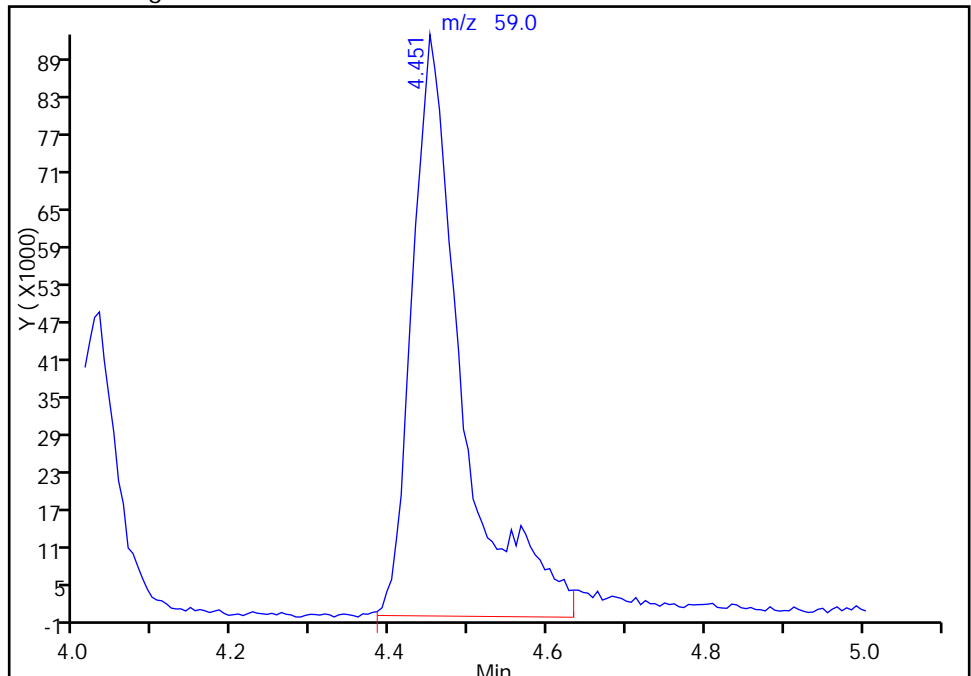
RT: 4.45
Area: 353645
Amount: 1527.0542
Amount Units: ng

Processing Integration Results



RT: 4.45
Area: 407341
Amount: 1734.0487
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 04-Mar-2015 09:37:20
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303013.D
 Lims ID: IC VSTD40
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 03-Mar-2015 16:28:30 ALS Bottle#: 11 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD40
 Misc. Info.: 180-0005873-013
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub4
 Method: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 04-Mar-2015 10:13:13 Calib Date: 03-Mar-2015 18:29:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303018.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: fergusond

Date: 04-Mar-2015 09:39:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.329	4.321	0.007	99	195478	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.273	7.277	-0.004	99	458440	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.369	10.368	0.001	99	117839	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.687	12.685	0.002	94	165585	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.531	6.535	-0.004	99	407623	200.0	207.7	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.902	6.912	-0.010	99	495199	200.0	204.2	
\$ 7 Toluene-d8 (Surr)	98	8.928	8.932	-0.004	100	1773929	200.0	193.1	
\$ 8 4-Bromofluorobenzene (Surr	95	11.537	11.536	0.001	99	675059	200.0	197.5	
11 Dichlorodifluoromethane	85	1.621	1.620	0.001	100	459101	200.0	199.3	
12 Chloromethane	50	1.773	1.778	-0.005	100	749194	200.0	203.5	
13 Vinyl chloride	62	1.907	1.912	-0.005	100	717244	200.0	202.7	
14 Butadiene	39	1.944	1.948	-0.004	99	795057	200.0	193.8	
15 Bromomethane	94	2.254	2.258	-0.004	92	202557	200.0	203.5	
16 Chloroethane	64	2.370	2.380	-0.010	98	300539	200.0	208.8	
17 Dichlorofluoromethane	67	2.649	2.648	0.001	99	702217	200.0	212.8	
18 Trichlorofluoromethane	101	2.698	2.708	-0.010	99	629405	200.0	228.4	
20 Ethyl ether	59	3.094	3.092	0.002	99	524790	200.0	197.4	
21 Acrolein	56	3.264	3.274	-0.010	98	88701	250.0	252.6	
22 1,1-Dichloroethene	96	3.373	3.384	-0.011	99	537938	200.0	201.5	
23 1,1,2-Trichloro-1,2,2-trif	101	3.428	3.420	0.008	100	564199	200.0	209.1	
24 Acetone	43	3.495	3.505	-0.010	100	359769	400.0	373.7	
25 Iodomethane	142	3.574	3.585	-0.011	98	768602	200.0	204.7	
26 Carbon disulfide	76	3.659	3.664	-0.005	100	1429882	200.0	217.6	
28 3-Chloro-1-propene	76	3.939	3.956	-0.017	100	353770	200.0	212.2	
30 Methyl acetate	43	4.024	4.029	-0.005	100	2723193	1000.0	1028.4	
31 Methylene Chloride	84	4.146	4.150	-0.004	99	581573	200.0	206.2	
32 2-Methyl-2-propanol	59	4.450	4.454	-0.004	99	473360	2000.0	2020.7	M
33 Acrylonitrile	53	4.554	4.564	-0.010	100	2649598	2000.0	2018.3	
34 trans-1,2-Dichloroethene	96	4.566	4.576	-0.010	94	564166	200.0	202.1	
35 Methyl tert-butyl ether	73	4.602	4.607	-0.005	100	1454209	200.0	208.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.986	4.990	-0.004	99	987257	200.0	199.3	
37 1,1-Dichloroethane	63	5.174	5.178	-0.004	100	1076133	200.0	202.3	
38 Vinyl acetate	43	5.296	5.306	-0.010	100	412211	200.0	226.8	
44 2,2-Dichloropropane	77	5.935	5.933	0.002	95	436442	200.0	221.6	
45 cis-1,2-Dichloroethene	96	5.941	5.945	-0.004	98	599342	200.0	200.8	
46 2-Butanone (MEK)	43	5.989	6.000	-0.011	100	661664	400.0	421.8	
49 Chlorobromomethane	128	6.233	6.237	-0.004	99	250607	200.0	201.5	
51 Tetrahydrofuran	42	6.287	6.292	-0.005	99	447707	400.0	401.0	
52 Chloroform	83	6.348	6.346	0.002	96	860226	200.0	202.9	
53 1,1,1-Trichloroethane	97	6.537	6.535	0.002	99	607230	200.0	210.9	
54 Cyclohexane	56	6.592	6.590	0.002	98	1313560	200.0	203.2	
56 Carbon tetrachloride	117	6.725	6.724	0.001	94	443952	200.0	227.3	
55 1,1-Dichloropropene	75	6.725	6.730	-0.005	98	755478	200.0	205.6	
57 Isobutyl alcohol	41	6.950	6.949	0.001	98	374911	5000.0	5958.2	
58 Benzene	78	6.957	6.967	-0.010	98	2284771	200.0	197.3	
59 1,2-Dichloroethane	62	6.987	6.991	-0.004	98	678619	200.0	202.9	
62 n-Heptane	43	7.285	7.283	0.002	89	940701	200.0	209.0	
64 Trichloroethene	130	7.668	7.673	-0.005	99	560499	200.0	205.5	
66 Methylcyclohexane	83	7.869	7.867	0.002	99	1051065	200.0	204.0	
67 1,2-Dichloropropane	63	7.906	7.910	-0.004	97	626785	200.0	206.1	
68 Dibromomethane	93	8.027	8.025	0.002	99	285467	200.0	207.9	
70 1,4-Dioxane	88	8.064	8.068	-0.004	96	108953	4000.0	4019.1	
71 Dichlorobromomethane	83	8.204	8.202	0.002	100	559625	200.0	218.6	
74 cis-1,3-Dichloropropene	75	8.660	8.664	-0.004	100	764955	200.0	225.6	
75 4-Methyl-2-pentanone (MIBK)	43	8.824	8.828	-0.004	99	1424348	400.0	400.3	
76 Toluene	91	8.995	8.999	-0.004	99	2291440	200.0	188.4	
77 trans-1,3-Dichloropropene	75	9.220	9.224	-0.004	99	577469	200.0	225.2	
78 Ethyl methacrylate	69	9.317	9.321	-0.004	100	642835	200.0	222.9	
79 1,1,2-Trichloroethane	97	9.402	9.406	-0.004	99	430453	200.0	193.7	
80 Tetrachloroethene	164	9.536	9.540	-0.004	99	437446	200.0	194.9	
81 1,3-Dichloropropane	76	9.566	9.571	-0.005	100	810109	200.0	194.0	
82 2-Hexanone	43	9.658	9.662	-0.004	100	1007219	400.0	405.5	
84 Chlorodibromomethane	129	9.791	9.796	-0.005	99	335537	200.0	229.6	
85 Ethylene Dibromide	107	9.907	9.905	0.002	100	430697	200.0	201.3	
86 3-Chlorobenzotrifluoride	180	10.375	10.374	0.001	92	710605	200.0	190.5	
87 Chlorobenzene	112	10.394	10.398	-0.004	99	1486822	200.0	190.9	
88 4-Chlorobenzotrifluoride	180	10.430	10.428	0.002	99	673239	200.0	188.8	
89 1,1,1,2-Tetrachloroethane	131	10.479	10.477	0.002	94	404254	200.0	225.0	
90 Ethylbenzene	106	10.503	10.508	-0.005	99	878562	200.0	195.1	
91 m-Xylene & p-Xylene	106	10.619	10.623	-0.004	99	1087938	200.0	196.1	
92 o-Xylene	106	11.014	11.019	-0.004	95	1044535	200.0	194.0	
93 Styrene	104	11.026	11.031	-0.005	100	1702135	200.0	193.4	
94 Bromoform	173	11.215	11.213	0.002	99	189179	200.0	245.1	
96 2-Chlorobenzotrifluoride	180	11.276	11.280	-0.004	99	709528	200.0	191.8	
97 Isopropylbenzene	105	11.385	11.384	0.001	99	2509471	200.0	189.9	
99 1,1,2,2-Tetrachloroethane	83	11.677	11.682	-0.005	99	635984	200.0	206.5	
100 Bromobenzene	156	11.690	11.688	0.002	99	564181	200.0	195.0	
101 1,2,3-Trichloropropane	110	11.726	11.724	0.002	96	186872	200.0	192.8	
102 trans-1,4-Dichloro-2-buten	53	11.738	11.736	0.002	91	209408	200.0	222.4	
103 N-Propylbenzene	120	11.793	11.791	0.002	99	772940	200.0	201.1	
104 2-Chlorotoluene	126	11.878	11.882	-0.004	99	627560	200.0	197.8	
105 3-Chlorotoluene	126	11.939	11.937	0.002	99	635360	200.0	195.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.969	11.968	0.001	99	2069067	200.0	194.6	
107 4-Chlorotoluene	126	11.988	11.986	0.002	98	686264	200.0	200.4	
108 tert-Butylbenzene	119	12.292	12.296	-0.004	98	1773732	200.0	193.3	
110 1,2,4-Trimethylbenzene	105	12.340	12.339	0.001	98	2134132	200.0	194.5	
111 1,2-dichloro-4-(trifluorom	214	12.407	12.406	0.001	99	495775	200.0	200.1	
112 sec-Butylbenzene	105	12.511	12.515	-0.004	99	2515133	200.0	190.4	
113 1,3-Dichlorobenzene	146	12.620	12.625	-0.005	98	1106407	200.0	193.6	
114 4-Isopropyltoluene	119	12.657	12.655	0.002	98	2126114	200.0	196.4	
115 1,4-Dichlorobenzene	146	12.712	12.710	0.002	96	1119886	200.0	194.6	
116 2,4-Dichloro-1-(trifluorom	214	12.760	12.764	-0.004	95	459072	200.0	194.9	
118 2,5-Dichlorobenzotrifluori	214	12.815	12.813	0.002	98	520914	200.0	202.9	
120 n-Butylbenzene	91	13.064	13.069	-0.005	99	1909418	200.0	198.4	
121 1,2-Dichlorobenzene	146	13.083	13.087	-0.004	99	1024132	200.0	195.9	
122 1,2-Dibromo-3-Chloropropan	75	13.861	13.866	-0.005	89	86409	200.0	250.8	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.007	14.012	-0.005	99	2106510	600.0	589.9	
125 2,3- & 3,4- Dichlorotoluen	125	14.427	14.431	-0.004	99	1383564	400.0	391.9	
126 1,2,4-Trichlorobenzene	180	14.695	14.693	0.002	99	524775	200.0	200.7	
127 Hexachlorobutadiene	225	14.865	14.869	-0.004	98	227215	200.0	203.4	
128 Naphthalene	128	14.944	14.942	0.002	100	1499909	200.0	197.7	
129 1,2,3-Trichlorobenzene	180	15.194	15.192	0.002	99	445662	200.0	198.7	
131 2,4,5-Trichlorotoluene	159	15.966	15.970	-0.004	98	227883	200.0	200.9	
130 2,3,6-Trichlorotoluene	159	16.064	16.068	-0.004	97	202347	200.0	193.5	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		400.0	390.1	
S 134 1,2-Dichloroethene, Total	96				0		400.0	402.9	
S 135 1,3-Dichloropropene, Total	1				0		400.0	450.7	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOAACRPRI_00003	Amount Added: 10.00	Units: uL	
voaWKetpri Re_00003	Amount Added: 8.00	Units: uL	
VOAVAPRI_00003	Amount Added: 8.00	Units: uL	
voaWEEpri Res_00003	Amount Added: 8.00	Units: uL	
VOA8260VOAPRI_00102	Amount Added: 8.00	Units: uL	
VOA8260SURRE_00031	Amount Added: 8.00	Units: uL	
VOA8260INT_00029	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303013.D

Injection Date: 03-Mar-2015 16:28:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: IC VSTD40

Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL

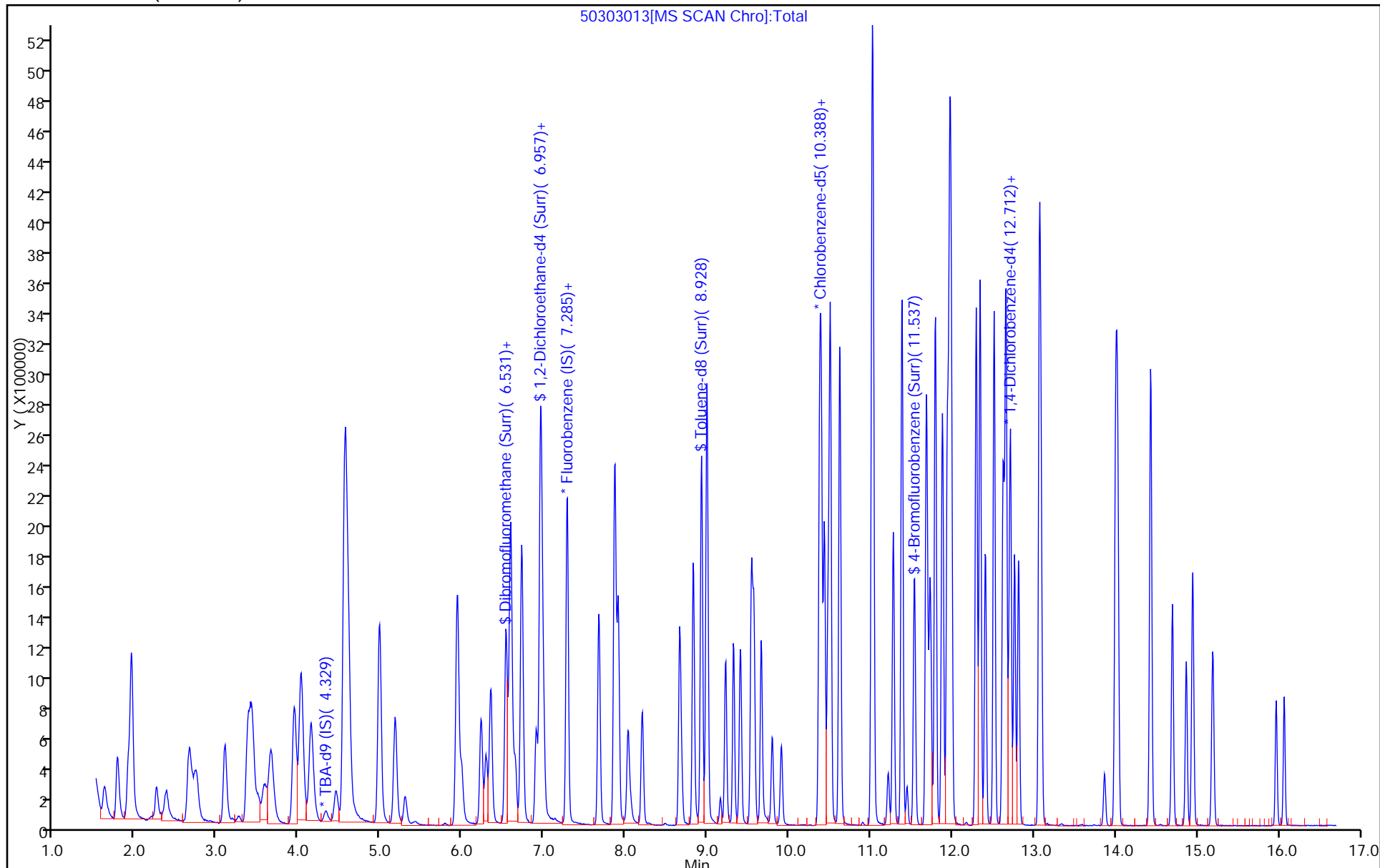
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



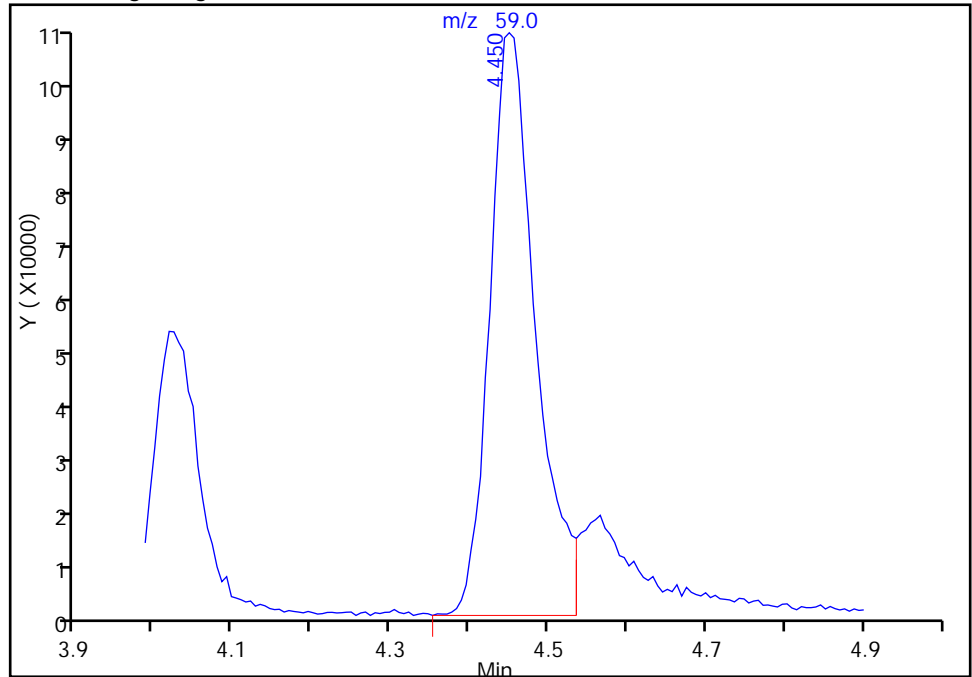
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303013.D
Injection Date: 03-Mar-2015 16:28:30 Instrument ID: CHHP5
Lims ID: IC VSTD40
Client ID:
Operator ID: 001562 ALS Bottle#: 11 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

32 2-Methyl-2-propanol, CAS: 75-65-0

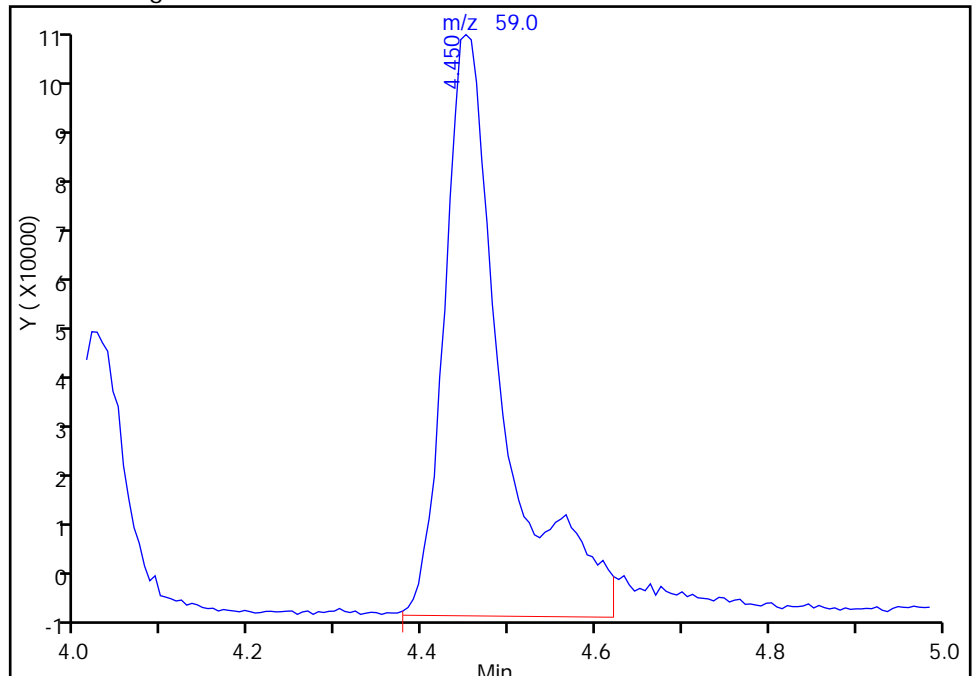
RT: 4.45
Area: 405922
Amount: 1729.0486
Amount Units: ng

Processing Integration Results



RT: 4.45
Area: 473360
Amount: 2020.7198
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 04-Mar-2015 09:39:19
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303014.D
 Lims ID: IC VSTD50
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 03-Mar-2015 16:52:30 ALS Bottle#: 12 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD50
 Misc. Info.: 180-0005873-014
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub4
 Method: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 04-Mar-2015 10:13:14 Calib Date: 03-Mar-2015 18:29:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303018.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: fergusond

Date: 04-Mar-2015 09:40:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.327	4.321	0.006	97	182249	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.278	7.277	0.001	99	440848	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.368	10.368	0.000	97	121332	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.686	12.685	0.001	91	163855	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.535	6.535	0.000	98	454279	250.0	240.7	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.906	6.912	-0.006	100	585333	250.0	250.9	
\$ 7 Toluene-d8 (Surr)	98	8.926	8.932	-0.006	99	1882951	250.0	199.1	
\$ 8 4-Bromofluorobenzene (Surr	95	11.536	11.536	0.000	99	778464	250.0	221.2	
11 Dichlorodifluoromethane	85	1.620	1.620	0.000	100	555245	250.0	250.7	
12 Chloromethane	50	1.778	1.778	0.000	100	892689	250.0	252.1	
13 Vinyl chloride	62	1.912	1.912	0.000	100	866068	250.0	254.5	
14 Butadiene	39	1.948	1.948	0.000	99	961606	250.0	243.7	
15 Bromomethane	94	2.253	2.258	-0.005	92	219710	250.0	230.1	
16 Chloroethane	64	2.374	2.380	-0.006	98	309302	250.0	223.5	
17 Dichlorofluoromethane	67	2.648	2.648	0.000	100	722968	250.0	227.9	
18 Trichlorofluoromethane	101	2.697	2.708	-0.011	99	625870	250.0	236.2	
20 Ethyl ether	59	3.092	3.092	0.000	100	666037	250.0	260.5	
21 Acrolein	56	3.262	3.274	-0.012	99	95898	275.0	284.0	
22 1,1-Dichloroethene	96	3.372	3.384	-0.012	99	655372	250.0	255.3	
23 1,1,2-Trichloro-1,2,2-trif	101	3.427	3.420	0.007	97	659263	250.0	254.1	
24 Acetone	43	3.500	3.505	-0.005	100	482030	500.0	520.6	
25 Iodomethane	142	3.573	3.585	-0.012	98	937612	250.0	259.7	
26 Carbon disulfide	76	3.658	3.664	-0.006	100	1738988	250.0	275.2	
28 3-Chloro-1-propene	76	3.944	3.956	-0.012	100	449430	250.0	280.3	
30 Methyl acetate	43	4.023	4.029	-0.006	100	3392163	1250.0	1332.2	
31 Methylene Chloride	84	4.145	4.150	-0.005	100	726477	250.0	269.0	
32 2-Methyl-2-propanol	59	4.461	4.454	0.007	99	611565	2500.0	2800.2	
33 Acrylonitrile	53	4.558	4.564	-0.006	99	3337128	2500.0	2643.5	
34 trans-1,2-Dichloroethene	96	4.570	4.576	-0.006	93	714392	250.0	266.2	
35 Methyl tert-butyl ether	73	4.601	4.607	-0.006	100	1811989	250.0	270.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.984	4.990	-0.006	100	1203451	250.0	252.6	
37 1,1-Dichloroethane	63	5.179	5.178	0.001	100	1328543	250.0	259.7	
38 Vinyl acetate	43	5.300	5.306	-0.006	100	523307	250.0	299.4	
44 2,2-Dichloropropane	77	5.927	5.933	-0.006	97	530241	250.0	280.0	
45 cis-1,2-Dichloroethene	96	5.939	5.945	-0.006	98	743970	250.0	259.2	
46 2-Butanone (MEK)	43	5.988	6.000	-0.012	100	803658	500.0	532.7	
49 Chlorobromomethane	128	6.231	6.237	-0.006	98	320382	250.0	267.9	
51 Tetrahydrofuran	42	6.286	6.292	-0.006	99	565784	500.0	527.0	
52 Chloroform	83	6.347	6.346	0.001	96	1072109	250.0	263.0	
53 1,1,1-Trichloroethane	97	6.535	6.535	0.000	98	735465	250.0	265.6	
54 Cyclohexane	56	6.590	6.590	0.000	97	1567791	250.0	252.3	
56 Carbon tetrachloride	117	6.724	6.724	0.000	96	541326	250.0	288.2	
55 1,1-Dichloropropene	75	6.724	6.730	-0.006	98	919340	250.0	260.2	
57 Isobutyl alcohol	41	6.955	6.949	0.006	98	519953	6250.0	8593.0	
58 Benzene	78	6.961	6.967	-0.006	98	2816860	250.0	253.0	
59 1,2-Dichloroethane	62	6.986	6.991	-0.005	99	882169	250.0	274.3	
62 n-Heptane	43	7.284	7.283	0.001	87	1135342	250.0	262.3	
64 Trichloroethene	130	7.673	7.673	0.000	99	695890	250.0	265.3	
66 Methylcyclohexane	83	7.868	7.867	0.001	99	1271791	250.0	256.7	
67 1,2-Dichloropropane	63	7.904	7.910	-0.006	97	779651	250.0	266.6	
68 Dibromomethane	93	8.026	8.025	0.001	99	367478	250.0	278.3	
70 1,4-Dioxane	88	8.062	8.068	-0.006	96	148650	5000.0	5702.3	
71 Dichlorobromomethane	83	8.202	8.202	0.000	100	722661	250.0	293.5	
74 cis-1,3-Dichloropropene	75	8.659	8.664	-0.005	99	973151	250.0	298.4	
75 4-Methyl-2-pentanone (MIBK)	43	8.829	8.828	0.001	99	1780762	500.0	486.1	
76 Toluene	91	8.993	8.999	-0.006	99	2786685	250.0	222.5	
77 trans-1,3-Dichloropropene	75	9.224	9.224	0.000	100	770673	250.0	291.8	
78 Ethyl methacrylate	69	9.322	9.321	0.001	100	840399	250.0	283.1	
79 1,1,2-Trichloroethane	97	9.407	9.406	0.001	99	552961	250.0	241.7	
80 Tetrachloroethene	164	9.541	9.540	0.001	99	530396	250.0	229.5	
81 1,3-Dichloropropane	76	9.571	9.571	0.000	99	1025068	250.0	238.4	
82 2-Hexanone	43	9.656	9.662	-0.006	100	1267784	500.0	495.7	
84 Chlorodibromomethane	129	9.796	9.796	0.000	99	437822	250.0	291.0	
85 Ethylene Dibromide	107	9.906	9.905	0.001	100	560401	250.0	254.4	
86 3-Chlorobenzotrifluoride	180	10.374	10.374	0.000	92	811123	250.0	211.2	
87 Chlorobenzene	112	10.392	10.398	-0.006	98	1821377	250.0	227.1	
88 4-Chlorobenzotrifluoride	180	10.435	10.428	0.007	98	788386	250.0	214.7	
89 1,1,1,2-Tetrachloroethane	131	10.477	10.477	0.000	94	518562	250.0	280.4	
90 Ethylbenzene	106	10.502	10.508	-0.006	98	1084192	250.0	233.8	
91 m-Xylene & p-Xylene	106	10.623	10.623	0.000	98	1343425	250.0	235.2	
92 o-Xylene	106	11.013	11.019	-0.005	96	1282744	250.0	231.4	
93 Styrene	104	11.031	11.031	0.000	96	2101328	250.0	231.9	
94 Bromoform	173	11.214	11.213	0.001	98	253039	250.0	318.4	
96 2-Chlorobenzotrifluoride	180	11.274	11.280	-0.006	99	818132	250.0	214.8	
97 Isopropylbenzene	105	11.384	11.384	0.000	98	2939157	250.0	216.0	
99 1,1,2,2-Tetrachloroethane	83	11.676	11.682	-0.006	98	794942	250.0	250.7	
100 Bromobenzene	156	11.688	11.688	0.000	99	712137	250.0	248.8	
101 1,2,3-Trichloropropane	110	11.725	11.724	0.001	97	239368	250.0	249.6	
102 trans-1,4-Dichloro-2-buten	53	11.737	11.736	0.001	92	267698	250.0	287.3	
103 N-Propylbenzene	120	11.792	11.791	0.001	98	938881	250.0	246.9	
104 2-Chlorotoluene	126	11.877	11.882	-0.005	98	766804	250.0	244.2	
105 3-Chlorotoluene	126	11.938	11.937	0.001	99	747748	250.0	233.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.968	11.968	0.000	98	2483271	250.0	236.0	
107 4-Chlorotoluene	126	11.986	11.986	0.000	98	846300	250.0	249.7	
108 tert-Butylbenzene	119	12.290	12.296	-0.006	98	2162487	250.0	238.1	
110 1,2,4-Trimethylbenzene	105	12.339	12.339	0.000	98	2596483	250.0	239.1	
111 1,2-dichloro-4-(trifluorom	214	12.406	12.406	0.000	99	570450	250.0	232.7	
112 sec-Butylbenzene	105	12.509	12.515	-0.006	98	2981190	250.0	228.0	
113 1,3-Dichlorobenzene	146	12.619	12.625	-0.006	97	1371526	250.0	242.5	
114 4-Isopropyltoluene	119	12.655	12.655	0.000	98	2531591	250.0	236.3	
115 1,4-Dichlorobenzene	146	12.710	12.710	0.000	97	1402521	250.0	246.3	
116 2,4-Dichloro-1-(trifluorom	214	12.765	12.764	0.001	95	528265	250.0	226.7	
118 2,5-Dichlorobenzotrifluori	214	12.814	12.813	0.001	98	607921	250.0	239.3	
120 n-Butylbenzene	91	13.063	13.069	-0.006	98	2301855	250.0	241.7	
121 1,2-Dichlorobenzene	146	13.087	13.087	0.000	98	1268840	250.0	245.2	
122 1,2-Dibromo-3-Chloropropan	75	13.866	13.866	0.000	88	110818	250.0	325.1	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.006	14.012	-0.006	99	2522600	750.0	713.9	
125 2,3- & 3,4- Dichlorotoluen	125	14.432	14.431	0.001	99	1703909	500.0	487.7	
126 1,2,4-Trichlorobenzene	180	14.693	14.693	0.000	98	654550	250.0	252.9	
127 Hexachlorobutadiene	225	14.864	14.869	-0.005	98	277147	250.0	250.8	
128 Naphthalene	128	14.943	14.942	0.001	99	1887643	250.0	251.4	
129 1,2,3-Trichlorobenzene	180	15.186	15.192	-0.006	100	568326	250.0	256.1	
131 2,4,5-Trichlorotoluene	159	15.965	15.970	-0.005	98	286878	250.0	255.6	
130 2,3,6-Trichlorotoluene	159	16.062	16.068	-0.006	98	260759	250.0	251.9	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		500.0	466.6	
S 134 1,2-Dichloroethene, Total	96				0		500.0	525.4	
S 135 1,3-Dichloropropene, Total	1				0		500.0	590.3	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOA8260SURR_00031	Amount Added: 10.00	Units: uL	
VOA8260VOAPRI_00102	Amount Added: 10.00	Units: uL	
voaWEEpri Res_00003	Amount Added: 10.00	Units: uL	
VOAVAPRI_00003	Amount Added: 10.00	Units: uL	
voaWKetpri Re_00003	Amount Added: 10.00	Units: uL	
VOAACRPRI_00003	Amount Added: 11.00	Units: uL	
VOA8260INT_00029	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303014.D

Injection Date: 03-Mar-2015 16:52:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: IC VSTD50

Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL

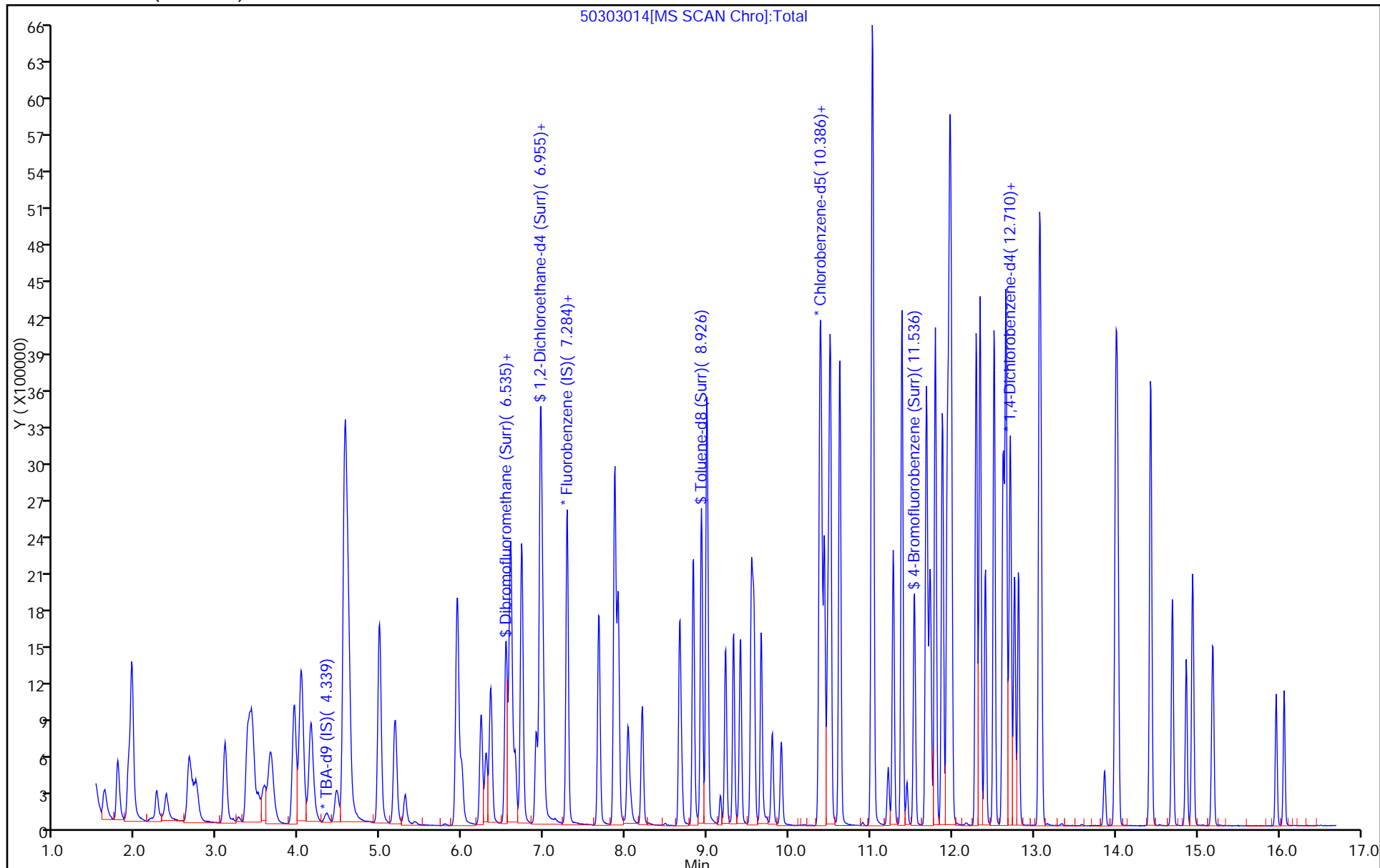
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303018.D
 Lims ID: IC VSTD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 03-Mar-2015 18:29:30 ALS Bottle#: 16 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD1
 Misc. Info.: 180-0005873-018
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub4
 Method: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 04-Mar-2015 10:13:25 Calib Date: 03-Mar-2015 18:29:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303018.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: fergusond

Date: 04-Mar-2015 09:08:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.327	4.321	0.006	97	158942	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.278	7.277	0.001	99	436397	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.362	10.368	-0.006	99	97555	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.686	12.685	0.001	98	138266	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.536	6.535	0.001	97	9351	5.00	5.00	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.901	6.912	-0.011	98	12383	5.00	5.36	
\$ 7 Toluene-d8 (Surr)	98	8.926	8.932	-0.006	99	44042	5.00	5.79	
\$ 8 4-Bromofluorobenzene (Surr	95	11.536	11.536	0.000	98	16688	5.00	5.90	
11 Dichlorodifluoromethane	85	1.620	1.620	0.000	1	11738	5.00	5.35	
12 Chloromethane	50	1.778	1.778	0.000	99	20422	5.00	5.83	
13 Vinyl chloride	62	1.906	1.912	-0.006	98	18364	5.00	5.45	
14 Butadiene	39	1.949	1.948	0.001	99	25646	5.00	6.57	
15 Bromomethane	94	2.253	2.258	-0.005	49	9174	5.00	4.90	
16 Chloroethane	64	2.393	2.380	0.013	46	8910	5.00	6.50	
17 Dichlorofluoromethane	67	2.654	2.648	0.006	97	18545	5.00	5.90	
18 Trichlorofluoromethane	101	2.703	2.708	-0.005	78	14651	5.00	5.59	
20 Ethyl ether	59	3.098	3.092	0.006	92	15110	5.00	5.97	
21 Acrolein	56	3.263	3.274	-0.011	95	33215	100.0	99.4	
22 1,1-Dichloroethene	96	3.390	3.384	0.006	99	14445	5.00	5.69	
23 1,1,2-Trichloro-1,2,2-trif	101	3.427	3.420	0.007	95	13613	5.00	5.30	
24 Acetone	43	3.518	3.505	0.013	85	27756	25.0	30.3	M
25 Iodomethane	142	3.591	3.585	0.006	94	20517	5.00	5.74	
26 Carbon disulfide	76	3.658	3.664	-0.006	96	31759	5.00	5.08	
28 3-Chloro-1-propene	76	3.944	3.956	-0.012	96	7709	5.00	4.86	
30 Methyl acetate	43	4.029	4.029	0.000	99	68405	25.0	27.1	
31 Methylene Chloride	84	4.145	4.150	-0.005	97	23143	5.00	5.07	
32 2-Methyl-2-propanol	59	4.449	4.454	-0.005	57	8526	50.0	44.8	
33 Acrylonitrile	53	4.564	4.564	0.000	98	66409	50.0	53.1	
34 trans-1,2-Dichloroethene	96	4.571	4.576	-0.005	51	14331	5.00	5.39	
35 Methyl tert-butyl ether	73	4.607	4.607	0.000	99	35247	5.00	5.31	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.984	4.990	-0.006	94	27239	5.00	5.78	
37 1,1-Dichloroethane	63	5.179	5.178	0.001	98	28747	5.00	5.68	
38 Vinyl acetate	43	5.307	5.306	0.001	58	6783	5.00	3.92	
44 2,2-Dichloropropane	77	5.939	5.933	0.006	64	9115	5.00	4.86	
45 cis-1,2-Dichloroethene	96	5.952	5.945	0.007	96	16372	5.00	5.76	
46 2-Butanone (MEK)	43	6.000	6.000	0.000	99	39378	25.0	26.4	
49 Chlorobromomethane	128	6.237	6.237	0.000	91	6992	5.00	5.91	
51 Tetrahydrofuran	42	6.298	6.292	0.006	94	12789	10.0	12.0	
52 Chloroform	83	6.341	6.346	-0.005	96	23149	5.00	5.74	
53 1,1,1-Trichloroethane	97	6.536	6.535	0.001	97	14873	5.00	5.43	
54 Cyclohexane	56	6.590	6.590	0.000	94	32962	5.00	5.36	M
56 Carbon tetrachloride	117	6.724	6.724	0.000	67	9550	5.00	5.14	
55 1,1-Dichloropropene	75	6.736	6.730	0.006	97	18284	5.00	5.23	
57 Isobutyl alcohol	41	6.955	6.949	0.006	34	6766	125.0	113.0	
58 Benzene	78	6.955	6.967	-0.012	98	62303	5.00	5.65	
59 1,2-Dichloroethane	62	6.998	6.991	0.007	97	17175	5.00	5.39	
62 n-Heptane	43	7.278	7.283	-0.005	57	23686	5.00	5.53	
64 Trichloroethene	130	7.679	7.673	0.006	96	12976	5.00	5.00	
66 Methylcyclohexane	83	7.862	7.867	-0.005	98	25976	5.00	5.30	
67 1,2-Dichloropropane	63	7.910	7.910	0.000	93	15999	5.00	5.53	
68 Dibromomethane	93	8.026	8.025	0.001	97	6736	5.00	5.15	
70 1,4-Dioxane	88	8.081	8.068	0.013	40	2785	100.0	107.9	
71 Dichlorobromomethane	83	8.202	8.202	0.000	98	10980	5.00	4.51	
74 cis-1,3-Dichloropropene	75	8.659	8.664	-0.005	97	13441	5.00	4.16	
75 4-Methyl-2-pentanone (MIBK)	43	8.829	8.828	0.001	99	75647	25.0	25.7	
76 Toluene	91	8.993	8.999	-0.006	99	60820	5.00	6.04	
77 trans-1,3-Dichloropropene	75	9.224	9.224	0.000	94	9160	5.00	4.31	
78 Ethyl methacrylate	69	9.328	9.321	0.007	95	11161	5.00	4.68	
79 1,1,2-Trichloroethane	97	9.407	9.406	0.001	93	10673	5.00	5.80	
80 Tetrachloroethene	164	9.541	9.540	0.001	96	10884	5.00	5.86	
81 1,3-Dichloropropane	76	9.571	9.571	0.000	96	19318	5.00	5.59	
82 2-Hexanone	43	9.669	9.662	0.006	99	51105	25.0	24.9	
84 Chlorodibromomethane	129	9.796	9.796	0.000	96	5520	5.00	4.56	
85 Ethylene Dibromide	107	9.912	9.905	0.007	98	9291	5.00	5.24	
86 3-Chlorobenzotrifluoride	180	10.374	10.374	0.000	64	18756	5.00	6.07	
87 Chlorobenzene	112	10.399	10.398	0.000	98	39232	5.00	6.08	
88 4-Chlorobenzotrifluoride	180	10.435	10.428	0.007	97	17103	5.00	5.79	
89 1,1,1,2-Tetrachloroethane	131	10.484	10.477	0.007	94	7857	5.00	5.28	
90 Ethylbenzene	106	10.502	10.508	-0.006	99	20645	5.00	5.54	
91 m-Xylene & p-Xylene	106	10.624	10.623	0.001	99	26322	5.00	5.73	
92 o-Xylene	106	11.019	11.019	0.001	96	25758	5.00	5.78	
93 Styrene	104	11.031	11.031	0.000	96	42726	5.00	5.86	
94 Bromoform	173	11.220	11.213	0.007	52	2588	5.00	4.05	
96 2-Chlorobenzotrifluoride	180	11.275	11.280	-0.005	97	17742	5.00	5.79	
97 Isopropylbenzene	105	11.384	11.384	0.000	99	65207	5.00	5.96	
99 1,1,2,2-Tetrachloroethane	83	11.676	11.682	-0.006	91	12676	5.00	4.97	
100 Bromobenzene	156	11.688	11.688	0.000	97	14051	5.00	5.82	
101 1,2,3-Trichloropropane	110	11.725	11.724	0.001	95	5015	5.00	6.20	
102 trans-1,4-Dichloro-2-buten	53	11.743	11.736	0.007	90	4072	5.00	5.18	
103 N-Propylbenzene	120	11.792	11.791	0.001	100	16822	5.00	5.24	
104 2-Chlorotoluene	126	11.877	11.882	-0.005	99	15299	5.00	5.77	
105 3-Chlorotoluene	126	11.944	11.937	0.007	98	16343	5.00	6.03	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.962	11.968	-0.006	100	50437	5.00	5.68	
107 4-Chlorotoluene	126	11.986	11.986	0.000	95	15984	5.00	5.59	
108 tert-Butylbenzene	119	12.290	12.296	-0.006	98	43127	5.00	5.63	
110 1,2,4-Trimethylbenzene	105	12.339	12.339	0.000	96	51091	5.00	5.58	
111 1,2-dichloro-4-(trifluorom	214	12.406	12.406	0.000	97	10729	5.00	5.19	
112 sec-Butylbenzene	105	12.509	12.515	-0.006	99	65330	5.00	5.92	
113 1,3-Dichlorobenzene	146	12.619	12.625	-0.006	97	28602	5.00	5.99	
114 4-Isopropyltoluene	119	12.662	12.655	0.007	98	51205	5.00	5.66	
115 1,4-Dichlorobenzene	146	12.716	12.710	0.006	98	27681	5.00	5.76	
116 2,4-Dichloro-1-(trifluorom	214	12.765	12.764	0.001	93	11024	5.00	5.61	
118 2,5-Dichlorobenzotrifluori	214	12.814	12.813	0.001	95	11088	5.00	5.17	
120 n-Butylbenzene	91	13.063	13.069	-0.006	99	44994	5.00	5.60	
121 1,2-Dichlorobenzene	146	13.087	13.087	0.000	97	25288	5.00	5.79	
122 1,2-Dibromo-3-Chloropropan	75	13.854	13.866	-0.012	89	1174	5.00	4.08	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.006	14.012	-0.006	99	47582	15.0	16.0	M
125 2,3- & 3,4- Dichlorotoluen	125	14.432	14.431	0.001	98	32193	10.0	10.9	
126 1,2,4-Trichlorobenzene	180	14.693	14.693	0.000	96	11994	5.00	5.49	
127 Hexachlorobutadiene	225	14.864	14.869	-0.005	93	5277	5.00	5.66	
128 Naphthalene	128	14.943	14.942	0.001	99	34798	5.00	5.49	
129 1,2,3-Trichlorobenzene	180	15.192	15.192	0.000	95	10498	5.00	5.61	
131 2,4,5-Trichlorotoluene	159	15.965	15.970	-0.005	93	5832	5.00	6.16	
130 2,3,6-Trichlorotoluene	159	16.068	16.068	0.000	93	5388	5.00	6.17	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		10.0	11.5	
S 134 1,2-Dichloroethene, Total	96				0		10.0	11.2	
S 135 1,3-Dichloropropene, Total	1				0		10.0	8.48	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00031	Amount Added: 0.20	Units: uL	
VOA8260VOAPRI_00102	Amount Added: 0.20	Units: uL	
voaWEEpri Res_00003	Amount Added: 0.20	Units: uL	
voaWKetpri Re_00003	Amount Added: 0.80	Units: uL	
VOAVAPRI_00003	Amount Added: 0.20	Units: uL	
VOAACRPRI_00003	Amount Added: 4.00	Units: uL	
VOA8260INT_00029	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303018.D

Injection Date: 03-Mar-2015 18:29:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: IC VSTD1

Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL

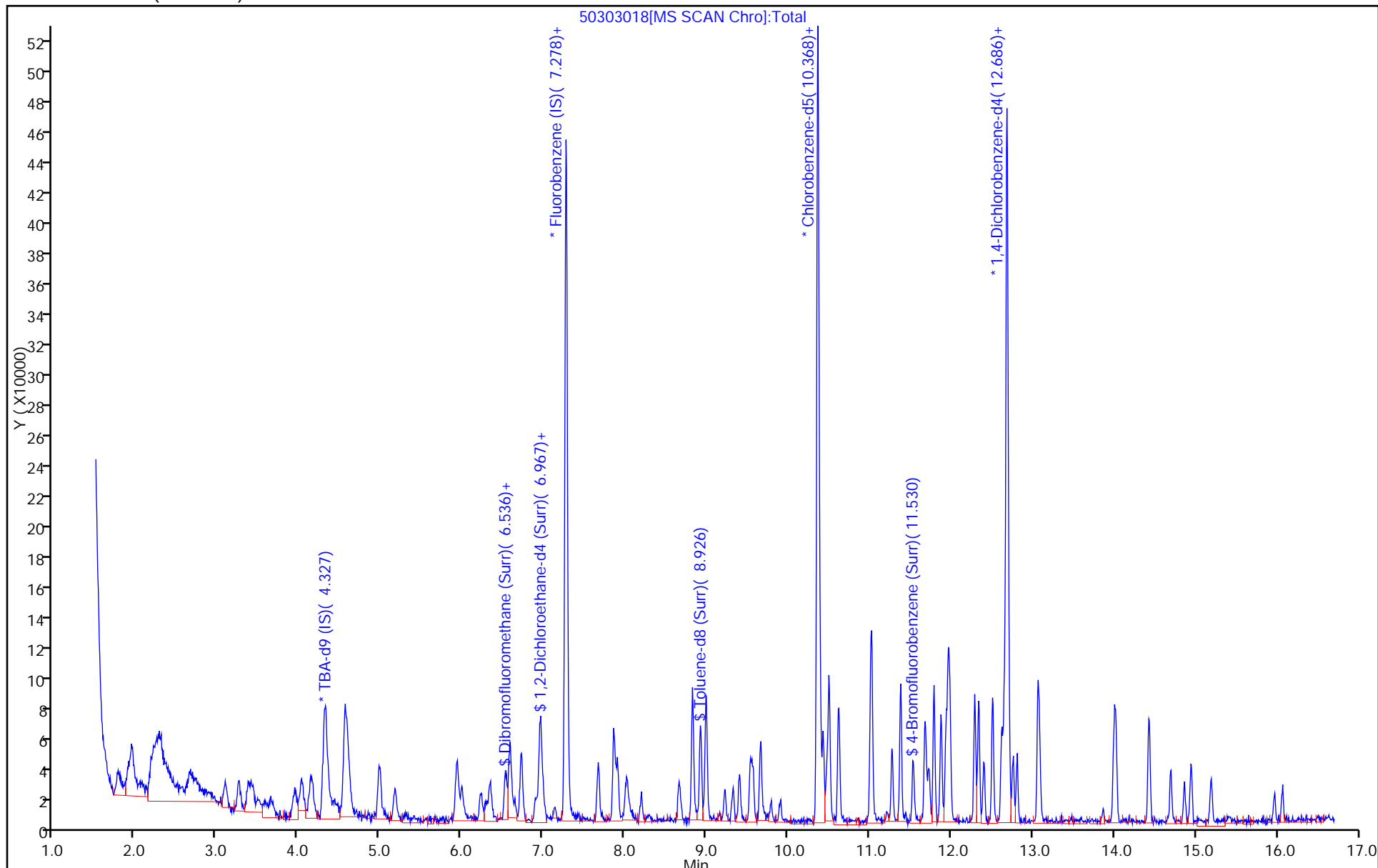
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



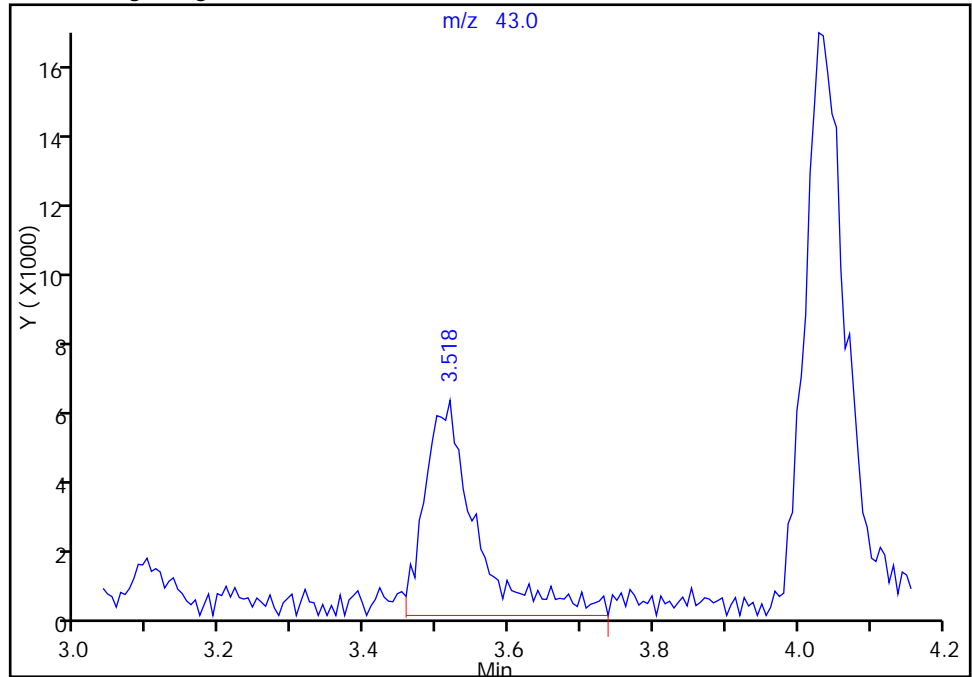
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303018.D
Injection Date: 03-Mar-2015 18:29:30 Instrument ID: CHHP5
Lims ID: IC VSTD1
Client ID:
Operator ID: 001562 ALS Bottle#: 16 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

24 Acetone, CAS: 67-64-1

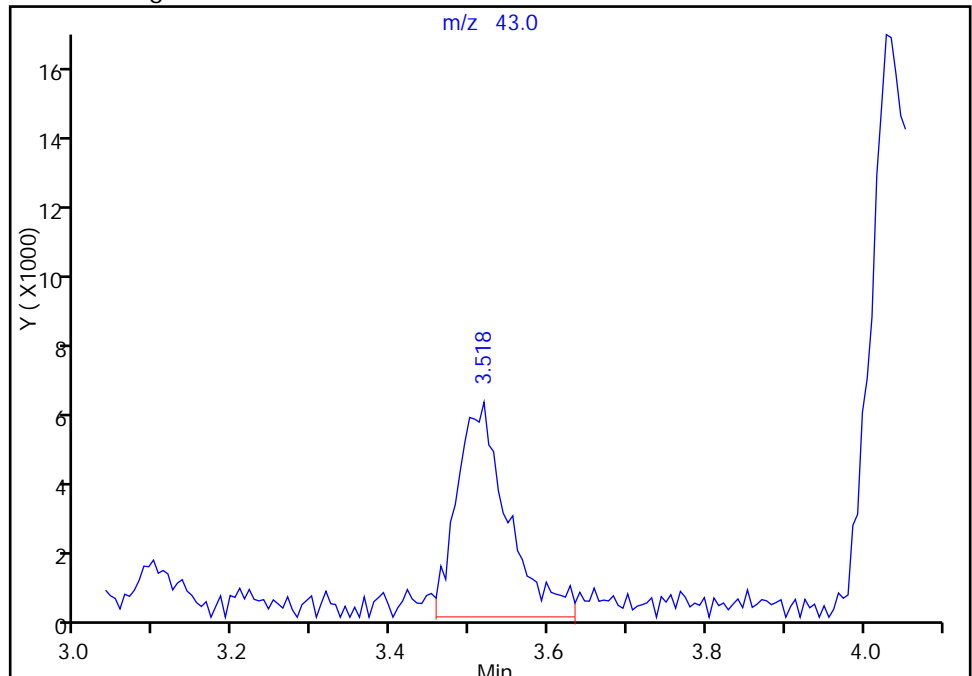
RT: 3.52
Area: 30678
Amount: 34.064759
Amount Units: ng

Processing Integration Results



RT: 3.52
Area: 27756
Amount: 30.284284
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 04-Mar-2015 09:45:02
Audit Action: Manually Integrated
Audit Reason: Peak Tail

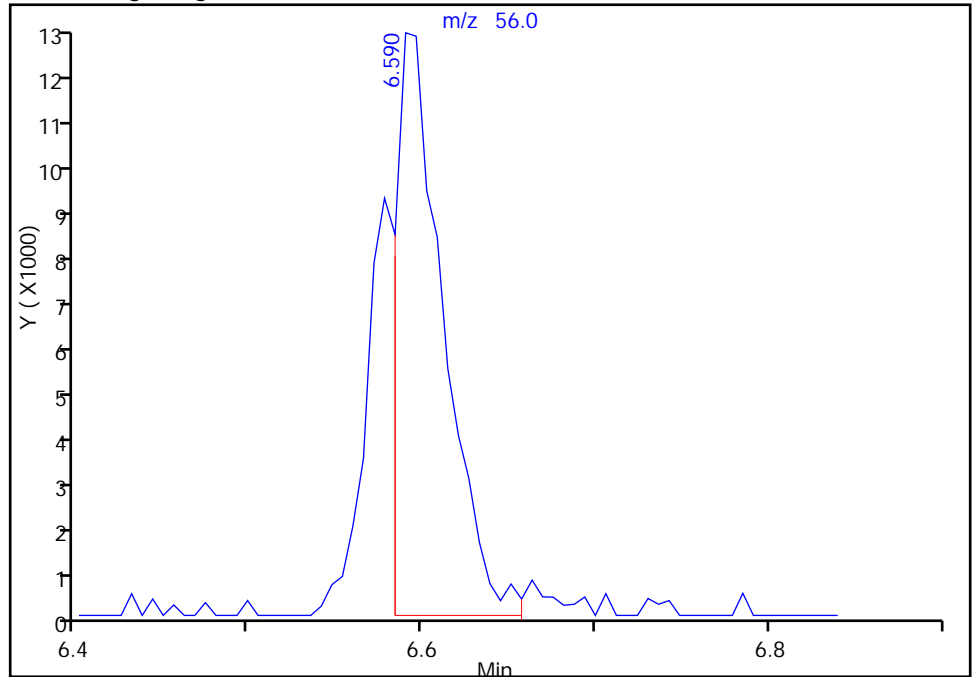
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303018.D
Injection Date: 03-Mar-2015 18:29:30 Instrument ID: CHHP5
Lims ID: IC VSTD1
Client ID:
Operator ID: 001562 ALS Bottle#: 16 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

54 Cyclohexane, CAS: 110-82-7

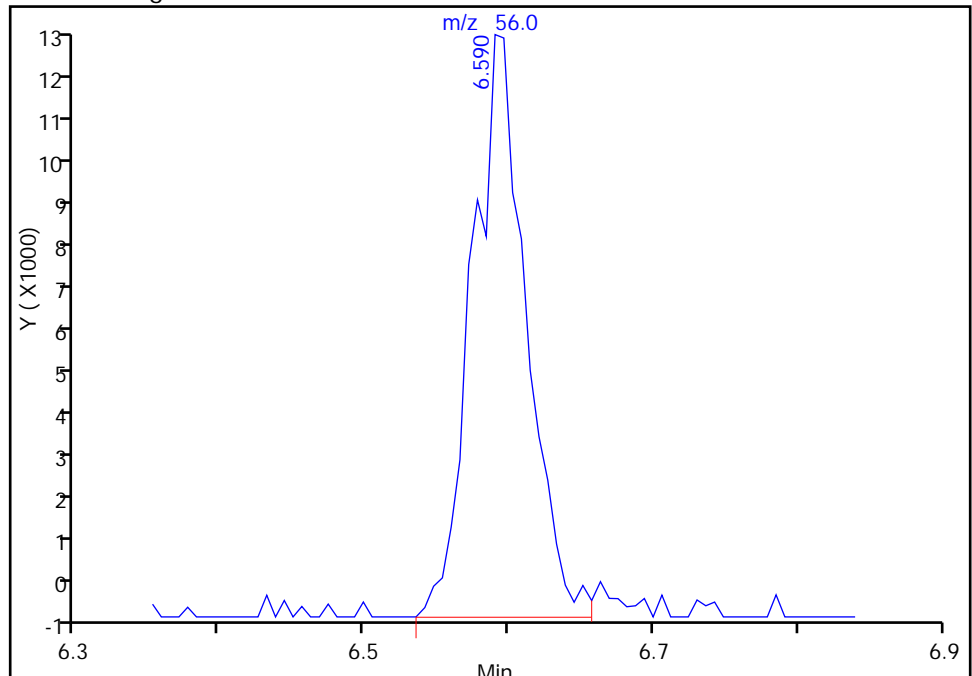
RT: 6.59
Area: 24266
Amount: 3.949469
Amount Units: ng

Processing Integration Results



RT: 6.59
Area: 32962
Amount: 5.357794
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 04-Mar-2015 09:45:02
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-134740/2 Calibration Date: 03/04/2015 11:38
 Instrument ID: CHHP5 Calib Start Date: 03/03/2015 14:28
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/03/2015 18:29
 Lab File ID: 50304002.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	0.2512	0.2772	0.1000	11.0	10.0	10.4	20.0
Chloromethane	Ave	0.4015	0.4081	0.1000	10.2	10.0	1.6	20.0
Vinyl chloride	Ave	0.3859	0.4119	0.1000	10.7	10.0	6.7	20.0
Bromomethane	Lin2		0.1203	0.0500	10.4	10.0	3.5	20.0
Chloroethane	Ave	0.1570	0.1679	0.0500	10.7	10.0	6.9	20.0
Dichlorofluoromethane	Ave	0.3598	0.3898	0.0100	10.8	10.0	8.3	20.0
Trichlorofluoromethane	Ave	0.3005	0.3278	0.1000	10.9	10.0	9.1	20.0
Ethyl ether	Ave	0.2900	0.2908	0.0100	10.0	10.0	0.3	20.0
Acrolein	Ave	0.0383	0.0383	0.0100	30.0	30.0	0.0	20.0
1,1-Dichloroethene	Ave	0.2911	0.3143	0.1000	10.8	10.0	8.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2943	0.3111	0.1000	10.6	10.0	5.7	20.0
Acetone	Ave	0.1050	0.1042	0.0500	19.8	20.0	-0.8	20.0
Iodomethane	Ave	0.4096	0.4316	0.0100	10.5	10.0	5.4	20.0
Carbon disulfide	Ave	0.7166	0.7547	0.1000	10.5	10.0	5.3	20.0
Allyl chloride	Ave	0.1818	0.1817	0.0100	9.99	10.0	-0.0	20.0
Methyl acetate	Ave	0.2888	0.2829	0.1000	49.0	50.0	-2.0	20.0
Methylene Chloride	Lin2		0.3385	0.1000	10.5	10.0	4.6	20.0
tert-Butyl alcohol	Ave	1.198	1.116	0.0100	93.1	100	-6.9	20.0
Acrylonitrile	Ave	0.1432	0.1421	0.0100	99.2	100	-0.8	20.0
trans-1,2-Dichloroethene	Ave	0.3044	0.3169	0.1000	10.4	10.0	4.1	20.0
Methyl tert-butyl ether	Ave	0.7605	0.7267	0.1000	9.56	10.0	-4.4	20.0
Hexane	Ave	0.5404	0.5586	0.0100	10.3	10.0	3.4	20.0
1,1-Dichloroethane	Ave	0.5802	0.5743	0.2000	9.90	10.0	-1.0	20.0
Vinyl acetate	Ave	0.1982	0.1717	0.0100	8.66	10.0	-13.4	20.0
2,2-Dichloropropane	Ave	0.2148	0.1960	0.0100	9.13	10.0	-8.7	20.0
cis-1,2-Dichloroethene	Ave	0.3255	0.3288	0.1000	10.1	10.0	1.0	20.0
2-Butanone (MEK)	Ave	0.1711	0.1590	0.0500	18.6	20.0	-7.1	20.0
Bromochloromethane	Ave	0.1357	0.1344	0.0100	9.91	10.0	-0.9	20.0
Tetrahydrofuran	Ave	0.1218	0.1132	0.0100	18.6	20.0	-7.0	20.0
Chloroform	Ave	0.4624	0.4647	0.2000	10.0	10.0	0.5	20.0
1,1,1-Trichloroethane	Ave	0.3141	0.3201	0.1000	10.2	10.0	1.9	20.0
Cyclohexane	Ave	0.7049	0.7261	0.1000	10.3	10.0	3.0	20.0
Carbon tetrachloride	Ave	0.2130	0.2164	0.1000	10.2	10.0	1.6	20.0
1,1-Dichloropropene	Ave	0.4007	0.4081	0.0100	10.2	10.0	1.8	20.0
Isobutyl alcohol	Ave	0.0069	0.0063*	0.0100	230	250	-7.9	20.0
Benzene	Ave	1.263	1.308	0.5000	10.4	10.0	3.6	20.0
1,2-Dichloroethane	Ave	0.3648	0.3527	0.1000	9.67	10.0	-3.3	20.0
n-Heptane	Ave	0.4910	0.4953	0.0100	10.1	10.0	0.9	20.0
Trichloroethene	Ave	0.2974	0.3067	0.2000	10.3	10.0	3.1	20.0
Methylcyclohexane	Ave	0.5619	0.5822	0.1000	10.4	10.0	3.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-134740/2 Calibration Date: 03/04/2015 11:38
 Instrument ID: CHHP5 Calib Start Date: 03/03/2015 14:28
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/03/2015 18:29
 Lab File ID: 50304002.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
1,2-Dichloropropane	Ave	0.3317	0.3302	0.1000	9.95	10.0	-0.5	20.0
Dibromomethane	Ave	0.1498	0.1484	0.0100	9.91	10.0	-0.9	20.0
1,4-Dioxane	Ave	0.0030	0.0030*	0.0100	205	200	2.6	20.0
Bromodichloromethane	Ave	0.2792	0.2815	0.2000	10.1	10.0	0.8	20.0
cis-1,3-Dichloropropene	Ave	0.3698	0.3453	0.2000	9.34	10.0	-6.6	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.510	1.561	0.1000	20.7	20.0	3.4	20.0
Toluene	Ave	5.161	5.455	0.4000	10.6	10.0	5.7	20.0
trans-1,3-Dichloropropene	Ave	1.088	1.005	0.1000	9.24	10.0	-7.6	20.0
Ethyl methacrylate	Ave	1.224	1.050	0.0100	8.58	10.0	-14.2	20.0
1,1,2-Trichloroethane	Ave	0.9428	0.9427	0.1000	10.0	10.0	-0.0	20.0
Tetrachloroethene	Ave	0.9523	1.031	0.2000	10.8	10.0	8.3	20.0
1,3-Dichloropropane	Ave	1.772	1.788	0.0100	10.1	10.0	0.9	20.0
2-Hexanone	Ave	1.054	1.053	0.1000	20.0	20.0	-0.1	20.0
Dibromochloromethane	Ave	0.6200	0.6334	0.1000	10.2	10.0	2.2	20.0
1,2-Dibromoethane (EDB)	Ave	0.9079	0.9153	0.1000	10.1	10.0	0.8	20.0
3-Chlorobenzotrifluoride	Ave	1.583	1.737	0.0100	11.0	10.0	9.8	20.0
Chlorobenzene	Ave	3.305	3.398	0.5000	10.3	10.0	2.8	20.0
4-Chlorobenzotrifluoride	Ave	1.513	1.658	0.0100	11.0	10.0	9.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.7622	0.7964	0.0100	10.4	10.0	4.5	20.0
Ethylbenzene	Ave	1.911	2.015	0.1000	10.5	10.0	5.5	20.0
m-Xylene & p-Xylene	Ave	2.354	2.492	0.1000	10.6	10.0	5.8	20.0
o-Xylene	Ave	2.285	2.413	0.3000	10.6	10.0	5.6	20.0
Styrene	Ave	3.735	3.892	0.3000	10.4	10.0	4.2	20.0
Bromoform	Ave	0.3275	0.3561	0.1000	10.9	10.0	8.7	20.0
2-Chlorobenzotrifluoride	Ave	1.569	1.735	0.0100	11.1	10.0	10.6	20.0
Isopropylbenzene	Ave	5.608	6.215	0.1000	11.1	10.0	10.8	20.0
1,1,2,2-Tetrachloroethane	Ave	1.307	1.329	0.3000	10.2	10.0	1.7	20.0
Bromobenzene	Ave	0.8735	0.8832	0.0100	10.1	10.0	1.1	20.0
1,2,3-Trichloropropane	Ave	0.2927	0.2816	0.0100	9.62	10.0	-3.8	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2844	0.2538	0.0100	8.93	10.0	-10.7	20.0
N-Propylbenzene	Ave	1.160	1.202	0.0100	10.4	10.0	3.6	20.0
2-Chlorotoluene	Ave	0.9582	0.9690	0.0100	10.1	10.0	1.1	20.0
3-Chlorotoluene	Ave	0.9794	0.9807	0.0100	10.0	10.0	0.1	20.0
1,3,5-Trimethylbenzene	Ave	3.211	3.376	0.0100	10.5	10.0	5.1	20.0
4-Chlorotoluene	Ave	1.034	1.066	0.0100	10.3	10.0	3.1	20.0
tert-Butylbenzene	Ave	2.771	2.917	0.0100	10.5	10.0	5.3	20.0
1,2,4-Trimethylbenzene	Ave	3.314	3.381	0.0100	10.2	10.0	2.0	20.0
3,4-Dichlorobenzotrifluoride	Ave	0.7482	0.8367	0.0100	11.2	10.0	11.8	20.0
sec-Butylbenzene	Ave	3.989	4.281	0.0100	10.7	10.0	7.3	20.0
1,3-Dichlorobenzene	Ave	1.726	1.740	0.6000	10.1	10.0	0.8	20.0
4-Isopropyltoluene	Ave	3.269	3.479	0.0100	10.6	10.0	6.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-134740/2 Calibration Date: 03/04/2015 11:38
 Instrument ID: CHHP5 Calib Start Date: 03/03/2015 14:28
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/03/2015 18:29
 Lab File ID: 50304002.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
1,4-Dichlorobenzene	Ave	1.737	1.720	0.5000	9.90	10.0	-1.0	20.0
2,4-Dichlorobenzotrifluoride	Ave	0.7111	0.7838	0.0100	11.0	10.0	10.2	20.0
2,5-Dichlorobenzotrifluoride	Ave	0.7753	0.8566	0.0100	11.0	10.0	10.5	20.0
n-Butylbenzene	Ave	2.906	3.084	0.0100	10.6	10.0	6.1	20.0
1,2-Dichlorobenzene	Ave	1.579	1.614	0.4000	10.2	10.0	2.2	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1040	0.0978	0.0500	9.40	10.0	-6.0	20.0
2,4- & 2,5- & 2,6-Dichlorotoluene	Ave	1.078	1.151	0.0100	32.0	30.0	6.8	20.0
2,3- & 3,4- Dichlorotoluene	Ave	1.066	1.108	0.0100	20.8	20.0	3.9	20.0
1,2,4-Trichlorobenzene	Ave	0.7897	0.8093	0.2000	10.2	10.0	2.5	20.0
Hexachlorobutadiene	Ave	0.3373	0.3833	0.0100	11.4	10.0	13.7	20.0
Naphthalene	Ave	2.291	2.280	0.0100	9.95	10.0	-0.5	20.0
1,2,3-Trichlorobenzene	Ave	0.6771	0.6929	0.0100	10.2	10.0	2.3	20.0
2,4,5-Trichlorotoluene	Ave	0.3426	0.3571	0.0100	10.4	10.0	4.2	20.0
2,3,6-Trichlorotoluene	Ave	0.3158	0.3277	0.0100	10.4	10.0	3.7	20.0
Dibromofluoromethane (Surr)	Ave	0.2141	0.2191		10.2	10.0	2.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2646	0.2558		9.67	10.0	-3.3	20.0
Toluene-d8 (Surr)	Ave	3.897	4.316		11.1	10.0	10.7	20.0
4-Bromofluorobenzene (Surr)	Ave	1.450	1.480		10.2	10.0	2.1	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304002.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 04-Mar-2015 11:38:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 180-0005893-002
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub4
 Method: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 04-Mar-2015 15:26:36 Calib Date: 03-Mar-2015 18:29:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303018.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: fergusond

Date: 04-Mar-2015 12:10:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.320	4.320	0.000	98	140255	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.277	7.277	0.000	98	433400	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.367	10.367	0.000	99	101881	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.691	12.691	0.000	98	146266	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.528	6.528	0.000	97	94958	50.0	51.2	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.900	6.900	0.000	100	110879	50.0	48.4	
\$ 7 Toluene-d8 (Surr)	98	8.925	8.925	0.000	100	439683	50.0	55.4	
\$ 8 4-Bromofluorobenzene (Surr	95	11.535	11.535	0.000	97	150758	50.0	51.0	
11 Dichlorodifluoromethane	85	1.619	1.619	0.000	99	120152	50.0	55.2	
12 Chloromethane	50	1.777	1.777	0.000	99	176888	50.0	50.8	
13 Vinyl chloride	62	1.905	1.905	0.000	100	178497	50.0	53.4	
14 Butadiene	39	1.948	1.948	0.000	99	205975	50.0	53.1	
15 Bromomethane	94	2.252	2.252	0.000	94	52150	50.0	51.8	
16 Chloroethane	64	2.373	2.373	0.000	99	72765	50.0	53.5	
17 Dichlorofluoromethane	67	2.647	2.647	0.000	99	168917	50.0	54.2	
18 Trichlorofluoromethane	101	2.714	2.714	0.000	98	142082	50.0	54.5	
20 Ethyl ether	59	3.091	3.091	0.000	99	126032	50.0	50.1	
21 Acrolein	56	3.256	3.256	0.000	96	49801	150.0	150.0	M
22 1,1-Dichloroethene	96	3.371	3.371	0.000	98	136225	50.0	54.0	
23 1,1,2-Trichloro-1,2,2-trif	101	3.426	3.426	0.000	98	134829	50.0	52.9	
24 Acetone	43	3.493	3.493	0.000	99	90320	100.0	99.2	
25 Iodomethane	142	3.584	3.584	0.000	97	187044	50.0	52.7	
26 Carbon disulfide	76	3.651	3.651	0.000	100	327075	50.0	52.7	
28 3-Chloro-1-propene	76	3.931	3.931	0.000	100	78748	50.0	50.0	
30 Methyl acetate	43	4.016	4.016	0.000	100	613083	250.0	244.9	
31 Methylene Chloride	84	4.144	4.144	0.000	99	146695	50.0	52.3	
32 2-Methyl-2-propanol	59	4.442	4.442	0.000	97	78231	500.0	465.4	
33 Acrylonitrile	53	4.551	4.551	0.000	100	615859	500.0	496.2	
34 trans-1,2-Dichloroethene	96	4.570	4.570	0.000	94	137330	50.0	52.0	
35 Methyl tert-butyl ether	73	4.600	4.600	0.000	99	314962	50.0	47.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.983	4.983	0.000	99	242091	50.0	51.7	
37 1,1-Dichloroethane	63	5.172	5.172	0.000	100	248883	50.0	49.5	
38 Vinyl acetate	43	5.294	5.294	0.000	100	74415	50.0	43.3	
44 2,2-Dichloropropane	77	5.926	5.926	0.000	65	84959	50.0	45.6	
45 cis-1,2-Dichloroethene	96	5.938	5.938	0.000	95	142501	50.0	50.5	
46 2-Butanone (MEK)	43	5.987	5.987	0.000	100	137792	100.0	92.9	
49 Chlorobromomethane	128	6.230	6.230	0.000	99	58259	50.0	49.5	
51 Tetrahydrofuran	42	6.291	6.291	0.000	98	98140	100.0	93.0	
52 Chloroform	83	6.340	6.340	0.000	96	201403	50.0	50.2	
53 1,1,1-Trichloroethane	97	6.528	6.528	0.000	97	138716	50.0	51.0	
54 Cyclohexane	56	6.583	6.583	0.000	96	314684	50.0	51.5	
56 Carbon tetrachloride	117	6.717	6.717	0.000	70	93805	50.0	50.8	
55 1,1-Dichloropropene	75	6.723	6.723	0.000	96	176888	50.0	50.9	
57 Isobutyl alcohol	41	6.942	6.942	0.000	39	68505	1250.0	1151.6	
58 Benzene	78	6.954	6.954	0.000	99	566916	50.0	51.8	
59 1,2-Dichloroethane	62	6.991	6.991	0.000	100	152849	50.0	48.3	
62 n-Heptane	43	7.277	7.277	0.000	83	214676	50.0	50.4	
64 Trichloroethene	130	7.666	7.666	0.000	99	132917	50.0	51.6	
66 Methylcyclohexane	83	7.867	7.867	0.000	99	252318	50.0	51.8	
67 1,2-Dichloropropane	63	7.909	7.909	0.000	98	143087	50.0	49.8	
68 Dibromomethane	93	8.031	8.031	0.000	99	64298	50.0	49.5	
70 1,4-Dioxane	88	8.061	8.061	0.000	96	26300	1000.0	1026.2	
71 Dichlorobromomethane	83	8.201	8.201	0.000	99	121986	50.0	50.4	
74 cis-1,3-Dichloropropene	75	8.658	8.658	0.000	99	149639	50.0	46.7	
75 4-Methyl-2-pentanone (MIBK)	43	8.828	8.828	0.000	99	318166	100.0	103.4	
76 Toluene	91	8.992	8.992	0.000	100	555797	50.0	52.9	
77 trans-1,3-Dichloropropene	75	9.217	9.217	0.000	99	102404	50.0	46.2	
78 Ethyl methacrylate	69	9.321	9.321	0.000	98	106996	50.0	42.9	
79 1,1,2-Trichloroethane	97	9.400	9.400	0.000	99	96042	50.0	50.0	
80 Tetrachloroethene	164	9.540	9.540	0.000	98	105086	50.0	54.2	
81 1,3-Dichloropropane	76	9.570	9.570	0.000	100	182115	50.0	50.4	
82 2-Hexanone	43	9.661	9.661	0.000	99	214517	100.0	99.9	
84 Chlorodibromomethane	129	9.795	9.795	0.000	98	64535	50.0	51.1	
85 Ethylene Dibromide	107	9.899	9.899	0.000	99	93253	50.0	50.4	
86 3-Chlorobenzotrifluoride	180	10.373	10.373	0.000	90	177016	50.0	54.9	
87 Chlorobenzene	112	10.391	10.391	0.000	100	346165	50.0	51.4	
88 4-Chlorobenzotrifluoride	180	10.434	10.434	0.000	99	168906	50.0	54.8	
89 1,1,1,2-Tetrachloroethane	131	10.477	10.477	0.000	98	81133	50.0	52.2	
90 Ethylbenzene	106	10.501	10.501	0.000	100	205336	50.0	52.7	
91 m-Xylene & p-Xylene	106	10.623	10.623	0.000	100	253850	50.0	52.9	
92 o-Xylene	106	11.012	11.012	0.000	96	245878	50.0	52.8	
93 Styrene	104	11.030	11.030	0.000	97	396506	50.0	52.1	
94 Bromoform	173	11.213	11.213	0.000	97	36284	50.0	54.4	
96 2-Chlorobenzotrifluoride	180	11.280	11.280	0.000	99	176764	50.0	55.3	
97 Isopropylbenzene	105	11.383	11.383	0.000	99	633141	50.0	55.4	
99 1,1,2,2-Tetrachloroethane	83	11.675	11.675	0.000	98	135422	50.0	50.9	
100 Bromobenzene	156	11.687	11.687	0.000	99	129177	50.0	50.6	
101 1,2,3-Trichloropropane	110	11.724	11.724	0.000	95	41195	50.0	48.1	
102 trans-1,4-Dichloro-2-buten	53	11.736	11.736	0.000	93	37126	50.0	44.6	
103 N-Propylbenzene	120	11.791	11.791	0.000	100	175884	50.0	51.8	
104 2-Chlorotoluene	126	11.876	11.876	0.000	100	141735	50.0	50.6	
105 3-Chlorotoluene	126	11.937	11.937	0.000	99	143447	50.0	50.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.967	11.967	0.000	100	493765	50.0	52.6	
107 4-Chlorotoluene	126	11.985	11.985	0.000	99	155860	50.0	51.5	
108 tert-Butylbenzene	119	12.289	12.289	0.000	99	426639	50.0	52.6	
110 1,2,4-Trimethylbenzene	105	12.338	12.338	0.000	98	494467	50.0	51.0	
111 1,2-dichloro-4-(trifluorom	214	12.405	12.405	0.000	99	122379	50.0	55.9	
112 sec-Butylbenzene	105	12.509	12.509	0.000	100	626228	50.0	53.7	
113 1,3-Dichlorobenzene	146	12.624	12.624	0.000	99	254528	50.0	50.4	
114 4-Isopropyltoluene	119	12.655	12.655	0.000	100	508897	50.0	53.2	
115 1,4-Dichlorobenzene	146	12.709	12.709	0.000	98	251542	50.0	49.5	
116 2,4-Dichloro-1-(trifluorom	214	12.764	12.764	0.000	95	114641	50.0	55.1	
118 2,5-Dichlorobenzotrifluori	214	12.807	12.807	0.000	98	125295	50.0	55.2	
120 n-Butylbenzene	91	13.062	13.062	0.000	100	451059	50.0	53.1	
121 1,2-Dichlorobenzene	146	13.080	13.080	0.000	99	236046	50.0	51.1	
122 1,2-Dibromo-3-Chloropropan	75	13.865	13.865	0.000	94	14297	50.0	47.0	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.011	14.011	0.000	100	505185	150.0	160.2	
125 2,3- & 3,4- Dichlorotoluen	125	14.431	14.431	0.000	100	323996	100.0	103.9	
126 1,2,4-Trichlorobenzene	180	14.692	14.692	0.000	99	118373	50.0	51.2	
127 Hexachlorobutadiene	225	14.863	14.863	0.000	97	56067	50.0	56.8	
128 Naphthalene	128	14.942	14.942	0.000	100	333480	50.0	49.8	
129 1,2,3-Trichlorobenzene	180	15.191	15.191	0.000	99	101351	50.0	51.2	
131 2,4,5-Trichlorotoluene	159	15.970	15.970	0.000	98	52226	50.0	52.1	
130 2,3,6-Trichlorotoluene	159	16.067	16.067	0.000	98	47924	50.0	51.9	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		100.0	105.7	
S 134 1,2-Dichloroethene, Total	96				0		100.0	102.6	
S 135 1,3-Dichloropropene, Total	1				0		100.0	92.9	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260VOAPRI_00102	Amount Added: 2.00	Units: uL	
voaWEEpri Res_00003	Amount Added: 2.00	Units: uL	
VOAVAPRI_00003	Amount Added: 2.00	Units: uL	
voaWKetpri Re_00003	Amount Added: 2.00	Units: uL	
VOAACRPRI_00003	Amount Added: 6.00	Units: uL	
VOA8260INT_00029	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00031	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304002.D

Injection Date: 04-Mar-2015 11:38:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

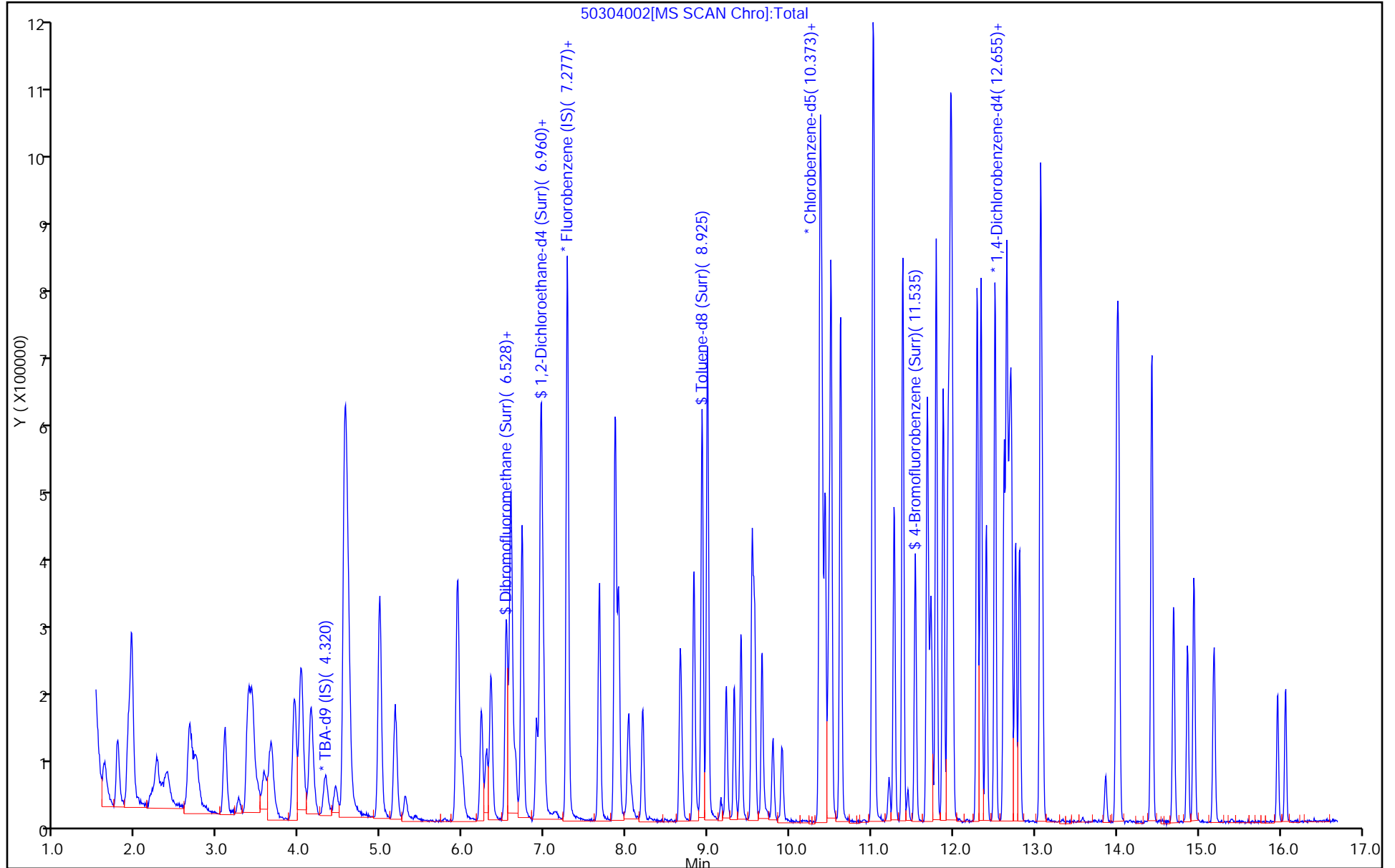
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



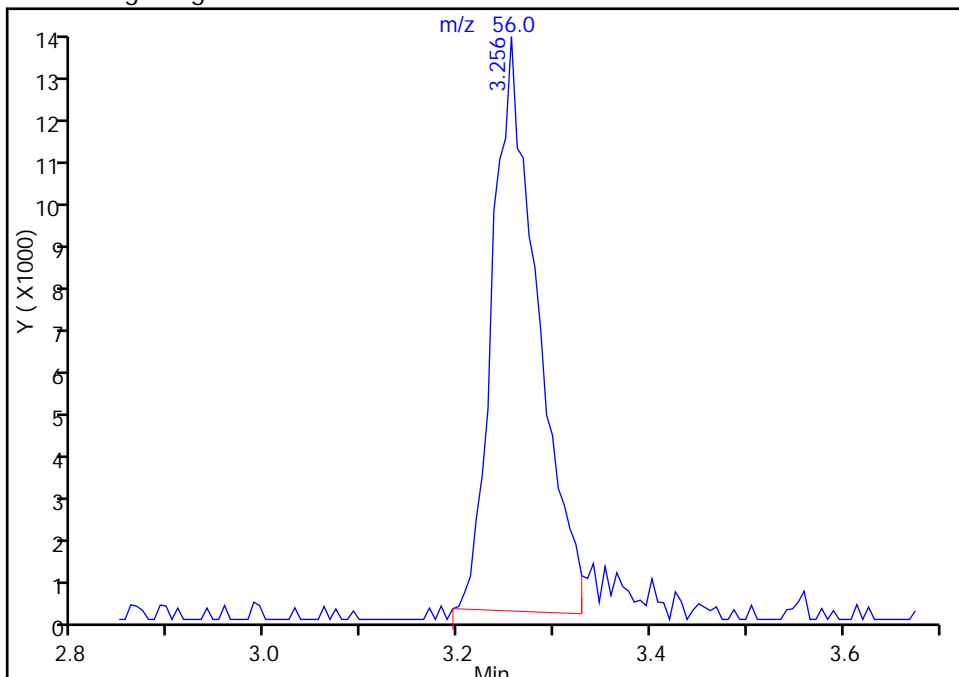
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304002.D
Injection Date: 04-Mar-2015 11:38:30 Instrument ID: CHHP5
Lims ID: CCVIS
Client ID:
Operator ID: 001562 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

21 Acrolein, CAS: 107-02-8

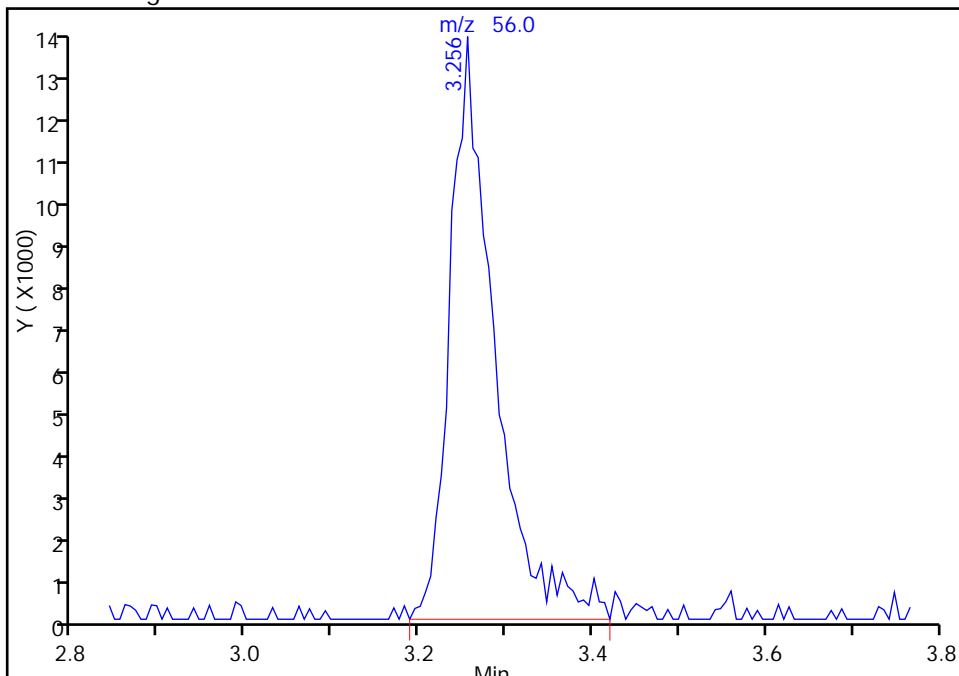
RT: 3.26
Area: 44457
Amount: 133.9161
Amount Units: ng

Processing Integration Results



RT: 3.26
Area: 49801
Amount: 150.0137
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 04-Mar-2015 12:10:57
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303006.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 03-Mar-2015 12:21:30 ALS Bottle#: 3 Worklist Smp#: 6
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 180-0005873-006
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\MMSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 04-Mar-2015 10:13:03 Calib Date: 03-Mar-2015 18:29:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303018.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: fergusond Date: 03-Mar-2015 12:34:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
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\$ 10 BFB	95	8.342	8.342	0.000	0	147446	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

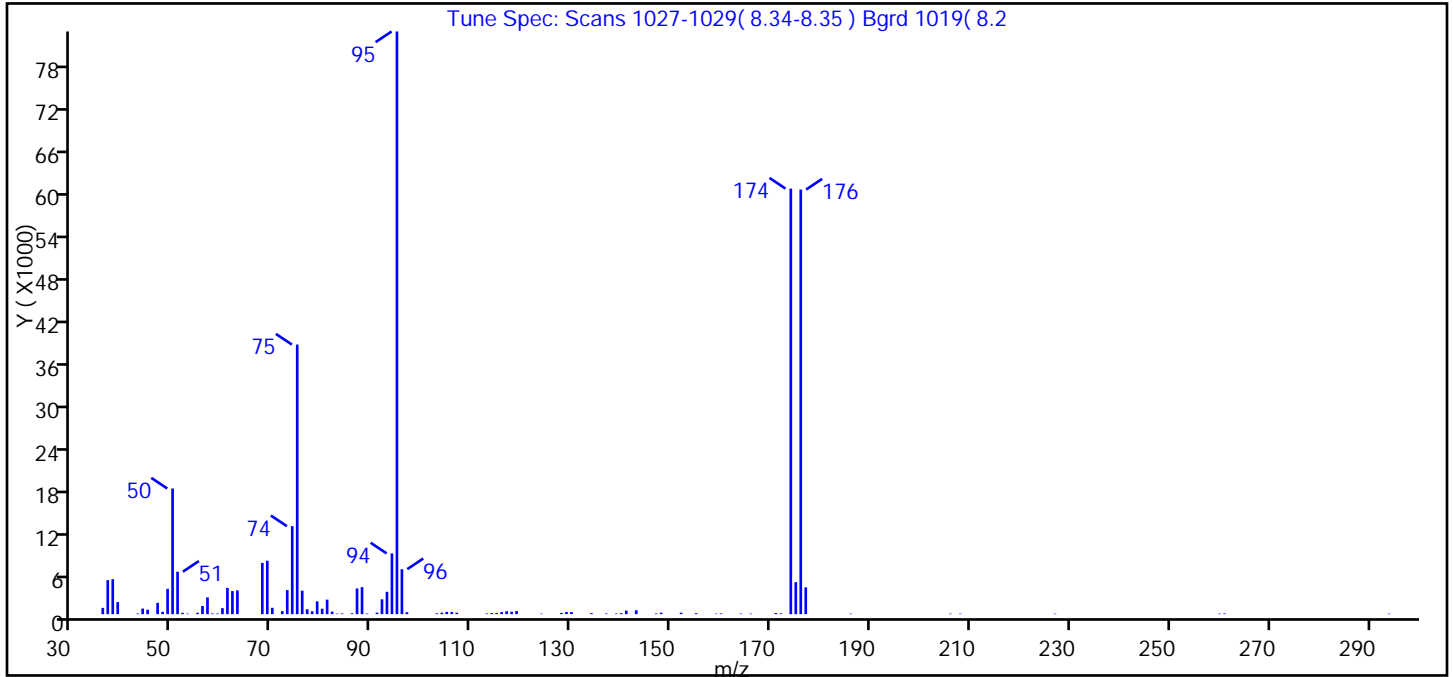
Reagents:

VOA BFB 25_00001 Amount Added: 1.00 Units: uL

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303006.D
 Injection Date: 03-Mar-2015 12:21:30 Instrument ID: CHHP5
 Lims ID: BFB
 Client ID:
 Operator ID: 001562 ALS Bottle#: 3 Worklist Smp#: 6
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP5 Limit Group: VOA 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	21.6
75	30 to 60% of m/z 95	46.3
96	5 to 9% of m/z 95	7.7
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	73.0
175	5 to 9% of m/z 174	5.5 (7.5)
176	Greater than 95% but less than 101% of m/z 174	72.9 (99.8)
177	5 to 9% of m/z 176	4.6 (6.3)

Data File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303006.D\MSVOA_LL_CHHP5.rslt\spectra.d
Injection Date: 03-Mar-2015 12:21:30
Spectrum: Tune Spec: Scans 1027-1029(8.34-8.35) Bgrd 1019(8.2
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 93

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	884	69.00	7531	96.00	6342	147.00	90
37.00	4798	70.00	895	97.00	267	148.00	212
38.00	4937	72.00	420	103.00	118	152.00	208
39.00	1701	73.00	3394	104.00	203	155.00	140
43.00	90	74.00	12405	105.00	323	159.00	71
44.00	787	75.00	38024	106.00	305	160.00	100
45.00	628	76.00	3310	107.00	205	164.00	78
47.00	1594	77.00	688	113.00	90	166.00	74
48.00	327	78.00	405	114.00	165	171.00	160
49.00	3565	79.00	1805	115.00	156	172.00	105
50.00	17720	80.00	768	116.00	297	174.00	60024
51.00	5986	81.00	2046	117.00	405	175.00	4514
52.00	186	82.00	354	118.00	334	176.00	59888
53.00	74	83.00	67	119.00	437	177.00	3780
55.00	198	84.00	93	124.00	67	186.00	69
56.00	1152	86.00	120	128.00	166	206.00	73
57.00	2364	87.00	3629	129.00	302	208.00	68
58.00	96	88.00	3807	130.00	296	227.00	70
59.00	84	89.00	81	134.00	146	260.00	73
60.00	846	91.00	210	137.00	89	261.00	93
61.00	3705	92.00	2094	139.00	81	294.00	74
62.00	3255	93.00	3151	140.00	139		
63.00	3358	94.00	8567	141.00	495		
68.00	7231	95.00	82184	143.00	545		

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303006.D

Injection Date: 03-Mar-2015 12:21:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: BFB

Worklist Smp#: 6

Client ID:

Injection Vol: 5.0 mL

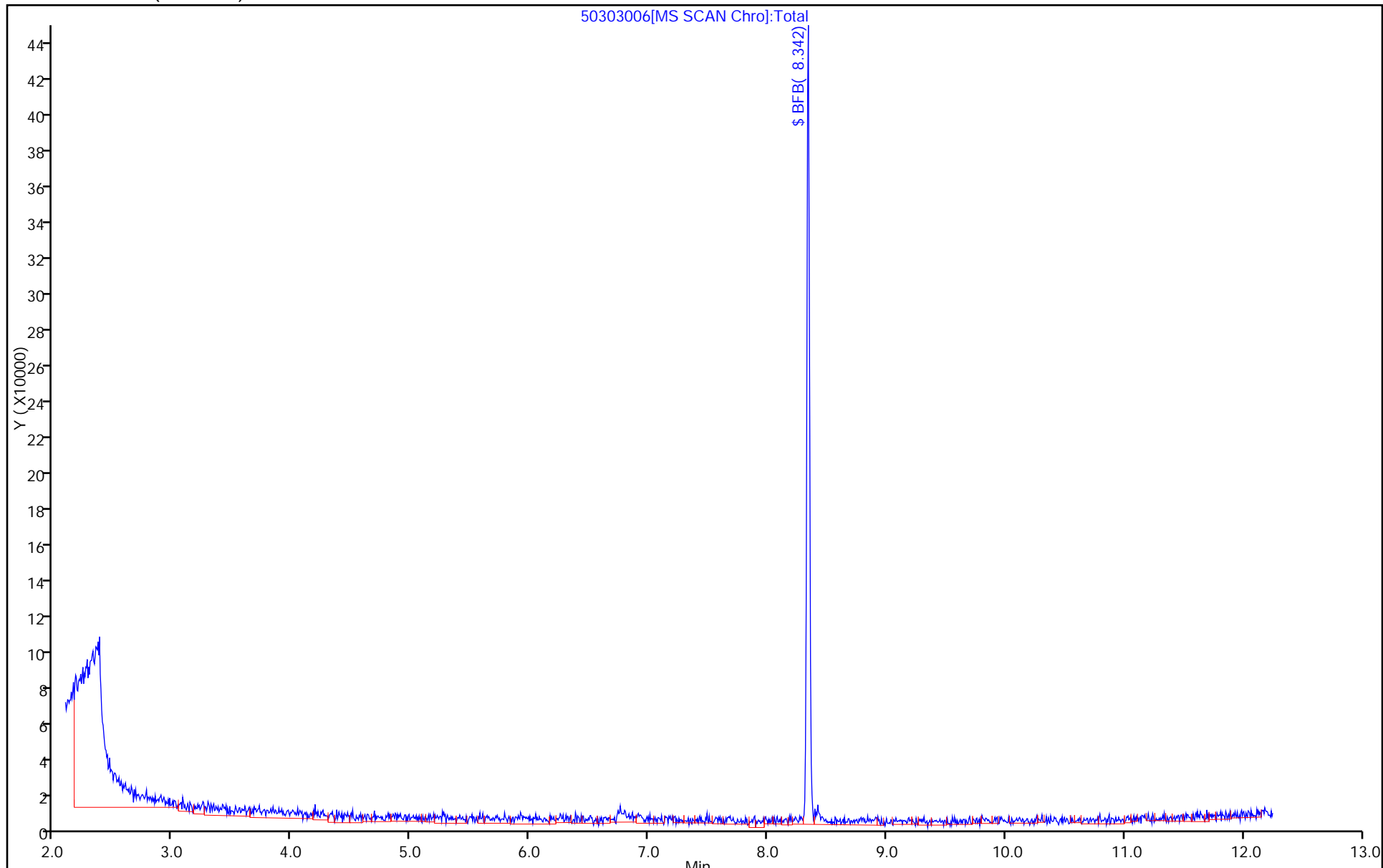
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304001.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 04-Mar-2015 11:01:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 180-0005893-001
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\MMSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 04-Mar-2015 14:08:31 Calib Date: 03-Mar-2015 18:29:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303018.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: fergusond Date: 04-Mar-2015 11:16:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
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\$ 10 BFB	95	8.341	8.341	0.000	0	106229	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

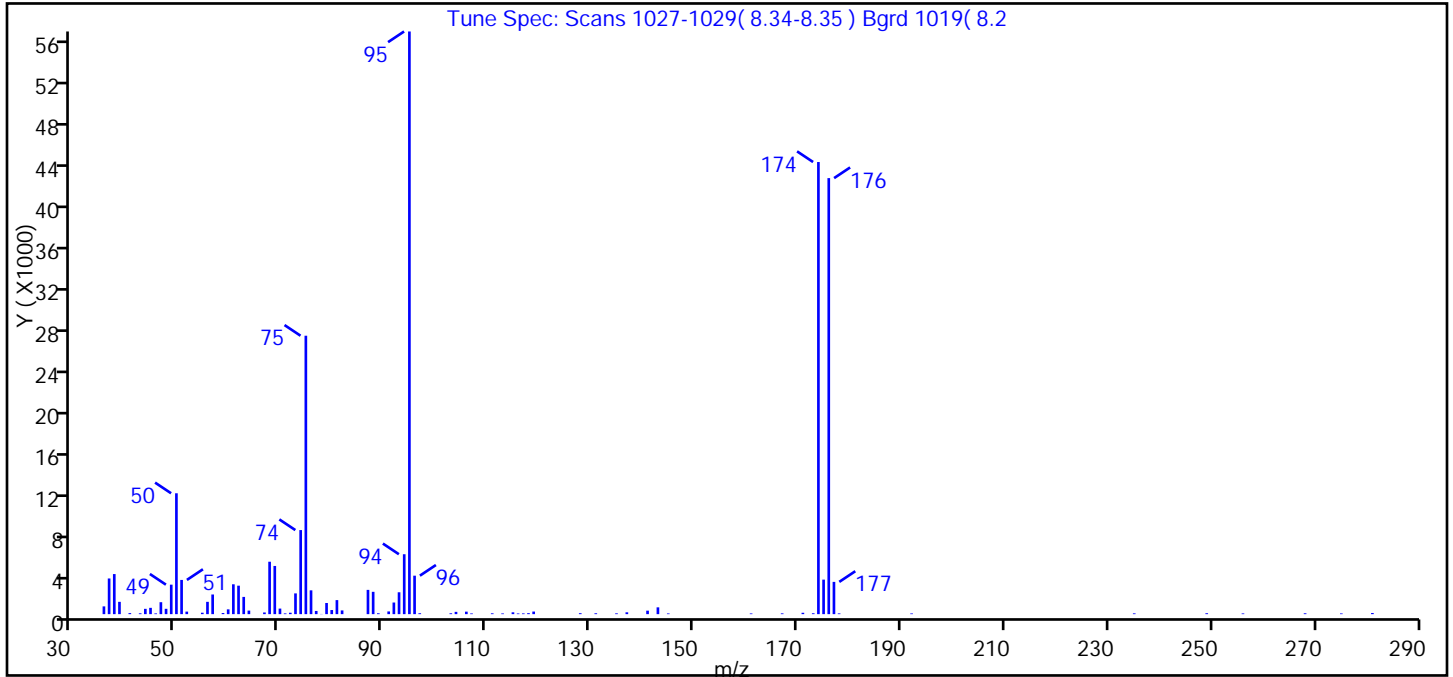
Reagents:

VOA BFB 25_00001 Amount Added: 1.00 Units: uL

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304001.D
 Injection Date: 04-Mar-2015 11:01:30 Instrument ID: CHHP5
 Lims ID: BFB
 Client ID:
 Operator ID: 001562 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP5 Limit Group: VOA 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	20.7
75	30 to 60% of m/z 95	47.8
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	77.6
175	5 to 9% of m/z 174	5.9 (7.6)
176	Greater than 95% but less than 101% of m/z 174	74.8 (96.4)
177	5 to 9% of m/z 176	5.5 (7.4)

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304001.D\MSVOA_LL_CHHP5.rslt\spectra.d
 Injection Date: 04-Mar-2015 11:01:30
 Spectrum: Tune Spec: Scans 1027-1029(8.34-8.35) Bgrd 1019(8.2
 Base Peak: 95.00
 Minimum % Base Peak: 0
 Number of Points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	752	62.00	2759	89.00	84	135.00	78
37.00	3458	63.00	1671	91.00	262	137.00	179
38.00	3885	64.00	344	92.00	1127	141.00	337
39.00	1193	67.00	162	93.00	2120	143.00	659
41.00	102	68.00	5082	94.00	5808	145.00	68
43.00	80	69.00	4672	95.00	56488	161.00	68
44.00	514	70.00	539	96.00	3729	167.00	75
45.00	611	71.00	73	97.00	88	171.00	133
46.00	72	72.00	136	103.00	83	173.00	86
47.00	1158	73.00	2012	104.00	222	174.00	43832
48.00	517	74.00	8150	106.00	242	175.00	3346
49.00	2858	75.00	26992	107.00	69	176.00	42272
50.00	11718	76.00	2308	111.00	81	177.00	3128
51.00	3317	77.00	308	113.00	69	178.00	72
52.00	246	78.00	18	115.00	178	192.00	68
55.00	138	79.00	1080	116.00	67	235.00	76
56.00	1193	80.00	399	117.00	72	249.00	88
57.00	1906	81.00	1361	118.00	95	256.00	70
59.00	109	82.00	362	119.00	251	268.00	84
60.00	465	87.00	2352	128.00	92	275.00	69
61.00	2895	88.00	2164	131.00	85	281.00	108

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304001.D

Injection Date: 04-Mar-2015 11:01:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 mL

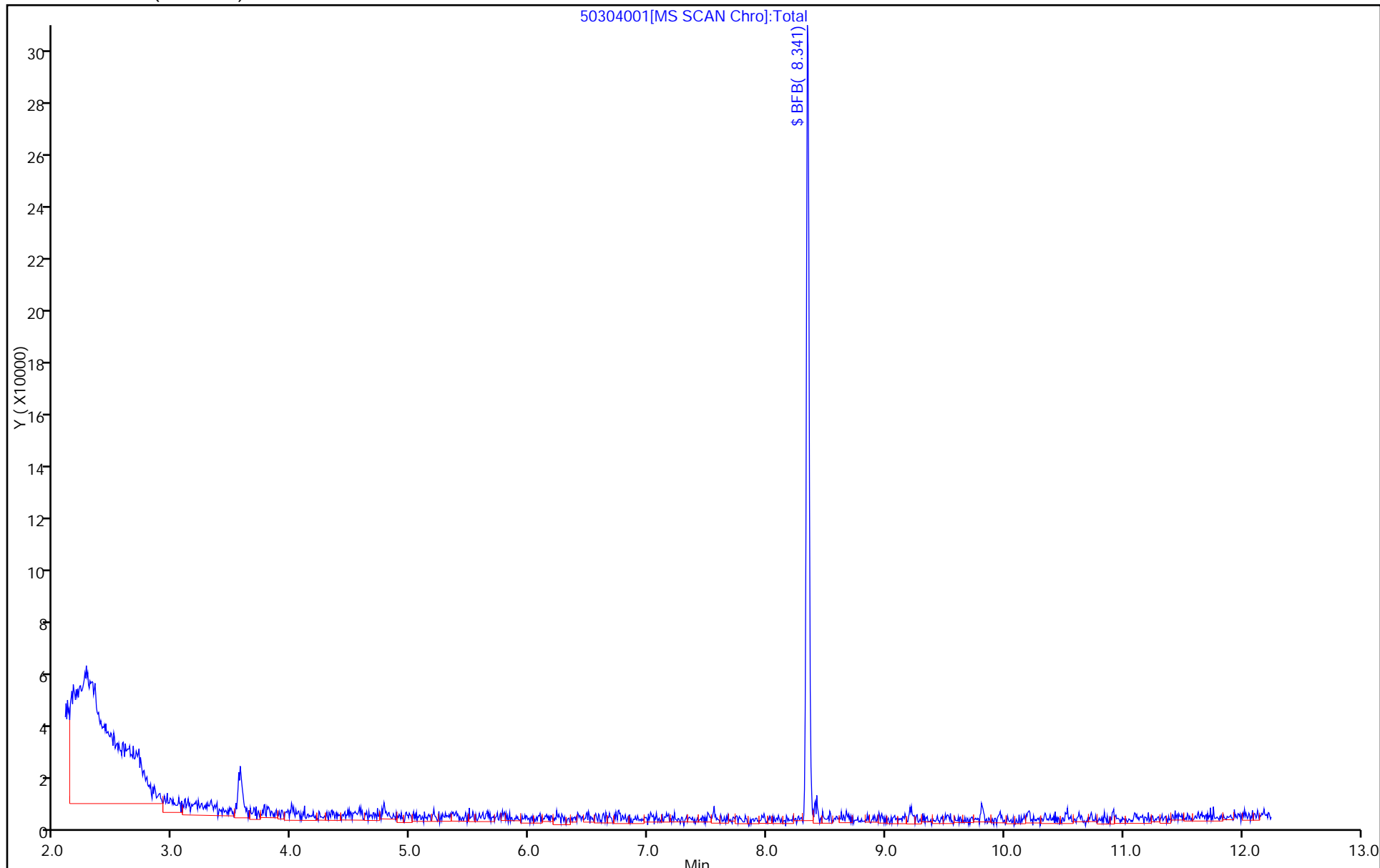
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 180-134740/3
 Matrix: Water Lab File ID: 50304003.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/04/2015 12:17
 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.: 134740 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.28
75-01-4	Vinyl chloride	1.0	U	1.0	0.23
74-83-9	Bromomethane	1.0	U	1.0	0.31
75-00-3	Chloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.30
67-64-1	Acetone	5.0	U	5.0	2.5
75-15-0	Carbon disulfide	1.0	U	1.0	0.21
75-09-2	Methylene Chloride	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.17
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.18
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.12
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.24
74-97-5	Bromochloromethane	1.0	U	1.0	0.18
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.55
67-66-3	Chloroform	1.0	U	1.0	0.17
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.29
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.14
71-43-2	Benzene	1.0	U	1.0	0.11
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
79-01-6	Trichloroethene	1.0	U	1.0	0.14
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.095
75-27-4	Bromodichloromethane	1.0	U	1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53
108-88-3	Toluene	1.0	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.15
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.20
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.16
124-48-1	Dibromochloromethane	1.0	U	1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
100-41-4	Ethylbenzene	1.0	U	1.0	0.23
1330-20-7	Xylenes, Total	3.0	U	3.0	0.49
100-42-5	Styrene	1.0	U	1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 180-134740/3
 Matrix: Water Lab File ID: 50304003.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/04/2015 12:17
 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.: 134740 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20
107-13-1	Acrylonitrile	20	U	20	0.55
123-91-1	1,4-Dioxane	200	U	200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		64-135
2037-26-5	Toluene-d8 (Surr)	104		71-118
460-00-4	4-Bromofluorobenzene (Surr)	104		70-118
1868-53-7	Dibromofluoromethane (Surr)	94		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304003.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 04-Mar-2015 12:17:30 ALS Bottle#: 3 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 180-0005893-003
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\MMSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 04-Mar-2015 14:08:31 Calib Date: 03-Mar-2015 18:29:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303018.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: fergusond

Date: 04-Mar-2015 14:08:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.302	4.320	-0.018	99	145696	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.277	7.277	0.000	99	482246	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.367	10.367	0.000	100	106404	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.685	12.691	-0.006	98	165407	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.535	6.528	0.007	52	97366	50.0	47.2	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.906	6.900	0.006	98	121061	50.0	47.4	
\$ 7 Toluene-d8 (Surr)	98	8.932	8.925	0.007	100	431088	50.0	52.0	
\$ 8 4-Bromofluorobenzene (Surr	95	11.535	11.535	0.000	99	160261	50.0	51.9	
11 Dichlorodifluoromethane	85		1.619					ND	
12 Chloromethane	50		1.777					ND	
13 Vinyl chloride	62		1.905					ND	
14 Butadiene	39		1.948					ND	
15 Bromomethane	94		2.252					ND	
16 Chloroethane	64		2.373					ND	
17 Dichlorofluoromethane	67		2.647					ND	
18 Trichlorofluoromethane	101		2.714					ND	
19 Ethanol	45		3.012					ND	
20 Ethyl ether	59		3.091					ND	
21 Acrolein	56		3.256					ND	
22 1,1-Dichloroethene	96		3.371					ND	
23 1,1,2-Trichloro-1,2,2-trif	101		3.426					ND	
24 Acetone	43		3.493					ND	
25 Iodomethane	142		3.584					ND	
26 Carbon disulfide	76		3.651					ND	
27 Isopropyl alcohol	45		3.736					ND	
28 3-Chloro-1-propene	76		3.931					ND	
29 Acetonitrile	40		3.943					ND	
30 Methyl acetate	43		4.016					ND	
31 Methylene Chloride	84		4.144					ND	M
32 2-Methyl-2-propanol	59		4.442					ND	
33 Acrylonitrile	53		4.551					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
34 trans-1,2-Dichloroethene	96		4.570					ND	
35 Methyl tert-butyl ether	73		4.600					ND	
36 Hexane	57		4.983					ND	
37 1,1-Dichloroethane	63		5.172					ND	
38 Vinyl acetate	43		5.294					ND	
41 Isopropyl ether	45		5.300					ND	
39 2-Chloro-1,3-butadiene	53		5.300					ND	
40 Isopropyl ether TIC	45		5.409					ND	
42 Tert-butyl ethyl ether	59		5.799					ND	
44 2,2-Dichloropropane	77		5.926					ND	
45 cis-1,2-Dichloroethene	96		5.938					ND	
43 Tert-butyl ethyl ether (TI	59		5.961					ND	
46 2-Butanone (MEK)	43		5.987					ND	
48 Ethyl acetate	43		5.993					ND	
47 Propionitrile	54		6.024					ND	
49 Chlorobromomethane	128		6.230					ND	
51 Tetrahydrofuran	42	6.316	6.291	0.025	65	2091		1.78	
52 Chloroform	83		6.340					ND	
50 Methacrylonitrile	41		6.389					ND	
53 1,1,1-Trichloroethane	97		6.528					ND	
54 Cyclohexane	56		6.583					ND	
56 Carbon tetrachloride	117		6.717					ND	
55 1,1-Dichloropropene	75		6.723					ND	
57 Isobutyl alcohol	41		6.942					ND	
58 Benzene	78		6.954					ND	
59 1,2-Dichloroethane	62		6.991					ND	
61 Tert-amyl methyl ether	73		7.143					ND	
60 Tert-amyl methyl ether (TI	73		7.262					ND	
62 n-Heptane	43		7.277					ND	
63 n-Butanol	56		7.654					ND	
64 Trichloroethene	130		7.666					ND	
66 Methylcyclohexane	83		7.867					ND	
65 Ethyl acrylate	55		7.867					ND	
69 Methyl methacrylate	69		7.867					ND	
67 1,2-Dichloropropane	63		7.909					ND	
68 Dibromomethane	93		8.031					ND	
70 1,4-Dioxane	88		8.061					ND	
71 Dichlorobromomethane	83		8.201					ND	
72 2-Nitropropane	41		8.427					ND	
73 2-Chloroethyl vinyl ether	63		8.506					ND	
74 cis-1,3-Dichloropropene	75		8.658					ND	
75 4-Methyl-2-pentanone (MIBK	43		8.828					ND	
76 Toluene	91		8.992					ND	
77 trans-1,3-Dichloropropene	75		9.217					ND	
78 Ethyl methacrylate	69		9.321					ND	
79 1,1,2-Trichloroethane	97		9.400					ND	
80 Tetrachloroethene	164		9.540					ND	
81 1,3-Dichloropropane	76		9.570					ND	
82 2-Hexanone	43		9.661					ND	
83 n-Butyl acetate	43		9.662					ND	
84 Chlorodibromomethane	129		9.795					ND	
85 Ethylene Dibromide	107		9.899					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
86 3-Chlorobenzotrifluoride	180		10.373					ND	
87 Chlorobenzene	112		10.391					ND	
88 4-Chlorobenzotrifluoride	180		10.434					ND	
89 1,1,1,2-Tetrachloroethane	131		10.477					ND	
90 Ethylbenzene	106		10.501					ND	
91 m-Xylene & p-Xylene	106		10.623					ND	
92 o-Xylene	106		11.012					ND	
93 Styrene	104		11.030					ND	
94 Bromoform	173		11.213					ND	
96 2-Chlorobenzotrifluoride	180		11.280					ND	
95 Cyclohexanol	57		11.280					ND	
97 Isopropylbenzene	105		11.383					ND	
98 Cyclohexanone	55		11.450					ND	
99 1,1,2,2-Tetrachloroethane	83		11.675					ND	
100 Bromobenzene	156		11.687					ND	
101 1,2,3-Trichloropropane	110		11.724					ND	
102 trans-1,4-Dichloro-2-buten	53		11.736					ND	
103 N-Propylbenzene	120		11.791					ND	
104 2-Chlorotoluene	126		11.876					ND	
105 3-Chlorotoluene	126		11.937					ND	
106 1,3,5-Trimethylbenzene	105		11.967					ND	
107 4-Chlorotoluene	126		11.985					ND	
108 tert-Butylbenzene	119		12.289					ND	
109 Pentachloroethane	167		12.314					ND	
110 1,2,4-Trimethylbenzene	105		12.338					ND	
111 1,2-dichloro-4-(trifluorom	214		12.405					ND	
112 sec-Butylbenzene	105		12.509					ND	
113 1,3-Dichlorobenzene	146		12.624					ND	
114 4-Isopropyltoluene	119		12.655					ND	
119 Benzyl chloride	91		12.655					ND	
115 1,4-Dichlorobenzene	146		12.709					ND	
117 1,2,3-Trimethylbenzene	105		12.758					ND	
116 2,4-Dichloro-1-(triflourom	214		12.764					ND	
118 2,5-Dichlorobenzotrifluori	214		12.807					ND	
120 n-Butylbenzene	91		13.062					ND	
121 1,2-Dichlorobenzene	146		13.080					ND	
122 1,2-Dibromo-3-Chloropropan	75		13.865					ND	
123 2,4- & 2,5- & 2,6- Dichlor	125		14.011					ND	
124 1,3,5-Trichlorobenzene	180		14.078					ND	
125 2,3- & 3,4- Dichlorotoluen	125		14.431					ND	
126 1,2,4-Trichlorobenzene	180		14.692					ND	
127 Hexachlorobutadiene	225		14.863					ND	
128 Naphthalene	128	14.942	14.942	0.000	24	3864		0.5098	
129 1,2,3-Trichlorobenzene	180		15.191					ND	
131 2,4,5-Trichlorotoluene	159	15.964	15.970	-0.006	1	1264		1.12	
130 2,3,6-Trichlorotoluene	159	16.055	16.067	-0.012	1	1131		1.08	
132 2-Methylnaphthalene	142		16.080					ND	
149 3,4-Dichlorotoluene	1		0.000					ND	
151 Isooctane	57		0.000					ND	
147 2,4-Dichlorotoluene	1		0.000					ND	
148 2,3-Dichlorotoluene	1		0.000					ND	
152 Formaldehyde TIC	1		0.000					ND	

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304003.D

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
150 2,6-Dichlorotoluene	1		0.000					ND	
146 2,5-Dichlorotoluene	1		0.000					ND	
S 134 1,2-Dichloroethene, Total	96		1.000					ND	
S 133 Xylenes, Total	106		1.000					ND	
S 135 1,3-Dichloropropene, Total	1		0.000					ND	
T 137 Tetrahydrofuran TIC	42		0.000					ND	
T 138 Methyl n-amyl ketone TIC	43		0.000					ND	
T 153 1,2 Epoxybutane TIC	42		0.000					ND	
T 136 Mesityl oxide TIC	83		0.000					ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00029

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00031

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304003.D

Injection Date: 04-Mar-2015 12:17:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: MB

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

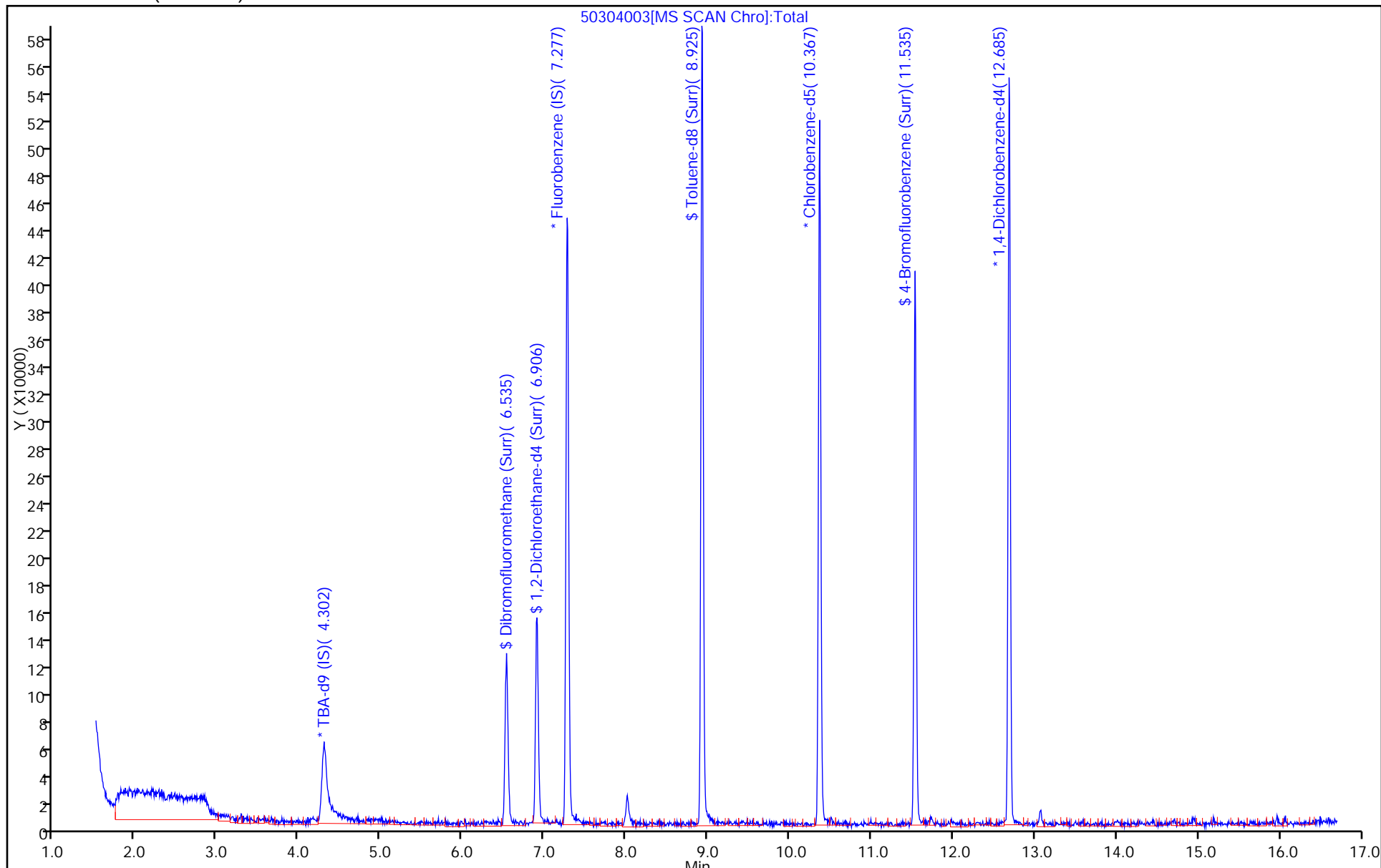
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 180-134740/6
 Matrix: Water Lab File ID: 50304006.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/04/2015 13:44
 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.: 134740 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	8.72		1.0	0.28
75-01-4	Vinyl chloride	8.59		1.0	0.23
74-83-9	Bromomethane	10.0		1.0	0.31
75-00-3	Chloroethane	9.55		1.0	0.21
75-35-4	1,1-Dichloroethene	8.99		1.0	0.30
67-64-1	Acetone	16.5		5.0	2.5
75-15-0	Carbon disulfide	7.82		1.0	0.21
75-09-2	Methylene Chloride	9.18		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	9.41		1.0	0.17
1634-04-4	Methyl tert-butyl ether	8.71		1.0	0.18
75-34-3	1,1-Dichloroethane	9.19		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	9.25		1.0	0.24
74-97-5	Bromochloromethane	8.70		1.0	0.18
78-93-3	2-Butanone (MEK)	18.4		5.0	0.55
67-66-3	Chloroform	9.28		1.0	0.17
71-55-6	1,1,1-Trichloroethane	8.32		1.0	0.29
56-23-5	Carbon tetrachloride	8.41		1.0	0.14
71-43-2	Benzene	9.36		1.0	0.11
107-06-2	1,2-Dichloroethane	8.99		1.0	0.21
79-01-6	Trichloroethene	9.49		1.0	0.14
78-87-5	1,2-Dichloropropane	9.21		1.0	0.095
75-27-4	Bromodichloromethane	9.03		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	8.43		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	17.1		5.0	0.53
108-88-3	Toluene	9.64		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	8.08		1.0	0.15
79-00-5	1,1,2-Trichloroethane	9.38		1.0	0.20
127-18-4	Tetrachloroethene	9.39		1.0	0.15
591-78-6	2-Hexanone	16.3		5.0	0.16
124-48-1	Dibromochloromethane	8.89		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	9.30		1.0	0.18
108-90-7	Chlorobenzene	9.41		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	8.83		1.0	0.28
100-41-4	Ethylbenzene	9.42		1.0	0.23
1330-20-7	Xylenes, Total	18.5		3.0	0.49
100-42-5	Styrene	9.10		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 180-134740/6
 Matrix: Water Lab File ID: 50304006.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/04/2015 13:44
 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.: 134740 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	8.61		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	9.42		1.0	0.20
107-13-1	Acrylonitrile	93.6		20	0.55
123-91-1	1,4-Dioxane	194	J	200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		64-135
2037-26-5	Toluene-d8 (Surr)	100		71-118
460-00-4	4-Bromofluorobenzene (Surr)	92		70-118
1868-53-7	Dibromofluoromethane (Surr)	94		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304006.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 04-Mar-2015 13:44:30 ALS Bottle#: 6 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 180-0005893-006
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\MMSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 04-Mar-2015 14:14:43 Calib Date: 03-Mar-2015 18:29:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303018.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: fergusond

Date: 04-Mar-2015 14:14:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.316	4.320	-0.004	99	148016	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.279	7.277	0.002	99	435167	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.369	10.367	0.002	99	104133	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.687	12.691	-0.004	98	142992	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.531	6.528	0.003	94	87841	50.0	47.1	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.902	6.900	0.002	98	111416	50.0	48.4	
\$ 7 Toluene-d8 (Surr)	98	8.928	8.925	0.003	100	404508	50.0	49.8	
\$ 8 4-Bromofluorobenzene (Surr	95	11.531	11.535	-0.004	98	139306	50.0	46.1	
11 Dichlorodifluoromethane	85	1.615	1.619	-0.004	99	80434	50.0	36.8	
12 Chloromethane	50	1.774	1.777	-0.003	100	152288	50.0	43.6	
13 Vinyl chloride	62	1.907	1.905	0.002	99	144233	50.0	42.9	
14 Butadiene	39	1.950	1.948	0.002	99	164050	50.0	42.1	
15 Bromomethane	94	2.254	2.252	0.002	94	50918	50.0	50.2	
16 Chloroethane	64	2.382	2.373	0.009	99	65243	50.0	47.8	
17 Dichlorofluoromethane	67	2.650	2.647	0.003	99	148100	50.0	47.3	
18 Trichlorofluoromethane	101	2.710	2.714	-0.004	96	119371	50.0	45.6	
20 Ethyl ether	59	3.094	3.091	0.003	98	115643	50.0	45.8	
21 Acrolein	56	3.270	3.256	0.014	99	50676	150.0	152.0	
22 1,1-Dichloroethene	96	3.386	3.371	0.015	99	113923	50.0	45.0	
23 1,1,2-Trichloro-1,2,2-trif	101	3.428	3.426	0.002	98	109776	50.0	42.9	
24 Acetone	43	3.501	3.493	0.008	100	75592	100.0	82.7	
25 Iodomethane	142	3.593	3.584	0.008	97	165656	50.0	46.5	
26 Carbon disulfide	76	3.659	3.651	0.008	100	243849	50.0	39.1	
28 3-Chloro-1-propene	76	3.939	3.931	0.008	99	62749	50.0	39.7	
30 Methyl acetate	43	4.018	4.016	0.002	100	540122	250.0	214.9	
31 Methylene Chloride	84	4.152	4.144	0.008	98	130494	50.0	45.9	
32 2-Methyl-2-propanol	59	4.456	4.442	0.014	98	64754	500.0	365.1	
33 Acrylonitrile	53	4.560	4.551	0.009	100	583101	500.0	467.9	
34 trans-1,2-Dichloroethene	96	4.572	4.570	0.002	60	124593	50.0	47.0	
35 Methyl tert-butyl ether	73	4.608	4.600	0.008	100	288208	50.0	43.5	
36 Hexane	57	4.986	4.983	0.003	98	207757	50.0	44.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.174	5.172	0.002	99	231940	50.0	45.9	
38 Vinyl acetate	43	5.302	5.294	0.008	100	90025	50.0	52.2	
44 2,2-Dichloropropane	77	5.929	5.926	0.003	90	66727	50.0	35.7	
45 cis-1,2-Dichloroethene	96	5.947	5.938	0.009	97	131045	50.0	46.3	
46 2-Butanone (MEK)	43	5.989	5.987	0.002	100	136777	100.0	91.8	
49 Chlorobromomethane	128	6.233	6.230	0.003	99	51344	50.0	43.5	
51 Tetrahydrofuran	42	6.287	6.291	-0.004	99	98333	100.0	92.8	
52 Chloroform	83	6.348	6.340	0.008	97	186808	50.0	46.4	
53 1,1,1-Trichloroethane	97	6.531	6.528	0.003	95	113773	50.0	41.6	
54 Cyclohexane	56	6.586	6.583	0.003	99	271968	50.0	44.3	
56 Carbon tetrachloride	117	6.719	6.717	0.002	64	78000	50.0	42.1	
55 1,1-Dichloropropene	75	6.732	6.723	0.009	96	169119	50.0	48.5	
57 Isobutyl alcohol	41	6.951	6.942	0.009	35	47700	1250.0	798.6	
58 Benzene	78	6.963	6.954	0.009	99	514652	50.0	46.8	
59 1,2-Dichloroethane	62	6.987	6.991	-0.004	100	142768	50.0	45.0	
62 n-Heptane	43	7.285	7.277	0.008	81	193270	50.0	45.2	
64 Trichloroethene	130	7.668	7.666	0.002	98	122833	50.0	47.4	
66 Methylcyclohexane	83	7.869	7.867	0.002	99	220475	50.0	45.1	
67 1,2-Dichloropropane	63	7.906	7.909	-0.003	99	133000	50.0	46.1	
68 Dibromomethane	93	8.027	8.031	-0.004	97	61431	50.0	47.1	
70 1,4-Dioxane	88	8.070	8.061	0.009	91	24939	1000.0	969.2	M
71 Dichlorobromomethane	83	8.198	8.201	-0.003	99	109699	50.0	45.1	
74 cis-1,3-Dichloropropene	75	8.660	8.658	0.002	100	135600	50.0	42.1	
75 4-Methyl-2-pentanone (MIBK)	43	8.824	8.828	-0.004	99	269085	100.0	85.6	
76 Toluene	91	8.995	8.992	0.003	100	518161	50.0	48.2	
77 trans-1,3-Dichloropropene	75	9.226	9.217	0.009	98	91511	50.0	40.4	
78 Ethyl methacrylate	69	9.323	9.321	0.002	100	96928	50.0	38.0	
79 1,1,2-Trichloroethane	97	9.402	9.400	0.002	99	92051	50.0	46.9	
80 Tetrachloroethene	164	9.542	9.540	0.002	98	93164	50.0	47.0	
81 1,3-Dichloropropane	76	9.566	9.570	-0.004	99	170231	50.0	46.1	
82 2-Hexanone	43	9.664	9.661	0.003	99	178525	100.0	81.3	
84 Chlorodibromomethane	129	9.798	9.795	0.003	98	57417	50.0	44.5	
85 Ethylene Dibromide	107	9.907	9.899	0.008	100	87949	50.0	46.5	
86 3-Chlorobenzotrifluoride	180	10.376	10.373	0.003	94	193882	50.0	58.8	
87 Chlorobenzene	112	10.394	10.391	0.003	99	323713	50.0	47.0	
88 4-Chlorobenzotrifluoride	180	10.436	10.434	0.002	99	181403	50.0	57.6	
89 1,1,1,2-Tetrachloroethane	131	10.479	10.477	0.002	98	70059	50.0	44.1	
90 Ethylbenzene	106	10.503	10.501	0.002	100	187390	50.0	47.1	
91 m-Xylene & p-Xylene	106	10.619	10.623	-0.004	100	226205	50.0	46.1	
92 o-Xylene	106	11.014	11.012	0.002	96	220568	50.0	46.4	
93 Styrene	104	11.026	11.030	-0.004	98	353937	50.0	45.5	
94 Bromoform	173	11.215	11.213	0.002	97	29354	50.0	43.0	
96 2-Chlorobenzotrifluoride	180	11.276	11.280	-0.004	100	190033	50.0	58.1	
97 Isopropylbenzene	105	11.379	11.383	-0.004	100	568340	50.0	48.7	
99 1,1,2,2-Tetrachloroethane	83	11.677	11.675	0.002	97	128194	50.0	47.1	
100 Bromobenzene	156	11.684	11.687	-0.003	99	119741	50.0	47.9	
101 1,2,3-Trichloropropane	110	11.720	11.724	-0.004	95	38530	50.0	46.0	
102 trans-1,4-Dichloro-2-buten	53	11.732	11.736	-0.004	87	35327	50.0	43.4	
103 N-Propylbenzene	120	11.793	11.791	0.002	100	161048	50.0	48.5	
104 2-Chlorotoluene	126	11.878	11.876	0.002	100	129708	50.0	47.3	
105 3-Chlorotoluene	126	11.939	11.937	0.002	99	158299	50.0	56.5	
106 1,3,5-Trimethylbenzene	105	11.963	11.967	-0.004	99	451701	50.0	49.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 4-Chlorotoluene	126	11.988	11.985	0.003	97	140215	50.0	47.4	
108 tert-Butylbenzene	119	12.292	12.289	0.003	98	385359	50.0	48.6	
110 1,2,4-Trimethylbenzene	105	12.341	12.338	0.003	100	451217	50.0	47.6	
111 1,2-dichloro-4-(trifluorom	214	12.401	12.405	-0.004	98	129958	50.0	60.7	
112 sec-Butylbenzene	105	12.511	12.509	0.003	100	569975	50.0	50.0	
113 1,3-Dichlorobenzene	146	12.620	12.624	-0.004	100	232585	50.0	47.1	
114 4-Isopropyltoluene	119	12.657	12.655	0.003	100	452454	50.0	48.4	
115 1,4-Dichlorobenzene	146	12.712	12.709	0.003	98	239381	50.0	48.2	
116 2,4-Dichloro-1-(trifluorom	214	12.760	12.764	-0.004	94	123809	50.0	60.9	
118 2,5-Dichlorobenzotrifluori	214	12.809	12.807	0.002	98	135203	50.0	61.0	
120 n-Butylbenzene	91	13.064	13.062	0.002	100	403038	50.0	48.5	
121 1,2-Dichlorobenzene	146	13.083	13.080	0.003	99	220054	50.0	48.7	
122 1,2-Dibromo-3-Chloropropan	75	13.861	13.865	-0.004	97	12560	50.0	42.2	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.007	14.011	-0.004	99	562631	150.0	182.5	
125 2,3- & 3,4- Dichlorotoluen	125	14.427	14.431	-0.004	99	371902	100.0	122.0	
126 1,2,4-Trichlorobenzene	180	14.695	14.692	0.003	99	109479	50.0	48.5	
127 Hexachlorobutadiene	225	14.865	14.863	0.002	95	48510	50.0	50.3	
128 Naphthalene	128	14.944	14.942	0.002	100	319409	50.0	48.7	
129 1,2,3-Trichlorobenzene	180	15.188	15.191	-0.003	99	92577	50.0	47.8	
131 2,4,5-Trichlorotoluene	159	15.966	15.970	-0.004	98	57809	50.0	59.0	
130 2,3,6-Trichlorotoluene	159	16.064	16.067	-0.003	98	56788	50.0	62.9	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
S 134 1,2-Dichloroethene, Total	96				0		100.0	93.3	
S 133 Xylenes, Total	106				0		100.0	92.5	
S 135 1,3-Dichloropropene, Total	1				0		100.0	82.5	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260VOA2ND_00104	Amount Added: 2.00	Units: uL	
voaWket2 Rest_00001	Amount Added: 2.00	Units: uL	
VOAEE2ND_00001	Amount Added: 2.00	Units: uL	
VOAVA2ND_00002	Amount Added: 2.00	Units: uL	
VOAACRO2ND_00005	Amount Added: 6.00	Units: uL	
VOA8260INT_00029	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00031	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304006.D

Injection Date: 04-Mar-2015 13:44:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: LCS

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

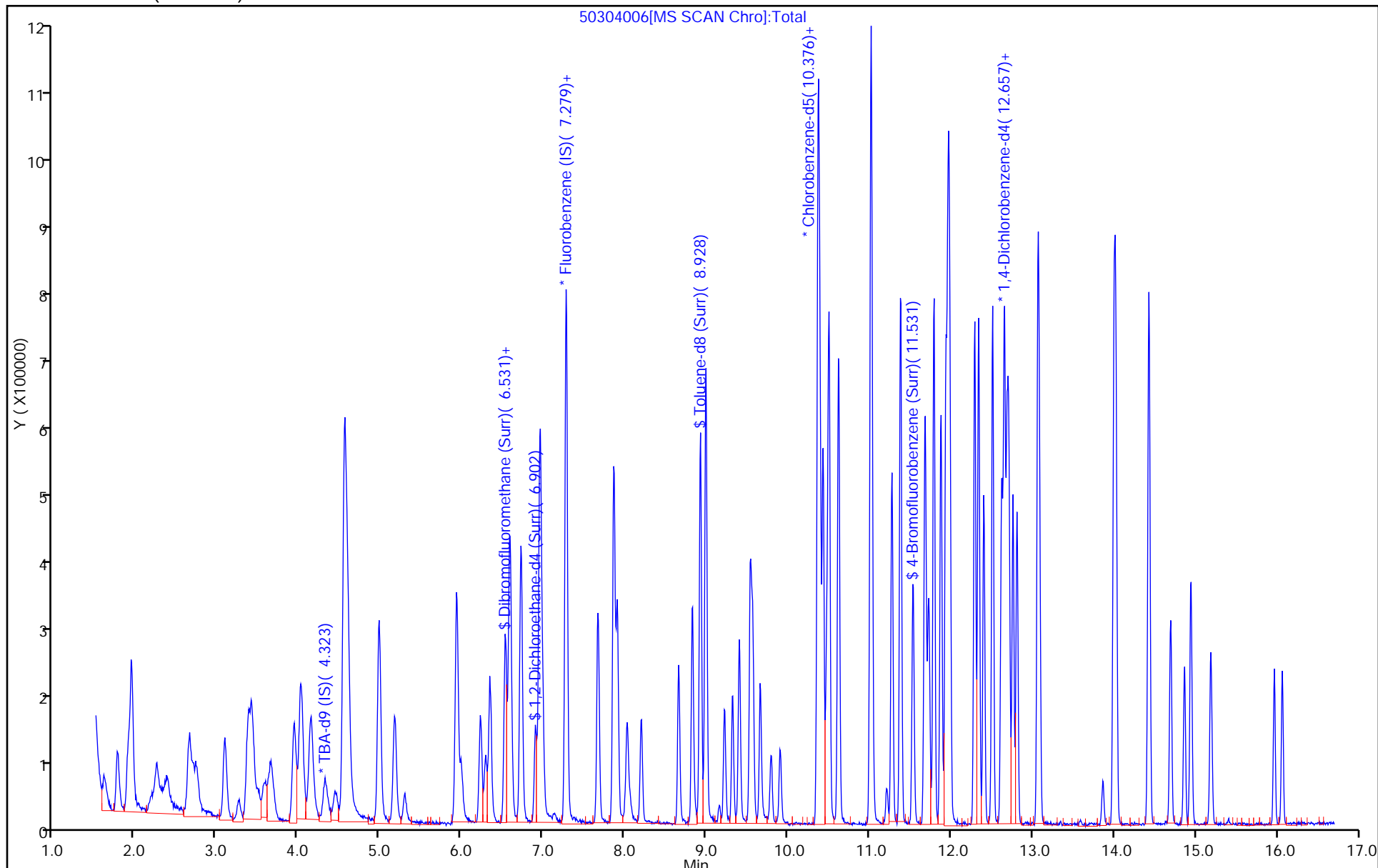
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



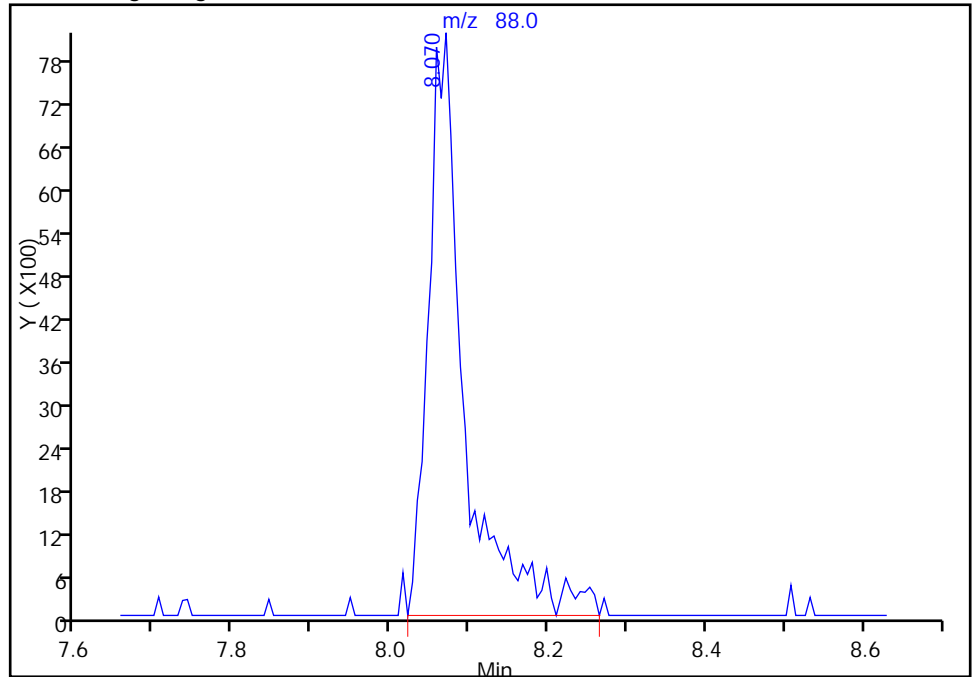
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304006.D
Injection Date: 04-Mar-2015 13:44:30 Instrument ID: CHHP5
Lims ID: LCS
Client ID:
Operator ID: 001562 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

70 1,4-Dioxane, CAS: 123-91-1

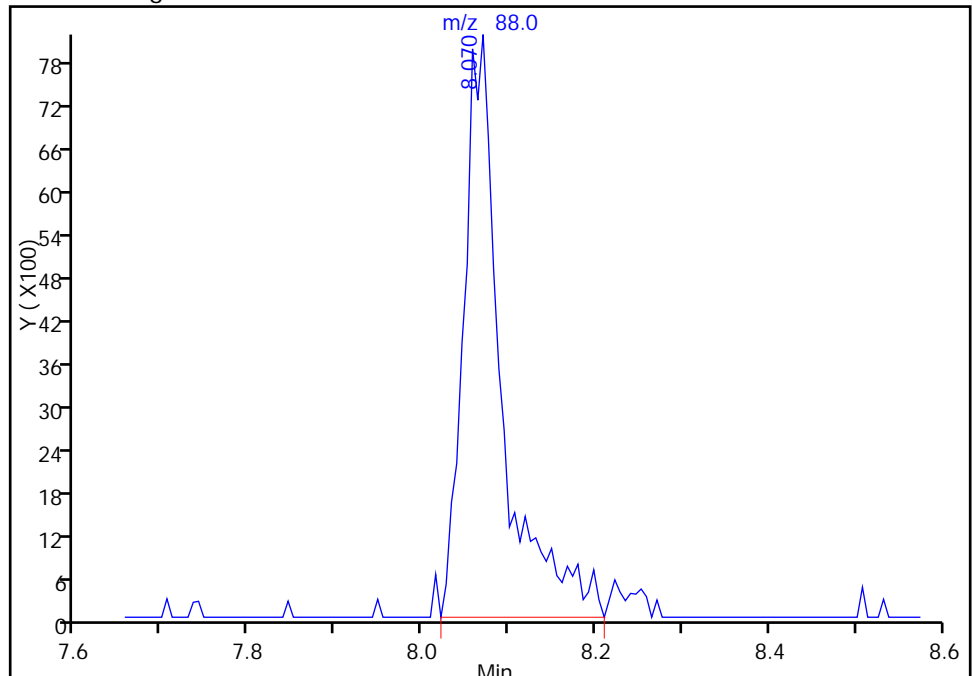
RT: 8.07
Area: 25922
Amount: 1007.3678
Amount Units: ng

Processing Integration Results



RT: 8.07
Area: 24939
Amount: 969.1669
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 04-Mar-2015 14:14:43
Audit Action: Manually Integrated
Audit Reason: Peak Tail

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Client Sample ID: HD-MW-175-0/1-0 MS Lab Sample ID: 180-41696-1 MS
 Matrix: Water Lab File ID: 50304007.D
 Analysis Method: 8260C Date Collected: 03/02/2015 15:25
 Sample wt/vol: 5(mL) Date Analyzed: 03/04/2015 14:08
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 134740 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	8.18		1.0	0.28
75-01-4	Vinyl chloride	8.47		1.0	0.23
74-83-9	Bromomethane	8.26		1.0	0.31
75-00-3	Chloroethane	8.75		1.0	0.21
75-35-4	1,1-Dichloroethene	8.14		1.0	0.30
67-64-1	Acetone	20.6		5.0	2.5
75-15-0	Carbon disulfide	7.50		1.0	0.21
75-09-2	Methylene Chloride	8.92		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	8.94		1.0	0.17
1634-04-4	Methyl tert-butyl ether	8.55		1.0	0.18
75-34-3	1,1-Dichloroethane	8.81		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	8.51		1.0	0.24
74-97-5	Bromochloromethane	8.88		1.0	0.18
78-93-3	2-Butanone (MEK)	18.1		5.0	0.55
67-66-3	Chloroform	10.6		1.0	0.17
71-55-6	1,1,1-Trichloroethane	8.11		1.0	0.29
56-23-5	Carbon tetrachloride	8.33		1.0	0.14
71-43-2	Benzene	9.00		1.0	0.11
107-06-2	1,2-Dichloroethane	8.83		1.0	0.21
79-01-6	Trichloroethene	8.80		1.0	0.14
78-87-5	1,2-Dichloropropane	8.92		1.0	0.095
75-27-4	Bromodichloromethane	8.81		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	8.27		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	17.3		5.0	0.53
108-88-3	Toluene	9.71		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	8.42		1.0	0.15
79-00-5	1,1,2-Trichloroethane	9.37		1.0	0.20
127-18-4	Tetrachloroethene	9.43		1.0	0.15
591-78-6	2-Hexanone	17.1		5.0	0.16
124-48-1	Dibromochloromethane	9.18		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	9.34		1.0	0.18
108-90-7	Chlorobenzene	9.37		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	8.77		1.0	0.28
100-41-4	Ethylbenzene	9.53		1.0	0.23
1330-20-7	Xylenes, Total	18.9		3.0	0.49
100-42-5	Styrene	9.20		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Client Sample ID: HD-MW-175-0/1-0 MS Lab Sample ID: 180-41696-1 MS
 Matrix: Water Lab File ID: 50304007.D
 Analysis Method: 8260C Date Collected: 03/02/2015 15:25
 Sample wt/vol: 5(mL) Date Analyzed: 03/04/2015 14:08
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 134740 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	8.75		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	9.69		1.0	0.20
107-13-1	Acrylonitrile	90.9		20	0.55
123-91-1	1,4-Dioxane	199	J	200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		64-135
2037-26-5	Toluene-d8 (Surr)	105		71-118
460-00-4	4-Bromofluorobenzene (Surr)	94		70-118
1868-53-7	Dibromofluoromethane (Surr)	94		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304007.D
 Lims ID: 180-41696-B-1 MS
 Client ID:
 Sample Type: MS
 Inject. Date: 04-Mar-2015 14:08:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-41696-B-1 MS
 Misc. Info.: 180-0005893-007
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 04-Mar-2015 14:31:28 Calib Date: 03-Mar-2015 18:29:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303018.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: fergusond

Date: 04-Mar-2015 14:31:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.324	4.320	0.004	96	143802	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.275	7.277	-0.003	99	459555	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.365	10.367	-0.002	98	106145	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.689	12.691	-0.002	97	152929	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.532	6.528	0.004	95	92216	50.0	46.9	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.903	6.900	0.003	99	111382	50.0	45.8	
\$ 7 Toluene-d8 (Surr)	98	8.923	8.925	-0.002	100	434300	50.0	52.5	
\$ 8 4-Bromofluorobenzene (Surr	95	11.533	11.535	-0.002	96	145186	50.0	47.2	
11 Dichlorodifluoromethane	85	1.623	1.619	0.004	100	83788	50.0	36.3	
12 Chloromethane	50	1.781	1.777	0.004	100	150917	50.0	40.9	
13 Vinyl chloride	62	1.909	1.905	0.004	99	150284	50.0	42.4	
14 Butadiene	39	1.951	1.948	0.003	97	165926	50.0	40.3	
15 Bromomethane	94	2.256	2.252	0.004	93	45113	50.0	41.3	
16 Chloroethane	64	2.389	2.373	0.016	98	63126	50.0	43.8	
17 Dichlorofluoromethane	67	2.657	2.647	0.010	99	148662	50.0	44.9	
18 Trichlorofluoromethane	101	2.712	2.714	-0.002	97	118790	50.0	43.0	
20 Ethyl ether	59	3.089	3.091	-0.002	98	117402	50.0	44.0	
21 Acrolein	56	3.266	3.256	0.010	100	53003	150.0	150.6	
22 1,1-Dichloroethene	96	3.375	3.371	0.004	99	108851	50.0	40.7	
23 1,1,2-Trichloro-1,2,2-trif	101	3.436	3.426	0.010	97	113118	50.0	41.8	
24 Acetone	43	3.503	3.493	0.010	100	99399	100.0	103.0	
25 Iodomethane	142	3.576	3.584	-0.008	97	163923	50.0	43.5	
26 Carbon disulfide	76	3.649	3.651	-0.002	100	246935	50.0	37.5	
28 3-Chloro-1-propene	76	3.941	3.931	0.010	100	60508	50.0	36.2	
30 Methyl acetate	43	4.020	4.016	0.004	100	579265	250.0	218.2	
31 Methylene Chloride	84	4.142	4.144	-0.002	98	134100	50.0	44.6	
32 2-Methyl-2-propanol	59	4.440	4.442	-0.002	97	74891	500.0	434.6	
33 Acrylonitrile	53	4.555	4.551	0.004	100	598397	500.0	454.7	
34 trans-1,2-Dichloroethene	96	4.561	4.570	-0.009	97	125091	50.0	44.7	
35 Methyl tert-butyl ether	73	4.598	4.600	-0.002	100	298922	50.0	42.8	
36 Hexane	57	4.987	4.983	0.004	99	210494	50.0	42.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.170	5.172	-0.002	100	234833	50.0	44.0	
38 Vinyl acetate	43	5.297	5.294	0.003	100	93930	50.0	51.6	
44 2,2-Dichloropropane	77	5.930	5.926	0.004	60	68433	50.0	34.7	
45 cis-1,2-Dichloroethene	96	5.936	5.938	-0.002	94	127271	50.0	42.5	
46 2-Butanone (MEK)	43	5.991	5.987	0.004	100	142295	100.0	90.5	
49 Chlorobromomethane	128	6.234	6.230	0.004	99	55330	50.0	44.4	
51 Tetrahydrofuran	42	6.289	6.291	-0.002	99	99981	100.0	89.3	
52 Chloroform	83	6.344	6.340	0.004	96	224436	50.0	52.8	
53 1,1,1-Trichloroethane	97	6.538	6.528	0.010	96	117089	50.0	40.6	
54 Cyclohexane	56	6.587	6.583	0.004	98	275937	50.0	42.6	
56 Carbon tetrachloride	117	6.721	6.717	0.004	65	81556	50.0	41.7	
55 1,1-Dichloropropene	75	6.727	6.723	0.004	98	171675	50.0	46.6	
57 Isobutyl alcohol	41	6.952	6.942	0.010	36	60318	1250.0	956.3	
58 Benzene	78	6.958	6.954	0.004	99	522268	50.0	45.0	
59 1,2-Dichloroethane	62	6.989	6.991	-0.002	100	147995	50.0	44.1	
62 n-Heptane	43	7.281	7.277	0.004	80	192398	50.0	42.6	
64 Trichloroethene	130	7.670	7.666	0.004	99	120288	50.0	44.0	
66 Methylcyclohexane	83	7.865	7.867	-0.002	98	215981	50.0	41.8	
67 1,2-Dichloropropane	63	7.907	7.909	-0.002	98	136035	50.0	44.6	
68 Dibromomethane	93	8.023	8.031	-0.008	98	62858	50.0	45.7	
70 1,4-Dioxane	88	8.059	8.061	-0.002	96	27002	1000.0	993.7	M
71 Dichlorobromomethane	83	8.199	8.201	-0.002	99	113107	50.0	44.1	
74 cis-1,3-Dichloropropene	75	8.662	8.658	0.004	99	140474	50.0	41.3	
75 4-Methyl-2-pentanone (MIBK)	43	8.826	8.828	-0.002	99	276773	100.0	86.4	
76 Toluene	91	8.996	8.992	0.004	99	532064	50.0	48.6	
77 trans-1,3-Dichloropropene	75	9.221	9.217	0.004	97	97283	50.0	42.1	
78 Ethyl methacrylate	69	9.325	9.321	0.004	99	105878	50.0	40.8	
79 1,1,2-Trichloroethane	97	9.404	9.400	0.004	98	93782	50.0	46.9	
80 Tetrachloroethene	164	9.538	9.540	-0.002	99	95336	50.0	47.2	
81 1,3-Dichloropropane	76	9.568	9.570	-0.002	100	173921	50.0	46.2	
82 2-Hexanone	43	9.659	9.661	-0.002	99	191044	100.0	85.4	
84 Chlorodibromomethane	129	9.793	9.795	-0.002	99	60394	50.0	45.9	
85 Ethylene Dibromide	107	9.903	9.899	0.004	100	90008	50.0	46.7	
86 3-Chlorobenzotrifluoride	180	10.377	10.373	0.004	97	197314	50.0	58.7	
87 Chlorobenzene	112	10.395	10.391	0.004	100	328734	50.0	46.9	
88 4-Chlorobenzotrifluoride	180	10.432	10.434	-0.002	100	188813	50.0	58.8	
89 1,1,1,2-Tetrachloroethane	131	10.480	10.477	0.003	97	70921	50.0	43.8	
90 Ethylbenzene	106	10.505	10.501	0.004	100	193361	50.0	47.7	
91 m-Xylene & p-Xylene	106	10.620	10.623	-0.003	100	235120	50.0	47.0	
92 o-Xylene	106	11.016	11.012	0.004	96	230402	50.0	47.5	
93 Styrene	104	11.028	11.030	-0.002	99	364611	50.0	46.0	
94 Bromoform	173	11.217	11.213	0.004	98	30404	50.0	43.7	
96 2-Chlorobenzotrifluoride	180	11.277	11.280	-0.003	99	193638	50.0	58.1	
97 Isopropylbenzene	105	11.381	11.383	-0.002	100	568674	50.0	47.8	
99 1,1,2,2-Tetrachloroethane	83	11.673	11.675	-0.002	97	134402	50.0	48.4	
100 Bromobenzene	156	11.685	11.687	-0.002	99	124674	50.0	46.7	
101 1,2,3-Trichloropropane	110	11.715	11.724	-0.009	96	39747	50.0	44.4	
102 trans-1,4-Dichloro-2-buten	53	11.734	11.736	-0.002	87	38215	50.0	43.9	
103 N-Propylbenzene	120	11.788	11.791	-0.003	100	160177	50.0	45.1	
104 2-Chlorotoluene	126	11.880	11.876	0.004	98	130647	50.0	44.6	
105 3-Chlorotoluene	126	11.934	11.937	-0.003	99	162837	50.0	54.4	
106 1,3,5-Trimethylbenzene	105	11.965	11.967	-0.002	100	464725	50.0	47.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 4-Chlorotoluene	126	11.983	11.985	-0.002	98	154353	50.0	48.8	
108 tert-Butylbenzene	119	12.293	12.289	0.004	100	393497	50.0	46.4	
110 1,2,4-Trimethylbenzene	105	12.336	12.338	-0.002	97	466373	50.0	46.0	
111 1,2-dichloro-4-(trifluorom	214	12.403	12.405	-0.002	99	129412	50.0	56.6	
112 sec-Butylbenzene	105	12.512	12.509	0.004	100	573177	50.0	47.0	
113 1,3-Dichlorobenzene	146	12.622	12.624	-0.002	99	241705	50.0	45.8	
114 4-Isopropyltoluene	119	12.652	12.655	-0.002	100	457116	50.0	45.7	
115 1,4-Dichlorobenzene	146	12.707	12.709	-0.002	99	246677	50.0	46.4	
116 2,4-Dichloro-1-(trifluorom	214	12.762	12.764	-0.002	95	127760	50.0	58.7	
118 2,5-Dichlorobenzotrifluori	214	12.810	12.807	0.003	98	137027	50.0	57.8	
120 n-Butylbenzene	91	13.060	13.062	-0.002	100	401023	50.0	45.1	
121 1,2-Dichlorobenzene	146	13.084	13.080	0.004	99	222973	50.0	46.2	
122 1,2-Dibromo-3-Chloropropan	75	13.863	13.865	-0.002	96	13672	50.0	43.0	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.009	14.011	-0.002	100	570861	150.0	173.1	
125 2,3- & 3,4- Dichlorotoluen	125	14.423	14.431	-0.008	100	377439	100.0	115.7	
126 1,2,4-Trichlorobenzene	180	14.696	14.692	0.004	98	109476	50.0	45.3	
127 Hexachlorobutadiene	225	14.867	14.863	0.004	96	49506	50.0	48.0	
128 Naphthalene	128	14.940	14.942	-0.002	100	328521	50.0	46.9	
129 1,2,3-Trichlorobenzene	180	15.183	15.191	-0.008	99	94882	50.0	45.8	
131 2,4,5-Trichlorotoluene	159	15.962	15.970	-0.008	98	58632	50.0	56.0	
130 2,3,6-Trichlorotoluene	159	16.065	16.067	-0.002	97	53568	50.0	55.5	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		100.0	94.6	
S 134 1,2-Dichloroethene, Total	96				0		100.0	87.2	
S 135 1,3-Dichloropropene, Total	1				0		100.0	83.4	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260VOA2ND_00104	Amount Added: 2.00	Units: uL	
voaWket2 Rest_00001	Amount Added: 2.00	Units: uL	
VOAEE2ND_00001	Amount Added: 2.00	Units: uL	
VOAVA2ND_00002	Amount Added: 2.00	Units: uL	
VOAACRO2ND_00005	Amount Added: 6.00	Units: uL	
VOA8260INT_00029	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00031	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304007.D

Injection Date: 04-Mar-2015 14:08:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: 180-41696-B-1 MS

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

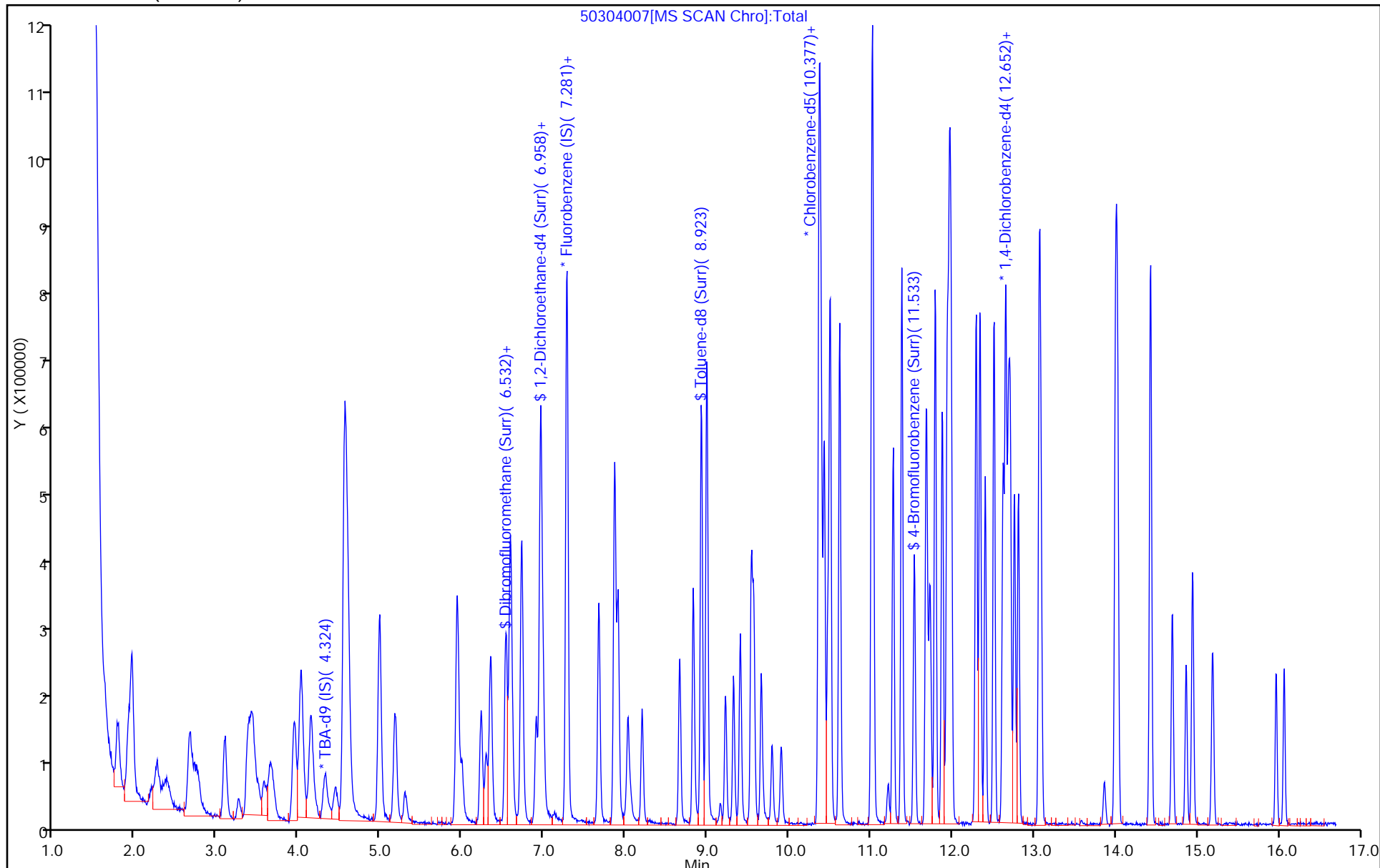
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



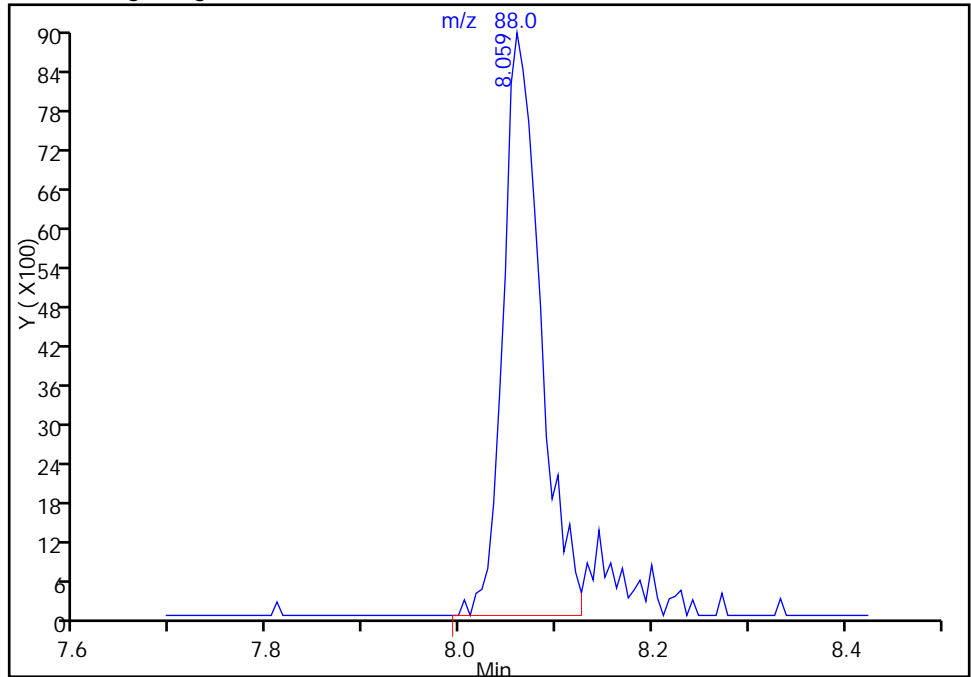
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304007.D
Injection Date: 04-Mar-2015 14:08:30 Instrument ID: CHHP5
Lims ID: 180-41696-B-1 MS
Client ID:
Operator ID: 001562 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

70 1,4-Dioxane, CAS: 123-91-1

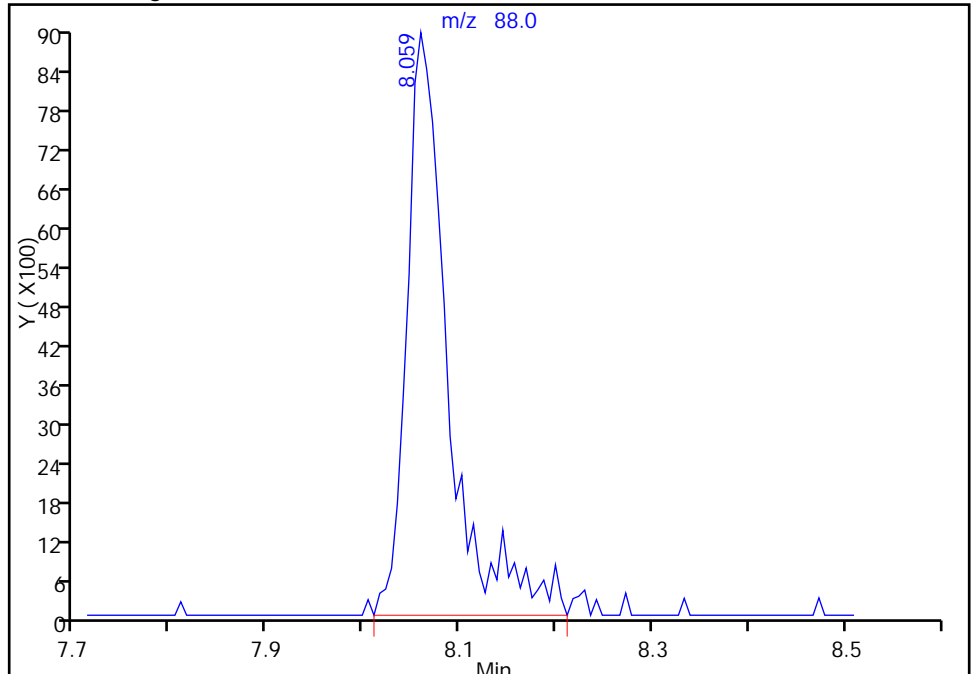
RT: 8.06
Area: 24285
Amount: 893.6678
Amount Units: ng

Processing Integration Results



RT: 8.06
Area: 27002
Amount: 993.6512
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 04-Mar-2015 14:31:28
Audit Action: Manually Integrated
Audit Reason: Peak Tail

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Client Sample ID: HD-MW-175-0/1-0 MSD Lab Sample ID: 180-41696-1 MSD
 Matrix: Water Lab File ID: 50304008.D
 Analysis Method: 8260C Date Collected: 03/02/2015 15:25
 Sample wt/vol: 5(mL) Date Analyzed: 03/04/2015 14:32
 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.: 134740 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	8.46		1.0	0.28
75-01-4	Vinyl chloride	8.31		1.0	0.23
74-83-9	Bromomethane	9.35		1.0	0.31
75-00-3	Chloroethane	9.38		1.0	0.21
75-35-4	1,1-Dichloroethene	8.77		1.0	0.30
67-64-1	Acetone	20.9		5.0	2.5
75-15-0	Carbon disulfide	7.61		1.0	0.21
75-09-2	Methylene Chloride	9.15		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	9.10		1.0	0.17
1634-04-4	Methyl tert-butyl ether	8.91		1.0	0.18
75-34-3	1,1-Dichloroethane	9.01		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	9.03		1.0	0.24
74-97-5	Bromochloromethane	9.16		1.0	0.18
78-93-3	2-Butanone (MEK)	20.3		5.0	0.55
67-66-3	Chloroform	11.0		1.0	0.17
71-55-6	1,1,1-Trichloroethane	8.72		1.0	0.29
56-23-5	Carbon tetrachloride	8.62		1.0	0.14
71-43-2	Benzene	9.23		1.0	0.11
107-06-2	1,2-Dichloroethane	9.06		1.0	0.21
79-01-6	Trichloroethene	9.11		1.0	0.14
78-87-5	1,2-Dichloropropane	9.21		1.0	0.095
75-27-4	Bromodichloromethane	9.53		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	8.64		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	18.2		5.0	0.53
108-88-3	Toluene	9.86		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	9.17		1.0	0.15
79-00-5	1,1,2-Trichloroethane	9.59		1.0	0.20
127-18-4	Tetrachloroethene	9.46		1.0	0.15
591-78-6	2-Hexanone	17.0		5.0	0.16
124-48-1	Dibromochloromethane	9.50		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	9.53		1.0	0.18
108-90-7	Chlorobenzene	9.67		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	9.19		1.0	0.28
100-41-4	Ethylbenzene	9.34		1.0	0.23
1330-20-7	Xylenes, Total	19.1		3.0	0.49
100-42-5	Styrene	9.39		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1
 SDG No.: _____
 Client Sample ID: HD-MW-175-0/1-0 MSD Lab Sample ID: 180-41696-1 MSD
 Matrix: Water Lab File ID: 50304008.D
 Analysis Method: 8260C Date Collected: 03/02/2015 15:25
 Sample wt/vol: 5(mL) Date Analyzed: 03/04/2015 14:32
 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.: 134740 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	9.05		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	9.83		1.0	0.20
107-13-1	Acrylonitrile	95.0		20	0.55
123-91-1	1,4-Dioxane	210		200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		64-135
2037-26-5	Toluene-d8 (Surr)	102		71-118
460-00-4	4-Bromofluorobenzene (Surr)	95		70-118
1868-53-7	Dibromofluoromethane (Surr)	94		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304008.D
 Lims ID: 180-41696-C-1 MSD
 Client ID:
 Sample Type: MSD
 Inject. Date: 04-Mar-2015 14:32:30 ALS Bottle#: 8 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-41696-C-1 MSD
 Misc. Info.: 180-0005893-008
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 04-Mar-2015 15:26:36 Calib Date: 03-Mar-2015 18:29:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150303-5873.b\50303018.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: fergusond

Date: 04-Mar-2015 15:27:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.320	4.320	0.000	97	147907	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.276	7.277	-0.001	99	444935	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.367	10.367	0.000	99	105078	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.685	12.691	-0.006	97	150995	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.528	6.528	0.000	97	89896	50.0	47.2	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.905	6.900	0.005	100	113414	50.0	48.2	
\$ 7 Toluene-d8 (Surr)	98	8.925	8.925	0.000	100	418282	50.0	51.1	
\$ 8 4-Bromofluorobenzene (Surr	95	11.535	11.535	0.000	97	145077	50.0	47.6	
11 Dichlorodifluoromethane	85	1.631	1.619	0.012	100	80381	50.0	36.0	
12 Chloromethane	50	1.777	1.777	0.000	100	151073	50.0	42.3	
13 Vinyl chloride	62	1.905	1.905	0.000	100	142674	50.0	41.5	
14 Butadiene	39	1.953	1.948	0.005	99	168402	50.0	42.3	
15 Bromomethane	94	2.258	2.252	0.006	95	48804	50.0	46.7	
16 Chloroethane	64	2.397	2.373	0.024	97	65487	50.0	46.9	
17 Dichlorofluoromethane	67	2.653	2.647	0.006	98	148679	50.0	46.4	
18 Trichlorofluoromethane	101	2.708	2.714	-0.006	99	125699	50.0	47.0	
20 Ethyl ether	59	3.097	3.091	0.006	99	122419	50.0	47.4	
21 Acrolein	56	3.261	3.256	0.005	98	48760	150.0	143.1	
22 1,1-Dichloroethene	96	3.371	3.371	0.000	98	113530	50.0	43.8	
23 1,1,2-Trichloro-1,2,2-trif	101	3.432	3.426	0.006	99	111706	50.0	42.7	
24 Acetone	43	3.511	3.493	0.018	100	97444	100.0	104.3	
25 Iodomethane	142	3.578	3.584	-0.006	98	167743	50.0	46.0	
26 Carbon disulfide	76	3.663	3.651	0.012	100	242615	50.0	38.0	
28 3-Chloro-1-propene	76	3.943	3.931	0.012	99	63255	50.0	39.1	
30 Methyl acetate	43	4.028	4.016	0.012	100	584827	250.0	227.6	
31 Methylene Chloride	84	4.149	4.144	0.005	100	132914	50.0	45.7	
32 2-Methyl-2-propanol	59	4.448	4.442	0.006	98	84084	500.0	474.4	
33 Acrylonitrile	53	4.551	4.551	0.000	99	605417	500.0	475.2	
34 trans-1,2-Dichloroethene	96	4.563	4.570	-0.007	97	123227	50.0	45.5	
35 Methyl tert-butyl ether	73	4.606	4.600	0.006	100	301332	50.0	44.5	
36 Hexane	57	4.989	4.983	0.006	99	210687	50.0	43.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.178	5.172	0.006	99	232644	50.0	45.1	
38 Vinyl acetate	43	5.299	5.294	0.005	100	93739	50.0	53.1	
44 2,2-Dichloropropane	77	5.932	5.926	0.006	61	71041	50.0	37.2	
45 cis-1,2-Dichloroethene	96	5.944	5.938	0.006	94	130759	50.0	45.1	
46 2-Butanone (MEK)	43	5.999	5.987	0.012	99	154748	100.0	101.6	
49 Chlorobromomethane	128	6.230	6.230	0.000	99	55275	50.0	45.8	
51 Tetrahydrofuran	42	6.285	6.291	-0.006	97	98897	100.0	91.3	
52 Chloroform	83	6.346	6.340	0.006	96	226095	50.0	54.9	
53 1,1,1-Trichloroethane	97	6.534	6.528	0.006	97	121911	50.0	43.6	
54 Cyclohexane	56	6.589	6.583	0.006	99	278887	50.0	44.5	
56 Carbon tetrachloride	117	6.729	6.717	0.012	92	81731	50.0	43.1	
55 1,1-Dichloropropene	75	6.729	6.723	0.006	98	172262	50.0	48.3	
57 Isobutyl alcohol	41	6.948	6.942	0.006	38	59289	1250.0	970.8	
58 Benzene	78	6.960	6.954	0.006	99	518711	50.0	46.2	
59 1,2-Dichloroethane	62	6.984	6.991	-0.007	99	147087	50.0	45.3	
62 n-Heptane	43	7.282	7.277	0.005	80	194227	50.0	44.5	
64 Trichloroethene	130	7.672	7.666	0.006	99	120600	50.0	45.6	
66 Methylcyclohexane	83	7.866	7.867	-0.001	99	223734	50.0	44.7	
67 1,2-Dichloropropane	63	7.903	7.909	-0.006	99	135965	50.0	46.1	
68 Dibromomethane	93	8.031	8.031	0.000	97	61324	50.0	46.0	
70 1,4-Dioxane	88	8.061	8.061	0.000	96	27568	1000.0	1047.8	
71 Dichlorobromomethane	83	8.201	8.201	0.000	99	118423	50.0	47.7	
74 cis-1,3-Dichloropropene	75	8.657	8.658	-0.001	99	142177	50.0	43.2	
75 4-Methyl-2-pentanone (MIBK)	43	8.828	8.828	0.000	99	288841	100.0	91.0	
76 Toluene	91	8.992	8.992	0.000	99	534597	50.0	49.3	
77 trans-1,3-Dichloropropene	75	9.223	9.217	0.006	96	104874	50.0	45.9	
78 Ethyl methacrylate	69	9.320	9.321	-0.001	99	111440	50.0	43.3	
79 1,1,2-Trichloroethane	97	9.406	9.400	0.006	98	95024	50.0	48.0	
80 Tetrachloroethene	164	9.539	9.540	-0.001	99	94632	50.0	47.3	
81 1,3-Dichloropropane	76	9.570	9.570	0.000	99	177347	50.0	47.6	
82 2-Hexanone	43	9.661	9.661	0.000	99	188394	100.0	85.1	
84 Chlorodibromomethane	129	9.795	9.795	0.000	99	61901	50.0	47.5	
85 Ethylene Dibromide	107	9.904	9.899	0.005	100	90947	50.0	47.7	
86 3-Chlorobenzotrifluoride	180	10.373	10.373	0.000	92	190772	50.0	57.3	
87 Chlorobenzene	112	10.391	10.391	0.000	99	335974	50.0	48.4	
88 4-Chlorobenzotrifluoride	180	10.428	10.434	-0.006	99	182724	50.0	57.5	
89 1,1,1,2-Tetrachloroethane	131	10.476	10.477	-0.001	96	73607	50.0	46.0	
90 Ethylbenzene	106	10.501	10.501	0.000	100	187593	50.0	46.7	
91 m-Xylene & p-Xylene	106	10.622	10.623	-0.001	100	238217	50.0	48.2	
92 o-Xylene	106	11.012	11.012	0.000	97	227947	50.0	47.5	
93 Styrene	104	11.024	11.030	-0.006	98	368468	50.0	46.9	
94 Bromoform	173	11.212	11.213	-0.001	97	31155	50.0	45.3	
96 2-Chlorobenzotrifluoride	180	11.279	11.280	-0.001	99	189709	50.0	57.5	
97 Isopropylbenzene	105	11.383	11.383	0.000	100	582718	50.0	49.4	
99 1,1,2,2-Tetrachloroethane	83	11.675	11.675	0.000	96	135021	50.0	49.2	
100 Bromobenzene	156	11.687	11.687	0.000	99	124760	50.0	47.3	
101 1,2,3-Trichloropropane	110	11.717	11.724	-0.007	97	41555	50.0	47.0	
102 trans-1,4-Dichloro-2-buten	53	11.736	11.736	0.000	97	37810	50.0	44.0	
103 N-Propylbenzene	120	11.790	11.791	-0.001	99	161106	50.0	46.0	
104 2-Chlorotoluene	126	11.875	11.876	-0.001	100	133231	50.0	46.0	
105 3-Chlorotoluene	126	11.936	11.937	-0.001	99	161389	50.0	54.6	
106 1,3,5-Trimethylbenzene	105	11.967	11.967	0.000	100	464358	50.0	47.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 4-Chlorotoluene	126	11.985	11.985	0.000	99	148194	50.0	47.5	
108 tert-Butylbenzene	119	12.289	12.289	0.000	98	389781	50.0	46.6	
110 1,2,4-Trimethylbenzene	105	12.338	12.338	0.000	99	465282	50.0	46.5	
111 1,2-dichloro-4-(trifluorom	214	12.405	12.405	0.000	99	128519	50.0	56.9	
112 sec-Butylbenzene	105	12.508	12.509	0.000	100	572585	50.0	47.5	
113 1,3-Dichlorobenzene	146	12.624	12.624	0.000	99	244998	50.0	47.0	
114 4-Isopropyltoluene	119	12.654	12.655	0.000	100	457761	50.0	46.4	
115 1,4-Dichlorobenzene	146	12.709	12.709	0.000	98	247809	50.0	47.2	
116 2,4-Dichloro-1-(trifluorom	214	12.764	12.764	0.000	95	117454	50.0	54.7	
118 2,5-Dichlorobenzotrifluori	214	12.806	12.807	-0.001	98	137647	50.0	58.8	
120 n-Butylbenzene	91	13.062	13.062	0.000	100	415407	50.0	47.3	
121 1,2-Dichlorobenzene	146	13.086	13.080	0.006	99	226177	50.0	47.4	
122 1,2-Dibromo-3-Chloropropan	75	13.859	13.865	-0.006	95	14238	50.0	45.3	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.011	14.011	0.000	100	574780	150.0	176.5	
125 2,3- & 3,4- Dichlorotoluen	125	14.424	14.431	-0.007	100	372661	100.0	115.7	
126 1,2,4-Trichlorobenzene	180	14.692	14.692	0.000	99	114291	50.0	47.9	
127 Hexachlorobutadiene	225	14.862	14.863	-0.001	97	47137	50.0	46.3	
128 Naphthalene	128	14.942	14.942	0.000	100	341483	50.0	49.4	
129 1,2,3-Trichlorobenzene	180	15.185	15.191	-0.006	99	95550	50.0	46.7	
131 2,4,5-Trichlorotoluene	159	15.964	15.970	-0.006	97	59895	50.0	57.9	
130 2,3,6-Trichlorotoluene	159	16.061	16.067	-0.006	98	54989	50.0	57.7	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
S 134 1,2-Dichloroethene, Total	96				0		100.0	90.6	
S 133 Xylenes, Total	106				0		100.0	95.6	
S 135 1,3-Dichloropropene, Total	1				0		100.0	89.1	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOAACRO2ND_00005	Amount Added: 6.00	Units: uL	
VOA8260VOA2ND_00104	Amount Added: 2.00	Units: uL	
voaWket2 Rest_00001	Amount Added: 2.00	Units: uL	
VOAEE2ND_00001	Amount Added: 2.00	Units: uL	
VOAVA2ND_00002	Amount Added: 2.00	Units: uL	
VOA8260INT_00029	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00031	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150304-5893.b\50304008.D

Injection Date: 04-Mar-2015 14:32:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: 180-41696-C-1 MSD

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

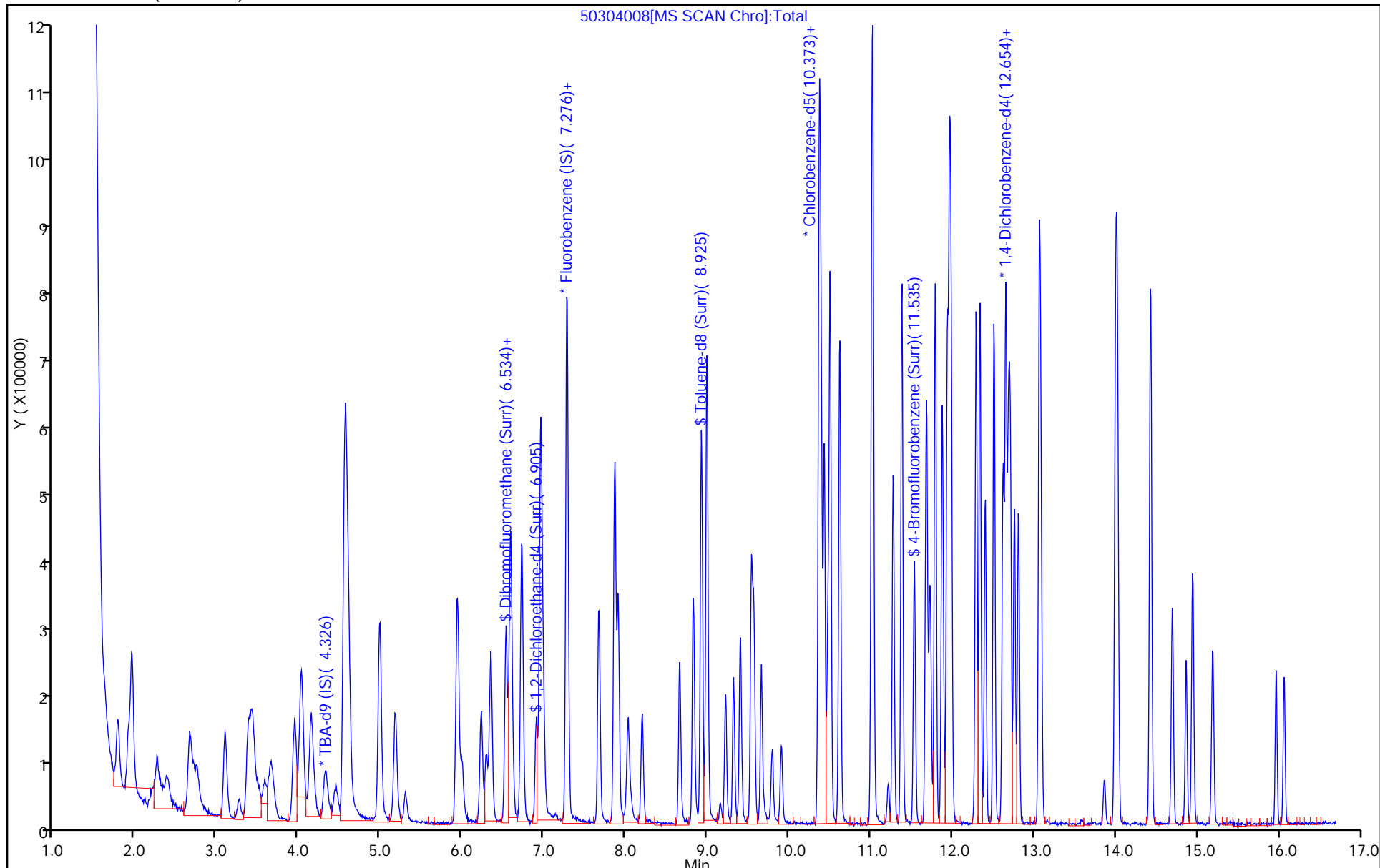
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1

SDG No.: _____

Instrument ID: CHHP5 Start Date: 03/03/2015 12:21

Analysis Batch Number: 134613 End Date: 03/03/2015 19:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-134613/6		03/03/2015 12:21	1	50303006.D	DB-624 0.18 (mm)
IC 180-134613/8		03/03/2015 14:28	1	50303008.D	DB-624 0.18 (mm)
ICIS 180-134613/9		03/03/2015 14:52	1	50303009.D	DB-624 0.18 (mm)
IC 180-134613/10		03/03/2015 15:16	1	50303010.D	DB-624 0.18 (mm)
IC 180-134613/11		03/03/2015 15:40	1	50303011.D	DB-624 0.18 (mm)
IC 180-134613/12		03/03/2015 16:04	1	50303012.D	DB-624 0.18 (mm)
IC 180-134613/13		03/03/2015 16:28	1	50303013.D	DB-624 0.18 (mm)
IC 180-134613/14		03/03/2015 16:52	1	50303014.D	DB-624 0.18 (mm)
IC 180-134613/18		03/03/2015 18:29	1	50303018.D	DB-624 0.18 (mm)
ICV 180-134613/20		03/03/2015 19:17	1		DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-41696-1

SDG No.: _____

Instrument ID: CHHP5 Start Date: 03/04/2015 11:01Analysis Batch Number: 134740 End Date: 03/04/2015 17:21

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-134740/1		03/04/2015 11:01	1	50304001.D	DB-624 0.18 (mm)
CCVIS 180-134740/2		03/04/2015 11:38	1	50304002.D	DB-624 0.18 (mm)
MB 180-134740/3		03/04/2015 12:17	1	50304003.D	DB-624 0.18 (mm)
180-41696-1	HD-MW-175-0/1-0	03/04/2015 12:56	1	50304004.D	DB-624 0.18 (mm)
180-41696-8	TRIP BLANK	03/04/2015 13:20	1	50304005.D	DB-624 0.18 (mm)
LCS 180-134740/6		03/04/2015 13:44	1	50304006.D	DB-624 0.18 (mm)
180-41696-1 MS	HD-MW-175-0/1-0 MS	03/04/2015 14:08	1	50304007.D	DB-624 0.18 (mm)
180-41696-1 MSD	HD-MW-175-0/1-0 MSD	03/04/2015 14:32	1	50304008.D	DB-624 0.18 (mm)
180-41696-2	HD-MW-172-0/1-0	03/04/2015 15:20	1	50304010.D	DB-624 0.18 (mm)
180-41696-3	HD-MW-173-0/1-0	03/04/2015 15:44	1	50304011.D	DB-624 0.18 (mm)
180-41696-4	HD-MW-174-0/1-0	03/04/2015 16:08	1	50304012.D	DB-624 0.18 (mm)
180-41696-5	HD-MW-166-0/1-0	03/04/2015 16:32	1	50304013.D	DB-624 0.18 (mm)
180-41696-6	HD-MW-167-0/1-0	03/04/2015 16:56	1	50304014.D	DB-624 0.18 (mm)
180-41696-7	HD-MW-171-0/1-0	03/04/2015 17:21	1	50304015.D	DB-624 0.18 (mm)

Shipping and Receiving Documents

4696

TestAmerica Pittsburgh
 301 Alpha Drive
 Pittsburgh, PA 15238
 phone 412.963.7058 fax 412.963.2470

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.
 COC No. TAP201503

Job No. 1001226
 Container No.
 SDG No.

Project Manager: Jennifer S. Reese
 Tel/Fax: 717-901-8181 / (717) 657-1611
 Analysis Turnaround Time
 Calendar (C) or Work Days (W) **24 hrs**
 TAT if different from Below Standard
 2 weeks
 1 week
 5 days
 1 day

Client Contact
 Groundwater Sciences Corporation
 2601 Market Place St. Suite 310
 Harrisburg, PA 17110
 (717) 901-8180 Phone
 (717) 657-1611 FAX
 Project Name: SPBA VI Water Sampling
 Site: Harley-Davidson, York PA
 Quote # 18000557

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Sample Specific Notes
HD-MW-175-0/1-0	3/2/15	1525	GW	W	3	
HD-MW-172-0/1-0	↓	1540	GW	W	3	
HD-MW-173-0/1-0	3/3/15	1100	GW	W	3	
HD-MW-174-0/1-0	↓	1120	↓	↓	↓	
HD-MW-166-0/1-0	↓	1145	↓	↓	↓	
HD-MW-167-0/1-0	↓	1200	↓	↓	↓	
HD-MW-171-0/1-0	↓	1330	↓	↓	↓	
TRIP BLANK					2	
					2	



VOCs (8260)
 Alkalinity (Carb/Bicarb), SO4, CL, NO3, NH4, Mg (SW846)
 Total Na, Ca, Fe, Mn, Ni, Pb, Se, Zn (6020A)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab For Months

Special Instructions/OC Requirements & Comments: **CLP Like Deliverables**
24 HOUR TURN AROUND TIME

Relinquished by (Print and Sign): *Casey Littlefield*
 Relinquished by: *Casey Littlefield*
 Relinquished by: *THA*

Received by: *[Signature]*
 Received by: *[Signature]*
 Received by: *[Signature]*

Date/Time: 3/3/15 1355
 Date/Time: 3/3/15 1355
 Date/Time: 3/4/15 10:30

Company: *Casey Littlefield Co*
 Company: *THA*
 Company: *[Signature]*

Do Not Lift



180-41696 Waybill

ORIGIN ID: KPDA (610) 337-9992
SAMPLE RECEIPT
TEST AMERICA
1008 WEST 9TH AVE

SHIP DATE: 03MAR15
ACTWGT: 32.0 LB
CAD: 8490299/INET3610

KING OF PRUSSIA, PA 19406
UNITED STATES US

BILL RECIPIENT

TO **SAMPLE RECEIPT**
TEST AMERICA - PITTSBURGH
301 ALPHA DR

PITTSBURGH PA 15238

(412) 963-7058

REF:

INV:

PO:

DEPT:

Uncorrected temp
Thermometer ID

21.6 °C

CF 0 Initials MLC

PT-WI-SR-001 effective 7/26/13



J151215022301JW

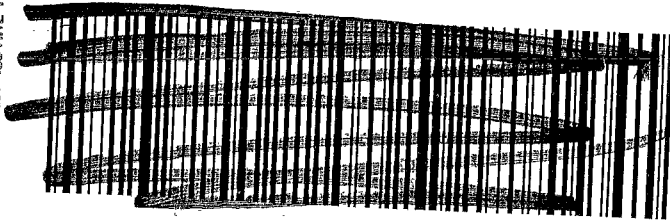
TRK# 7730 3940 1745
0201

WED - 04 MAR 3:00P
STANDARD OVERNIGHT

EV AGCA

15238
PA-US **PIT**

Part# 152297-435 RITZ 11/14 %



Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 180-41696-1

Login Number: 41696

List Source: TestAmerica Pittsburgh

List Number: 1

Creator: Watson, Debbie

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.	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.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	