

ANALYTICAL REPORT

Job Number: 180-43185-1

Job Description: Harley Davidson

For:

Groundwater Sciences Corporation
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Harrisburg, PA 17110-9307

Attention: Allan Miller



Approved for release.
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4/24/2015 12:21 PM

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04/24/2015

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Definitions/Glossary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-43185-1

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.
B	Compound was found in the blank and sample.
*	LCS or LCSD is outside acceptance limits.
E	Result exceeded calibration range.

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: 180-43185-1

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 04/17/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.3 C.

VOLATILES

The following sample was diluted to bring the concentration of target analytes within the calibration range: HD-MW-64S-0/1-0 (180-43185-2). Elevated reporting limits (RLs) are provided.

Methylene Chloride was detected in method blank MB 180-139271/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

The laboratory control sample (LCS) for batch 139271 recovered outside control limits for the following analytes: Trans-1,3-dichloropropene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Detection Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-43185-1

Client Sample ID: HD-QC2-0/1-2

Lab Sample ID: 180-43185-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.20	J	1.0	0.13	ug/L	1		8260C	Total/NA

Client Sample ID: HD-MW-64S-0/1-0

Lab Sample ID: 180-43185-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	51	E	1.0	0.14	ug/L	1		8260C	Total/NA
Tetrachloroethene	74	E	1.0	0.15	ug/L	1		8260C	Total/NA
Methylene Chloride - DL	0.79	J B	2.0	0.25	ug/L	2		8260C	Total/NA
Trichloroethene - DL	45		2.0	0.29	ug/L	2		8260C	Total/NA
Tetrachloroethene - DL	70		2.0	0.30	ug/L	2		8260C	Total/NA

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: 180-43185-1

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

Client Sample ID: HD-QC2-0/1-2

Date Collected: 04/16/15 12:00

Date Received: 04/17/15 09:00

Lab Sample ID: 180-43185-1

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		64 - 135		04/21/15 21:03	1
Toluene-d8 (Surr)	102		71 - 118		04/21/15 21:03	1
4-Bromofluorobenzene (Surr)	92		70 - 118		04/21/15 21:03	1
Dibromofluoromethane (Surr)	118		70 - 128		04/21/15 21:03	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-43185-1

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

Client Sample ID: HD-MW-64S-0/1-0

Lab Sample ID: 180-43185-2

Date Collected: 04/16/15 09:20

Matrix: Water

Date Received: 04/17/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			04/22/15 20:42	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			04/22/15 20:42	1
Bromomethane	1.0	U	1.0	0.31	ug/L			04/22/15 20:42	1
Chloroethane	1.0	U	1.0	0.21	ug/L			04/22/15 20:42	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/22/15 20:42	1
Acetone	5.0	U	5.0	2.5	ug/L			04/22/15 20:42	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			04/22/15 20:42	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			04/22/15 20:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			04/22/15 20:42	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			04/22/15 20:42	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			04/22/15 20:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			04/22/15 20:42	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			04/22/15 20:42	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			04/22/15 20:42	1
Chloroform	1.0	U	1.0	0.17	ug/L			04/22/15 20:42	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			04/22/15 20:42	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			04/22/15 20:42	1
Benzene	1.0	U	1.0	0.11	ug/L			04/22/15 20:42	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/22/15 20:42	1
Trichloroethene	51	E	1.0	0.14	ug/L			04/22/15 20:42	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			04/22/15 20:42	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			04/22/15 20:42	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			04/22/15 20:42	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			04/22/15 20:42	1
Toluene	1.0	U	1.0	0.15	ug/L			04/22/15 20:42	1
trans-1,3-Dichloropropene	1.0	U *	1.0	0.15	ug/L			04/22/15 20:42	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			04/22/15 20:42	1
Tetrachloroethene	74	E	1.0	0.15	ug/L			04/22/15 20:42	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			04/22/15 20:42	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			04/22/15 20:42	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			04/22/15 20:42	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			04/22/15 20:42	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			04/22/15 20:42	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			04/22/15 20:42	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			04/22/15 20:42	1
Styrene	1.0	U	1.0	0.097	ug/L			04/22/15 20:42	1
Bromoform	1.0	U	1.0	0.19	ug/L			04/22/15 20:42	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			04/22/15 20:42	1
Acrylonitrile	20	U	20	0.55	ug/L			04/22/15 20:42	1
1,4-Dioxane	200	U	200	34	ug/L			04/22/15 20:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		64 - 135		04/22/15 20:42	1
Toluene-d8 (Surr)	100		71 - 118		04/22/15 20:42	1
4-Bromofluorobenzene (Surr)	90		70 - 118		04/22/15 20:42	1
Dibromofluoromethane (Surr)	113		70 - 128		04/22/15 20:42	1

TestAmerica Pittsburgh

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-43185-1

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

Client Sample ID: HD-MW-64S-0/1-0

Lab Sample ID: 180-43185-2

Date Collected: 04/16/15 09:20

Matrix: Water

Date Received: 04/17/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.0	U	2.0	0.57	ug/L			04/22/15 15:52	2
Vinyl chloride	2.0	U	2.0	0.45	ug/L			04/22/15 15:52	2
Bromomethane	2.0	U	2.0	0.63	ug/L			04/22/15 15:52	2
Chloroethane	2.0	U	2.0	0.43	ug/L			04/22/15 15:52	2
1,1-Dichloroethene	2.0	U	2.0	0.59	ug/L			04/22/15 15:52	2
Acetone	10	U	10	5.0	ug/L			04/22/15 15:52	2
Carbon disulfide	2.0	U	2.0	0.42	ug/L			04/22/15 15:52	2
Methylene Chloride	0.79	J B	2.0	0.25	ug/L			04/22/15 15:52	2
trans-1,2-Dichloroethene	2.0	U	2.0	0.34	ug/L			04/22/15 15:52	2
Methyl tert-butyl ether	2.0	U	2.0	0.37	ug/L			04/22/15 15:52	2
1,1-Dichloroethane	2.0	U	2.0	0.23	ug/L			04/22/15 15:52	2
cis-1,2-Dichloroethene	2.0	U	2.0	0.47	ug/L			04/22/15 15:52	2
Bromochloromethane	2.0	U	2.0	0.36	ug/L			04/22/15 15:52	2
2-Butanone (MEK)	10	U	10	1.1	ug/L			04/22/15 15:52	2
Chloroform	2.0	U	2.0	0.34	ug/L			04/22/15 15:52	2
1,1,1-Trichloroethane	2.0	U	2.0	0.57	ug/L			04/22/15 15:52	2
Carbon tetrachloride	2.0	U	2.0	0.27	ug/L			04/22/15 15:52	2
Benzene	2.0	U	2.0	0.21	ug/L			04/22/15 15:52	2
1,2-Dichloroethane	2.0	U	2.0	0.42	ug/L			04/22/15 15:52	2
Trichloroethene	45		2.0	0.29	ug/L			04/22/15 15:52	2
1,2-Dichloropropane	2.0	U	2.0	0.19	ug/L			04/22/15 15:52	2
Bromodichloromethane	2.0	U	2.0	0.26	ug/L			04/22/15 15:52	2
cis-1,3-Dichloropropene	2.0	U	2.0	0.37	ug/L			04/22/15 15:52	2
4-Methyl-2-pentanone (MIBK)	10	U	10	1.1	ug/L			04/22/15 15:52	2
Toluene	2.0	U	2.0	0.30	ug/L			04/22/15 15:52	2
trans-1,3-Dichloropropene	2.0	U *	2.0	0.30	ug/L			04/22/15 15:52	2
1,1,2-Trichloroethane	2.0	U	2.0	0.40	ug/L			04/22/15 15:52	2
Tetrachloroethene	70		2.0	0.30	ug/L			04/22/15 15:52	2
2-Hexanone	10	U	10	0.32	ug/L			04/22/15 15:52	2
Dibromochloromethane	2.0	U	2.0	0.27	ug/L			04/22/15 15:52	2
1,2-Dibromoethane (EDB)	2.0	U	2.0	0.36	ug/L			04/22/15 15:52	2
Chlorobenzene	2.0	U	2.0	0.27	ug/L			04/22/15 15:52	2
1,1,1,2-Tetrachloroethane	2.0	U	2.0	0.55	ug/L			04/22/15 15:52	2
Ethylbenzene	2.0	U	2.0	0.45	ug/L			04/22/15 15:52	2
Xylenes, Total	6.0	U	6.0	0.98	ug/L			04/22/15 15:52	2
Styrene	2.0	U	2.0	0.19	ug/L			04/22/15 15:52	2
Bromoform	2.0	U	2.0	0.38	ug/L			04/22/15 15:52	2
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.40	ug/L			04/22/15 15:52	2
Acrylonitrile	40	U	40	1.1	ug/L			04/22/15 15:52	2
1,4-Dioxane	400	U	400	69	ug/L			04/22/15 15:52	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		64 - 135		04/22/15 15:52	2
Toluene-d8 (Surr)	100		71 - 118		04/22/15 15:52	2
4-Bromofluorobenzene (Surr)	93		70 - 118		04/22/15 15:52	2
Dibromofluoromethane (Surr)	103		70 - 128		04/22/15 15:52	2

Default Detection Limits

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-43185-1

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: 180-43185-1

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)
180-43185-1	HD-QC2-0/1-2	120	102	92	118
180-43185-2 - DL	HD-MW-64S-0/1-0	108	100	93	103
180-43185-2	HD-MW-64S-0/1-0	109	100	90	113
LCS 180-139148/9	Lab Control Sample	92	102	93	88
LCS 180-139271/11	Lab Control Sample	89	102	93	87
MB 180-139148/6	Method Blank	116	104	88	105
MB 180-139271/5	Method Blank	107	101	92	108

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: 180-43185-1

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

Lab Sample ID: MB 180-139148/6

Matrix: Water

Analysis Batch: 139148

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			04/21/15 12:50	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			04/21/15 12:50	1
Bromomethane	1.0	U	1.0	0.31	ug/L			04/21/15 12:50	1
Chloroethane	1.0	U	1.0	0.21	ug/L			04/21/15 12:50	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/21/15 12:50	1
Acetone	5.0	U	5.0	2.5	ug/L			04/21/15 12:50	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			04/21/15 12:50	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			04/21/15 12:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			04/21/15 12:50	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			04/21/15 12:50	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			04/21/15 12:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			04/21/15 12:50	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			04/21/15 12:50	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			04/21/15 12:50	1
Chloroform	1.0	U	1.0	0.17	ug/L			04/21/15 12:50	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			04/21/15 12:50	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			04/21/15 12:50	1
Benzene	1.0	U	1.0	0.11	ug/L			04/21/15 12:50	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/21/15 12:50	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			04/21/15 12:50	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			04/21/15 12:50	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			04/21/15 12:50	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			04/21/15 12:50	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			04/21/15 12:50	1
Toluene	1.0	U	1.0	0.15	ug/L			04/21/15 12:50	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			04/21/15 12:50	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			04/21/15 12:50	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			04/21/15 12:50	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			04/21/15 12:50	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			04/21/15 12:50	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			04/21/15 12:50	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			04/21/15 12:50	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			04/21/15 12:50	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			04/21/15 12:50	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			04/21/15 12:50	1
Styrene	1.0	U	1.0	0.097	ug/L			04/21/15 12:50	1
Bromoform	1.0	U	1.0	0.19	ug/L			04/21/15 12:50	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			04/21/15 12:50	1
Acrylonitrile	20	U	20	0.55	ug/L			04/21/15 12:50	1
1,4-Dioxane	200	U	200	34	ug/L			04/21/15 12:50	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	116		64 - 135		04/21/15 12:50	1
Toluene-d8 (Surr)	104		71 - 118		04/21/15 12:50	1
4-Bromofluorobenzene (Surr)	88		70 - 118		04/21/15 12:50	1
Dibromofluoromethane (Surr)	105		70 - 128		04/21/15 12:50	1

TestAmerica Pittsburgh

QC Sample Results

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-43185-1

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

Lab Sample ID: LCS 180-139148/9

Matrix: Water

Analysis Batch: 139148

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	11.0		ug/L		110	50 - 139
Vinyl chloride	10.0	10.5		ug/L		105	53 - 138
Bromomethane	10.0	13.2		ug/L		132	33 - 150
Chloroethane	10.0	11.8		ug/L		118	36 - 142
1,1-Dichloroethene	10.0	9.29		ug/L		93	65 - 136
Acetone	20.0	17.1		ug/L		86	22 - 150
Carbon disulfide	10.0	5.91		ug/L		59	54 - 132
Methylene Chloride	10.0	10.1		ug/L		101	63 - 129
trans-1,2-Dichloroethene	10.0	9.55		ug/L		95	73 - 126
Methyl tert-butyl ether	10.0	9.15		ug/L		92	64 - 123
1,1-Dichloroethane	10.0	9.74		ug/L		97	73 - 126
cis-1,2-Dichloroethene	10.0	9.05		ug/L		90	70 - 120
Bromochloromethane	10.0	8.80		ug/L		88	70 - 127
2-Butanone (MEK)	20.0	16.6		ug/L		83	39 - 138
Chloroform	10.0	9.97		ug/L		100	72 - 127
1,1,1-Trichloroethane	10.0	10.2		ug/L		102	63 - 133
Carbon tetrachloride	10.0	10.8		ug/L		108	55 - 150
Benzene	10.0	10.2		ug/L		102	80 - 120
1,2-Dichloroethane	10.0	9.53		ug/L		95	68 - 132
Trichloroethene	10.0	9.02		ug/L		90	73 - 120
1,2-Dichloropropane	10.0	9.78		ug/L		98	76 - 124
Bromodichloromethane	10.0	8.88		ug/L		89	66 - 130
cis-1,3-Dichloropropene	10.0	9.47		ug/L		95	66 - 120
4-Methyl-2-pentanone (MIBK)	20.0	17.5		ug/L		88	45 - 145
Toluene	10.0	11.2		ug/L		112	80 - 123
trans-1,3-Dichloropropene	10.0	11.3		ug/L		113	65 - 125
1,1,2-Trichloroethane	10.0	11.5		ug/L		115	77 - 127
Tetrachloroethene	10.0	10.9		ug/L		109	70 - 135
2-Hexanone	20.0	15.2		ug/L		76	25 - 132
Dibromochloromethane	10.0	10.4		ug/L		104	60 - 140
1,2-Dibromoethane (EDB)	10.0	10.7		ug/L		107	74 - 123
Chlorobenzene	10.0	10.7		ug/L		107	80 - 120
1,1,1,2-Tetrachloroethane	10.0	11.9		ug/L		119	63 - 140
Ethylbenzene	10.0	10.2		ug/L		102	72 - 126
Xylenes, Total	20.0	20.1		ug/L		100	76 - 128
Styrene	10.0	10.3		ug/L		103	71 - 127
Bromoform	10.0	9.28		ug/L		93	46 - 150
1,1,2,2-Tetrachloroethane	10.0	10.9		ug/L		109	62 - 125
1,4-Dioxane	200	129	J	ug/L		64	10 - 160

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	92		64 - 135
Toluene-d8 (Surr)	102		71 - 118
4-Bromofluorobenzene (Surr)	93		70 - 118
Dibromofluoromethane (Surr)	88		70 - 128

QC Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-43185-1

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

Lab Sample ID: MB 180-139271/5

Matrix: Water

Analysis Batch: 139271

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			04/22/15 12:26	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			04/22/15 12:26	1
Bromomethane	1.0	U	1.0	0.31	ug/L			04/22/15 12:26	1
Chloroethane	1.0	U	1.0	0.21	ug/L			04/22/15 12:26	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			04/22/15 12:26	1
Acetone	5.0	U	5.0	2.5	ug/L			04/22/15 12:26	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			04/22/15 12:26	1
Methylene Chloride	0.133	J	1.0	0.13	ug/L			04/22/15 12:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			04/22/15 12:26	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			04/22/15 12:26	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			04/22/15 12:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			04/22/15 12:26	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			04/22/15 12:26	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			04/22/15 12:26	1
Chloroform	1.0	U	1.0	0.17	ug/L			04/22/15 12:26	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			04/22/15 12:26	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			04/22/15 12:26	1
Benzene	1.0	U	1.0	0.11	ug/L			04/22/15 12:26	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/22/15 12:26	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			04/22/15 12:26	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			04/22/15 12:26	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			04/22/15 12:26	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			04/22/15 12:26	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			04/22/15 12:26	1
Toluene	1.0	U	1.0	0.15	ug/L			04/22/15 12:26	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			04/22/15 12:26	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			04/22/15 12:26	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			04/22/15 12:26	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			04/22/15 12:26	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			04/22/15 12:26	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			04/22/15 12:26	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			04/22/15 12:26	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			04/22/15 12:26	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			04/22/15 12:26	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			04/22/15 12:26	1
Styrene	1.0	U	1.0	0.097	ug/L			04/22/15 12:26	1
Bromoform	1.0	U	1.0	0.19	ug/L			04/22/15 12:26	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			04/22/15 12:26	1
Acrylonitrile	20	U	20	0.55	ug/L			04/22/15 12:26	1
1,4-Dioxane	200	U	200	34	ug/L			04/22/15 12:26	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	107		64 - 135		04/22/15 12:26	1
Toluene-d8 (Surr)	101		71 - 118		04/22/15 12:26	1
4-Bromofluorobenzene (Surr)	92		70 - 118		04/22/15 12:26	1
Dibromofluoromethane (Surr)	108		70 - 128		04/22/15 12:26	1

TestAmerica Pittsburgh

QC Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-43185-1

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

Lab Sample ID: LCS 180-139271/11

Matrix: Water

Analysis Batch: 139271

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	12.0		ug/L		120	50 - 139
Vinyl chloride	10.0	10.6		ug/L		106	53 - 138
Bromomethane	10.0	9.51		ug/L		95	33 - 150
Chloroethane	10.0	10.5		ug/L		105	36 - 142
1,1-Dichloroethene	10.0	9.58		ug/L		96	65 - 136
Acetone	20.0	20.6		ug/L		103	22 - 150
Carbon disulfide	10.0	8.49		ug/L		85	54 - 132
Methylene Chloride	10.0	9.27		ug/L		93	63 - 129
trans-1,2-Dichloroethene	10.0	9.43		ug/L		94	73 - 126
Methyl tert-butyl ether	10.0	10.2		ug/L		102	64 - 123
1,1-Dichloroethane	10.0	10.2		ug/L		102	73 - 126
cis-1,2-Dichloroethene	10.0	9.75		ug/L		98	70 - 120
Bromochloromethane	10.0	9.93		ug/L		99	70 - 127
2-Butanone (MEK)	20.0	18.8		ug/L		94	39 - 138
Chloroform	10.0	9.94		ug/L		99	72 - 127
1,1,1-Trichloroethane	10.0	11.0		ug/L		110	63 - 133
Carbon tetrachloride	10.0	12.4		ug/L		124	55 - 150
Benzene	10.0	10.5		ug/L		105	80 - 120
1,2-Dichloroethane	10.0	9.66		ug/L		97	68 - 132
Trichloroethene	10.0	9.68		ug/L		97	73 - 120
1,2-Dichloropropane	10.0	10.5		ug/L		105	76 - 124
Bromodichloromethane	10.0	10.3		ug/L		103	66 - 130
cis-1,3-Dichloropropene	10.0	11.5		ug/L		115	66 - 120
4-Methyl-2-pentanone (MIBK)	20.0	19.1		ug/L		96	45 - 145
Toluene	10.0	11.5		ug/L		115	80 - 123
trans-1,3-Dichloropropene	10.0	13.3	*	ug/L		133	65 - 125
1,1,2-Trichloroethane	10.0	11.2		ug/L		112	77 - 127
Tetrachloroethene	10.0	10.7		ug/L		107	70 - 135
2-Hexanone	20.0	17.4		ug/L		87	25 - 132
Dibromochloromethane	10.0	12.0		ug/L		120	60 - 140
1,2-Dibromoethane (EDB)	10.0	11.1		ug/L		111	74 - 123
Chlorobenzene	10.0	11.2		ug/L		112	80 - 120
1,1,1,2-Tetrachloroethane	10.0	13.0		ug/L		130	63 - 140
Ethylbenzene	10.0	10.8		ug/L		108	72 - 126
Xylenes, Total	20.0	21.3		ug/L		107	76 - 128
Styrene	10.0	10.7		ug/L		107	71 - 127
Bromoform	10.0	12.5		ug/L		125	46 - 150
1,1,2,2-Tetrachloroethane	10.0	10.8		ug/L		108	62 - 125
1,4-Dioxane	200	193	J	ug/L		96	10 - 160

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		64 - 135
Toluene-d8 (Surr)	102		71 - 118
4-Bromofluorobenzene (Surr)	93		70 - 118
Dibromofluoromethane (Surr)	87		70 - 128

QC Association Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-43185-1

GC/MS VOA

Analysis Batch: 139148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-43185-1	HD-QC2-0/1-2	Total/NA	Water	8260C	
LCS 180-139148/9	Lab Control Sample	Total/NA	Water	8260C	
MB 180-139148/6	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 139271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-43185-2 - DL	HD-MW-64S-0/1-0	Total/NA	Water	8260C	
180-43185-2	HD-MW-64S-0/1-0	Total/NA	Water	8260C	
LCS 180-139271/11	Lab Control Sample	Total/NA	Water	8260C	
MB 180-139271/5	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-43185-1

Client Sample ID: HD-QC2-0/1-2

Date Collected: 04/16/15 12:00

Date Received: 04/17/15 09:00

Lab Sample ID: 180-43185-1

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	139148	04/21/15 21:03	DLF	TAL PIT
Instrument ID: CHHP5										

Client Sample ID: HD-MW-64S-0/1-0

Date Collected: 04/16/15 09:20

Date Received: 04/17/15 09:00

Lab Sample ID: 180-43185-2

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	DL	2	5 mL	5 mL	139271	04/22/15 15:52	DLF	TAL PIT
Instrument ID: CHHP5										
Total/NA	Analysis	8260C		1	5 mL	5 mL	139271	04/22/15 20:42	DLF	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

DLF = Donald Ferguson

Certification Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-43185-1

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 *

* Certification renewal pending - certification considered valid.

Method Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-43185-1

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: 180-43185-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-43185-1	HD-QC2-0/1-2	Water	04/16/15 12:00	04/17/15 09:00
180-43185-2	HD-MW-64S-0/1-0	Water	04/16/15 09:20	04/17/15 09:00

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43185-1

SDG No.: _____

Instrument ID: CHHP5 Analysis Batch Number: 135593Lab Sample ID: IC 180-135593/4 Client Sample ID: _____Date Analyzed: 03/16/15 12:41 Lab File ID: 50316004.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.25	Baseline	fergusond	03/17/15 09:42

Lab Sample ID: ICIS 180-135593/5 Client Sample ID: _____Date Analyzed: 03/16/15 13:05 Lab File ID: 50316005.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	03/17/15 09:27

Lab Sample ID: IC 180-135593/6 Client Sample ID: _____Date Analyzed: 03/16/15 13:29 Lab File ID: 50316006.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	6.95	Peak Tail	fergusond	03/17/15 09:45

Lab Sample ID: IC 180-135593/7 Client Sample ID: _____Date Analyzed: 03/16/15 13:53 Lab File ID: 50316007.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol	6.94	Peak Tail	fergusond	03/17/15 09:48

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43185-1

SDG No.: _____

Instrument ID: CHHP5 Analysis Batch Number: 135593Lab Sample ID: IC 180-135593/13 Client Sample ID: _____Date Analyzed: 03/16/15 16:17 Lab File ID: 50316013.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.77	Poor chromatography	fergusond	03/17/15 10:01
Acrolein	3.25	Poor chromatography	fergusond	03/17/15 10:01
2-Hexanone	9.66	Poor chromatography	fergusond	03/17/15 10:01
trans-1,4-Dichloro-2-butene	11.74	Poor chromatography	fergusond	03/17/15 10:01

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43185-1

SDG No.: _____

Instrument ID: CHHP5 Analysis Batch Number: 139148

Lab Sample ID: CCVIS 180-139148/2 Client Sample ID: _____

Date Analyzed: 04/21/15 11:38 Lab File ID: 50421002.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.26	Poor chromatography	fergusond	04/21/15 12:10
Iodomethane	3.62	Poor chromatography	fergusond	04/21/15 12:10
1,4-Dioxane	8.06	Peak Tail	fergusond	04/21/15 12:10

Lab Sample ID: MB 180-139148/6 Client Sample ID: _____

Date Analyzed: 04/21/15 12:50 Lab File ID: 50421006.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methylene Chloride	4.16	Split Peak	fergusond	04/21/15 13:20

Lab Sample ID: LCS 180-139148/9 Client Sample ID: _____

Date Analyzed: 04/21/15 14:13 Lab File ID: 50421009.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.05	Peak Tail	fergusond	04/21/15 14:35

Lab Sample ID: 180-43185-1 Client Sample ID: HD-QC2-0/1-2

Date Analyzed: 04/21/15 21:03 Lab File ID: 50421026.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.49	Poor chromatography	fergusond	04/22/15 08:15
Methylene Chloride	4.16	Poor chromatography	fergusond	04/22/15 08:15

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43185-1

SDG No.: _____

Instrument ID: CHHP5 Analysis Batch Number: 139271

Lab Sample ID: CCVIS 180-139271/2 Client Sample ID: _____

Date Analyzed: 04/22/15 11:10 Lab File ID: 50422002.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.05	Peak Tail	fergusond	04/22/15 11:41

Lab Sample ID: MB 180-139271/5 Client Sample ID: _____

Date Analyzed: 04/22/15 12:26 Lab File ID: 50422005.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methylene Chloride	4.16	Poor chromatography	fergusond	04/22/15 13:49

Lab Sample ID: 180-43185-2 DL Client Sample ID: HD-MW-64S-0/1-0 DL

Date Analyzed: 04/22/15 15:52 Lab File ID: 50422013.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methylene Chloride	4.16	Poor chromatography	fergusond	04/23/15 08:37
Chloroform	6.35	Poor chromatography	fergusond	04/23/15 08:37

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-43185-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VOA8260INT_00030	04/10/15	03/10/15	Methanol, Lot 85233	10 mL	VOA8260INTRES_00091	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_00091	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_00032	04/10/15	03/10/15	Methanol, Lot 85233	100 mL	VOA8260SURRES_00063	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_00063	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
VOA8260SURR_00033	05/03/15	04/03/15	Methanol, Lot 85233	100 mL	VOA8260SURRES_00087	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_00087	04/30/19		Restek, Lot A0102817		(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_00111	04/22/16	04/15/15	Methanol, Lot 85233	10 mL	VOA8260GAS2ND_00093	0.1 mL	Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					VOA8260VOA2ND_00107	1.25 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-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			

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-43185-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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_00093	01/31/18		Restek, Lot A0108226			(Purchased Reagent)	Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.VOA8260VOA2ND_00107	04/19/15	03/19/15	Methanol, Lot 85233	10 mL	VOA8260MEGA2_00011	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-Dichloroethane	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-43185-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	200 ug/mL
							Xylenes, Total	400 ug/mL
..VOA8260MEGA2_00011	02/01/16		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-Dichloroethane	2000 ug/mL
							1,2-Dibromoethane (EDB)	2000 ug/mL
							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_00105	03/20/15	03/13/15	Methanol, Lot 85233	8 mL	VOA8260GAS1ST_00091	0.08 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-43185-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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-Dichloropropane	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-43185-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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_00091	09/30/16		Restek, Lot A0108198			(Purchased Reagent)	Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-43185-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromo-3-Chloropropane	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-43185-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Trichloroethene	200 ug/mL
..VOA8260KET1ST_00036	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
..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-Trichloropropene	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-Dichloropropene	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropene	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-43185-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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_00110	04/22/15	04/15/15	Methanol, Lot 85233	10 mL	VOA8260GAS1ST_00095	0.1 mL	Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					VOA8260VOAPRI_00106	1.25 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-Trichloroethane	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-43185-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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
.VOA8260GAS1ST_00095	01/31/18		Restek, Lot A0108198			(Purchased Reagent)	Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.VOA8260VOAPRI_00106	04/19/15	03/19/15	Methanol, Lot 85233	10 mL	VOA8260MEGA1_00014	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	400 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-43185-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
..VOA8260MEGA1_00014	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-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dibromoethane (EDB)	2000 ug/mL
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-43185-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
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_00005	04/13/15	03/13/15	Methanol, Lot 85233	50 mL	VOA8260VARES_00050	0.25 mL	Vinyl acetate	25 ug/mL
.VOA8260VARES_00050	07/31/15		Restek, Lot A0108225		(Purchased Reagent)		Vinyl acetate	5000 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
.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-(triflouromethyl)-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
							4-Chlorobenzotrifluoride	5000 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
voaWKetpri_Re_00004	04/30/15	03/30/15	Methanol, Lot 85233	50 mL	VOA8260KET1ST_00039	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
.VOA8260KET1ST_00039	01/31/18		Restek, Lot A0108151		(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

Reagent

VOA8260GAS1ST_00091



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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. : 569722 Lot No.: A0108198

Description : 8260 List 1 / Std #3 Gases (2015)
8260 List 1 / Std #3 Gases (2015) 2,000 ug/ml, P&T Methanol, 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	Dichlorodifluoromethane (CFC-12) CAS # 75-71-8 (Lot Q167-08) Purity 99%	2,504.8 µg/mL	+/- 21.9788 µg/mL +/- 32.6918 µg/mL +/- 36.4326 µg/mL	Gravimetric Unstressed Stressed	
2	Chloromethane (methyl chloride) CAS # 74-87-3 (Lot SHBC8470V) Purity 99%	2,509.8 µg/mL	+/- 19.6377 µg/mL +/- 31.2039 µg/mL +/- 35.1185 µg/mL	Gravimetric Unstressed Stressed	
3	Vinyl chloride CAS # 75-01-4 (Lot 17542) Purity 99%	2,515.3 µg/mL	+/- 22.1368 µg/mL +/- 32.8734 µg/mL +/- 36.6254 µg/mL	Gravimetric Unstressed Stressed	
4	1,3-Butadiene CAS # 106-99-0 (Lot SHBD5808V) Purity 99%	2,498.0 µg/mL	+/- 23.6713 µg/mL +/- 33.8065 µg/mL +/- 37.4176 µg/mL	Gravimetric Unstressed Stressed	
5	Bromomethane (methyl bromide) CAS # 74-83-9 (Lot 101604) Purity 99%	2,503.7 µg/mL	+/- 30.8470 µg/mL +/- 39.2011 µg/mL +/- 42.3685 µg/mL	Gravimetric Unstressed Stressed	
6	Chloroethane (ethyl chloride) CAS # 75-00-3 (Lot SHBD1717V) Purity 99%	2,507.7 µg/mL	+/- 21.9404 µg/mL +/- 32.6873 µg/mL +/- 36.4370 µg/mL	Gravimetric Unstressed Stressed	
7	Dichlorofluoromethane (CFC-21) CAS # 75-43-4 (Lot Q9B-58) Purity 99%	2,500.7 µg/mL	+/- 26.0039 µg/mL +/- 35.4965 µg/mL +/- 38.9583 µg/mL	Gravimetric Unstressed Stressed	

8	Trichlorofluoromethane (CFC-11)	2,501.9 µg/mL	+/- 21.5914	µg/mL	Gravimetric
	CAS # 75-69-4 (Lot SHBD5121V)		+/- 32.4119	µg/mL	Unstressed
	Purity 99%		+/- 36.1734	µg/mL	Stressed

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

Column:

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

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

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

Inj. Temp:

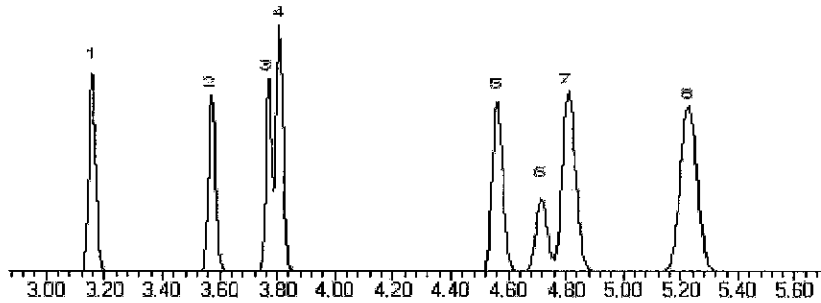
200°C

Det. Temp:

250°C

Det. Type:

MSD



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

Kendra Swope
Kendra Swope - Mix Technician

Date Mixed: 08-Jan-2015 Balance: 1125113331

Jennifer L. Pollino
Jennifer L. Pollino - QC Analyst

Date Passed: 14-Jan-2015

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

Reagent

VOA8260GAS1ST_00095



CERTIFIED REFERENCE MATERIAL

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Catalog No. : 569722 Lot No.: A0108198
 Description : 8260 List 1 / Std #3 Gases (2015)
8260 List 1 / Std #3 Gases (2015) 2,000 ug/ml, P&T Methanol, 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	Dichlorodifluoromethane (CFC-12) CAS # 75-71-8 (Lot Q167-08) Purity 99%	2,504.8 µg/mL	+/- 21.9788 µg/mL +/- 32.6918 µg/mL +/- 36.4326 µg/mL	Gravimetric Unstressed Stressed	
2	Chloromethane (methyl chloride) CAS # 74-87-3 (Lot SHBC8470V) Purity 99%	2,509.8 µg/mL	+/- 19.6377 µg/mL +/- 31.2039 µg/mL +/- 35.1185 µg/mL	Gravimetric Unstressed Stressed	
3	Vinyl chloride CAS # 75-01-4 (Lot 17542) Purity 99%	2,515.3 µg/mL	+/- 22.1368 µg/mL +/- 32.8734 µg/mL +/- 36.6254 µg/mL	Gravimetric Unstressed Stressed	
4	1,3-Butadiene CAS # 106-99-0 (Lot SHBD5808V) Purity 99%	2,498.0 µg/mL	+/- 23.6713 µg/mL +/- 33.8065 µg/mL +/- 37.4176 µg/mL	Gravimetric Unstressed Stressed	
5	Bromomethane (methyl bromide) CAS # 74-83-9 (Lot 101604) Purity 99%	2,503.7 µg/mL	+/- 30.8470 µg/mL +/- 39.2011 µg/mL +/- 42.3685 µg/mL	Gravimetric Unstressed Stressed	
6	Chloroethane (ethyl chloride) CAS # 75-00-3 (Lot SHBD1717V) Purity 99%	2,507.7 µg/mL	+/- 21.9404 µg/mL +/- 32.6873 µg/mL +/- 36.4370 µg/mL	Gravimetric Unstressed Stressed	
7	Dichlorofluoromethane (CFC-21) CAS # 75-43-4 (Lot Q9B-58) Purity 99%	2,500.7 µg/mL	+/- 26.0039 µg/mL +/- 35.4965 µg/mL +/- 38.9583 µg/mL	Gravimetric Unstressed Stressed	

8	Trichlorofluoromethane (CFC-11)	2,501.9 µg/mL	+/- 21.5914	µg/mL	Gravimetric
	CAS # 75-69-4 (Lot SHBD5121V)		+/- 32.4119	µg/mL	Unstressed
	Purity 99%		+/- 36.1734	µg/mL	Stressed

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

Column:

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

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

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

Inj. Temp:

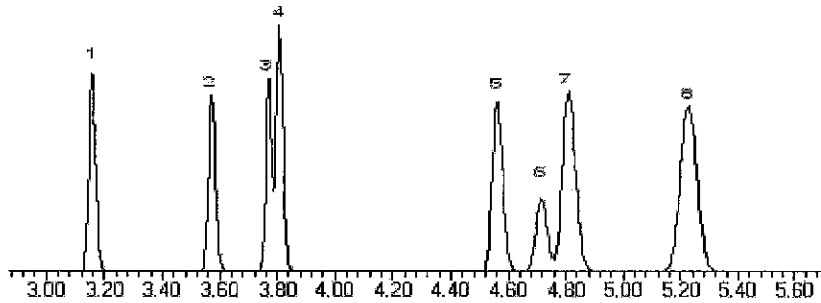
200°C

Det. Temp:

250°C

Det. Type:

MSD



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

Kendra Swope
Kendra Swope - Mix Technician

Date Mixed: 08-Jan-2015 Balance: 1125113331

Jennifer L. Pollino
Jennifer L. Pollino - QC Analyst

Date Passed: 14-Jan-2015

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

Reagent

VOA8260GAS2ND_00093

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

Catalog No. : 569722.sec **Lot No.:** A0108226
Description : 8260 List 1 / Std #3 Gases (2015)
8260 List 1 / Std #3 Gases (2015) 2,000 ug/ml, P&T Methanol, 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	Dichlorodifluoromethane (CFC-12) CAS # 75-71-8.SEC (Lot 19630) Purity 99%	2,494.8 µg/mL	+/- 23.5521 µg/mL +/- 33.7009 µg/mL +/- 37.3133 µg/mL	Gravimetric Unstressed Stressed	
2	Chloromethane (methyl chloride) CAS # 74-87-3.SEC (Lot 18343) Purity 99%	2,505.6 µg/mL	+/- 26.4745 µg/mL +/- 35.8743 µg/mL +/- 39.3156 µg/mL	Gravimetric Unstressed Stressed	
3	Vinyl chloride CAS # 75-01-4.SEC (Lot MKBK6872V) Purity 99%	2,499.8 µg/mL	+/- 25.3054 µg/mL +/- 34.9816 µg/mL +/- 38.4872 µg/mL	Gravimetric Unstressed Stressed	
4	1,3-Butadiene CAS # 106-99-0.SEC (Lot 18349) Purity 99%	2,505.4 µg/mL	+/- 23.1450 µg/mL +/- 33.4914 µg/mL +/- 37.1536 µg/mL	Gravimetric Unstressed Stressed	
5	Bromomethane (methyl bromide) CAS # 74-83-9.SEC (Lot Q119-46) Purity 99%	2,495.4 µg/mL	+/- 25.3762 µg/mL +/- 35.0038 µg/mL +/- 38.4957 µg/mL	Gravimetric Unstressed Stressed	
6	Chloroethane (ethyl chloride) CAS # 75-00-3.SEC (Lot Q18B-13) Purity 99%	2,499.5 µg/mL	+/- 21.8687 µg/mL +/- 32.5806 µg/mL +/- 36.3180 µg/mL	Gravimetric Unstressed Stressed	
7	Dichlorofluoromethane (CFC-21) CAS # 75-43-4.SEC (Lot SHBC0858V) Purity 99%	2,511.0 µg/mL	+/- 21.9690 µg/mL +/- 32.7299 µg/mL +/- 36.4846 µg/mL	Gravimetric Unstressed Stressed	

8	Trichlorofluoromethane (CFC-11)	2,504.4 µg/mL	+/- 25.2390	µg/mL	Gravimetric
	CAS # 75-69-4,SEC (Lot Q158-102)		+/- 34.9647	µg/mL	Unstressed
	Purity 99%		+/- 38.4843	µg/mL	Stressed

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

Column:

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

Carrier Gas:

helium-constant flow 2.0 ml/min.

Temp. Program:

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

Inj. Temp:

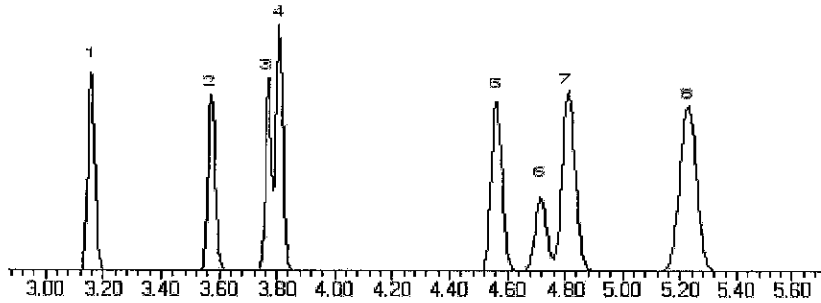
200°C

Det. Temp:

250°C

Det. Type:

MSD



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

Michael Maje

Date Mixed: 12-Jan-2015 **Balance:** 1127510105

Jennifer L. Pollino

Jennifer L. Pollino - QC Analyst

Date Passed: 14-Jan-2015

Manufactured under Restek's ISO 9001:2008
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Reagent

VOA8260INTRES_00091



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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

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Certificate of Analysis

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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

VOA8260KET1ST_00037



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Certificate of Analysis

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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

VOA8260KET1ST_00039



CERTIFIED REFERENCE MATERIAL

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Catalog No. : 569721 **Lot No.:** A0108151
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	12,537.0 µg/mL	+/-	73.4069	µg/mL	Gravimetric
	CAS # 67-64-1 (Lot 07196AK)		+/-	667.2480	µg/mL	Unstressed
	Purity 99%		+/-	667.9837	µg/mL	Stressed
2	2-Butanone (MEK)	12,537.0 µg/mL	+/-	73.4069	µg/mL	Gravimetric
	CAS # 78-93-3 (Lot BCBH7802V)		+/-	667.2480	µg/mL	Unstressed
	Purity 99%		+/-	667.9837	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,537.0 µg/mL	+/-	73.4069	µg/mL	Gravimetric
	CAS # 108-10-1 (Lot SHBF5332V)		+/-	667.2480	µg/mL	Unstressed
	Purity 99%		+/-	667.9837	µg/mL	Stressed
4	2-Hexanone	12,537.0 µg/mL	+/-	73.4069	µg/mL	Gravimetric
	CAS # 591-78-6 (Lot MKBK8325V)		+/-	667.2480	µg/mL	Unstressed
	Purity 99%		+/-	667.9837	µg/mL	Stressed

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

Reagent

VOA8260MEGA1_00014



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FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 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) CAS # 60-29-7 Purity 99%	2,000.0 µg/mL	+/-	11.6282	µg/mL	Gravimetric
			+/-	44.2531	µg/mL	Unstressed
			+/-	44.4335	µg/mL	Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) CAS # 76-13-1 Purity 97%	1,999.9 µg/mL	+/-	11.6279	µg/mL	Gravimetric
			+/-	44.2519	µg/mL	Unstressed
			+/-	44.4323	µg/mL	Stressed
3	1,1-dichloroethene CAS # 75-35-4 Purity 98%	2,000.0 µg/mL	+/-	11.6281	µg/mL	Gravimetric
			+/-	44.2527	µg/mL	Unstressed
			+/-	44.4331	µg/mL	Stressed
4	tert-Butanol (TBA) CAS # 75-65-0 Purity 99%	20,000.0 µg/mL	+/-	116.2756	µg/mL	Gravimetric
			+/-	442.5291	µg/mL	Unstressed
			+/-	444.3332	µg/mL	Stressed
5	Iodomethane (methyl iodide) CAS # 74-88-4 Purity 99%	2,000.0 µg/mL	+/-	11.6282	µg/mL	Gravimetric
			+/-	44.2531	µg/mL	Unstressed
			+/-	44.4335	µg/mL	Stressed
6	Allyl chloride (3-chloropropene) CAS # 107-05-1 Purity 98%	2,000.0 µg/mL	+/-	11.6281	µg/mL	Gravimetric
			+/-	44.2527	µg/mL	Unstressed
			+/-	44.4331	µg/mL	Stressed
7	Methyl acetate CAS # 79-20-9 Purity 99%	10,000.0 µg/mL	+/-	58.1378	µg/mL	Gravimetric
			+/-	221.2646	µg/mL	Unstressed
			+/-	222.1666	µg/mL	Stressed
8	Carbon disulfide CAS # 75-15-0 Purity 98%	2,000.0 µg/mL	+/-	11.6281	µg/mL	Gravimetric
			+/-	44.2527	µg/mL	Unstressed
			+/-	44.4331	µg/mL	Stressed
9	Methylene chloride (dichloromethane) CAS # 75-09-2 Purity 99%	2,000.0 µg/mL	+/-	11.6282	µg/mL	Gravimetric
			+/-	44.2531	µg/mL	Unstressed
			+/-	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		Unstressed
	Purity 99%				44.4335		Stressed
49	Styrene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-42-5				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
50	Isopropylbenzene (cumene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-82-8				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
51	bromoform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-25-2				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
52	1,1,1,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-34-5				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
53	1,2,3-Trichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 96-18-4				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
54	trans-1,4-dichloro-2-butene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 110-57-6				44.2527		Unstressed
	Purity 98%				44.4331		Stressed
55	n-Propylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 103-65-1				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
56	Bromobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-86-1				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
57	1,3,5-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-67-8				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
58	2-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-49-8				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
59	4-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-43-4				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
60	tert-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-06-6				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
61	1,2,4-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 95-63-6				44.2527		Unstressed
	Purity 98%				44.4331		Stressed
62	sec-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 135-98-8				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
63	4-Isopropyltoluene (p-Cymene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 99-87-6				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
64	1,3-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 541-73-1				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
65	1,4-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-46-7				44.2531		Unstressed
	Purity 99%				44.4335		Stressed
66	n-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 104-51-8				44.2531		Unstressed
	Purity 99%				44.4335		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)

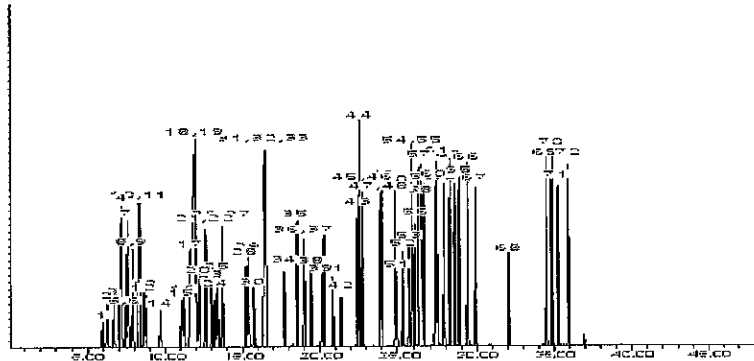
Carrier Gas:
helium-constant pressure 30 psi

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

VOA8260MEGA1_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 **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)

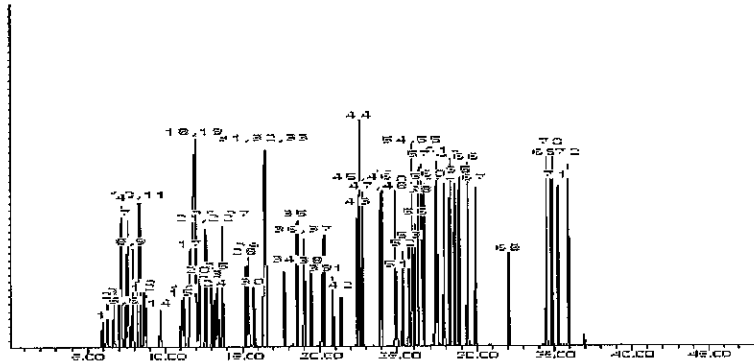
Carrier Gas:
helium-constant pressure 30 psi

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_00011



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

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

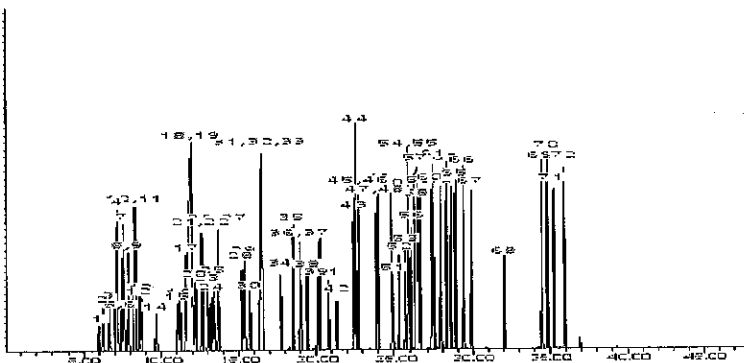
200°C

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_00063



CERTIFIED REFERENCE MATERIAL

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Bellefonte, PA 16823-8812
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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

VOA8260SURRES_00087

RESTEK® CERTIFIED REFERENCE MATERIAL

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567650 **Lot No.:** A0102817
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 : April 30, 2019 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Dibromofluoromethane	2,503.8 µg/mL	+/-	14.5573	µg/mL	Gravimetric
	CAS # 1868-53-7 (Lot 022012)		+/-	28.2339	µg/mL	Unstressed
	Purity 99%		+/-	32.4891	µg/mL	Stressed
2	1,2-Dichloroethane-d4	2,502.4 µg/mL	+/-	14.5492	µg/mL	Gravimetric
	CAS # 17060-07-0 (Lot 13J-483)		+/-	28.2182	µg/mL	Unstressed
	Purity 99%		+/-	32.4709	µg/mL	Stressed
3	Toluene-d8	2,500.0 µg/mL	+/-	14.5352	µg/mL	Gravimetric
	CAS # 2037-26-5 (Lot 13I-050)		+/-	28.1911	µg/mL	Unstressed
	Purity 99%		+/-	32.4398	µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)	2,503.6 µg/mL	+/-	14.5561	µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 01127COV)		+/-	28.2317	µg/mL	Unstressed
	Purity 99%		+/-	32.4865	µg/mL	Stressed

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

Reagent

VOA8260VARES_00050



CERTIFIED REFERENCE MATERIAL

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569724 **Lot No.:** A0108225

Description : 8260 List 1 / Std #6 Vinyl Acetate (2015)
8260 List 1 / Std #6 Vinyl Acetate (2015) 5000 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : July 31, 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)	5,000.0 µg/mL	+/- 29.3428 µg/mL Gravimetric +/- 266.1189 µg/mL Unstressed +/- 266.4123 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

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Bellefonte, PA 16823-8812
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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. : 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

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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. : 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.: 180-43185-1

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-QC2-0/1-2	180-43185-1	118	120	102	92
HD-MW-64S-0/1-0	180-43185-2	113	109	100	90
HD-MW-64S-0/1-0 DL	180-43185-2 DL	103	108	100	93
	MB 180-139148/6	105	116	104	88
	MB 180-139271/5	108	107	101	92
	LCS 180-139148/9	88	92	102	93
	LCS 180-139271/11	87	89	102	93

DBFM = Dibromofluoromethane (Surr)	<u>QC LIMITS</u> 70-128
DCA = 1,2-Dichloroethane-d4 (Surr)	64-135
TOL = Toluene-d8 (Surr)	71-118
BFB = 4-Bromofluorobenzene (Surr)	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.: 180-43185-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 50421009.D
 Lab ID: LCS 180-139148/9 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloromethane	10.0	11.0	110	50-139	
Vinyl chloride	10.0	10.5	105	53-138	
Bromomethane	10.0	13.2	132	33-150	
Chloroethane	10.0	11.8	118	36-142	
1,1-Dichloroethene	10.0	9.29	93	65-136	
Acetone	20.0	17.1	86	22-150	
Carbon disulfide	10.0	5.91	59	54-132	
Methylene Chloride	10.0	10.1	101	63-129	
trans-1,2-Dichloroethene	10.0	9.55	95	73-126	
Methyl tert-butyl ether	10.0	9.15	92	64-123	
1,1-Dichloroethane	10.0	9.74	97	73-126	
cis-1,2-Dichloroethene	10.0	9.05	90	70-120	
Bromochloromethane	10.0	8.80	88	70-127	
2-Butanone (MEK)	20.0	16.6	83	39-138	
Chloroform	10.0	9.97	100	72-127	
1,1,1-Trichloroethane	10.0	10.2	102	63-133	
Carbon tetrachloride	10.0	10.8	108	55-150	
Benzene	10.0	10.2	102	80-120	
1,2-Dichloroethane	10.0	9.53	95	68-132	
Trichloroethene	10.0	9.02	90	73-120	
1,2-Dichloropropane	10.0	9.78	98	76-124	
Bromodichloromethane	10.0	8.88	89	66-130	
cis-1,3-Dichloropropene	10.0	9.47	95	66-120	
4-Methyl-2-pentanone (MIBK)	20.0	17.5	88	45-145	
Toluene	10.0	11.2	112	80-123	
trans-1,3-Dichloropropene	10.0	11.3	113	65-125	
1,1,2-Trichloroethane	10.0	11.5	115	77-127	
Tetrachloroethene	10.0	10.9	109	70-135	
2-Hexanone	20.0	15.2	76	25-132	
Dibromochloromethane	10.0	10.4	104	60-140	
1,2-Dibromoethane (EDB)	10.0	10.7	107	74-123	
Chlorobenzene	10.0	10.7	107	80-120	
1,1,1,2-Tetrachloroethane	10.0	11.9	119	63-140	
Ethylbenzene	10.0	10.2	102	72-126	
Xylenes, Total	20.0	20.1	100	76-128	
Styrene	10.0	10.3	103	71-127	
Bromoform	10.0	9.28	93	46-150	
1,1,2,2-Tetrachloroethane	10.0	10.9	109	62-125	
1,4-Dioxane	200	129 J	64	10-160	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43185-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 50422011.D

Lab ID: LCS 180-139271/11 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloromethane	10.0	12.0	120	50-139	
Vinyl chloride	10.0	10.6	106	53-138	
Bromomethane	10.0	9.51	95	33-150	
Chloroethane	10.0	10.5	105	36-142	
1,1-Dichloroethene	10.0	9.58	96	65-136	
Acetone	20.0	20.6	103	22-150	
Carbon disulfide	10.0	8.49	85	54-132	
Methylene Chloride	10.0	9.27	93	63-129	
trans-1,2-Dichloroethene	10.0	9.43	94	73-126	
Methyl tert-butyl ether	10.0	10.2	102	64-123	
1,1-Dichloroethane	10.0	10.2	102	73-126	
cis-1,2-Dichloroethene	10.0	9.75	98	70-120	
Bromochloromethane	10.0	9.93	99	70-127	
2-Butanone (MEK)	20.0	18.8	94	39-138	
Chloroform	10.0	9.94	99	72-127	
1,1,1-Trichloroethane	10.0	11.0	110	63-133	
Carbon tetrachloride	10.0	12.4	124	55-150	
Benzene	10.0	10.5	105	80-120	
1,2-Dichloroethane	10.0	9.66	97	68-132	
Trichloroethene	10.0	9.68	97	73-120	
1,2-Dichloropropane	10.0	10.5	105	76-124	
Bromodichloromethane	10.0	10.3	103	66-130	
cis-1,3-Dichloropropene	10.0	11.5	115	66-120	
4-Methyl-2-pentanone (MIBK)	20.0	19.1	96	45-145	
Toluene	10.0	11.5	115	80-123	
trans-1,3-Dichloropropene	10.0	13.3	133	65-125	*
1,1,2-Trichloroethane	10.0	11.2	112	77-127	
Tetrachloroethene	10.0	10.7	107	70-135	
2-Hexanone	20.0	17.4	87	25-132	
Dibromochloromethane	10.0	12.0	120	60-140	
1,2-Dibromoethane (EDB)	10.0	11.1	111	74-123	
Chlorobenzene	10.0	11.2	112	80-120	
1,1,1,2-Tetrachloroethane	10.0	13.0	130	63-140	
Ethylbenzene	10.0	10.8	108	72-126	
Xylenes, Total	20.0	21.3	107	76-128	
Styrene	10.0	10.7	107	71-127	
Bromoform	10.0	12.5	125	46-150	
1,1,2,2-Tetrachloroethane	10.0	10.8	108	62-125	
1,4-Dioxane	200	193 J	96	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.: 180-43185-1
 SDG No.: _____
 Lab File ID: 50421006.D Lab Sample ID: MB 180-139148/6
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: CHHP5 Date Analyzed: 04/21/2015 12:50
 GC Column: DB-624 ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 180-139148/9	50421009.D	04/21/2015 14:13
HD-QC2-0/1-2	180-43185-1	50421026.D	04/21/2015 21:03

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-43185-1
 SDG No.: _____
 Lab File ID: 50422005.D Lab Sample ID: MB 180-139271/5
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: CHHP5 Date Analyzed: 04/22/2015 12:26
 GC Column: DB-624 ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 180-139271/11	50422011.D	04/22/2015 15:04
HD-MW-64S-0/1-0 DL	180-43185-2 DL	50422013.D	04/22/2015 15:52
HD-MW-64S-0/1-0	180-43185-2	50422025.D	04/22/2015 20:42

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43185-1
 SDG No.: _____
 Lab File ID: 50316001.D BFB Injection Date: 03/16/2015
 Instrument ID: CHHP5 BFB Injection Time: 10:49
 Analysis Batch No.: 135593

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	22.7
75	30.0 - 60.0 % of mass 95	54.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.9
173	Less than 2.0 % of mass 174	0.8 (0.9)1
174	50.0 - 120.00 % of mass 95	85.5
175	5.0 - 9.0 % of mass 174	6.4 (7.5)1
176	95.0 - 101.0 % of mass 174	83.4 (97.4)1
177	5.0 - 9.0 % of mass 176	4.9 (5.8)2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 180-135593/4	50316004.D	03/16/2015	12:41
	ICIS 180-135593/5	50316005.D	03/16/2015	13:05
	IC 180-135593/6	50316006.D	03/16/2015	13:29
	IC 180-135593/7	50316007.D	03/16/2015	13:53
	IC 180-135593/8	50316008.D	03/16/2015	14:17
	IC 180-135593/9	50316009.D	03/16/2015	14:41
	IC 180-135593/10	50316010.D	03/16/2015	15:05
	IC 180-135593/13	50316013.D	03/16/2015	16:17

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43185-1
 SDG No.: _____
 Lab File ID: 50421004.D BFB Injection Date: 04/21/2015
 Instrument ID: CHHP5 BFB Injection Time: 10:57
 Analysis Batch No.: 139148

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	22.1
75	30.0 - 60.0 % of mass 95	52.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.9
173	Less than 2.0 % of mass 174	0.5 (0.6)1
174	50.0 - 120.00 % of mass 95	81.6
175	5.0 - 9.0 % of mass 174	6.2 (7.7)1
176	95.0 - 101.0 % of mass 174	82.1 (100.6)1
177	5.0 - 9.0 % of mass 176	5.2 (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
	CCVIS 180-139148/2	50421002.D	04/21/2015	11:38
	CCV 180-139148/3	50421003.D	04/21/2015	12:02
	MB 180-139148/6	50421006.D	04/21/2015	12:50
	LCS 180-139148/9	50421009.D	04/21/2015	14:13
HD-QC2-0/1-2	180-43185-1	50421026.D	04/21/2015	21:03

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43185-1
 SDG No.: _____
 Lab File ID: 50422001.D BFB Injection Date: 04/22/2015
 Instrument ID: CHHP5 BFB Injection Time: 10:27
 Analysis Batch No.: 139271

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	23.5
75	30.0 - 60.0 % of mass 95	54.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.1
173	Less than 2.0 % of mass 174	0.3 (0.4)1
174	50.0 - 120.00 % of mass 95	73.2
175	5.0 - 9.0 % of mass 174	6.1 (8.3)1
176	95.0 - 101.0 % of mass 174	72.2 (98.6)1
177	5.0 - 9.0 % of mass 176	4.5 (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
	CCVIS 180-139271/2	50422002.D	04/22/2015	11:10
	CCV 180-139271/3	50422003.D	04/22/2015	11:34
	MB 180-139271/5	50422005.D	04/22/2015	12:26
	LCS 180-139271/11	50422011.D	04/22/2015	15:04
HD-MW-64S-0/1-0 DL	180-43185-2 DL	50422013.D	04/22/2015	15:52
HD-MW-64S-0/1-0	180-43185-2	50422025.D	04/22/2015	20:42

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43185-1
 SDG No.: _____
 Sample No.: CCVIS 180-139148/2 Date Analyzed: 04/21/2015 11:38
 Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): 50421002.D Heated Purge: (Y/N) N
 Calibration ID: 22514

	TBA		FB		CBZ		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	175229	4.32	603627	7.27	130536	10.36	
UPPER LIMIT	350458	4.82	1207254	7.77	261072	10.86	
LOWER LIMIT	87615	3.82	301814	6.77	65268	9.86	
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 180-139148/3	167650	4.31	556504	7.28	121708	10.36	
MB 180-139148/6	177829	4.30	527912	7.28	115506	10.36	
LCS 180-139148/9	118836	4.32	561426	7.27	116616	10.36	
180-43185-1	HD-QC2-0/1-2	149075	4.30	415845	7.27	88438	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.: 180-43185-1
 SDG No.: _____
 Sample No.: CCVIS 180-139148/2 Date Analyzed: 04/21/2015 11:38
 Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): 50421002.D Heated Purge: (Y/N) N
 Calibration ID: 22514

	DCB					
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	192725	12.68				
UPPER LIMIT	385450	13.18				
LOWER LIMIT	96363	12.18				
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCV 180-139148/3	139147	12.69				
MB 180-139148/6	151681	12.68				
LCS 180-139148/9	180594	12.68				
180-43185-1	HD-QC2-0/1-2	126078	12.68			

DCB = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43185-1
 SDG No.: _____
 Sample No.: CCVIS 180-139271/2 Date Analyzed: 04/22/2015 11:10
 Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): 50422002.D Heated Purge: (Y/N) N
 Calibration ID: 22514

	TBA		FB		CBZ		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	171608	4.32	490767	7.27	106446	10.36	
UPPER LIMIT	343216	4.82	981534	7.77	212892	10.86	
LOWER LIMIT	85804	3.82	245384	6.77	53223	9.86	
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 180-139271/3		175699	4.31	464929	7.28	103486	10.36
MB 180-139271/5		181176	4.30	439847	7.28	102513	10.36
LCS 180-139271/11		174890	4.33	507939	7.27	110600	10.36
180-43185-2 DL	HD-MW-64S-0/1-0 DL	180280	4.30	471372	7.28	109155	10.36
180-43185-2	HD-MW-64S-0/1-0	115637	4.31	384868	7.27	91198	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.: 180-43185-1
 SDG No.: _____
 Sample No.: CCVIS 180-139271/2 Date Analyzed: 04/22/2015 11:10
 Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): 50422002.D Heated Purge: (Y/N) N
 Calibration ID: 22514

	DCB					
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	159586	12.68				
UPPER LIMIT	319172	13.18				
LOWER LIMIT	79793	12.18				
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCV 180-139271/3		127904	12.68			
MB 180-139271/5		139298	12.68			
LCS 180-139271/11		169720	12.68			
180-43185-2 DL	HD-MW-64S-0/1-0 DL	156596	12.69			
180-43185-2	HD-MW-64S-0/1-0	138301	12.68			

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.: 180-43185-1
 SDG No.: _____
 Client Sample ID: HD-QC2-0/1-2 Lab Sample ID: 180-43185-1
 Matrix: Water Lab File ID: 50421026.D
 Analysis Method: 8260C Date Collected: 04/16/2015 12:00
 Sample wt/vol: 5(mL) Date Analyzed: 04/21/2015 21:03
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 139148 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	0.20	J	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.: 180-43185-1
 SDG No.: _____
 Client Sample ID: HD-QC2-0/1-2 Lab Sample ID: 180-43185-1
 Matrix: Water Lab File ID: 50421026.D
 Analysis Method: 8260C Date Collected: 04/16/2015 12:00
 Sample wt/vol: 5(mL) Date Analyzed: 04/21/2015 21:03
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 139148 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)	120		64-135
2037-26-5	Toluene-d8 (Surr)	102		71-118
460-00-4	4-Bromofluorobenzene (Surr)	92		70-118
1868-53-7	Dibromofluoromethane (Surr)	118		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150421-6566.b\50421026.D
 Lims ID: 180-43185-B-1 Lab Sample ID: 180-43185-1
 Client ID: HD-QC2-0/1-2
 Sample Type: Client
 Inject. Date: 21-Apr-2015 21:03:30 ALS Bottle#: 25 Worklist Smp#: 26
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-43185-B-1
 Misc. Info.: 180-0006566-026
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\PITCHROM\ChromData\CHHP5\20150421-6566.b\MMSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 22-Apr-2015 08:15:56 Calib Date: 14-Apr-2015 13:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150414-6459.b\50414005.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: fergusond

Date: 22-Apr-2015 08:15:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.303	4.309	-0.006	0	149075	1000.0	
* 2 Fluorobenzene (IS)	96	7.271	7.277	-0.006	99	415845	50.0	
* 3 Chlorobenzene-d5	119	10.362	10.362	0.000	89	88438	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.680	12.686	-0.006	98	126078	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.535	6.531	0.004	92	111756	59.1	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.900	6.902	-0.002	0	149340	59.9	
\$ 7 Toluene-d8 (Surr)	98	8.926	8.922	0.004	94	360590	51.1	
\$ 8 4-Bromofluorobenzene (Surr	95	11.530	11.532	-0.002	90	116550	45.9	
12 Chloromethane	50		1.792				ND	
13 Vinyl chloride	62		1.914				ND	
15 Bromomethane	94		2.260				ND	
16 Chloroethane	64		2.406				ND	
22 1,1-Dichloroethene	96		3.410				ND	
24 Acetone	43	3.494	3.502	-0.008	29	3917	4.60	M
26 Carbon disulfide	76		3.672				ND	
31 Methylene Chloride	84	4.157	4.140	0.017	4	2707	0.9761	M
33 Acrylonitrile	53		4.554				ND	
34 trans-1,2-Dichloroethene	96		4.560				ND	
35 Methyl tert-butyl ether	73		4.597				ND	
37 1,1-Dichloroethane	63		5.174				ND	
45 cis-1,2-Dichloroethene	96		5.941				ND	
46 2-Butanone (MEK)	43		5.984				ND	
49 Chlorobromomethane	128		6.227				ND	
52 Chloroform	83		6.343				ND	
53 1,1,1-Trichloroethane	97		6.525				ND	
56 Carbon tetrachloride	117		6.720				ND	
58 Benzene	78		6.957				ND	
59 1,2-Dichloroethane	62		6.981				ND	
64 Trichloroethene	130		7.663				ND	
67 1,2-Dichloropropane	63		7.900				ND	
70 1,4-Dioxane	88		8.058				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.198				ND	
74 cis-1,3-Dichloropropene	75		8.654				ND	
75 4-Methyl-2-pentanone (MIBK)	43		8.818				ND	
76 Toluene	91		8.989				ND	
77 trans-1,3-Dichloropropene	75		9.214				ND	
79 1,1,2-Trichloroethane	97		9.402				ND	
80 Tetrachloroethene	164		9.536				ND	
82 2-Hexanone	43		9.652				ND	
84 Chlorodibromomethane	129		9.792				ND	
85 Ethylene Dibromide	107		9.895				ND	
87 Chlorobenzene	112		10.388				ND	
89 1,1,1,2-Tetrachloroethane	131		10.473				ND	
90 Ethylbenzene	106		10.498				ND	
91 m-Xylene & p-Xylene	106		10.619				ND	
92 o-Xylene	106		11.009				ND	
93 Styrene	104		11.027				ND	
94 Bromoform	173		11.209				ND	
99 1,1,2,2-Tetrachloroethane	83		11.672				ND	
S 133 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00031

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00033

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150421-6566.b\50421026.D

Injection Date: 21-Apr-2015 21:03:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: 180-43185-B-1

Lab Sample ID: 180-43185-1

Worklist Smp#: 26

Client ID: HD-QC2-0/1-2

Purge Vol: 5.000 mL

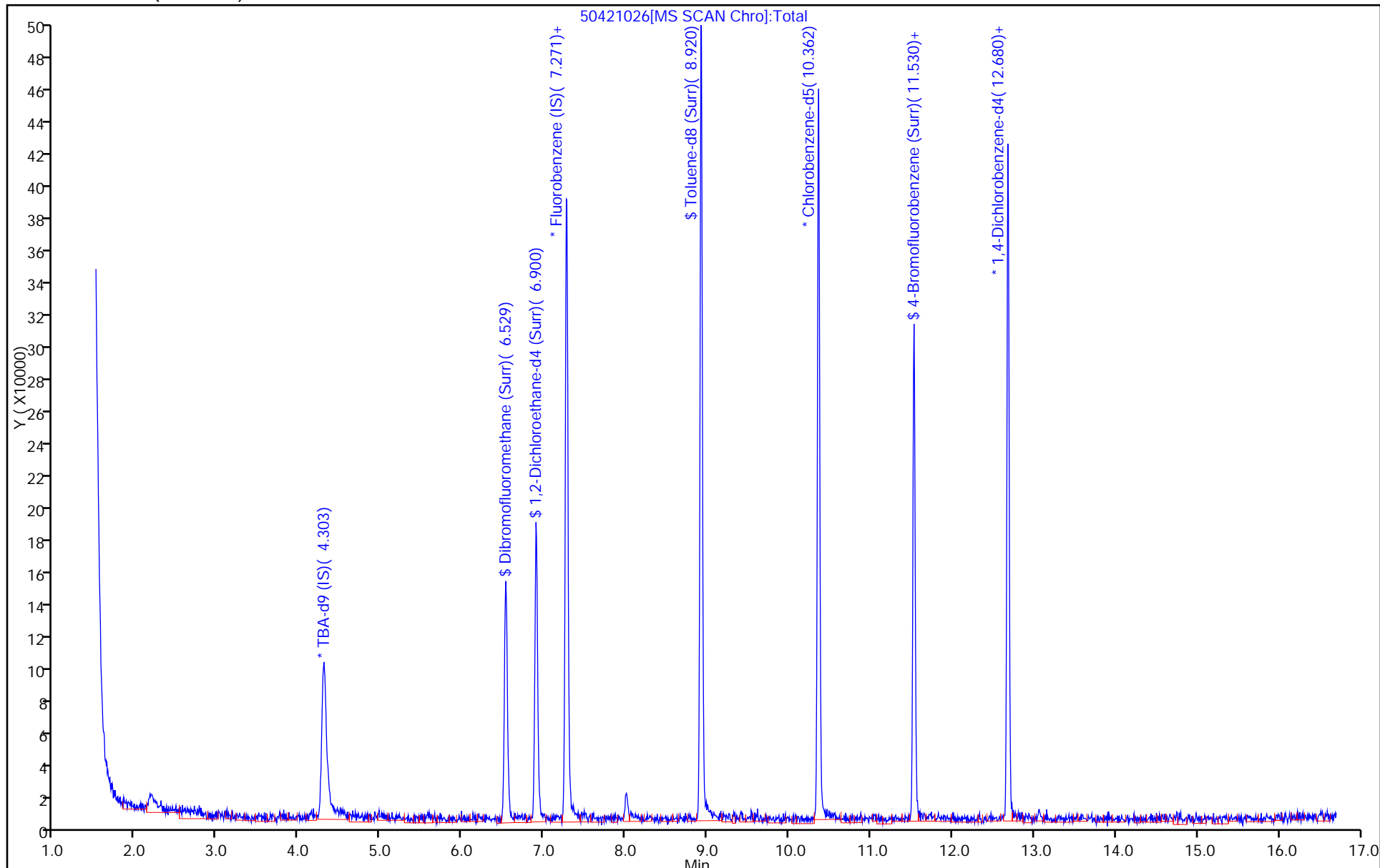
Dil. Factor: 1.0000

ALS Bottle#: 25

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150421-6566.b\50421026.D

Injection Date: 21-Apr-2015 21:03:30

Instrument ID: CHHP5

Lims ID: 180-43185-B-1

Lab Sample ID: 180-43185-1

Client ID: HD-QC2-0/1-2

Operator ID: 001562

ALS Bottle#: 25

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

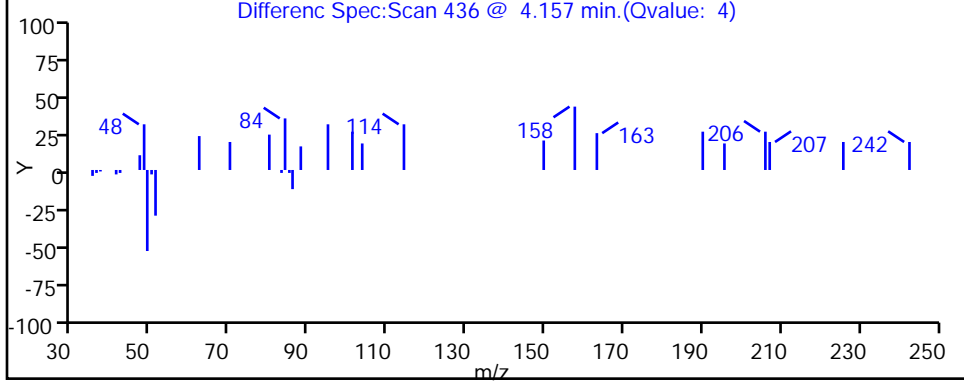
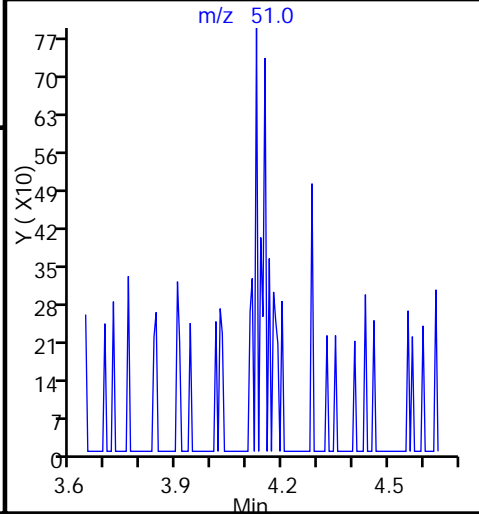
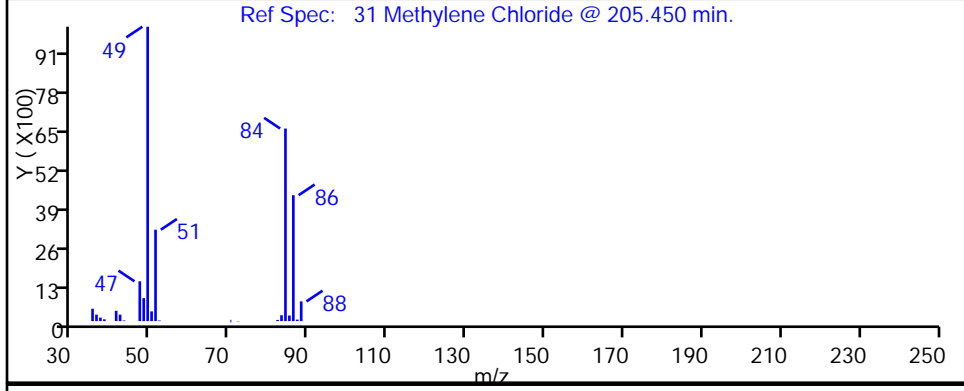
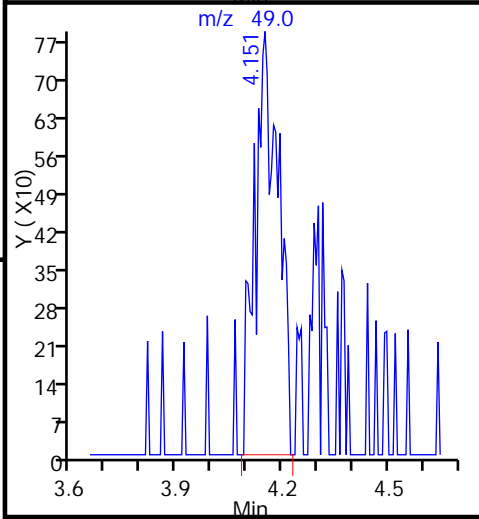
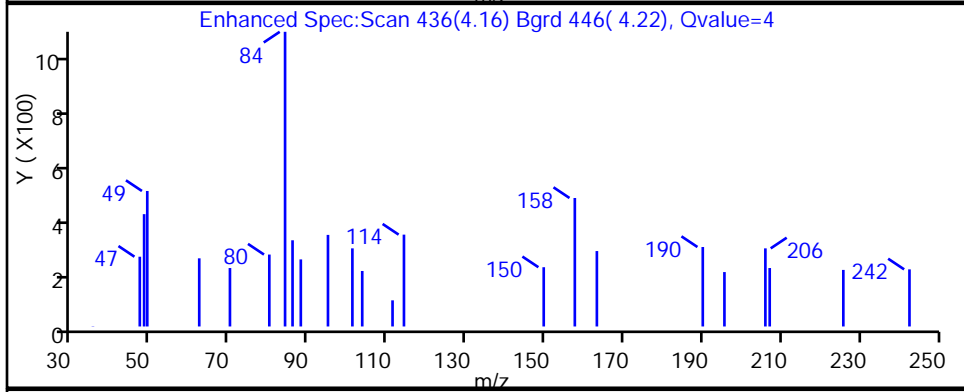
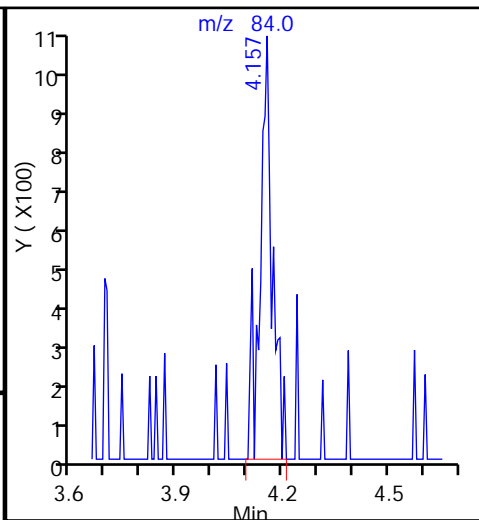
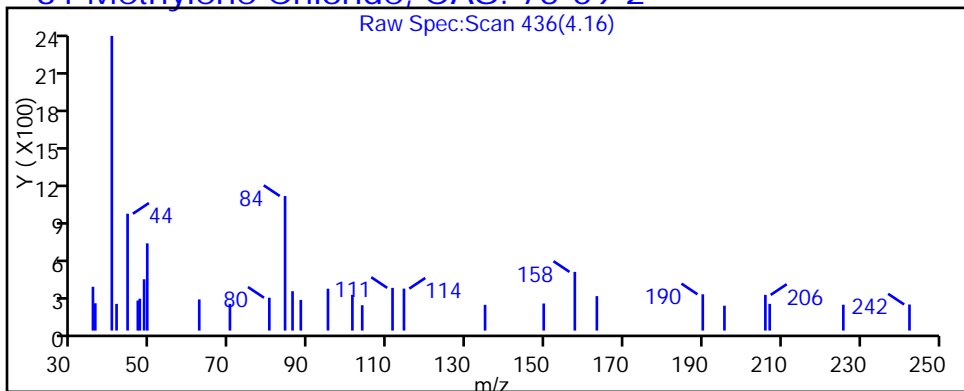
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



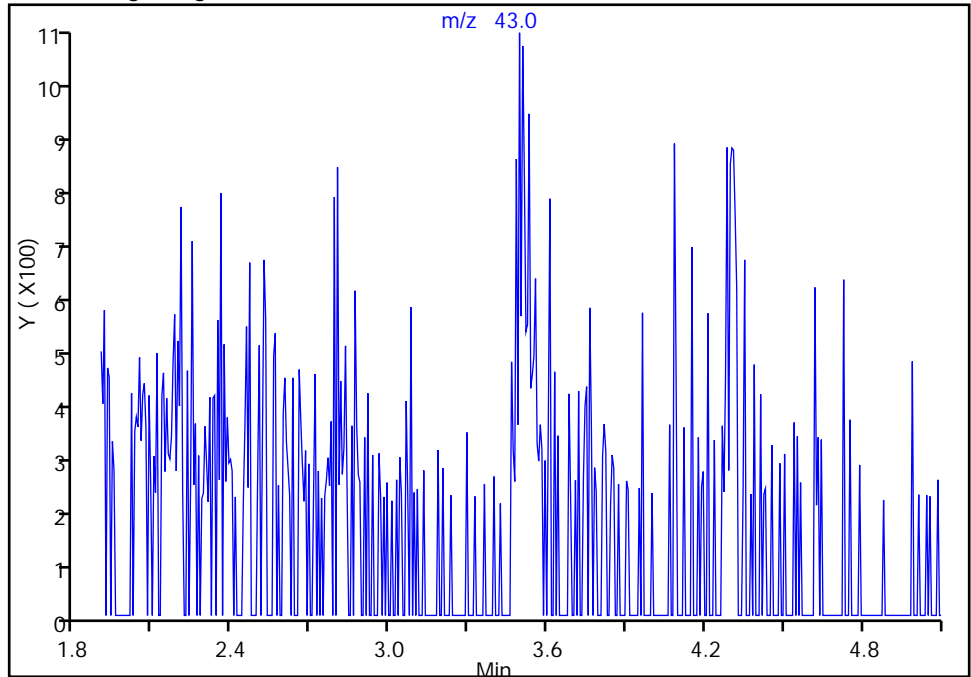
TestAmerica Pittsburgh

Data File:	\\PITCHROM\ChromData\CHHP5\20150421-6566.b\50421026.D	Instrument ID:	CHHP5	Worklist Smp#:	26
Injection Date:	21-Apr-2015 21:03:30	Lab Sample ID:	180-43185-1		
Lims ID:	180-43185-B-1				
Client ID:	HD-QC2-0/1-2				
Operator ID:	001562	ALS Bottle#:	25		
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

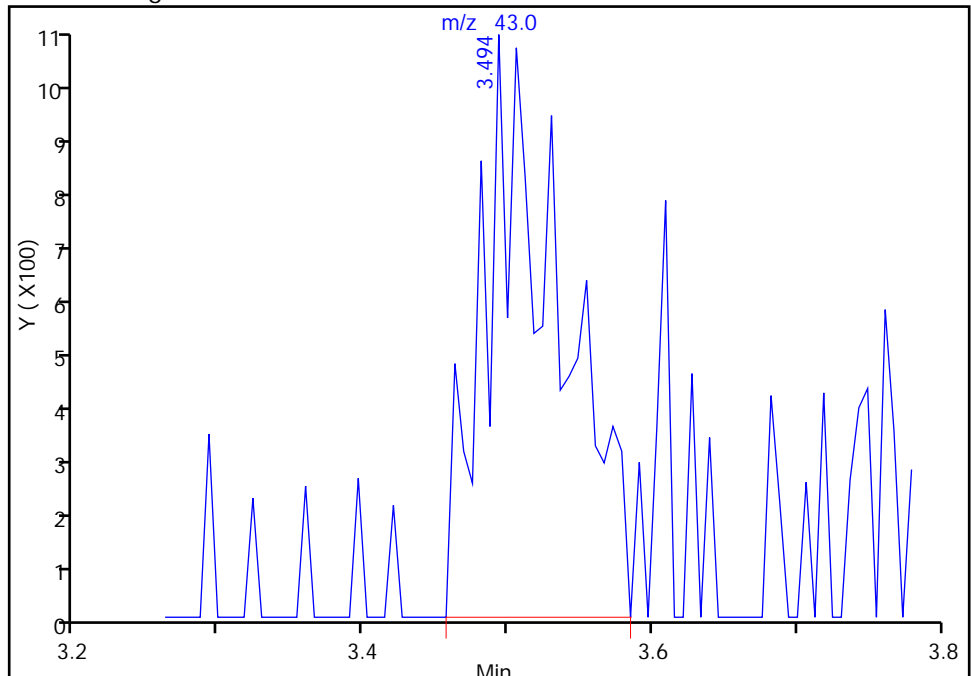
Not Detected
Expected RT: 3.50

Processing Integration Results



Manual Integration Results

RT: 3.49
Area: 3917
Amount: 4.598126
Amount Units: ng



Reviewer: fergusond, 22-Apr-2015 08:15:56
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

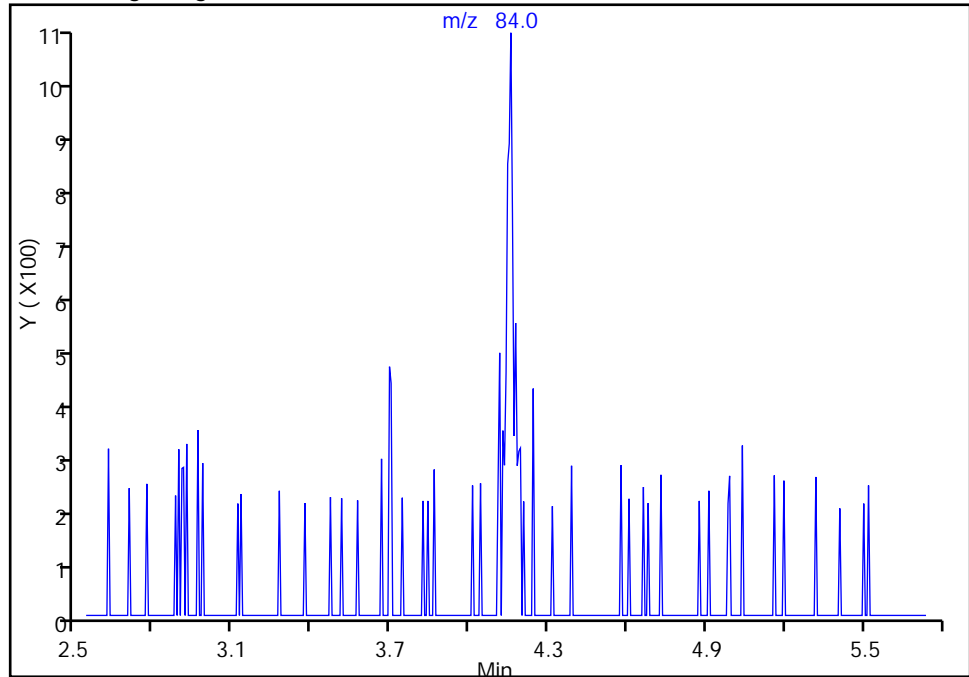
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150421-6566.b\50421026.D
Injection Date: 21-Apr-2015 21:03:30 Instrument ID: CHHP5
Lims ID: 180-43185-B-1 Lab Sample ID: 180-43185-1
Client ID: HD-QC2-0/1-2
Operator ID: 001562 ALS Bottle#: 25 Worklist Smp#: 26
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

31 Methylene Chloride, CAS: 75-09-2

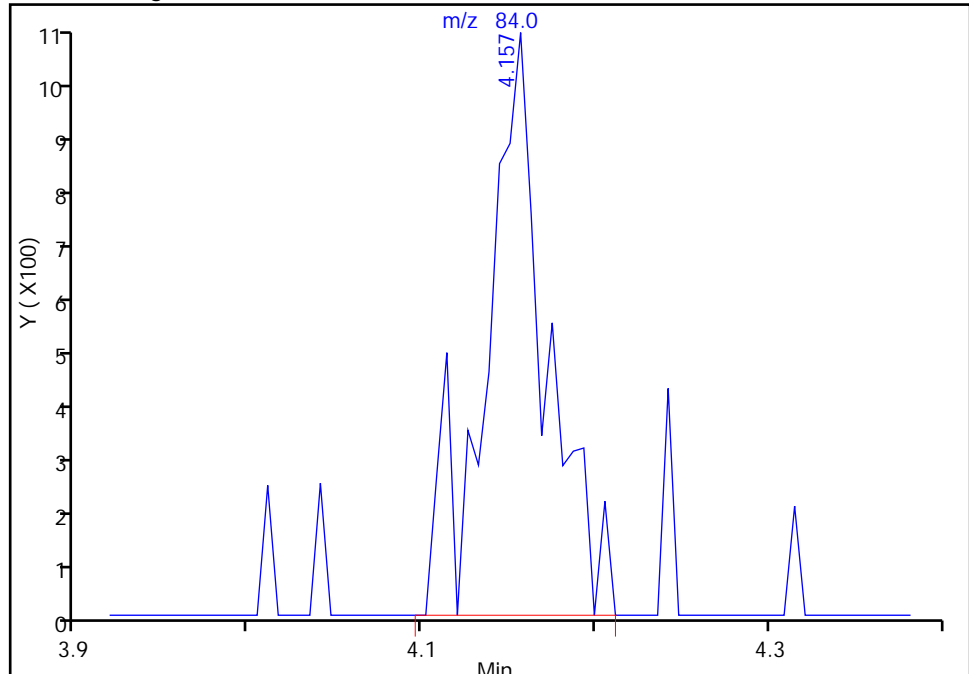
Not Detected
Expected RT: 4.14

Processing Integration Results



RT: 4.16
Area: 2707
Amount: 0.976100
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 22-Apr-2015 08:15:56
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-43185-1
 SDG No.: _____
 Client Sample ID: HD-MW-64S-0/1-0 Lab Sample ID: 180-43185-2
 Matrix: Water Lab File ID: 50422025.D
 Analysis Method: 8260C Date Collected: 04/16/2015 09:20
 Sample wt/vol: 5(mL) Date Analyzed: 04/22/2015 20:42
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 139271 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	51	E	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	74	E	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.: 180-43185-1
 SDG No.: _____
 Client Sample ID: HD-MW-64S-0/1-0 Lab Sample ID: 180-43185-2
 Matrix: Water Lab File ID: 50422025.D
 Analysis Method: 8260C Date Collected: 04/16/2015 09:20
 Sample wt/vol: 5(mL) Date Analyzed: 04/22/2015 20:42
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 139271 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)	109		64-135
2037-26-5	Toluene-d8 (Surr)	100		71-118
460-00-4	4-Bromofluorobenzene (Surr)	90		70-118
1868-53-7	Dibromofluoromethane (Surr)	113		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150422-6584.b\50422025.D
 Lims ID: 180-43185-C-2 Lab Sample ID: 180-43185-2
 Client ID: HD-MW-64S-0/1-0
 Sample Type: Client
 Inject. Date: 22-Apr-2015 20:42:30 ALS Bottle#: 25 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-43185-C-2
 Misc. Info.: 180-0006584-025
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\PITCHROM\ChromData\CHHP5\20150422-6584.b\MMSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 23-Apr-2015 08:57:35 Calib Date: 14-Apr-2015 13:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150414-6459.b\50414005.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: fergusond

Date: 23-Apr-2015 08:57:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.306	4.309	-0.003	0	115637	1000.0	
* 2 Fluorobenzene (IS)	96	7.274	7.278	-0.004	98	384868	50.0	
* 3 Chlorobenzene-d5	119	10.359	10.362	-0.003	88	91198	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.682	12.680	0.002	96	138301	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.532	6.526	0.006	92	99254	56.7	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.903	6.897	0.006	0	125533	54.4	
\$ 7 Toluene-d8 (Surr)	98	8.923	8.923	0.000	93	364386	50.1	
\$ 8 4-Bromofluorobenzene (Surr	95	11.527	11.532	-0.005	90	118190	45.1	
12 Chloromethane	50		1.793				ND	
13 Vinyl chloride	62		1.921				ND	
15 Bromomethane	94		2.273				ND	
16 Chloroethane	64		2.432				ND	
22 1,1-Dichloroethene	96		3.405				ND	
24 Acetone	43		3.508				ND	
26 Carbon disulfide	76		3.685				ND	
31 Methylene Chloride	84		4.147				ND	
33 Acrylonitrile	53		4.555				ND	
34 trans-1,2-Dichloroethene	96		4.567				ND	
35 Methyl tert-butyl ether	73		4.603				ND	
37 1,1-Dichloroethane	63		5.169				ND	
45 cis-1,2-Dichloroethene	96	5.942	5.936	0.006	1	1300	0.5375	
46 2-Butanone (MEK)	43		5.990				ND	
49 Chlorobromomethane	128		6.228				ND	
52 Chloroform	83		6.343				ND	
53 1,1,1-Trichloroethane	97		6.532				ND	
56 Carbon tetrachloride	117		6.720				ND	
58 Benzene	78		6.952				ND	
59 1,2-Dichloroethane	62		6.988				ND	
64 Trichloroethene	130	7.670	7.663	0.007	97	580666	254.1	E
67 1,2-Dichloropropane	63		7.901				ND	
70 1,4-Dioxane	88		8.053				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.199				ND	
74 cis-1,3-Dichloropropene	75		8.661				ND	
75 4-Methyl-2-pentanone (MIBK)	43		8.819				ND	
76 Toluene	91		8.990				ND	
77 trans-1,3-Dichloropropene	75		9.221				ND	
79 1,1,2-Trichloroethane	97		9.397				ND	
80 Tetrachloroethene	164	9.537	9.537	0.000	94	680059	372.0	E
82 2-Hexanone	43		9.653				ND	
84 Chlorodibromomethane	129		9.786				ND	
85 Ethylene Dibromide	107		9.902				ND	
87 Chlorobenzene	112		10.389				ND	
89 1,1,1,2-Tetrachloroethane	131		10.468				ND	
90 Ethylbenzene	106		10.498				ND	
91 m-Xylene & p-Xylene	106		10.614				ND	
92 o-Xylene	106		11.009				ND	
93 Styrene	104		11.021				ND	
94 Bromoform	173		11.210				ND	
99 1,1,2,2-Tetrachloroethane	83		11.672				ND	
S 133 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

VOA8260INT_00031

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00033

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150422-6584.b\50422025.D

Injection Date: 22-Apr-2015 20:42:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: 180-43185-C-2

Lab Sample ID: 180-43185-2

Worklist Smp#: 25

Client ID: HD-MW-64S-0/1-0

Purge Vol: 5.000 mL

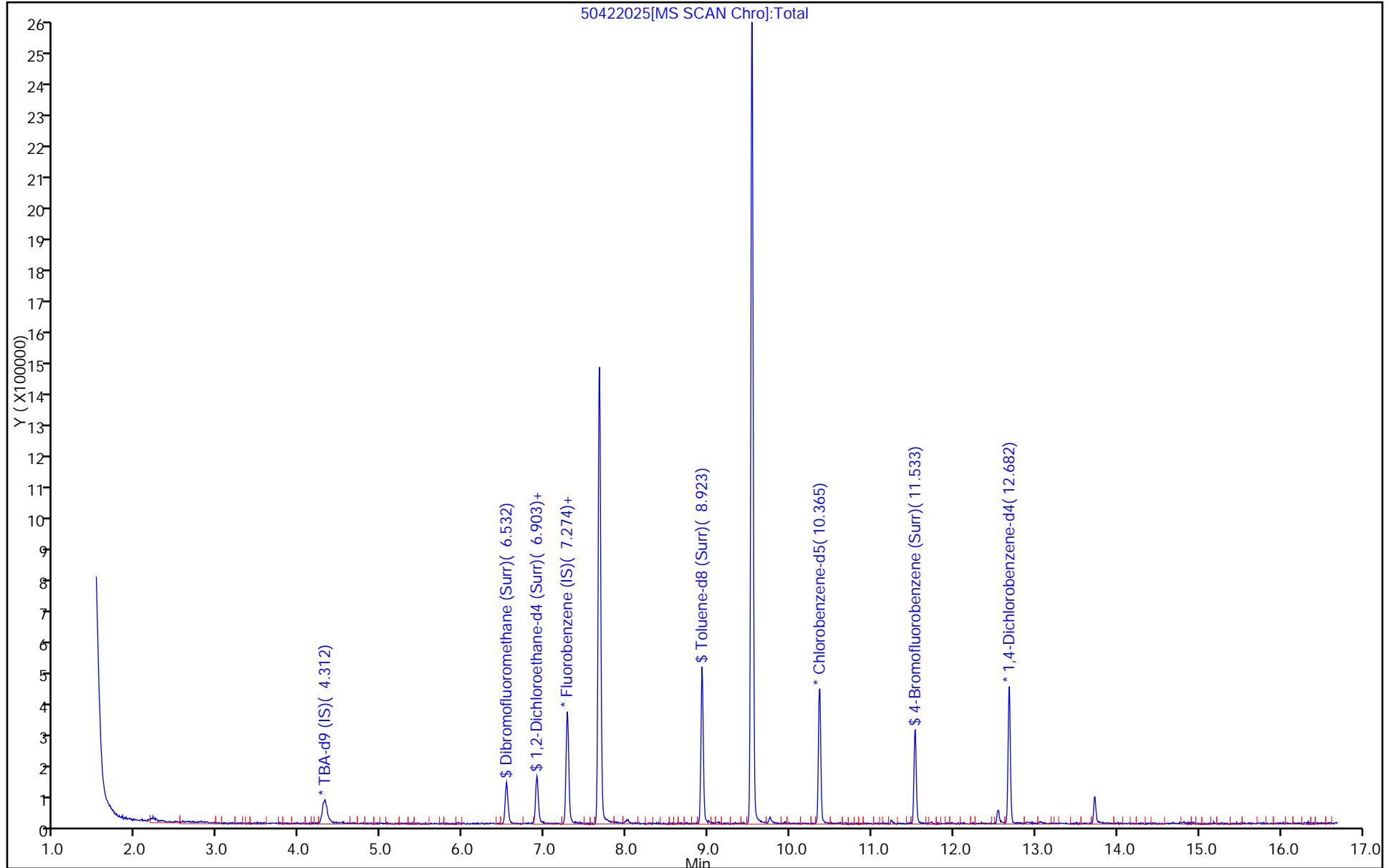
Dil. Factor: 1.0000

ALS Bottle#: 25

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150422-6584.b\50422025.D

Injection Date: 22-Apr-2015 20:42:30

Instrument ID: CHHP5

Lims ID: 180-43185-C-2

Lab Sample ID: 180-43185-2

Client ID: HD-MW-64S-0/1-0

Operator ID: 001562

ALS Bottle#: 25

Worklist Smp#: 25

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

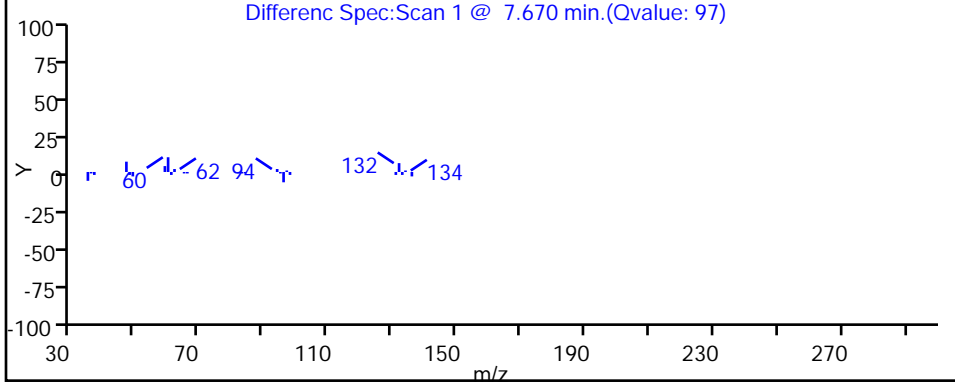
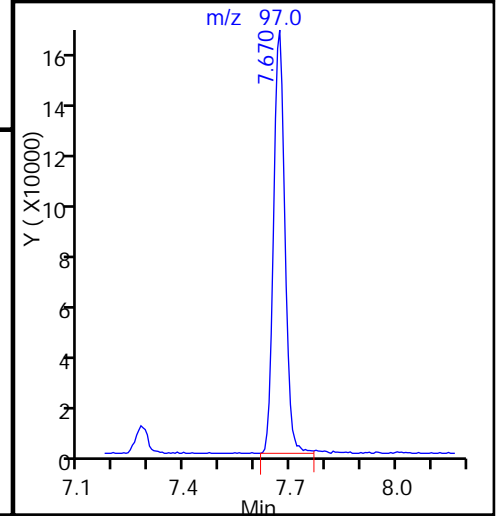
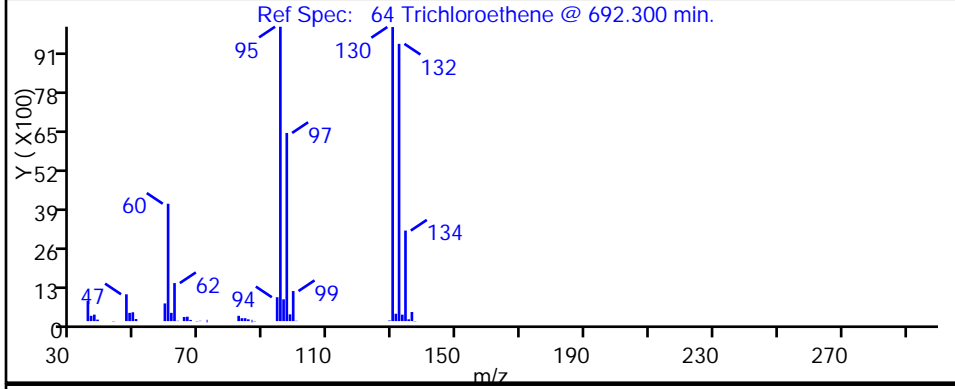
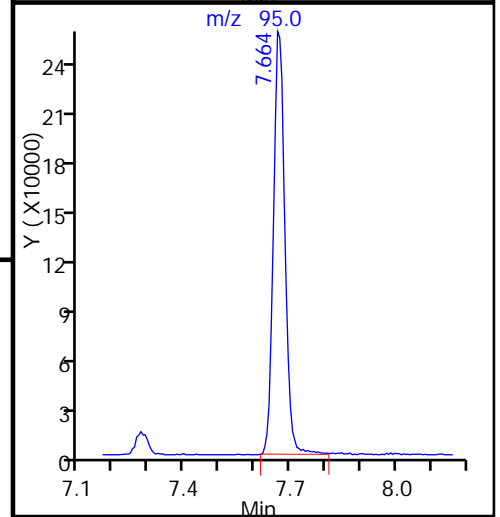
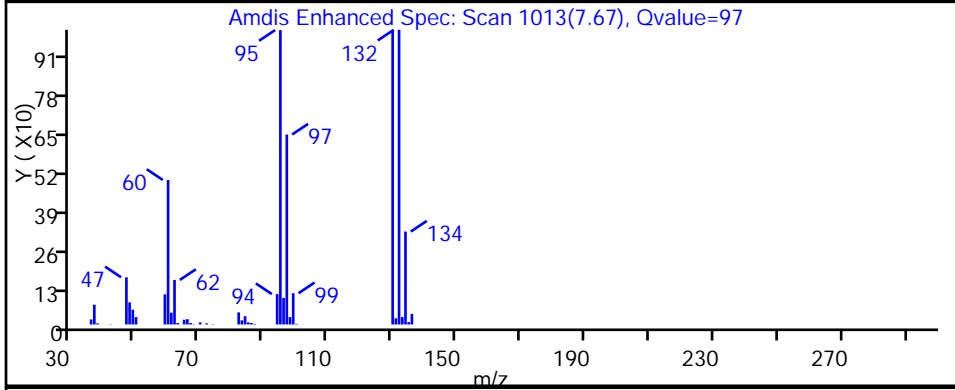
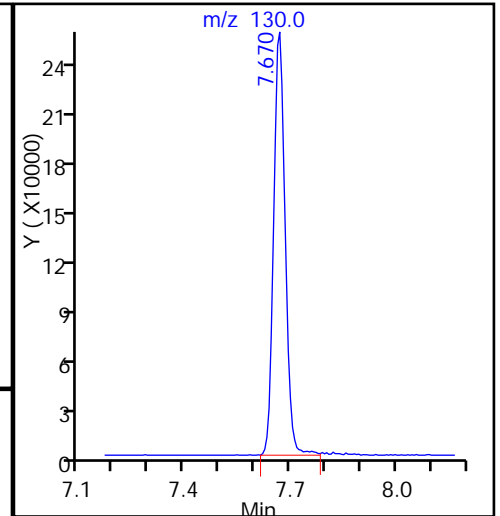
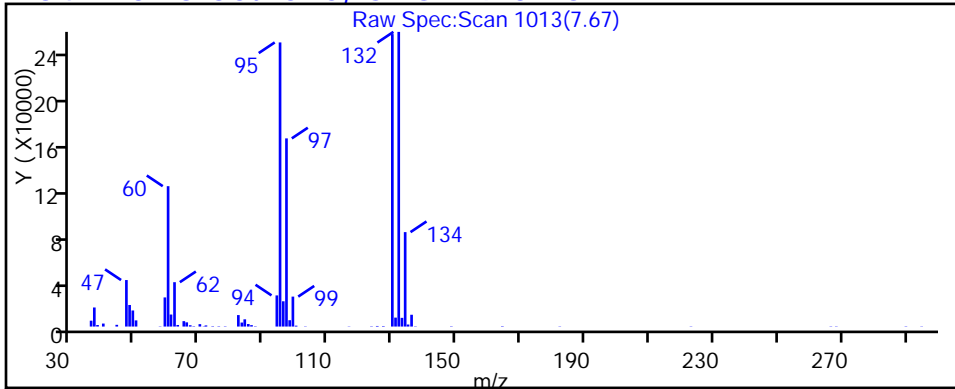
Method: MSVOA_LL_CHHP5

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\20150422-6584.b\50422025.D

Injection Date: 22-Apr-2015 20:42:30

Instrument ID: CHHP5

Lims ID: 180-43185-C-2

Lab Sample ID: 180-43185-2

Client ID: HD-MW-64S-0/1-0

Operator ID: 001562

ALS Bottle#: 25

Worklist Smp#: 25

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

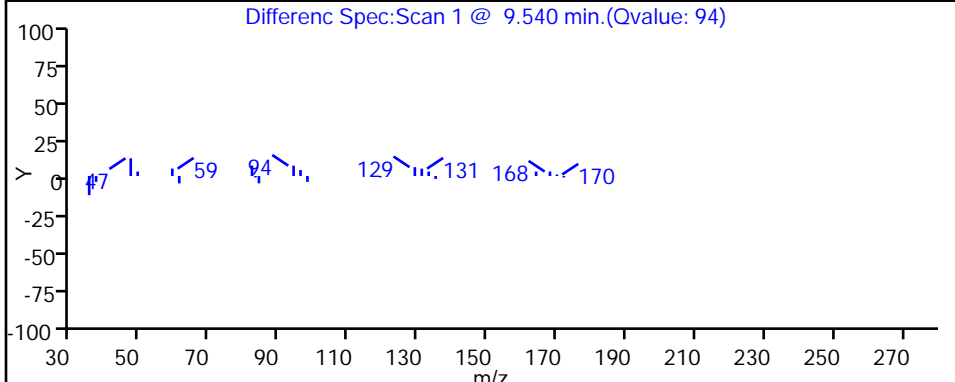
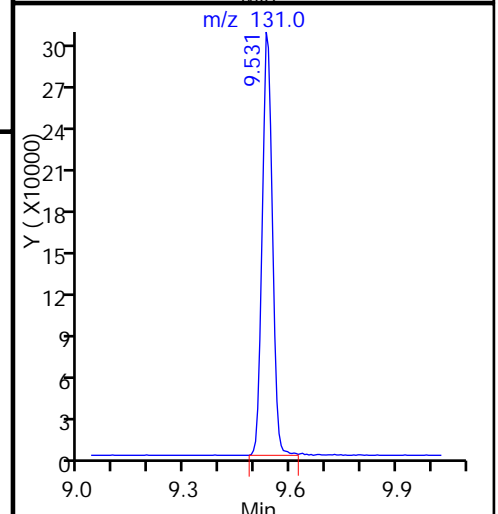
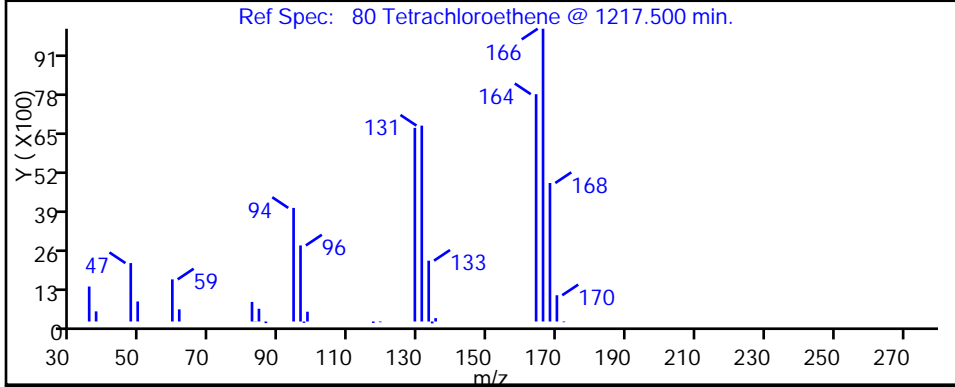
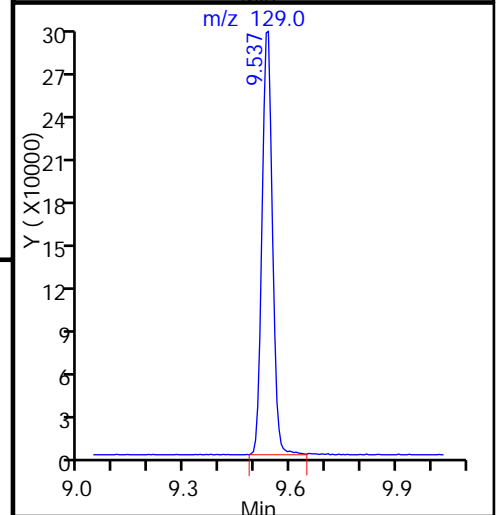
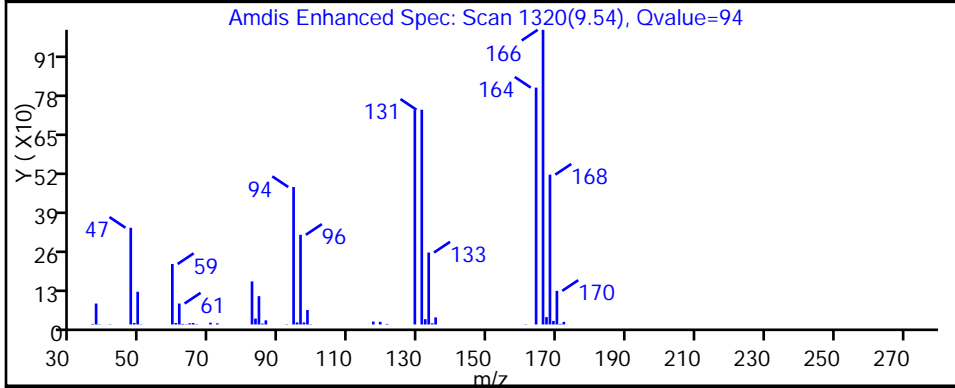
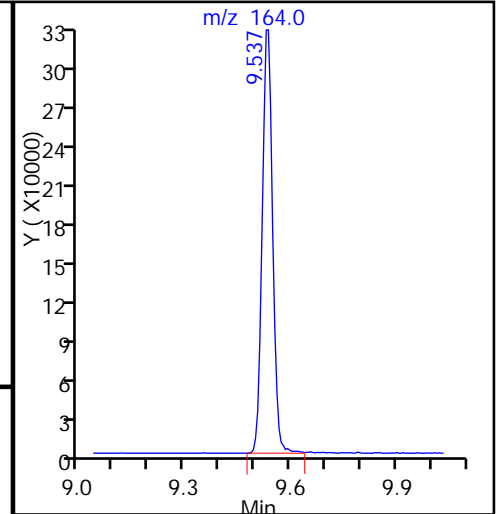
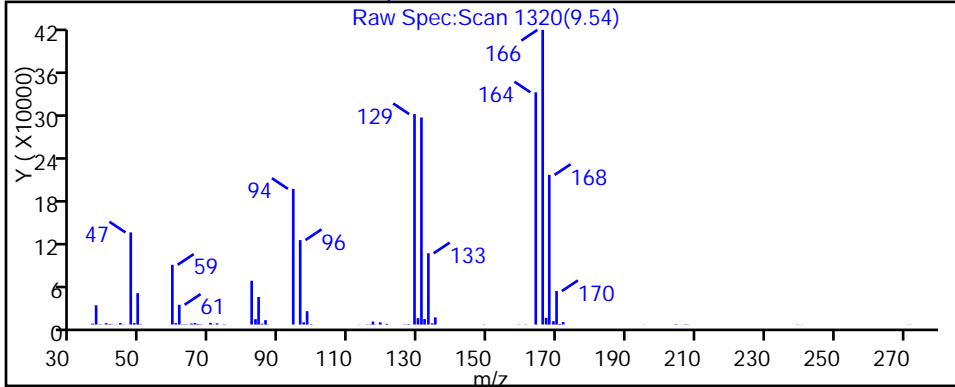
Method: MSVOA_LL_CHHP5

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.: 180-43185-1
 SDG No.: _____
 Client Sample ID: HD-MW-64S-0/1-0 DL Lab Sample ID: 180-43185-2 DL
 Matrix: Water Lab File ID: 50422013.D
 Analysis Method: 8260C Date Collected: 04/16/2015 09:20
 Sample wt/vol: 5(mL) Date Analyzed: 04/22/2015 15:52
 Soil Aliquot Vol: _____ Dilution Factor: 2
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 139271 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	2.0	U	2.0	0.57
75-01-4	Vinyl chloride	2.0	U	2.0	0.45
74-83-9	Bromomethane	2.0	U	2.0	0.63
75-00-3	Chloroethane	2.0	U	2.0	0.43
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.59
67-64-1	Acetone	10	U	10	5.0
75-15-0	Carbon disulfide	2.0	U	2.0	0.42
75-09-2	Methylene Chloride	0.79	J B	2.0	0.25
156-60-5	trans-1,2-Dichloroethene	2.0	U	2.0	0.34
1634-04-4	Methyl tert-butyl ether	2.0	U	2.0	0.37
75-34-3	1,1-Dichloroethane	2.0	U	2.0	0.23
156-59-2	cis-1,2-Dichloroethene	2.0	U	2.0	0.47
74-97-5	Bromochloromethane	2.0	U	2.0	0.36
78-93-3	2-Butanone (MEK)	10	U	10	1.1
67-66-3	Chloroform	2.0	U	2.0	0.34
71-55-6	1,1,1-Trichloroethane	2.0	U	2.0	0.57
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.27
71-43-2	Benzene	2.0	U	2.0	0.21
107-06-2	1,2-Dichloroethane	2.0	U	2.0	0.42
79-01-6	Trichloroethene	45		2.0	0.29
78-87-5	1,2-Dichloropropane	2.0	U	2.0	0.19
75-27-4	Bromodichloromethane	2.0	U	2.0	0.26
10061-01-5	cis-1,3-Dichloropropene	2.0	U	2.0	0.37
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	1.1
108-88-3	Toluene	2.0	U	2.0	0.30
10061-02-6	trans-1,3-Dichloropropene	2.0	U *	2.0	0.30
79-00-5	1,1,2-Trichloroethane	2.0	U	2.0	0.40
127-18-4	Tetrachloroethene	70		2.0	0.30
591-78-6	2-Hexanone	10	U	10	0.32
124-48-1	Dibromochloromethane	2.0	U	2.0	0.27
106-93-4	1,2-Dibromoethane (EDB)	2.0	U	2.0	0.36
108-90-7	Chlorobenzene	2.0	U	2.0	0.27
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	2.0	0.55
100-41-4	Ethylbenzene	2.0	U	2.0	0.45
1330-20-7	Xylenes, Total	6.0	U	6.0	0.98
100-42-5	Styrene	2.0	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-43185-1
 SDG No.: _____
 Client Sample ID: HD-MW-64S-0/1-0 DL Lab Sample ID: 180-43185-2 DL
 Matrix: Water Lab File ID: 50422013.D
 Analysis Method: 8260C Date Collected: 04/16/2015 09:20
 Sample wt/vol: 5(mL) Date Analyzed: 04/22/2015 15:52
 Soil Aliquot Vol: _____ Dilution Factor: 2
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 139271 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	2.0	U	2.0	0.38
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.40
107-13-1	Acrylonitrile	40	U	40	1.1
123-91-1	1,4-Dioxane	400	U	400	69

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		64-135
2037-26-5	Toluene-d8 (Surr)	100		71-118
460-00-4	4-Bromofluorobenzene (Surr)	93		70-118
1868-53-7	Dibromofluoromethane (Surr)	103		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150422-6584.b\50422013.D
 Lims ID: 180-43185-B-2 Lab Sample ID: 180-43185-2
 Client ID: HD-MW-64S-0/1-0
 Sample Type: Client
 Inject. Date: 22-Apr-2015 15:52:30 ALS Bottle#: 13 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 2.0000
 Sample Info: 180-43185-B-2, 2x
 Misc. Info.: 180-0006584-013
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\PITCHROM\ChromData\CHHP5\20150422-6584.b\MMSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 23-Apr-2015 08:37:22 Calib Date: 14-Apr-2015 13:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150414-6459.b\50414005.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: fergusond

Date: 23-Apr-2015 08:37:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.302	4.309	-0.007	0	180280	1000.0	
* 2 Fluorobenzene (IS)	96	7.277	7.278	-0.001	99	471372	50.0	
* 3 Chlorobenzene-d5	119	10.361	10.362	-0.001	88	109155	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.685	12.680	0.005	96	156596	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.535	6.526	0.009	93	109988	51.3	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.900	6.897	0.003	0	153165	54.2	
\$ 7 Toluene-d8 (Surr)	98	8.926	8.923	0.003	93	435134	50.0	
\$ 8 4-Bromofluorobenzene (Surr	95	11.529	11.532	-0.003	86	145841	46.5	
12 Chloromethane	50		1.793				ND	
13 Vinyl chloride	62		1.921				ND	
15 Bromomethane	94		2.273				ND	
16 Chloroethane	64		2.432				ND	
22 1,1-Dichloroethene	96		3.405				ND	
24 Acetone	43		3.508				ND	
26 Carbon disulfide	76		3.685				ND	
31 Methylene Chloride	84	4.156	4.147	0.009	1	6229	1.98	M
33 Acrylonitrile	53		4.555				ND	
34 trans-1,2-Dichloroethene	96		4.567				ND	
35 Methyl tert-butyl ether	73		4.603				ND	
37 1,1-Dichloroethane	63		5.169				ND	
45 cis-1,2-Dichloroethene	96		5.936				ND	
46 2-Butanone (MEK)	43		5.990				ND	
49 Chlorobromomethane	128		6.228				ND	
52 Chloroform	83	6.346	6.343	0.003	1	1646	0.3611	M
53 1,1,1-Trichloroethane	97		6.532				ND	
56 Carbon tetrachloride	117		6.720				ND	
58 Benzene	78		6.952				ND	
59 1,2-Dichloroethane	62		6.988				ND	
64 Trichloroethene	130	7.666	7.663	0.003	97	313666	112.1	
67 1,2-Dichloropropane	63		7.901				ND	
70 1,4-Dioxane	88		8.053				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.199				ND	
74 cis-1,3-Dichloropropene	75		8.661				ND	
75 4-Methyl-2-pentanone (MIBK)	43		8.819				ND	
76 Toluene	91		8.990				ND	
77 trans-1,3-Dichloropropene	75		9.221				ND	
79 1,1,2-Trichloroethane	97		9.397				ND	
80 Tetrachloroethene	164	9.534	9.537	-0.003	94	381642	174.4	
82 2-Hexanone	43		9.653				ND	
84 Chlorodibromomethane	129		9.786				ND	
85 Ethylene Dibromide	107		9.902				ND	
87 Chlorobenzene	112		10.389				ND	
89 1,1,1,2-Tetrachloroethane	131		10.468				ND	
90 Ethylbenzene	106		10.498				ND	
91 m-Xylene & p-Xylene	106		10.614				ND	
92 o-Xylene	106		11.009				ND	
93 Styrene	104		11.021				ND	
94 Bromoform	173		11.210				ND	
99 1,1,2,2-Tetrachloroethane	83		11.672				ND	
S 133 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00031

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00033

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150422-6584.b\50422013.D

Injection Date: 22-Apr-2015 15:52:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: 180-43185-B-2

Lab Sample ID: 180-43185-2

Worklist Smp#: 13

Client ID: HD-MW-64S-0/1-0

Purge Vol: 5.000 mL

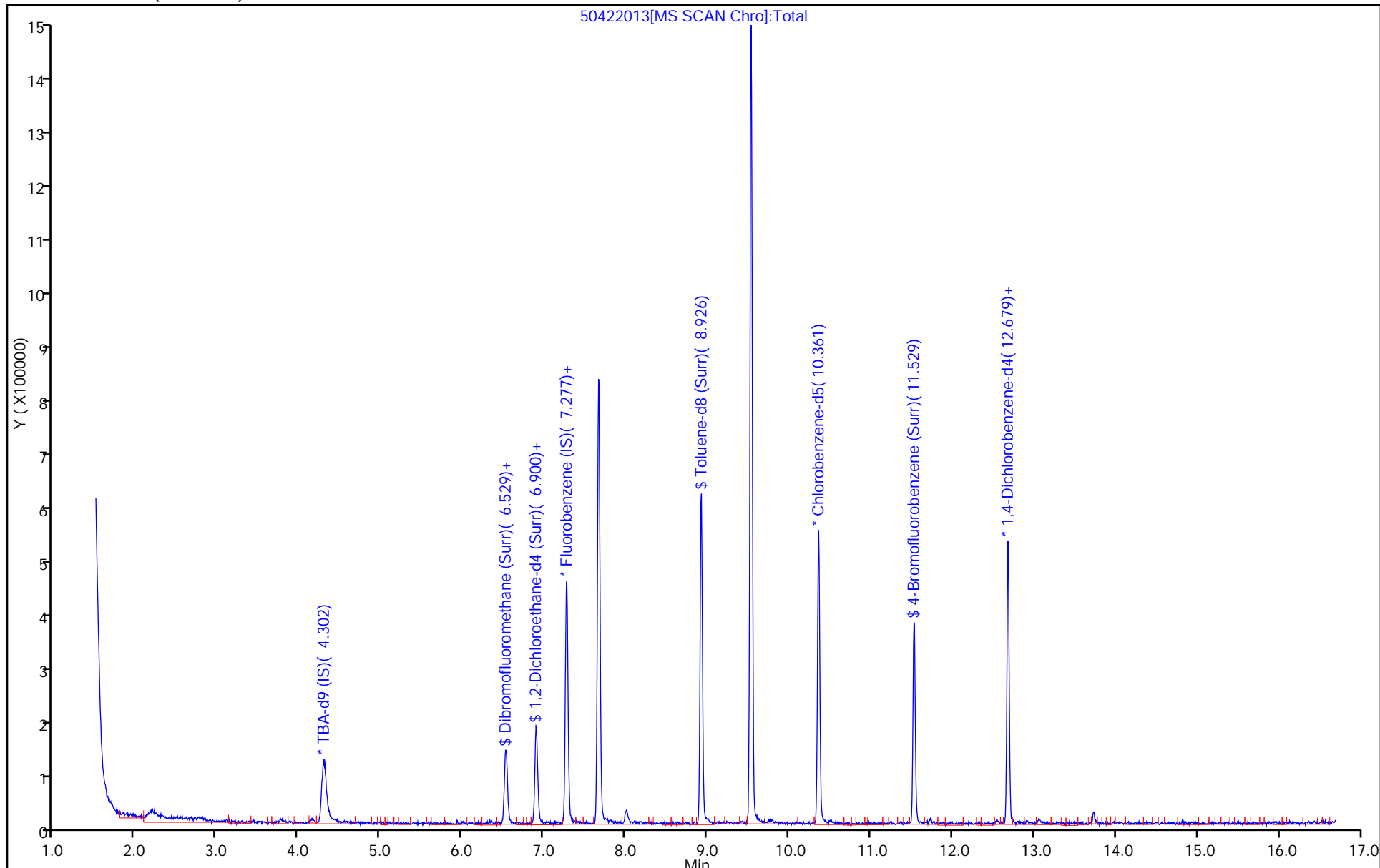
Dil. Factor: 2.0000

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\20150422-6584.b\50422013.D

Injection Date: 22-Apr-2015 15:52:30

Instrument ID: CHHP5

Lims ID: 180-43185-B-2

Lab Sample ID: 180-43185-2

Client ID: HD-MW-64S-0/1-0

Operator ID: 001562

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

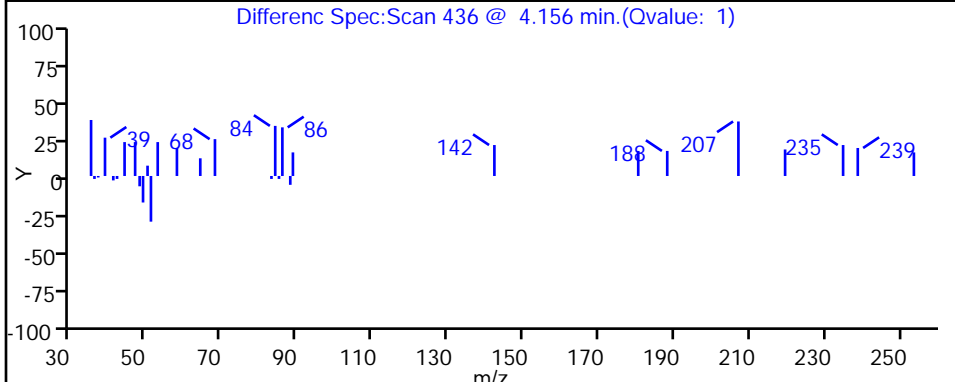
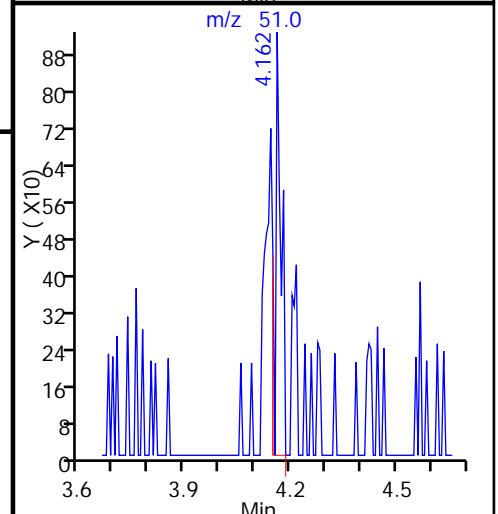
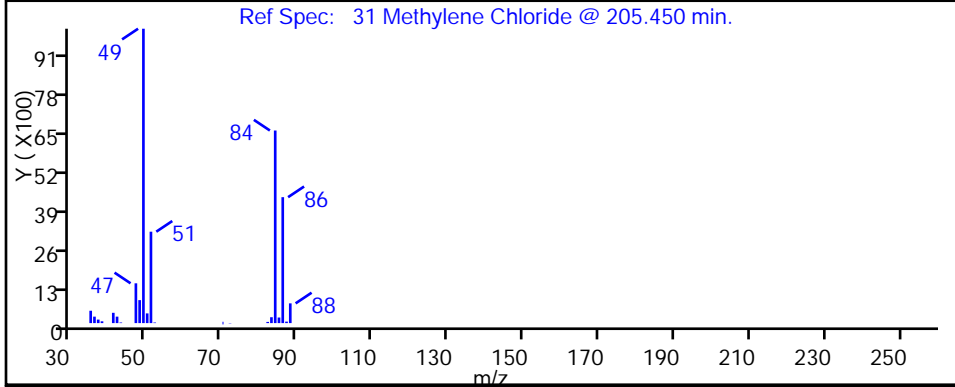
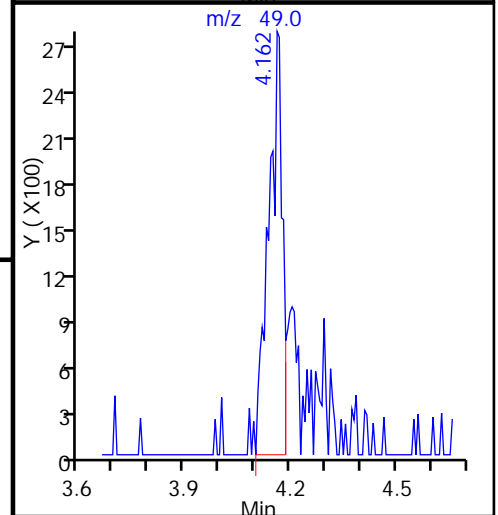
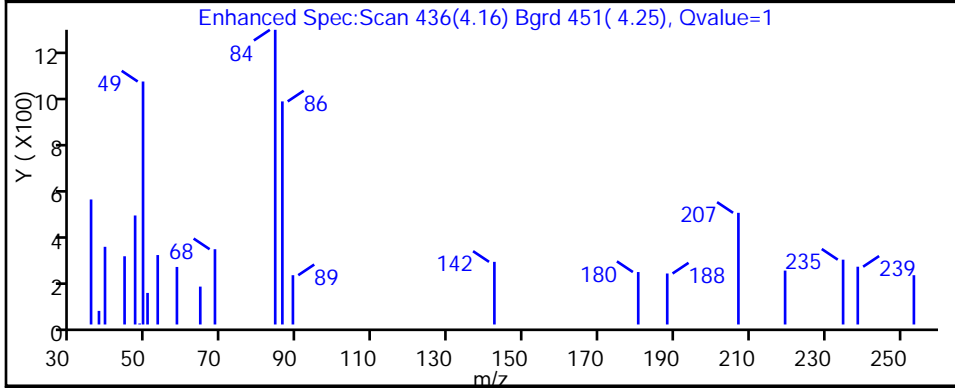
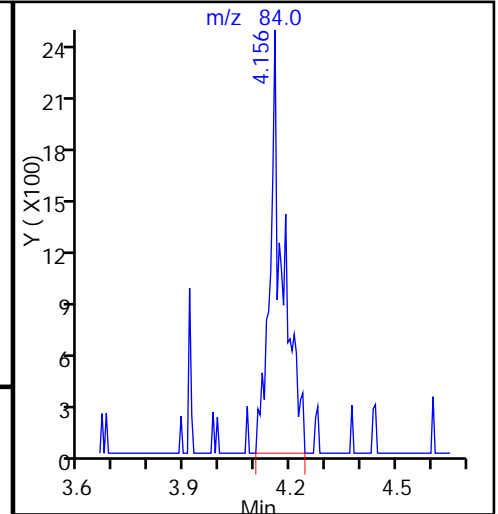
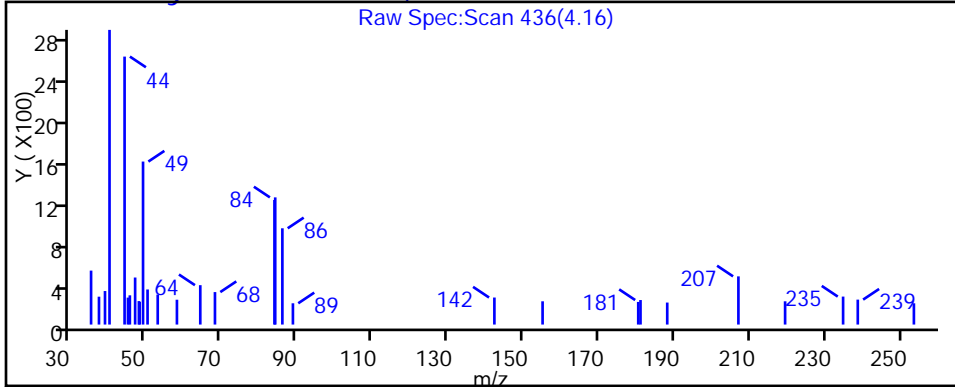
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150422-6584.b\50422013.D

Injection Date: 22-Apr-2015 15:52:30

Instrument ID: CHHP5

Lims ID: 180-43185-B-2

Lab Sample ID: 180-43185-2

Client ID: HD-MW-64S-0/1-0

Operator ID: 001562

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

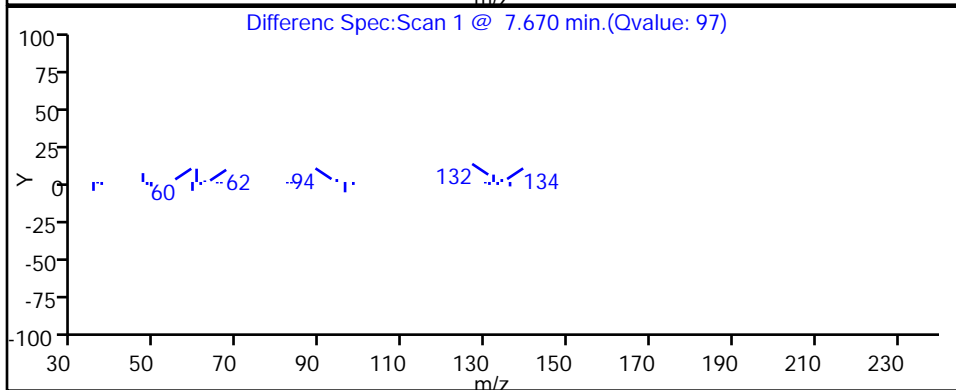
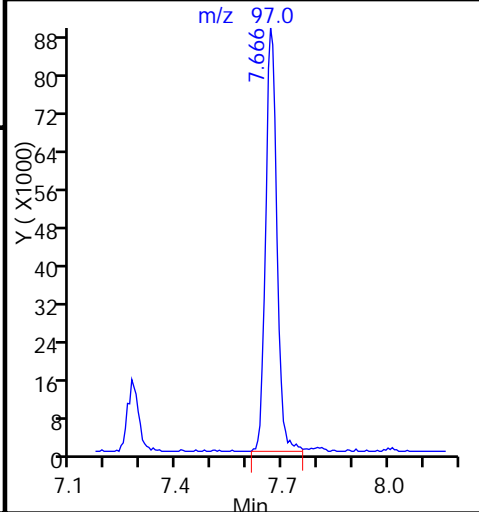
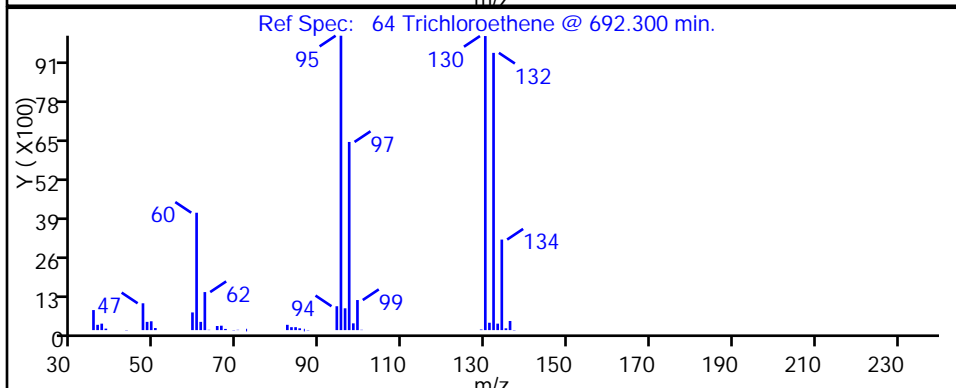
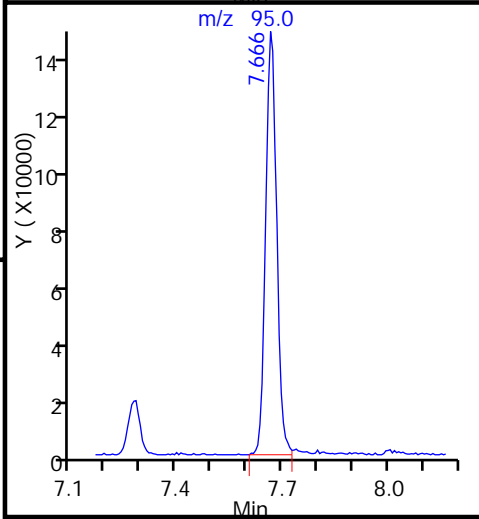
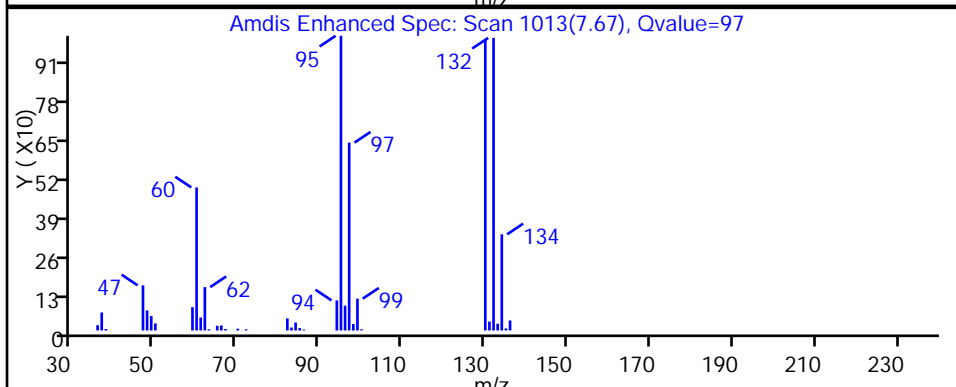
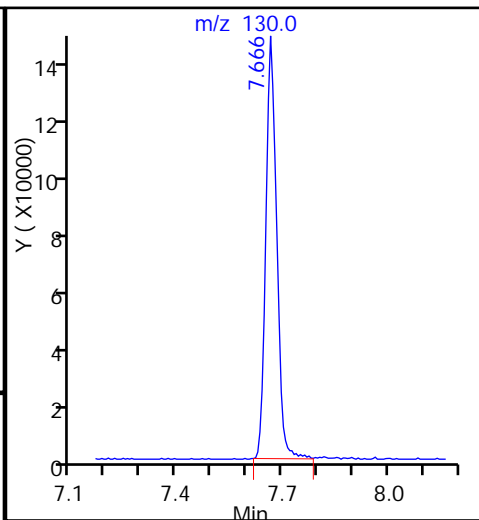
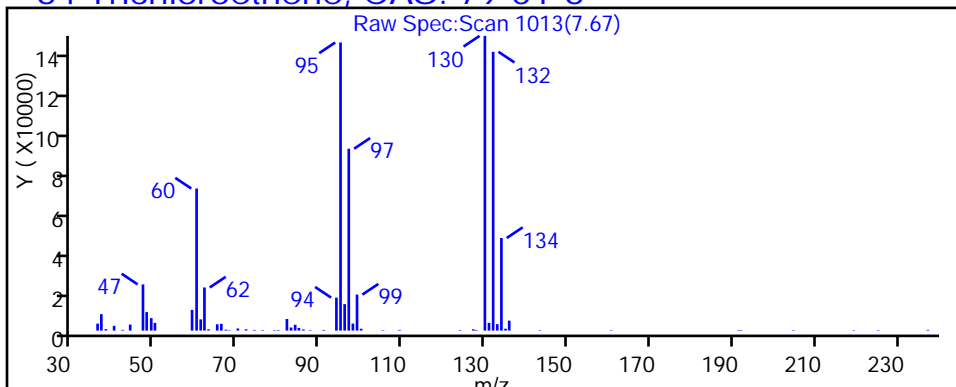
Method: MSVOA_LL_CHHP5

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\20150422-6584.b\50422013.D

Injection Date: 22-Apr-2015 15:52:30

Instrument ID: CHHP5

Lims ID: 180-43185-B-2

Lab Sample ID: 180-43185-2

Client ID: HD-MW-64S-0/1-0

Operator ID: 001562

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

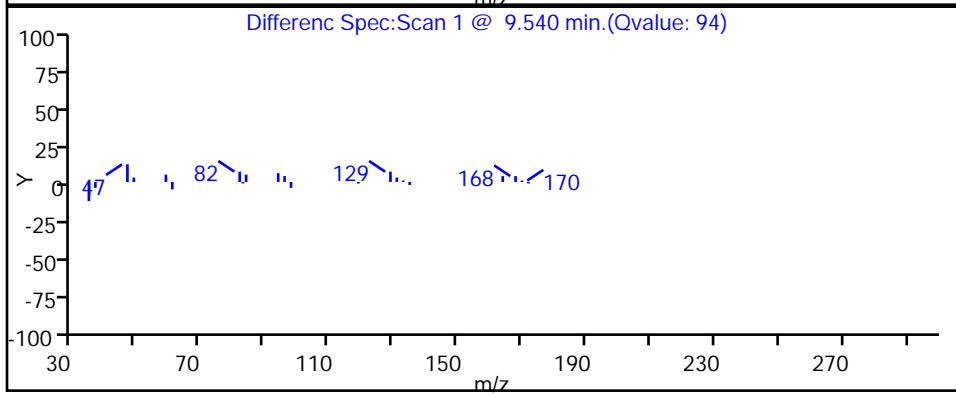
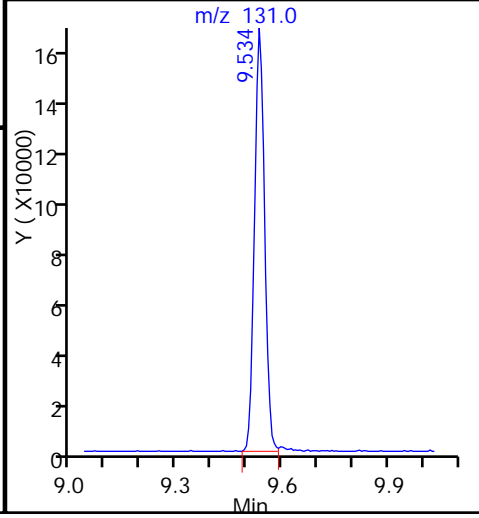
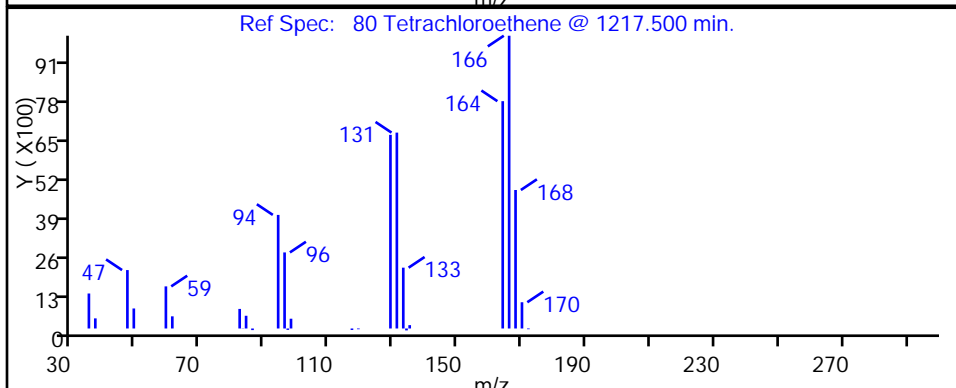
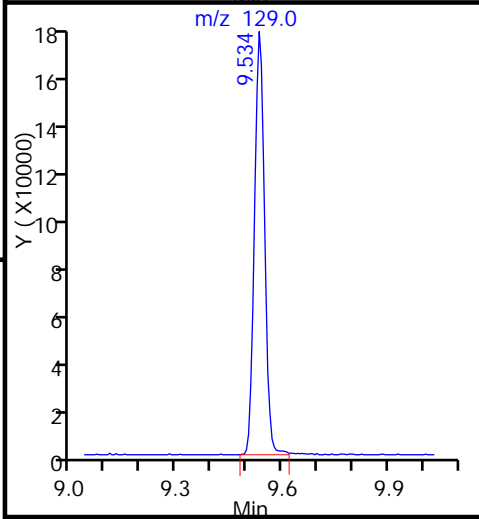
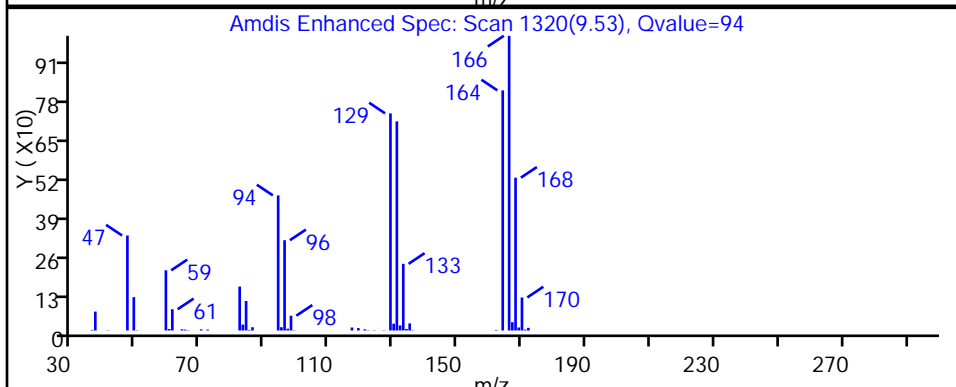
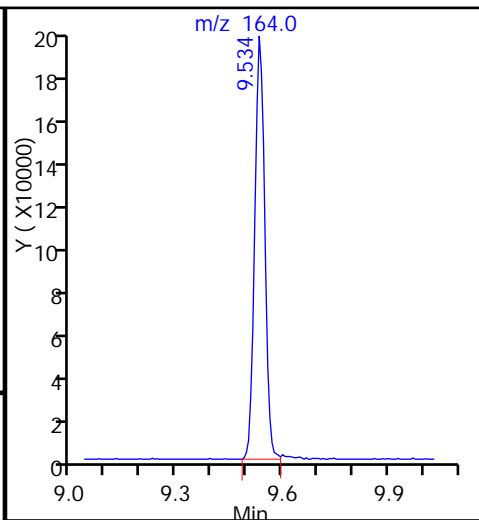
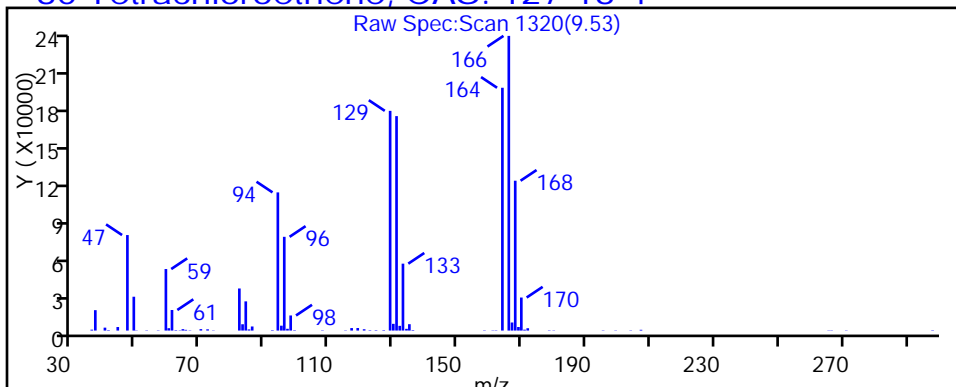
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

80 Tetrachloroethene, CAS: 127-18-4



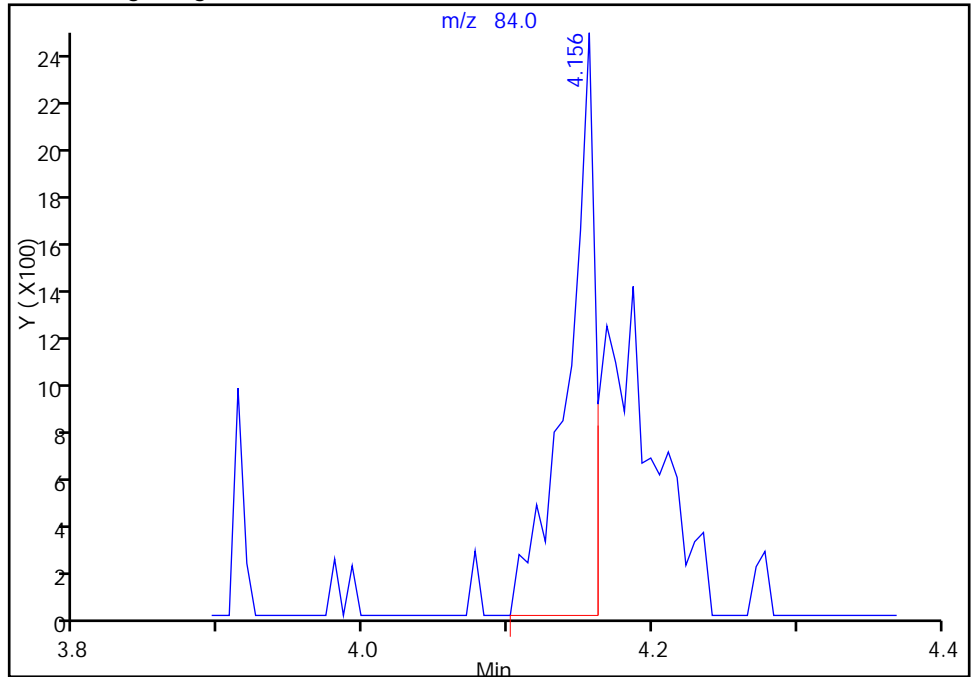
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150422-6584.b\50422013.D
Injection Date: 22-Apr-2015 15:52:30 Instrument ID: CHHP5
Lims ID: 180-43185-B-2 Lab Sample ID: 180-43185-2
Client ID: HD-MW-64S-0/1-0
Operator ID: 001562 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

31 Methylene Chloride, CAS: 75-09-2

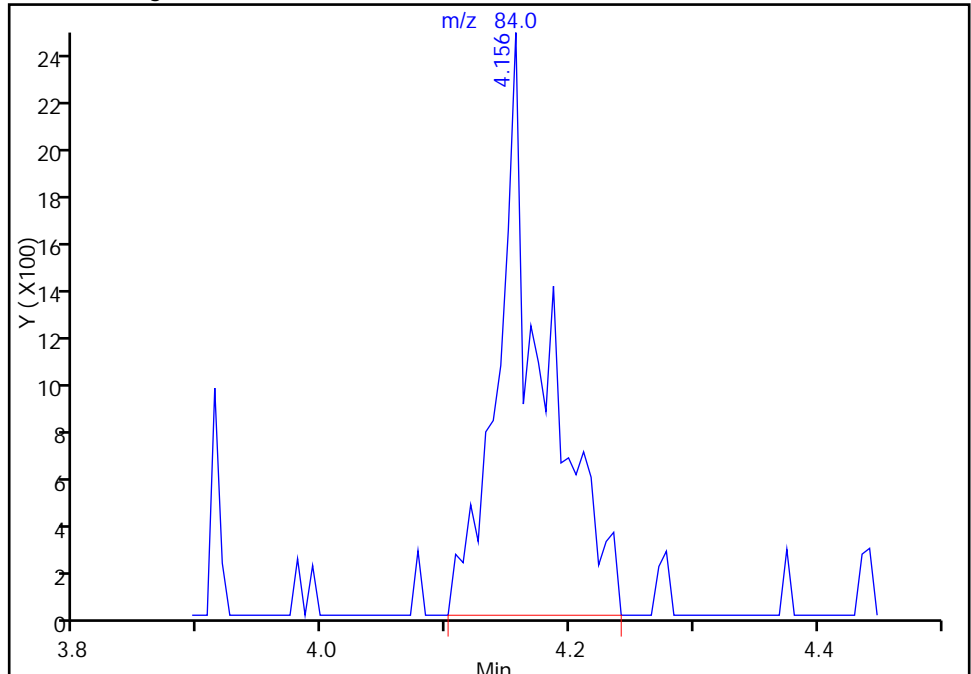
RT: 4.16
Area: 3168
Amount: 1.007764
Amount Units: ng

Processing Integration Results



RT: 4.16
Area: 6229
Amount: 1.981491
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 23-Apr-2015 08:37:22
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

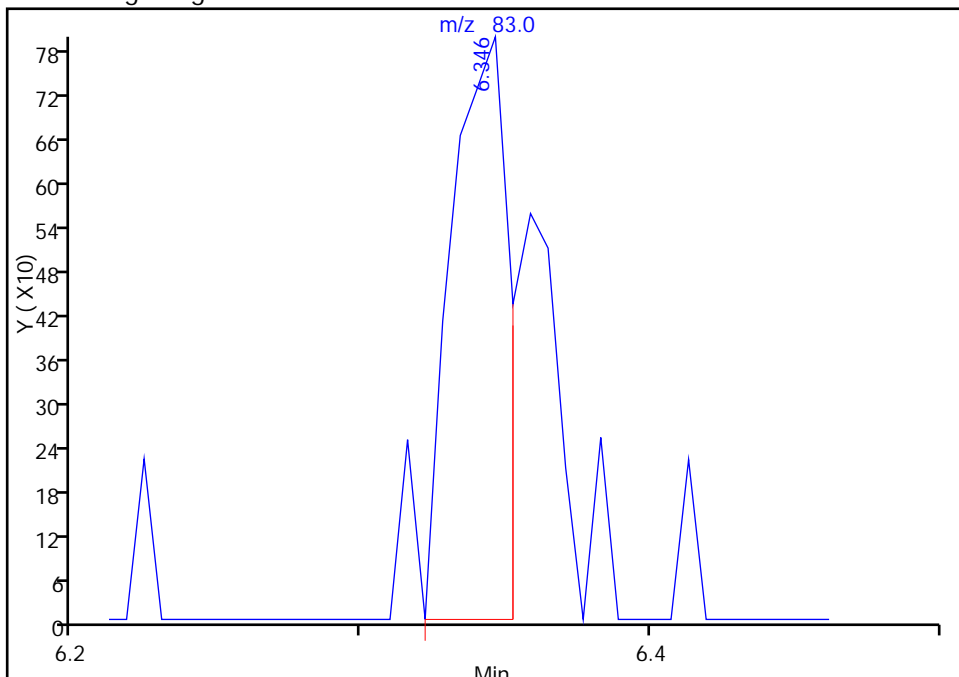
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150422-6584.b\50422013.D
Injection Date: 22-Apr-2015 15:52:30 Instrument ID: CHHP5
Lims ID: 180-43185-B-2 Lab Sample ID: 180-43185-2
Client ID: HD-MW-64S-0/1-0
Operator ID: 001562 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

52 Chloroform, CAS: 67-66-3

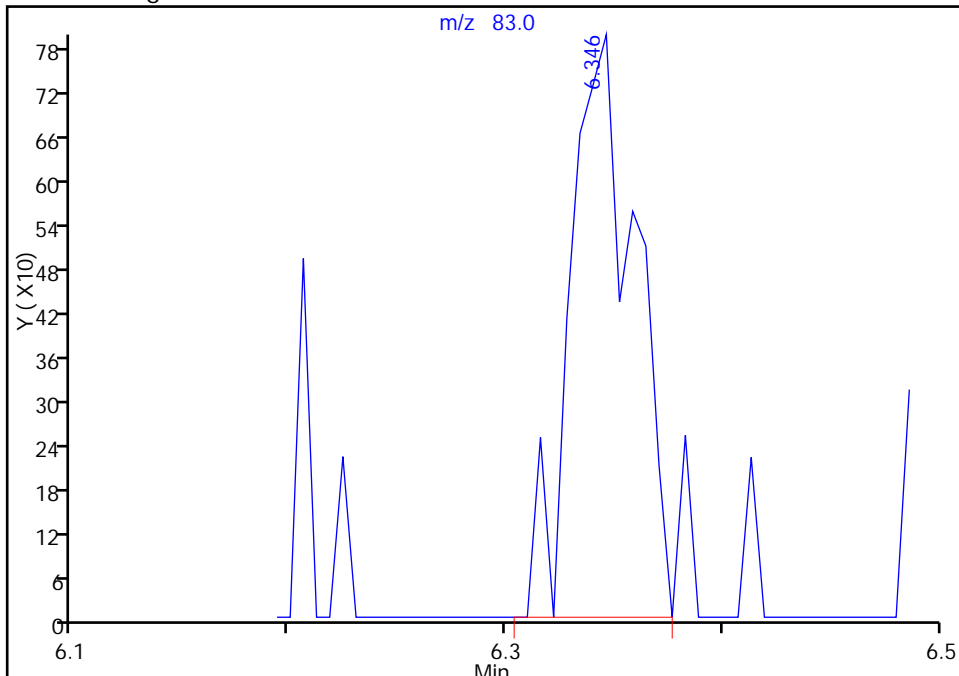
RT: 6.35
Area: 1096
Amount: 0.240409
Amount Units: ng

Processing Integration Results



RT: 6.35
Area: 1646
Amount: 0.361052
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 23-Apr-2015 08:37:22
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-43185-1 Analy Batch No.: 135593

SDG No.: _____

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

Calibration Start Date: 03/16/2015 12:41 Calibration End Date: 03/16/2015 16:17 Calibration ID: 22457

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-135593/13	50316013.D
Level 2	IC 180-135593/4	50316004.D
Level 3	ICIS 180-135593/5	50316005.D
Level 4	IC 180-135593/6	50316006.D
Level 5	IC 180-135593/7	50316007.D
Level 6	IC 180-135593/8	50316008.D
Level 7	IC 180-135593/9	50316009.D
Level 8	IC 180-135593/10	50316010.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	0.1981 0.2196	0.2184 0.2203	0.2158 0.2064	0.2176	0.2184	Ave		0.2143			0.1000	3.7	20.0				
Chloromethane	0.3161 0.2913	0.3036 0.2846	0.2971 0.2760	0.3139	0.2839	Ave		0.2958			0.1000	4.9	20.0				
Vinyl chloride	0.3339 0.3170	0.3476 0.3238	0.3406 0.2981	0.3521	0.3317	Ave		0.3306			0.1000	5.3	20.0				
1,3-Butadiene	0.4238 0.3606	0.3989 0.3546	0.3880 0.3243	0.3988	0.3720	Ave		0.3776			0.0100	8.3	20.0				
Bromomethane	0.3177 0.1565	0.2026 0.1546	0.1872 0.1489	0.2009	0.1727	Lin2	0.7885	0.1633			0.0500			0.9910		0.9900	
Chloroethane	0.2320 0.2316	0.2215 0.2239	0.2348 0.2259	0.2403	0.2201	Ave		0.2287			0.0500	3.1	20.0				
Dichlorofluoromethane	0.6033 0.4953	0.5246 0.5015	0.5246 0.4874	0.5502	0.4911	Ave		0.5222			0.0100	7.5	20.0				
Trichlorofluoromethane	0.3610 0.3924	0.3936 0.3991	0.4043 0.3800	0.4504	0.3921	Ave		0.3966			0.1000	6.4	20.0				
Ethyl ether	0.2888 0.2638	0.2444 0.2500	0.2576 0.2556	0.2691	0.2633	Ave		0.2615			0.0100	5.2	20.0				
Acrolein	0.0310 0.0323	0.0302 0.0321	0.0313 0.0320	0.0335	0.0318	Ave		0.0318			0.0100	3.1	20.0				
1,1-Dichloroethene	0.3207 0.2859	0.2901 0.2792	0.2822 0.2667	0.2965	0.2853	Ave		0.2883			0.1000	5.4	20.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2914 0.2935	0.2973 0.2885	0.2973 0.2692	0.3100	0.2859	Ave		0.2916			0.1000	4.0	20.0				
Acetone	0.1044 0.1092	0.0964 0.1031	0.0956 0.1001	0.1134	0.0972	Ave		0.1024			0.0500	6.2	20.0				
Iodomethane	0.4015 0.3985	0.4019 0.3989	0.4026 0.3873	0.4200	0.3937	Ave		0.4005			0.0100	2.3	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.: 180-43185-1

Analy Batch No.: 135593

SDG No.: _____

Instrument ID: CHHP5

GC Column: DB-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/16/2015 12:41

Calibration End Date: 03/16/2015 16:17

Calibration ID: 22457

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	0.7271 0.7017	0.7065 0.6934	0.7209 0.6551	0.7444	0.6916	Ave		0.7051			0.1000	3.8	20.0				
Allyl chloride	0.1408 0.1596	0.1433 0.1659	0.1497 0.1554	0.1576	0.1468	Ave		0.1524			0.0100	5.7	20.0				
Methyl acetate	0.2499 0.2446	0.2206 0.2371	0.2383 0.2398	0.2500	0.2368	Ave		0.2396			0.1000	3.9	20.0				
Methylene Chloride	0.4921 0.3038	0.3340 0.2965	0.3132 0.2964	0.3223	0.3092	Ave		0.3335			0.1000	20.0	20.0				
tert-Butyl alcohol	1.4634 1.1634	1.1166 1.0879	1.2271 1.0609	1.1679	1.1362	Ave		1.1779			0.0100	11.0	20.0				
Acrylonitrile	0.1262 0.1243	0.1185 0.1210	0.1238 0.1200	0.1302	0.1222	Ave		0.1233			0.0100	3.0	20.0				
trans-1,2-Dichloroethene	0.3010 0.2955	0.3039 0.2920	0.2999 0.2846	0.3158	0.2932	Ave		0.2982			0.1000	3.1	20.0				
Methyl tert-butyl ether	0.7046 0.6848	0.5895 0.6670	0.6262 0.6870	0.6643	0.6513	Ave		0.6593			0.1000	5.6	20.0				
Hexane	0.5105 0.4724	0.4808 0.4625	0.4867 0.4447	0.4928	0.4612	Ave		0.4764			0.0100	4.3	20.0				
1,1-Dichloroethane	0.5210 0.5346	0.5355 0.5274	0.5415 0.5173	0.5479	0.5333	Ave		0.5323			0.2000	1.9	20.0				
Vinyl acetate	0.3354 0.4226	0.3143 0.4225	0.3492 0.4312	0.3701	0.3754	Ave		0.3776			0.0100	12.0	20.0				
2,2-Dichloropropane	0.1102 0.1425	0.1245 0.1427	0.1303 0.1457	0.1368	0.1319	Ave		0.1331			0.0100	8.8	20.0				
cis-1,2-Dichloroethene	0.3333 0.3114	0.3188 0.3041	0.3064 0.2999	0.3262	0.3133	Ave		0.3142			0.1000	3.6	20.0				
2-Butanone (MEK)	0.1479 0.1689	0.1544 0.1707	0.1682 0.1707	0.1629	0.1664	Ave		0.1638			0.0500	5.1	20.0				
Bromochloromethane	0.1516 0.1369	0.1328 0.1312	0.1322 0.1303	0.1382	0.1345	Ave		0.1360			0.0100	5.1	20.0				
Tetrahydrofuran	0.1048 0.1057	0.0960 0.1019	0.1025 0.1042	0.1047	0.1007	Ave		0.1026			0.0100	3.0	20.0				
Chloroform	0.5131 0.4845	0.4800 0.4679	0.4876 0.4593	0.4976	0.4787	Ave		0.4836			0.2000	3.5	20.0				
1,1,1-Trichloroethane	0.2755 0.3251	0.2860 0.3242	0.3106 0.3133	0.3267	0.3088	Ave		0.3088			0.1000	6.1	20.0				
Cyclohexane	0.6382 0.5901	0.5930 0.5765	0.5992 0.5384	0.6258	0.5817	Ave		0.5929			0.1000	5.2	20.0				
Carbon tetrachloride	0.2289 0.2566	0.2357 0.2582	0.2463 0.2549	0.2561	0.2457	Ave		0.2478			0.1000	4.4	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.: 180-43185-1

Analy Batch No.: 135593

SDG No.: _____

Instrument ID: CHHP5

GC Column: DB-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/16/2015 12:41

Calibration End Date: 03/16/2015 16:17

Calibration ID: 22457

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	0.4232 0.3982	0.4094 0.3936	0.4088 0.3740	0.4106	0.3910	Ave		0.4011			0.0100	3.8	20.0				
Isobutyl alcohol	0.0062 0.0078	0.0044 0.0073	0.0062 0.0083	0.0069	0.0062	Ave		0.0067		*	0.0100	18.0	20.0				
Benzene	1.2964 1.1615	1.1929 1.1190	1.2156 1.0805	1.2375	1.1757	Ave		1.1849			0.5000	5.7	20.0				
1,2-Dichloroethane	0.3889 0.3972	0.3853 0.3828	0.3878 0.3740	0.4029	0.3849	Ave		0.3880			0.1000	2.3	20.0				
n-Heptane	0.4132 0.4165	0.4157 0.3968	0.4135 0.3813	0.4223	0.3971	Ave		0.4071			0.0100	3.4	20.0				
Trichloroethene	0.3236 0.2977	0.2885 0.2885	0.3022 0.2774	0.3045	0.2926	Ave		0.2969			0.2000	4.7	20.0				
Methylcyclohexane	0.5265 0.5361	0.5390 0.5114	0.5500 0.4900	0.5614	0.5230	Ave		0.5297			0.1000	4.2	20.0				
1,2-Dichloropropane	0.2976 0.3036	0.2675 0.2956	0.2870 0.2962	0.2996	0.2976	Ave		0.2931			0.1000	3.9	20.0				
Dibromomethane	0.1682 0.1567	0.1491 0.1563	0.1532 0.1546	0.1640	0.1603	Ave		0.1578			0.0100	3.9	20.0				
1,4-Dioxane	0.0033 0.0034	0.0029 0.0031	0.0029 0.0030	0.0032	0.0030	Ave		0.0031		*	0.0100	5.9	20.0				
Bromodichloromethane	0.2966 0.3370	0.3114 0.3262	0.3286 0.3235	0.3266	0.3259	Ave		0.3220			0.2000	3.9	20.0				
cis-1,3-Dichloropropene	0.2720 0.3463	0.2598 0.3498	0.2835 0.3541	0.3106	0.3095	Ave		0.3107			0.2000	12.0	20.0				
4-Methyl-2-pentanone (MIBK)	1.2503 1.3434	1.2818 1.3687	1.4091 1.3065	1.4145	1.4492	Ave		1.3529			0.1000	5.2	20.0				
Toluene	5.9882 4.5343	5.4946 4.5939	5.5890 4.1718	5.4186	5.2011	Ave		5.1239			0.4000	12.0	20.0				
trans-1,3-Dichloropropene	0.8645 0.9716	0.7455 1.0385	0.8963 1.0484	0.8911	0.9475	Ave		0.9254			0.1000	11.0	20.0				
Ethyl methacrylate	1.1000 1.2637	0.9953 1.3239	1.1753 1.3175	1.1818	1.2989	Ave		1.2070			0.0100	9.7	20.0				
1,1,2-Trichloroethane	1.0794 0.8993	0.9278 0.9152	1.0316 0.8752	0.9797	0.9793	Ave		0.9609			0.1000	7.3	20.0				
Tetrachloroethene	1.1314 0.9214	1.0730 0.9231	1.0654 0.8552	1.0357	1.0130	Ave		1.0023			0.2000	9.3	20.0				
1,3-Dichloropropane	1.9127 1.6507	1.8290 1.6948	1.9187 1.6444	1.8257	1.8122	Ave		1.7860			0.0100	6.1	20.0				
2-Hexanone	0.8865 1.0653	0.9324 1.1043	1.1169 1.0437	1.0718	1.0506	Ave		1.0339			0.1000	7.9	20.0				

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

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

Lab Name: TestAmerica Pittsburgh

Job No.: 180-43185-1

Analy Batch No.: 135593

SDG No.: _____

Instrument ID: CHHP5

GC Column: DB-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/16/2015 12:41

Calibration End Date: 03/16/2015 16:17

Calibration ID: 22457

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	0.6589 0.7861	0.7302 0.8019	0.7961 0.7741	0.7741	0.8146	Ave		0.7670			0.1000	6.6	20.0				
1,2-Dibromoethane (EDB)	0.9462 0.8909	0.8507 0.9041	0.9478 0.8836	0.9579	0.9540	Ave		0.9169			0.1000	4.4	20.0				
3-Chlorobenzotrifluoride	2.1568 1.7885	2.0616 1.8999	2.0657 1.6136	2.0676	1.9855	Ave		1.9549			0.0100	9.2	20.0				
Chlorobenzene	3.9165 2.9120	3.3811 2.9538	3.4265 2.7856	3.3185	3.2780	Ave		3.2465			0.5000	11.0	20.0				
4-Chlorobenzotrifluoride	2.1386 1.7554	1.9292 1.8762	1.9271 1.5481	1.9634	1.9831	Ave		1.8901			0.0100	9.2	20.0				
1,1,1,2-Tetrachloroethane	0.7551 0.8493	0.8012 0.8680	0.8363 0.8428	0.8482	0.9047	Ave		0.8382			0.0100	5.3	20.0				
Ethylbenzene	1.9914 1.7179	1.9333 1.7672	1.9980 1.6464	1.9518	1.8953	Ave		1.8627			0.1000	7.2	20.0				
m-Xylene & p-Xylene	2.4849 2.1093	2.3674 2.1267	2.4171 1.9994	2.4234	2.2969	Ave		2.2781			0.1000	7.8	20.0				
o-Xylene	2.6403 2.0475	2.2064 2.0545	2.3516 1.9292	2.3257	2.2716	Ave		2.2283			0.3000	10.0	20.0				
Styrene	3.8818 3.3296	3.6611 3.3147	3.8658 3.1277	3.7940	3.7504	Ave		3.5907			0.3000	8.1	20.0				
Bromoform	0.4254 0.4898	0.4398 0.4974	0.4744 0.4894	0.4822	0.4911	Ave		0.4737			0.1000	5.6	20.0				
2-Chlorobenzotrifluoride	2.0985 1.7811	2.0764 1.8958	2.0751 1.6078	2.0615	2.0224	Ave		1.9523			0.0100	9.1	20.0				
Isopropylbenzene	6.2252 4.9838	6.1153 4.8827	6.0965 4.4013	6.0579	5.7184	Ave		5.5601			0.1000	13.0	20.0				
1,1,2,2-Tetrachloroethane	1.5778 1.3165	1.3921 1.3063	1.4139 1.2430	1.4088	1.3646	Ave		1.3779			0.3000	7.2	20.0				
Bromobenzene	0.9601 0.9043	0.9163 0.9102	0.9670 0.9012	0.9241	0.9202	Ave		0.9254			0.0100	2.7	20.0				
1,2,3-Trichloropropane	0.3380 0.3040	0.2838 0.2874	0.3205 0.3069	0.2961	0.2961	Ave		0.3041			0.0100	5.9	20.0				
trans-1,4-Dichloro-2-butene	0.2572 0.2562	0.2443 0.2601	0.2456 0.2696	0.2438	0.2460	Ave		0.2528			0.0100	3.7	20.0				
N-Propylbenzene	1.2305 1.1066	1.1620 1.0908	1.2081 1.0656	1.1555	1.1135	Ave		1.1416			0.0100	5.1	20.0				
2-Chlorotoluene	1.0248 0.9458	0.9575 0.9297	1.0195 0.9076	0.9558	0.9319	Ave		0.9591			0.0100	4.4	20.0				
3-Chlorotoluene	1.1523 1.0737	1.0357 1.0942	1.0635 0.9927	1.0618	1.1018	Ave		1.0720			0.0100	4.4	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.: 180-43185-1

Analy Batch No.: 135593

SDG No.: _____

Instrument ID: CHHP5

GC Column: DB-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/16/2015 12:41

Calibration End Date: 03/16/2015 16:17

Calibration ID: 22457

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	3.5091 3.0301	3.2905 2.9338	3.3765 2.8104	3.3601	3.1525	Ave		3.1829			0.0100	7.6	20.0				
4-Chlorotoluene	1.1316 1.0097	1.0151 0.9774	1.0863 1.0009	1.0825	1.0021	Ave		1.0382			0.0100	5.2	20.0				
tert-Butylbenzene	3.1830 2.5928	2.8173 2.5318	2.9656 2.3701	2.8959	2.7052	Ave		2.7577			0.0100	9.5	20.0				
1,2,4-Trimethylbenzene	3.6039 3.1029	3.3270 3.0238	3.4986 2.8908	3.4674	3.2206	Ave		3.2669			0.0100	7.7	20.0				
3,4-Dichlorobenzotrifluoride	1.1042 1.0202	0.9953 1.0227	1.0269 0.9335	1.1049	1.0507	Ave		1.0323			0.0100	5.5	20.0				
sec-Butylbenzene	4.3054 3.6389	4.1108 3.5066	4.1991 3.2620	4.1487	3.8794	Ave		3.8814			0.0100	9.7	20.0				
1,3-Dichlorobenzene	1.9132 1.6438	1.7258 1.6071	1.7369 1.5897	1.7497	1.6725	Ave		1.7048			0.6000	6.1	20.0				
4-Isopropyltoluene	3.4872 3.0606	3.2348 2.9586	3.4694 2.7984	3.4562	3.1691	Ave		3.2043			0.0100	8.0	20.0				
1,4-Dichlorobenzene	1.9760 1.6976	1.7145 1.6569	1.7807 1.6355	1.7648	1.7035	Ave		1.7412			0.5000	6.1	20.0				
2,4-Dichlorobenzotrifluoride	1.0162 0.9585	0.9307 0.9665	1.0004 0.8567	1.0551	0.9508	Ave		0.9669			0.0100	6.2	20.0				
2,5-Dichlorobenzotrifluoride	1.1811 1.0613	1.0765 1.0776	1.0685 0.9818	1.1269	1.0793	Ave		1.0816			0.0100	5.2	20.0				
n-Butylbenzene	3.1276 2.8128	2.9811 2.7148	3.1079 2.5582	3.1414	2.9001	Ave		2.9180			0.0100	7.3	20.0				
1,2-Dichlorobenzene	1.7371 1.5488	1.5543 1.5042	1.6235 1.4749	1.6066	1.5803	Ave		1.5787			0.4000	5.1	20.0				
1,2-Dibromo-3-Chloropropane	0.1313 0.1386	0.1067 0.1383	0.1229 0.1385	0.1324	0.1248	Ave		0.1292			0.0500	8.5	20.0				
1,2,4-Trichlorobenzene	0.9720 0.8625	0.7083 0.8349	0.7579 0.7778	0.8780	0.7835	Ave		0.8219			0.2000	10.0	20.0				
Hexachlorobutadiene	0.4883 0.3899	0.3825 0.3778	0.3866 0.3464	0.4091	0.3724	Ave		0.3941			0.0100	11.0	20.0				
Naphthalene	2.3899 2.2683	1.8332 2.1948	1.9931 2.0920	2.3983	2.0941	Ave		2.1580			0.0100	9.0	20.0				
1,2,3-Trichlorobenzene	0.7895 0.7155	0.5376 0.7162	0.6024 0.6573	0.7303	0.6432	Ave		0.6740			0.0100	12.0	20.0				
2,4,5-Trichlorotoluene	0.4907 0.3881	0.2750 0.3876	0.2929 0.3431	0.3938	0.3283	Ave		0.3624			0.0100	19.0	20.0				
2,3,6-Trichlorotoluene	0.4374 0.3491	0.2501 0.3509	0.2713 0.3051	0.3608	0.2936	Ave		0.3273			0.0100	18.0	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.: 180-43185-1 Analy Batch No.: 135593

SDG No.: _____

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

Calibration Start Date: 03/16/2015 12:41 Calibration End Date: 03/16/2015 16:17 Calibration ID: 22457

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)	0.2497 0.2212	0.2276 0.2219	0.2284 0.2143	0.2334	0.2228	Ave		0.2274			4.7		20.0				
1,2-Dichloroethane-d4 (Surr)	0.3017 0.2995	0.3055 0.2914	0.3015 0.2867	0.3115	0.3008	Ave		0.2998			2.6		20.0				
Toluene-d8 (Surr)	4.5313 3.5890	4.2126 3.6439	4.3365 3.2599	4.2301	4.0882	Ave		3.9864			11.0		20.0				
4-Bromofluorobenzene (Surr)	1.5722 1.3558	1.4371 1.3519	1.5107 1.2944	1.4891	1.4730	Ave		1.4356			6.6		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.: 180-43185-1 Analy Batch No.: 135593

SDG No.: _____

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

Calibration Start Date: 03/16/2015 12:41 Calibration End Date: 03/16/2015 16:17 Calibration ID: 22457

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-135593/13	50316013.D
Level 2	IC 180-135593/4	50316004.D
Level 3	ICIS 180-135593/5	50316005.D
Level 4	IC 180-135593/6	50316006.D
Level 5	IC 180-135593/7	50316007.D
Level 6	IC 180-135593/8	50316008.D
Level 7	IC 180-135593/9	50316009.D
Level 8	IC 180-135593/10	50316010.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	11265 432190	59394 522240	116111 640090	173113	243823	5.00 175	25.0 200	50.0 250	75.0	100
Chloromethane	FB	Ave	17972 573343	82552 674845	159885 855933	249772	316915	5.00 175	25.0 200	50.0 250	75.0	100
Vinyl chloride	FB	Ave	18981 624000	94520 767804	183317 924535	280135	370271	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Butadiene	FB	Ave	24095 709784	108469 840803	208815 1005925	317272	415323	5.00 175	25.0 200	50.0 250	75.0	100
Bromomethane	FB	Lin2	18060 307964	55097 366671	100717 461680	159846	192846	5.00 175	25.0 200	50.0 250	75.0	100
Chloroethane	FB	Ave	13187 455903	60248 530813	126349 700467	191164	245673	5.00 175	25.0 200	50.0 250	75.0	100
Dichlorofluoromethane	FB	Ave	34297 974888	142662 1188936	282324 1511714	437737	548270	5.00 175	25.0 200	50.0 250	75.0	100
Trichlorofluoromethane	FB	Ave	20521 772293	107038 946313	217544 1178605	358375	437688	5.00 175	25.0 200	50.0 250	75.0	100
Ethyl ether	FB	Ave	16416 519119	66452 592652	138609 792637	214135	293889	5.00 175	25.0 200	50.0 250	75.0	100
Acrolein	FB	Ave	35289 81646	41017 95028	50582 109180	62132	71073	100 225	125 250	150 275	175	200
1,1-Dichloroethene	FB	Ave	18234 562804	78897 662050	151843 827120	235889	318457	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	16567 577719	80854 684103	159979 834802	246660	319162	5.00 175	25.0 200	50.0 250	75.0	100
Acetone	FB	Ave	29674 429781	52410 489133	102899 621064	180387	217095	25.0 350	50.0 400	100 500	150	200
Iodomethane	FB	Ave	22824 784350	109309 945860	216640 1201056	334141	439512	5.00 175	25.0 200	50.0 250	75.0	100
Carbon disulfide	FB	Ave	41336 1381152	192118 1643948	387934 2031733	592248	772081	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.: 180-43185-1 Analy Batch No.: 135593

SDG No.: _____

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

Calibration Start Date: 03/16/2015 12:41 Calibration End Date: 03/16/2015 16:17 Calibration ID: 22457

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	8006	38957	80577	125423	163875	5.00	25.0	50.0	75.0	100
			314052	393345	482122			175	200	250		
Methyl acetate	FB	Ave	71022	299965	641136	994505	1321970	25.0	125	250	375	500
			2407305	2810332	3718382			875	1000	1250		
Methylene Chloride	FB	Ave	27978	90836	168570	256424	345226	5.00	25.0	50.0	75.0	100
			597904	703059	919183			175	200	250		
tert-Butyl alcohol	TBA	Ave	10830	39251	83098	133756	175500	50.0	250	500	750	1000
			351016	399281	537174			1750	2000	2500		
Acrylonitrile	FB	Ave	71728	322268	666088	1035956	1363975	50.0	250	500	750	1000
			2446379	2868164	3721902			1750	2000	2500		
trans-1,2-Dichloroethene	FB	Ave	17111	82640	161381	251288	327278	5.00	25.0	50.0	75.0	100
			581552	692220	882651			175	200	250		
Methyl tert-butyl ether	FB	Ave	40058	160325	336961	528520	727030	5.00	25.0	50.0	75.0	100
			1347848	1581345	2130684			175	200	250		
Hexane	FB	Ave	29021	130741	261916	392065	514868	5.00	25.0	50.0	75.0	100
			929791	1096478	1379168			175	200	250		
1,1-Dichloroethane	FB	Ave	29622	145639	291408	435915	595324	5.00	25.0	50.0	75.0	100
			1052201	1250453	1604398			175	200	250		
Vinyl acetate	FB	Ave	19067	85462	187915	294456	419086	5.00	25.0	50.0	75.0	100
			831670	1001771	1337263			175	200	250		
2,2-Dichloropropane	FB	Ave	6267	33850	70106	108858	147216	5.00	25.0	50.0	75.0	100
			280515	338302	452022			175	200	250		
cis-1,2-Dichloroethene	FB	Ave	18951	86701	164893	259517	349805	5.00	25.0	50.0	75.0	100
			612812	721075	930230			175	200	250		
2-Butanone (MEK)	FB	Ave	42054	83987	180996	259227	371447	25.0	50.0	100	150	200
			665013	809232	1059138			350	400	500		
Bromochloromethane	FB	Ave	8619	36107	71124	109930	150204	5.00	25.0	50.0	75.0	100
			269375	311076	404105			175	200	250		
Tetrahydrofuran	FB	Ave	11913	52231	110274	166594	224920	10.0	50.0	100	150	200
			415944	483324	646482			350	400	500		
Chloroform	FB	Ave	29168	130523	262371	395935	534362	5.00	25.0	50.0	75.0	100
			953676	1109416	1424461			175	200	250		
1,1,1-Trichloroethane	FB	Ave	15663	77770	167130	259963	344772	5.00	25.0	50.0	75.0	100
			639960	768585	971626			175	200	250		
Cyclohexane	FB	Ave	36280	161271	322468	497889	649387	5.00	25.0	50.0	75.0	100
			1161488	1366913	1669676			175	200	250		
Carbon tetrachloride	FB	Ave	13013	64089	132517	203736	274328	5.00	25.0	50.0	75.0	100
			504991	612080	790495			175	200	250		
1,1-Dichloropropene	FB	Ave	24060	111342	219974	326699	436454	5.00	25.0	50.0	75.0	100
			783682	933326	1159811			175	200	250		
Isobutyl alcohol	FB	Ave	8820	29897	83109	137203	174166	125	625	1250	1875	2500
			386141	433313	644697			4375	5000	6250		

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

Lab Name: TestAmerica Pittsburgh

Job No.: 180-43185-1

Analy Batch No.: 135593

SDG No.: _____

Instrument ID: CHHP5

GC Column: DB-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/16/2015 12:41

Calibration End Date: 03/16/2015 16:17

Calibration ID: 22457

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	73700 2286079	324419 2653105	654151 3351151	984614	1312435	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloroethane	FB	Ave	22108 781760	104777 907622	208683 1159879	320594	429724	5.00 175	25.0 200	50.0 250	75.0	100
n-Heptane	FB	Ave	23490 819785	113041 940924	222515 1182643	335961	443357	5.00 175	25.0 200	50.0 250	75.0	100
Trichloroethene	FB	Ave	18397 586010	78459 684010	162608 860273	242252	326599	5.00 175	25.0 200	50.0 250	75.0	100
Methylcyclohexane	FB	Ave	29934 1055175	146574 1212427	295972 1519674	446628	583894	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloropropane	FB	Ave	16916 597514	72742 700921	154467 918714	238331	332279	5.00 175	25.0 200	50.0 250	75.0	100
Dibromomethane	FB	Ave	9562 308441	40542 370624	82469 479407	130496	178905	5.00 175	25.0 200	50.0 250	75.0	100
1,4-Dioxane	FB	Ave	3746 132396	15563 146272	31354 185631	50907	66490	100 3500	500 4000	1000 5000	1500	2000
Bromodichloromethane	FB	Ave	16863 663337	84673 773432	176851 1003399	259871	363842	5.00 175	25.0 200	50.0 250	75.0	100
cis-1,3-Dichloropropene	FB	Ave	15462 681682	70642 829306	152581 1098242	247138	345528	5.00 175	25.0 200	50.0 250	75.0	100
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	75787 1390980	154453 1617802	342539 2109966	531084	747218	25.0 350	50.0 400	100 500	150	200
Toluene	CBZ	Ave	72597 2347437	331041 2714932	679332 3368812	1017198	1340817	5.00 175	25.0 200	50.0 250	75.0	100
trans-1,3-Dichloropropene	CBZ	Ave	10481 502980	44917 613747	108942 846559	167274	244258	5.00 175	25.0 200	50.0 250	75.0	100
Ethyl methacrylate	CBZ	Ave	13336 654210	59964 782394	142858 1063861	221852	334858	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2-Trichloroethane	CBZ	Ave	13086 465584	55897 540864	125390 706748	183907	252461	5.00 175	25.0 200	50.0 250	75.0	100
Tetrachloroethene	CBZ	Ave	13716 477004	64647 545517	129494 690601	194422	261148	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Dichloropropane	CBZ	Ave	23188 854593	110194 1001573	233217 1327847	342719	467174	5.00 175	25.0 200	50.0 250	75.0	100
2-Hexanone	CBZ	Ave	53734 1103034	112348 1305223	271508 1685534	402386	541680	25.0 350	50.0 400	100 500	150	200
Dibromochloromethane	CBZ	Ave	7988 406960	43996 473922	96762 625118	145315	210013	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dibromoethane (EDB)	CBZ	Ave	11471 461219	51254 534328	115204 713501	179814	245946	5.00 175	25.0 200	50.0 250	75.0	100
3-Chlorobenzotrifluoride	CBZ	Ave	26148 925933	124209 1122812	251080 1303041	388132	511845	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.: 180-43185-1 Analy Batch No.: 135593

SDG No.: _____

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

Calibration Start Date: 03/16/2015 12:41 Calibration End Date: 03/16/2015 16:17 Calibration ID: 22457

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		
Chlorobenzene	CBZ	Ave	47481 1507544	203702 1745676	416488 2249414	622968	845046	5.00 175	25.0 200	50.0 250	75.0	100
4-Chlorobenzotrifluoride	CBZ	Ave	25927 908777	116232 1108797	234233 1250140	368570	511237	5.00 175	25.0 200	50.0 250	75.0	100
1,1,1,2-Tetrachloroethane	CBZ	Ave	9154 439701	48269 512980	101650 680608	159225	233228	5.00 175	25.0 200	50.0 250	75.0	100
Ethylbenzene	CBZ	Ave	24142 889389	116477 1044399	242856 1329470	366398	488611	5.00 175	25.0 200	50.0 250	75.0	100
m-Xylene & p-Xylene	CBZ	Ave	30126 1092005	142634 1256840	293796 1614511	454933	592135	5.00 175	25.0 200	50.0 250	75.0	100
o-Xylene	CBZ	Ave	32009 1059986	132929 1214164	285835 1557898	436586	585609	5.00 175	25.0 200	50.0 250	75.0	100
Styrene	CBZ	Ave	47061 1723778	220574 1958961	469890 2525667	712222	966850	5.00 175	25.0 200	50.0 250	75.0	100
Bromoform	CBZ	Ave	5157 253560	26498 293938	57667 395201	90522	126605	5.00 175	25.0 200	50.0 250	75.0	100
2-Chlorobenzotrifluoride	CBZ	Ave	25441 922108	125099 1120386	252226 1298335	386985	521379	5.00 175	25.0 200	50.0 250	75.0	100
Isopropylbenzene	CBZ	Ave	75470 2580136	368436 2885608	741027 3554151	1137215	1474178	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2,2-Tetrachloroethane	CBZ	Ave	19128 681581	83874 772016	171864 1003707	264462	351798	5.00 175	25.0 200	50.0 250	75.0	100
Bromobenzene	DCB	Ave	16809 637569	80670 740842	168649 956763	253502	346996	5.00 175	25.0 200	50.0 250	75.0	100
1,2,3-Trichloropropane	DCB	Ave	5918 214358	24990 233938	55900 325768	81225	111668	5.00 175	25.0 200	50.0 250	75.0	100
trans-1,4-Dichloro-2-butene	DCB	Ave	4503 180624	21505 211691	42827 286166	66879	92761	5.00 175	25.0 200	50.0 250	75.0	100
N-Propylbenzene	DCB	Ave	21543 780243	102304 887838	210687 1131297	316980	419888	5.00 175	25.0 200	50.0 250	75.0	100
2-Chlorotoluene	DCB	Ave	17942 666866	84295 756732	177793 963573	262207	351403	5.00 175	25.0 200	50.0 250	75.0	100
3-Chlorotoluene	DCB	Ave	20174 757051	91182 890638	185477 1053875	291288	415463	5.00 175	25.0 200	50.0 250	75.0	100
1,3,5-Trimethylbenzene	DCB	Ave	61438 2136446	289696 2387945	588847 2983647	921783	1188743	5.00 175	25.0 200	50.0 250	75.0	100
4-Chlorotoluene	DCB	Ave	19812 711885	89370 795532	189449 1062581	296950	377870	5.00 175	25.0 200	50.0 250	75.0	100
tert-Butylbenzene	DCB	Ave	55729 1828125	248042 2060731	517188 2516209	794422	1020106	5.00 175	25.0 200	50.0 250	75.0	100
1,2,4-Trimethylbenzene	DCB	Ave	63098 2187785	292909 2461131	610150 3068942	951216	1214438	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.: 180-43185-1 Analy Batch No.: 135593

SDG No.: _____

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

Calibration Start Date: 03/16/2015 12:41 Calibration End Date: 03/16/2015 16:17 Calibration ID: 22457

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		
3,4-Dichlorobenzotrifluoride	DCB	Ave	19333 719294	87627 832435	179092 991010	303120	396211	5.00 175	25.0 200	50.0 250	75.0	100
sec-Butylbenzene	DCB	Ave	75379 2565671	361915 2854173	732318 3463106	1138120	1462842	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Dichlorobenzene	DCB	Ave	33497 1159025	151937 1308081	302903 1687649	480001	630675	5.00 175	25.0 200	50.0 250	75.0	100
4-Isopropyltoluene	DCB	Ave	61054 2157955	284792 2408127	605051 2970922	948139	1195021	5.00 175	25.0 200	50.0 250	75.0	100
1,4-Dichlorobenzene	DCB	Ave	34596 1196958	150942 1348596	310551 1736319	484138	642365	5.00 175	25.0 200	50.0 250	75.0	100
2,4-Dichlorobenzotrifluoride	DCB	Ave	17792 675783	81937 786683	174468 909481	289446	358539	5.00 175	25.0 200	50.0 250	75.0	100
2,5-Dichlorobenzotrifluoride	DCB	Ave	20678 748317	94772 877059	186350 1042359	309155	406971	5.00 175	25.0 200	50.0 250	75.0	100
n-Butylbenzene	DCB	Ave	54758 1983203	262455 2209671	542017 2715831	861784	1093564	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichlorobenzene	DCB	Ave	30414 1092014	136843 1224311	283138 1565775	440732	595901	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dibromo-3-Chloropropane	DCB	Ave	2299 97714	9396 112547	21428 147059	36318	47067	5.00 175	25.0 200	50.0 250	75.0	100
1,2,4-Trichlorobenzene	DCB	Ave	17018 608110	62363 679520	132179 825772	240861	295444	5.00 175	25.0 200	50.0 250	75.0	100
Hexachlorobutadiene	DCB	Ave	8549 274932	33676 307470	67414 367792	112236	140410	5.00 175	25.0 200	50.0 250	75.0	100
Naphthalene	DCB	Ave	41842 1599300	161398 1786434	347596 2220927	657935	789643	5.00 175	25.0 200	50.0 250	75.0	100
1,2,3-Trichlorobenzene	DCB	Ave	13823 504504	47333 582911	105062 697862	200345	242534	5.00 175	25.0 200	50.0 250	75.0	100
2,4,5-Trichlorotoluene	DCB	Ave	8592 273662	24209 315499	51080 364223	108037	123791	5.00 175	25.0 200	50.0 250	75.0	100
2,3,6-Trichlorotoluene	DCB	Ave	7658 246163	22020 285573	47319 323920	98974	110702	5.00 175	25.0 200	50.0 250	75.0	100
Dibromofluoromethane (Surr)	FB	Ave	14193 435320	61901 526164	122918 664693	185698	248750	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloroethane-d4 (Surr)	FB	Ave	17152 589491	83077 691002	162227 889045	247858	335757	5.00 175	25.0 200	50.0 250	75.0	100
Toluene-d8 (Surr)	CBZ	Ave	54935 1858068	253798 2153477	527093 2632400	794092	1053927	5.00 175	25.0 200	50.0 250	75.0	100
4-Bromofluorobenzene (Surr)	CBZ	Ave	19061 701915	86585 798953	183629 1045249	279546	379740	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.: 180-43185-1 Analy Batch No.: 135593

SDG No.: _____

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

Calibration Start Date: 03/16/2015 12:41 Calibration End Date: 03/16/2015 16:17 Calibration ID: 22457

Curve Type Legend:

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

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316004.D
 Lims ID: IC VSTD5
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 16-Mar-2015 12:41:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD5
 Misc. Info.: 180-0006031-004
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub4
 Method: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 17-Mar-2015 10:59:20 Calib Date: 16-Mar-2015 16:17:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: fergusond

Date: 17-Mar-2015 09:28:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.302	4.305	-0.003	88	140612	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.277	7.273	0.004	97	543896	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.361	10.364	-0.003	99	120496	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.685	12.682	0.003	97	176082	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.535	6.525	0.010	94	61901	25.0	25.0	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.906	6.902	0.004	96	83077	25.0	25.5	
\$ 7 Toluene-d8 (Surr)	98	8.919	8.922	-0.003	100	253798	25.0	26.4	
\$ 8 4-Bromofluorobenzene (Surr	95	11.529	11.532	-0.003	95	86585	25.0	25.0	
11 Dichlorodifluoromethane	85	1.619	1.616	0.003	98	59394	25.0	25.5	
12 Chloromethane	50	1.771	1.774	-0.003	100	82552	25.0	25.7	
13 Vinyl chloride	62	1.905	1.902	0.003	99	94520	25.0	26.3	
14 Butadiene	39	1.948	1.944	0.004	98	108469	25.0	26.4	
15 Bromomethane	94	2.252	2.249	0.003	90	55097	25.0	26.2	M
16 Chloroethane	64	2.392	2.370	0.022	97	60248	25.0	24.2	
17 Dichlorofluoromethane	67	2.660	2.650	0.010	98	142662	25.0	25.1	
18 Trichlorofluoromethane	101	2.690	2.711	-0.021	96	107038	25.0	24.8	
20 Ethyl ether	59	3.085	3.088	-0.003	98	66452	25.0	23.4	
21 Acrolein	56	3.256	3.252	0.004	96	41017	125.0	118.7	
22 1,1-Dichloroethene	96	3.371	3.386	-0.015	97	78897	25.0	25.2	
23 1,1,2-Trichloro-1,2,2-trif	101	3.444	3.429	0.015	97	80854	25.0	25.5	
24 Acetone	43	3.493	3.496	-0.003	98	52410	50.0	47.0	
25 Iodomethane	142	3.572	3.587	-0.015	98	109309	25.0	25.1	
26 Carbon disulfide	76	3.651	3.654	-0.003	100	192118	25.0	25.0	
28 3-Chloro-1-propene	76	3.931	3.940	-0.009	92	38957	25.0	23.5	
30 Methyl acetate	43	4.022	4.019	0.003	100	299965	125.0	115.1	
31 Methylene Chloride	84	4.144	4.134	0.010	95	90836	25.0	25.0	
32 2-Methyl-2-propanol	59	4.430	4.445	-0.015	90	39251	250.0	237.0	
33 Acrylonitrile	53	4.552	4.554	-0.002	100	322268	250.0	240.3	
34 trans-1,2-Dichloroethene	96	4.564	4.560	0.004	61	82640	25.0	25.5	
35 Methyl tert-butyl ether	73	4.594	4.591	0.003	96	160325	25.0	22.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.983	4.980	0.003	97	130741	25.0	25.2	
37 1,1-Dichloroethane	63	5.178	5.169	0.009	99	145639	25.0	25.2	
38 Vinyl acetate	43	5.300	5.290	0.010	100	85462	25.0	20.8	
44 2,2-Dichloropropane	77	5.926	5.923	0.003	85	33850	25.0	23.4	
45 cis-1,2-Dichloroethene	96	5.939	5.935	0.004	94	86701	25.0	25.4	
46 2-Butanone (MEK)	43	5.987	5.990	-0.003	99	83987	50.0	47.1	
49 Chlorobromomethane	128	6.224	6.233	-0.009	96	36107	25.0	24.4	
51 Tetrahydrofuran	42	6.285	6.288	-0.003	97	52231	50.0	46.8	
52 Chloroform	83	6.340	6.343	-0.003	96	130523	25.0	24.8	
53 1,1,1-Trichloroethane	97	6.529	6.531	-0.002	95	77770	25.0	23.2	
54 Cyclohexane	56	6.589	6.586	0.003	96	161271	25.0	25.0	
56 Carbon tetrachloride	117	6.723	6.720	0.003	69	64089	25.0	23.8	
55 1,1-Dichloropropene	75	6.729	6.726	0.003	96	111342	25.0	25.5	
57 Isobutyl alcohol	41	6.942	6.945	-0.003	33	29897	625.0	411.8	
58 Benzene	78	6.954	6.957	-0.003	98	324419	25.0	25.2	
59 1,2-Dichloroethane	62	6.985	6.981	0.004	98	104777	25.0	24.8	
62 n-Heptane	43	7.277	7.280	-0.003	65	113041	25.0	25.5	
64 Trichloroethene	130	7.666	7.669	-0.003	99	78459	25.0	24.3	
66 Methylcyclohexane	83	7.867	7.864	0.003	96	146574	25.0	25.4	
67 1,2-Dichloropropane	63	7.903	7.906	-0.003	95	72742	25.0	22.8	
68 Dibromomethane	93	8.031	8.028	0.003	94	40542	25.0	23.6	
70 1,4-Dioxane	88	8.068	8.058	0.010	87	15563	500.0	463.6	
71 Dichlorobromomethane	83	8.196	8.198	-0.002	97	84673	25.0	24.2	
74 cis-1,3-Dichloropropene	75	8.658	8.661	-0.002	98	70642	25.0	20.9	
75 4-Methyl-2-pentanone (MIBK)	43	8.822	8.825	-0.003	98	154453	50.0	47.4	
76 Toluene	91	8.992	8.989	0.003	99	331041	25.0	26.8	
77 trans-1,3-Dichloropropene	75	9.224	9.220	0.004	95	44917	25.0	20.1	
78 Ethyl methacrylate	69	9.321	9.318	0.003	97	59964	25.0	20.6	
79 1,1,2-Trichloroethane	97	9.400	9.397	0.003	98	55897	25.0	24.1	
80 Tetrachloroethene	164	9.534	9.537	-0.003	96	64647	25.0	26.8	
81 1,3-Dichloropropane	76	9.570	9.567	0.003	98	110194	25.0	25.6	
82 2-Hexanone	43	9.662	9.658	0.004	99	112348	50.0	45.1	
84 Chlorodibromomethane	129	9.795	9.786	0.009	98	43996	25.0	23.8	
85 Ethylene Dibromide	107	9.899	9.902	-0.003	99	51254	25.0	23.2	
86 3-Chlorobenzotrifluoride	180	10.373	10.370	0.003	89	124209	25.0	26.4	
87 Chlorobenzene	112	10.392	10.394	-0.002	99	203702	25.0	26.0	
88 4-Chlorobenzotrifluoride	180	10.434	10.431	0.003	99	116232	25.0	25.5	
89 1,1,1,2-Tetrachloroethane	131	10.477	10.473	0.004	96	48269	25.0	23.9	
90 Ethylbenzene	106	10.501	10.498	0.003	100	116477	25.0	25.9	
91 m-Xylene & p-Xylene	106	10.617	10.619	-0.002	99	142634	25.0	26.0	
92 o-Xylene	106	11.012	11.015	-0.003	97	132929	25.0	24.8	
93 Styrene	104	11.024	11.027	-0.003	99	220574	25.0	25.5	
94 Bromoform	173	11.213	11.209	0.004	97	26498	25.0	23.2	
96 2-Chlorobenzotrifluoride	180	11.274	11.276	-0.002	97	125099	25.0	26.6	
97 Isopropylbenzene	105	11.377	11.380	-0.003	99	368436	25.0	27.5	
99 1,1,2,2-Tetrachloroethane	83	11.675	11.672	0.003	70	83874	25.0	25.3	
100 Bromobenzene	156	11.681	11.684	-0.003	98	80670	25.0	24.8	
101 1,2,3-Trichloropropane	110	11.718	11.720	-0.002	95	24990	25.0	23.3	
102 trans-1,4-Dichloro-2-buten	53	11.730	11.727	0.003	85	21505	25.0	24.2	
103 N-Propylbenzene	120	11.791	11.787	0.004	100	102304	25.0	25.4	
104 2-Chlorotoluene	126	11.876	11.873	0.003	99	84295	25.0	25.0	
105 3-Chlorotoluene	126	11.937	11.933	0.004	98	91182	25.0	24.2	

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	11.961	11.964	-0.003	100	289696	25.0	25.8	
107 4-Chlorotoluene	126	11.986	11.982	0.004	96	89370	25.0	24.4	
108 tert-Butylbenzene	119	12.290	12.286	0.004	98	248042	25.0	25.5	
110 1,2,4-Trimethylbenzene	105	12.338	12.335	0.003	99	292909	25.0	25.5	
111 1,2-dichloro-4-(trifluorom	214	12.399	12.402	-0.003	98	87627	25.0	24.1	
112 sec-Butylbenzene	105	12.509	12.505	0.004	100	361915	25.0	26.5	
113 1,3-Dichlorobenzene	146	12.618	12.615	0.003	99	151937	25.0	25.3	
114 4-Isopropyltoluene	119	12.655	12.651	0.004	99	284792	25.0	25.2	
115 1,4-Dichlorobenzene	146	12.709	12.706	0.003	98	150942	25.0	24.6	
116 2,4-Dichloro-1-(trifluorom	214	12.758	12.761	-0.003	94	81937	25.0	24.1	
118 2,5-Dichlorobenzotrifluori	214	12.807	12.809	-0.002	97	94772	25.0	24.9	
120 n-Butylbenzene	91	13.062	13.059	0.003	100	262455	25.0	25.5	
121 1,2-Dichlorobenzene	146	13.081	13.083	-0.002	99	136843	25.0	24.6	
122 1,2-Dibromo-3-Chloropropan	75	13.859	13.862	-0.003	92	9396	25.0	20.7	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.011	14.008	0.003	99	300911	75.0	71.6	
125 2,3- & 3,4- Dichlorotoluen	125	14.425	14.428	-0.003	99	191256	50.0	46.8	
126 1,2,4-Trichlorobenzene	180	14.693	14.689	0.004	98	62363	25.0	21.5	
127 Hexachlorobutadiene	225	14.863	14.860	0.003	95	33676	25.0	24.3	
128 Naphthalene	128	14.942	14.939	0.003	99	161398	25.0	21.2	
129 1,2,3-Trichlorobenzene	180	15.185	15.188	-0.003	97	47333	25.0	19.9	
131 2,4,5-Trichlorotoluene	159	15.964	15.961	0.003	95	24209	25.0	19.0	
130 2,3,6-Trichlorotoluene	159	16.061	16.064	-0.003	95	22020	25.0	19.1	
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		50.0	50.7	
S 134 1,2-Dichloroethene, Total	96				0		50.0	50.8	
S 135 1,3-Dichloropropene, Total	1				0		50.0	41.0	

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	
voaWEEpri Res_00003	Amount Added: 1.00	Units: uL	
voaWKetpri Re_00003	Amount Added: 1.00	Units: uL	
VOA8260SURR_00032	Amount Added: 1.00	Units: uL	
VOA8260VOAPRI_00105	Amount Added: 1.00	Units: uL	
VOAVAPRI_00005	Amount Added: 1.00	Units: uL	
VOA8260INT_00030	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316004.D

Injection Date: 16-Mar-2015 12:41:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: IC VSTD5

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

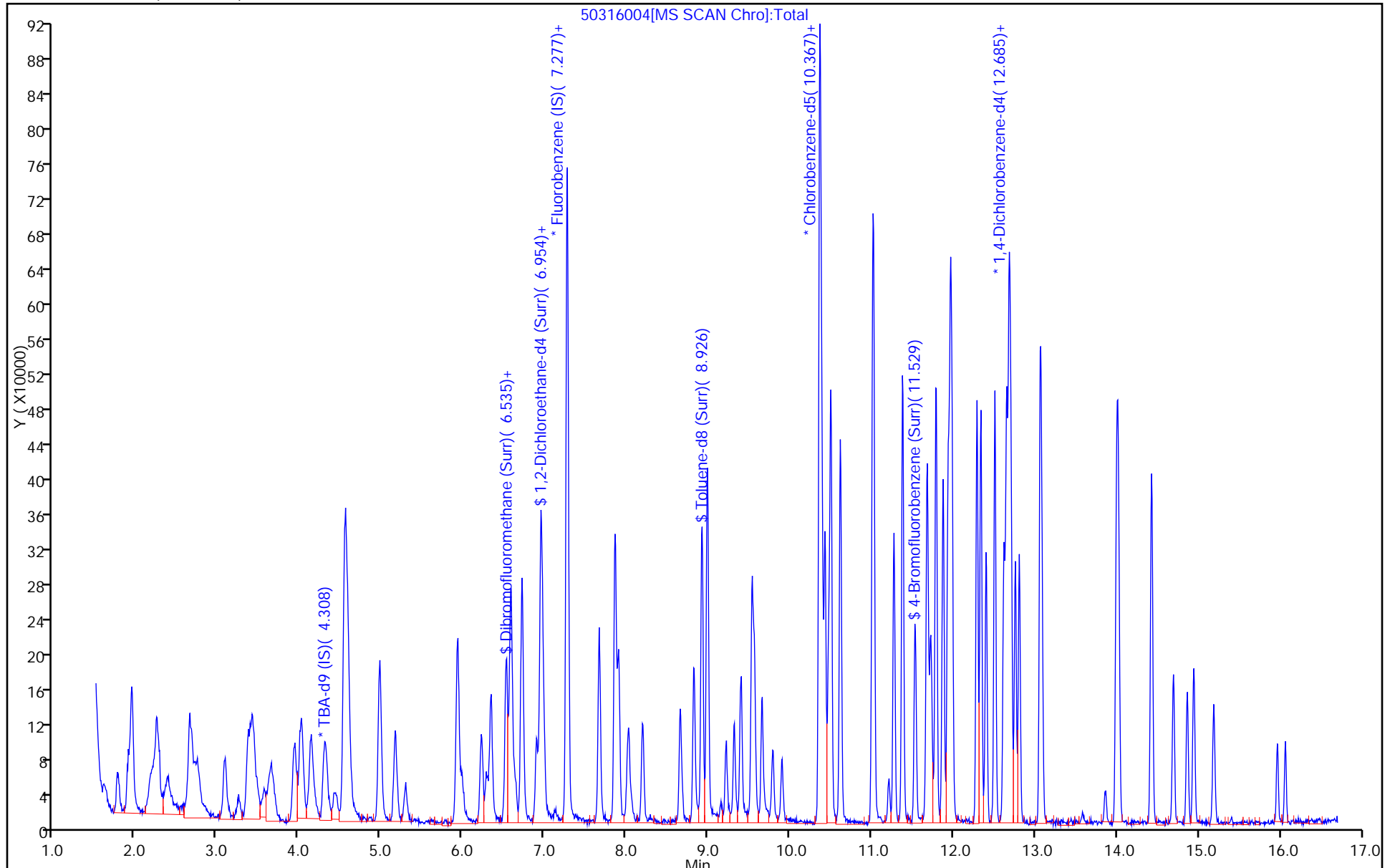
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



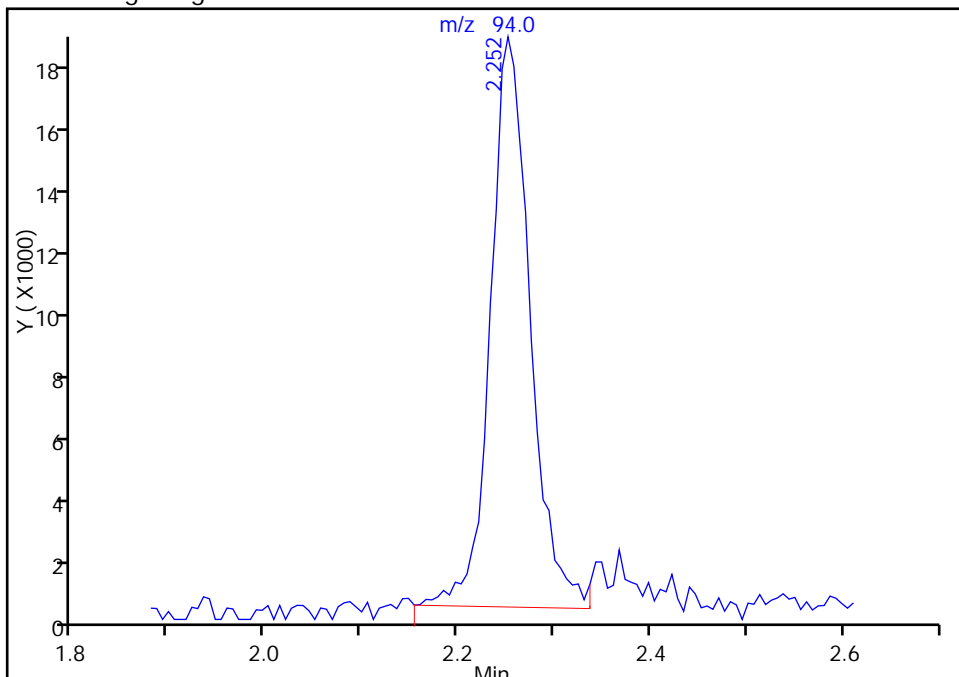
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316004.D
Injection Date: 16-Mar-2015 12:41:30 Instrument ID: CHHP5
Lims ID: IC VSTD5
Client ID:
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

15 Bromomethane, CAS: 74-83-9

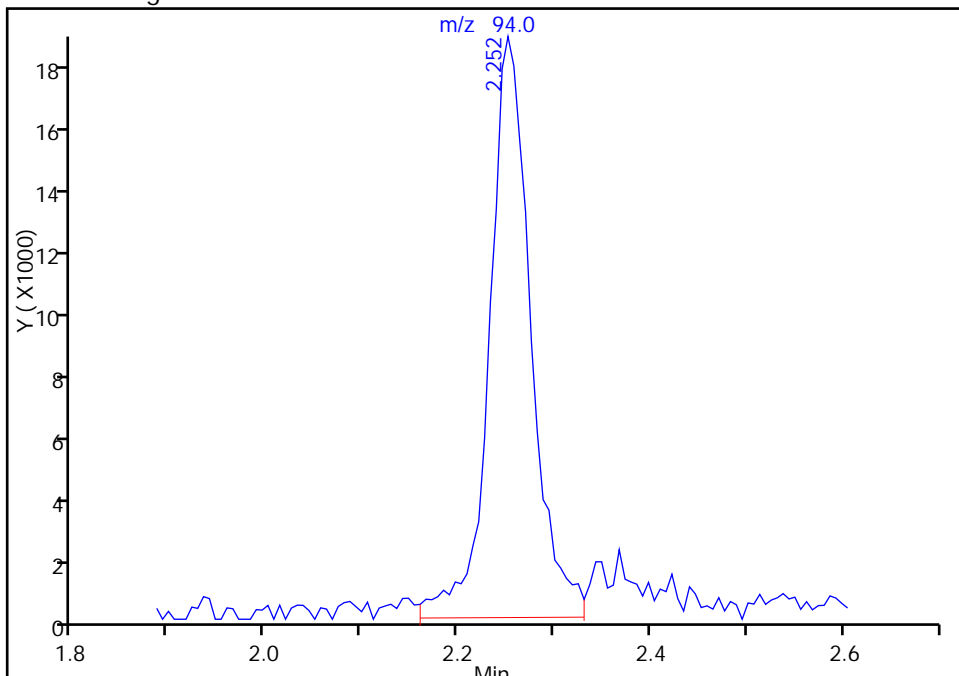
RT: 2.25
Area: 51742
Amount: 22.147125
Amount Units: ng

Processing Integration Results



RT: 2.25
Area: 55097
Amount: 26.195176
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 17-Mar-2015 09:42:10
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316005.D
 Lims ID: ICIS VSTD10
 Client ID:
 Sample Type: ICIS Calib Level: 3
 Inject. Date: 16-Mar-2015 13:05:30 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICIS VSTD10
 Misc. Info.: 180-0006031-005
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub4
 Method: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 17-Mar-2015 10:59:21 Calib Date: 16-Mar-2015 16:17:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: fergusond

Date: 16-Mar-2015 15:03:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.305	4.305	0.000	86	135440	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.273	7.273	0.000	99	538139	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.364	10.364	0.000	97	121549	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.682	12.682	0.000	98	174397	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.525	6.525	0.000	95	122918	50.0	50.2	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.902	6.902	0.000	99	162227	50.0	50.3	
\$ 7 Toluene-d8 (Surr)	98	8.922	8.922	0.000	100	527093	50.0	54.4	
\$ 8 4-Bromofluorobenzene (Surr	95	11.532	11.532	0.000	95	183629	50.0	52.6	
11 Dichlorodifluoromethane	85	1.616	1.616	0.000	100	116111	50.0	50.3	
12 Chloromethane	50	1.774	1.774	0.000	100	159885	50.0	50.2	
13 Vinyl chloride	62	1.902	1.902	0.000	100	183317	50.0	51.5	
14 Butadiene	39	1.944	1.944	0.000	99	208815	50.0	51.4	
15 Bromomethane	94	2.249	2.249	0.000	93	100717	50.0	52.5	
16 Chloroethane	64	2.370	2.370	0.000	98	126349	50.0	51.3	
17 Dichlorofluoromethane	67	2.650	2.650	0.000	100	282324	50.0	50.2	
18 Trichlorofluoromethane	101	2.711	2.711	0.000	98	217544	50.0	51.0	
20 Ethyl ether	59	3.088	3.088	0.000	98	138609	50.0	49.2	
21 Acrolein	56	3.252	3.252	0.000	98	50582	150.0	147.9	
22 1,1-Dichloroethene	96	3.386	3.386	0.000	99	151843	50.0	48.9	
23 1,1,2-Trichloro-1,2,2-trif	101	3.429	3.429	0.000	97	159979	50.0	51.0	
24 Acetone	43	3.496	3.496	0.000	99	102899	100.0	93.3	
25 Iodomethane	142	3.587	3.587	0.000	96	216640	50.0	50.3	
26 Carbon disulfide	76	3.654	3.654	0.000	100	387934	50.0	51.1	
28 3-Chloro-1-propene	76	3.940	3.940	0.000	96	80577	50.0	49.1	
30 Methyl acetate	43	4.019	4.019	0.000	100	641136	250.0	248.6	
31 Methylene Chloride	84	4.134	4.134	0.000	86	168570	50.0	47.0	
32 2-Methyl-2-propanol	59	4.445	4.445	0.000	86	83098	500.0	520.9	
33 Acrylonitrile	53	4.554	4.554	0.000	99	666088	500.0	502.1	
34 trans-1,2-Dichloroethene	96	4.560	4.560	0.000	59	161381	50.0	50.3	
35 Methyl tert-butyl ether	73	4.591	4.591	0.000	96	336961	50.0	47.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.980	4.980	0.000	98	261916	50.0	51.1	
37 1,1-Dichloroethane	63	5.169	5.169	0.000	100	291408	50.0	50.9	
38 Vinyl acetate	43	5.290	5.290	0.000	100	187915	50.0	46.2	
44 2,2-Dichloropropane	77	5.923	5.923	0.000	67	70106	50.0	48.9	
45 cis-1,2-Dichloroethene	96	5.935	5.935	0.000	92	164893	50.0	48.8	
46 2-Butanone (MEK)	43	5.990	5.990	0.000	100	180996	100.0	102.7	
49 Chlorobromomethane	128	6.233	6.233	0.000	95	71124	50.0	48.6	
51 Tetrahydrofuran	42	6.288	6.288	0.000	98	110274	100.0	99.9	
52 Chloroform	83	6.343	6.343	0.000	96	262371	50.0	50.4	
53 1,1,1-Trichloroethane	97	6.531	6.531	0.000	95	167130	50.0	50.3	
54 Cyclohexane	56	6.586	6.586	0.000	95	322468	50.0	50.5	
56 Carbon tetrachloride	117	6.720	6.720	0.000	69	132517	50.0	49.7	
55 1,1-Dichloropropene	75	6.726	6.726	0.000	97	219974	50.0	51.0	
57 Isobutyl alcohol	41	6.945	6.945	0.000	37	83109	1250.0	1157.0	
58 Benzene	78	6.957	6.957	0.000	99	654151	50.0	51.3	
59 1,2-Dichloroethane	62	6.981	6.981	0.000	97	208683	50.0	50.0	
62 n-Heptane	43	7.280	7.280	0.000	81	222515	50.0	50.8	
64 Trichloroethene	130	7.669	7.669	0.000	98	162608	50.0	50.9	
66 Methylcyclohexane	83	7.864	7.864	0.000	96	295972	50.0	51.9	
67 1,2-Dichloropropane	63	7.906	7.906	0.000	95	154467	50.0	49.0	
68 Dibromomethane	93	8.028	8.028	0.000	95	82469	50.0	48.6	
70 1,4-Dioxane	88	8.058	8.058	0.000	96	31354	1000.0	944.0	M
71 Dichlorobromomethane	83	8.198	8.198	0.000	99	176851	50.0	51.0	
74 cis-1,3-Dichloropropene	75	8.661	8.661	0.000	99	152581	50.0	45.6	
75 4-Methyl-2-pentanone (MIBK)	43	8.825	8.825	0.000	99	342539	100.0	104.1	
76 Toluene	91	8.989	8.989	0.000	100	679332	50.0	54.5	
77 trans-1,3-Dichloropropene	75	9.220	9.220	0.000	94	108942	50.0	48.4	
78 Ethyl methacrylate	69	9.318	9.318	0.000	96	142858	50.0	48.7	
79 1,1,2-Trichloroethane	97	9.397	9.397	0.000	99	125390	50.0	53.7	
80 Tetrachloroethene	164	9.537	9.537	0.000	95	129494	50.0	53.1	
81 1,3-Dichloropropane	76	9.567	9.567	0.000	98	233217	50.0	53.7	
82 2-Hexanone	43	9.658	9.658	0.000	99	271508	100.0	108.0	
84 Chlorodibromomethane	129	9.786	9.786	0.000	99	96762	50.0	51.9	
85 Ethylene Dibromide	107	9.902	9.902	0.000	98	115204	50.0	51.7	
86 3-Chlorobenzotrifluoride	180	10.370	10.370	0.000	97	251080	50.0	52.8	
87 Chlorobenzene	112	10.394	10.394	0.000	99	416488	50.0	52.8	
88 4-Chlorobenzotrifluoride	180	10.431	10.431	0.000	99	234233	50.0	51.0	
89 1,1,1,2-Tetrachloroethane	131	10.473	10.473	0.000	97	101650	50.0	49.9	
90 Ethylbenzene	106	10.498	10.498	0.000	100	242856	50.0	53.6	
91 m-Xylene & p-Xylene	106	10.619	10.619	0.000	99	293796	50.0	53.0	
92 o-Xylene	106	11.015	11.015	0.000	97	285835	50.0	52.8	
93 Styrene	104	11.027	11.027	0.000	99	469890	50.0	53.8	
94 Bromoform	173	11.209	11.209	0.000	96	57667	50.0	50.1	
96 2-Chlorobenzotrifluoride	180	11.276	11.276	0.000	99	252226	50.0	53.1	
97 Isopropylbenzene	105	11.380	11.380	0.000	100	741027	50.0	54.8	
99 1,1,2,2-Tetrachloroethane	83	11.672	11.672	0.000	97	171864	50.0	51.3	
100 Bromobenzene	156	11.684	11.684	0.000	98	168649	50.0	52.2	
101 1,2,3-Trichloropropane	110	11.720	11.720	0.000	97	55900	50.0	52.7	
102 trans-1,4-Dichloro-2-buten	53	11.727	11.727	0.000	88	42827	50.0	48.6	
103 N-Propylbenzene	120	11.787	11.787	0.000	100	210687	50.0	52.9	
104 2-Chlorotoluene	126	11.873	11.873	0.000	100	177793	50.0	53.1	
105 3-Chlorotoluene	126	11.933	11.933	0.000	99	185477	50.0	49.6	

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	11.964	11.964	0.000	99	588847	50.0	53.0	
107 4-Chlorotoluene	126	11.982	11.982	0.000	99	189449	50.0	52.3	
108 tert-Butylbenzene	119	12.286	12.286	0.000	100	517188	50.0	53.8	
110 1,2,4-Trimethylbenzene	105	12.335	12.335	0.000	100	610150	50.0	53.5	
111 1,2-dichloro-4-(trifluorom	214	12.402	12.402	0.000	98	179092	50.0	49.7	
112 sec-Butylbenzene	105	12.505	12.505	0.000	100	732318	50.0	54.1	
113 1,3-Dichlorobenzene	146	12.615	12.615	0.000	98	302903	50.0	50.9	
114 4-Isopropyltoluene	119	12.651	12.651	0.000	99	605051	50.0	54.1	
115 1,4-Dichlorobenzene	146	12.706	12.706	0.000	98	310551	50.0	51.1	
116 2,4-Dichloro-1-(trifluorom	214	12.761	12.761	0.000	94	174468	50.0	51.7	
118 2,5-Dichlorobenzotrifluori	214	12.809	12.809	0.000	98	186350	50.0	49.4	
120 n-Butylbenzene	91	13.059	13.059	0.000	100	542017	50.0	53.3	
121 1,2-Dichlorobenzene	146	13.083	13.083	0.000	100	283138	50.0	51.4	
122 1,2-Dibromo-3-Chloropropan	75	13.862	13.862	0.000	86	21428	50.0	47.6	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.008	14.008	0.000	99	613057	150.0	147.3	
125 2,3- & 3,4- Dichlorotoluen	125	14.428	14.428	0.000	100	386758	100.0	95.5	
126 1,2,4-Trichlorobenzene	180	14.689	14.689	0.000	96	132179	50.0	46.1	
127 Hexachlorobutadiene	225	14.860	14.860	0.000	96	67414	50.0	49.0	
128 Naphthalene	128	14.939	14.939	0.000	100	347596	50.0	46.2	
129 1,2,3-Trichlorobenzene	180	15.188	15.188	0.000	98	105062	50.0	44.7	
131 2,4,5-Trichlorotoluene	159	15.961	15.961	0.000	96	51080	50.0	40.4	
130 2,3,6-Trichlorotoluene	159	16.064	16.064	0.000	97	47319	50.0	41.5	
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		100.0	105.8	
S 134 1,2-Dichloroethene, Total	96				0		100.0	99.0	
S 135 1,3-Dichloropropene, Total	1				0		100.0	94.1	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOAVAPRI_00005	Amount Added: 2.00	Units: uL	
VOA8260VOAPRI_00105	Amount Added: 2.00	Units: uL	
VOA8260SURR_00032	Amount Added: 2.00	Units: uL	
voaWEEpri Res_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_00030	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316005.D

Injection Date: 16-Mar-2015 13:05:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: ICIS VSTD10

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

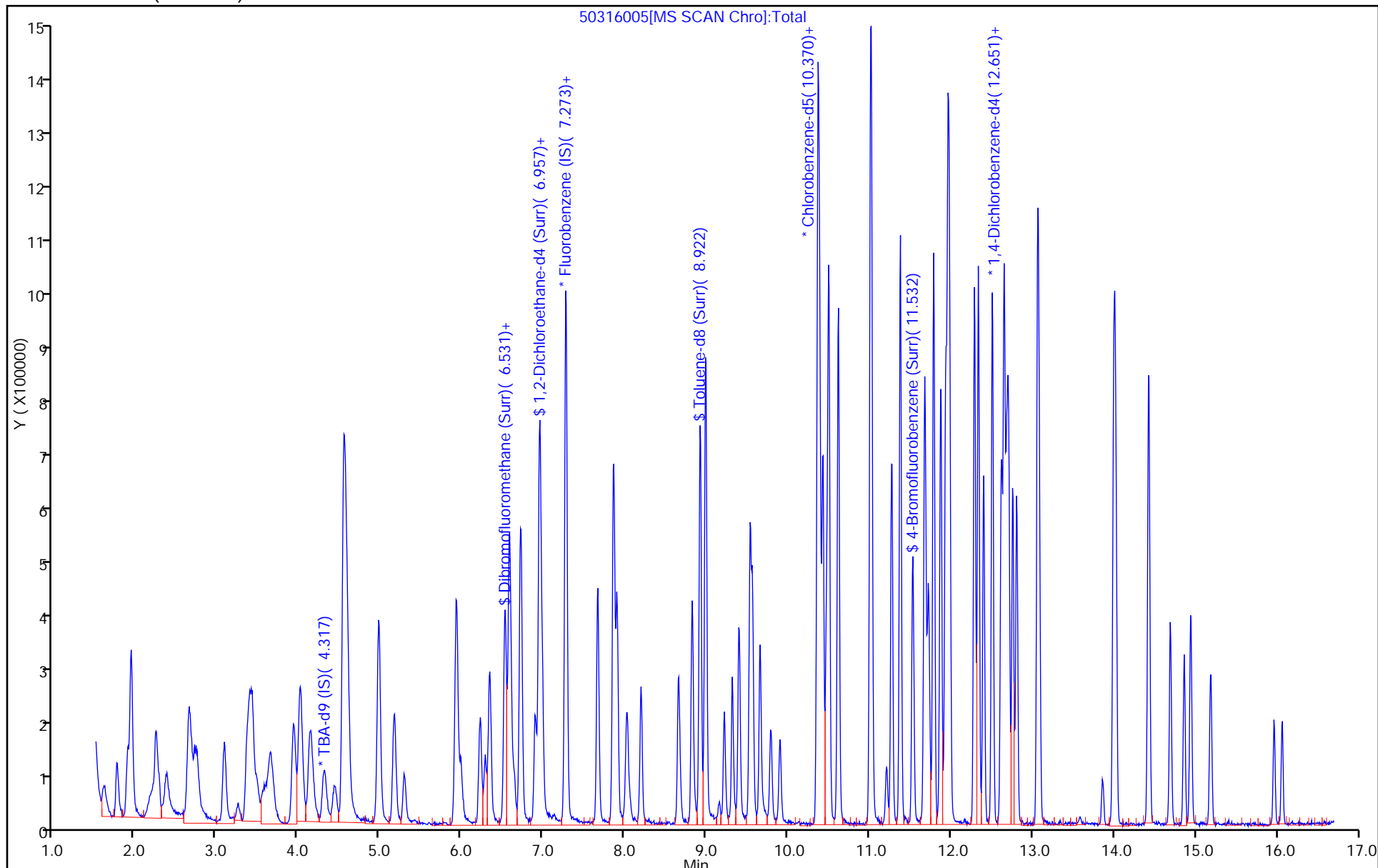
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



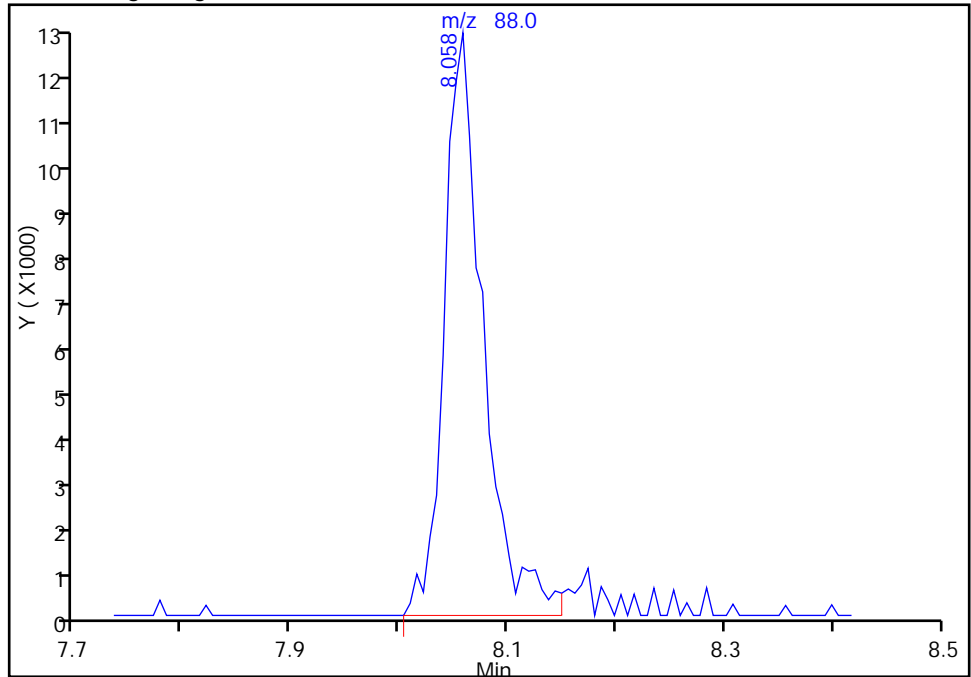
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316005.D
Injection Date: 16-Mar-2015 13:05:30 Instrument ID: CHHP5
Lims ID: ICIS VSTD10
Client ID:
Operator ID: 001562 ALS Bottle#: 5 Worklist Smp#: 5
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

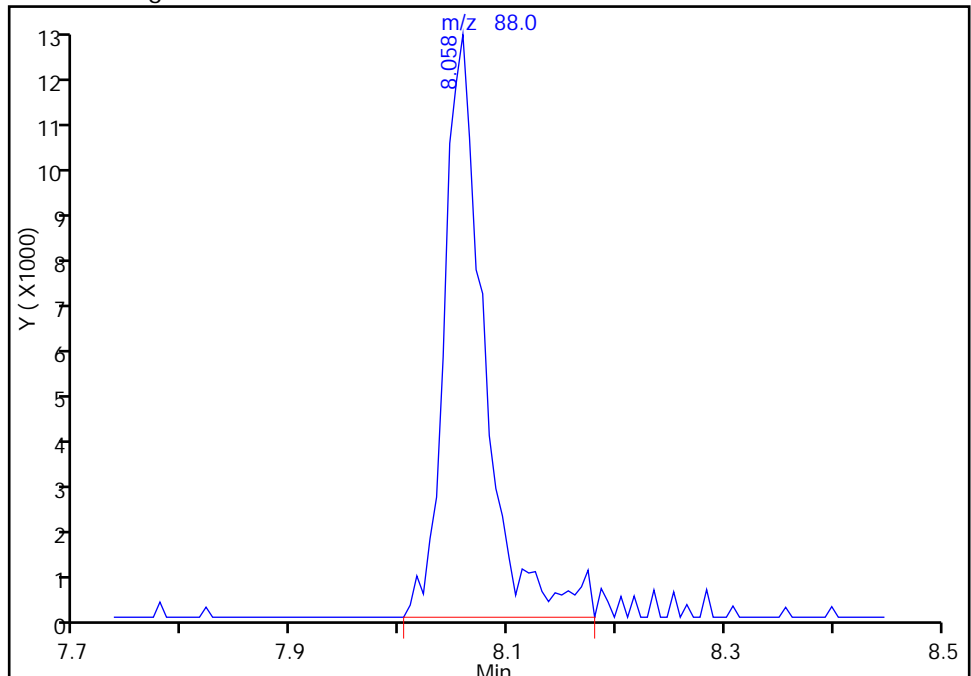
RT: 8.06
Area: 30397
Amount: 939.9751
Amount Units: ng

Processing Integration Results



RT: 8.06
Area: 31354
Amount: 944.0403
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 17-Mar-2015 09:27:38
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316006.D
 Lims ID: IC VSTD15
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 16-Mar-2015 13:29:30 ALS Bottle#: 6 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD15
 Misc. Info.: 180-0006031-006
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub4
 Method: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 17-Mar-2015 10:59:26 Calib Date: 16-Mar-2015 16:17:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: fergusond

Date: 17-Mar-2015 09:45:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.305	4.305	0.000	89	152705	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.273	7.273	0.000	99	530419	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.364	10.364	0.000	99	125149	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.682	12.682	0.000	95	182887	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.525	6.525	0.000	97	185698	75.0	77.0	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.902	6.902	0.000	96	247858	75.0	77.9	
\$ 7 Toluene-d8 (Surr)	98	8.922	8.922	0.000	100	794092	75.0	79.6	
\$ 8 4-Bromofluorobenzene (Surr	95	11.532	11.532	0.000	97	279546	75.0	77.8	
11 Dichlorodifluoromethane	85	1.622	1.622	0.000	99	173113	75.0	76.1	
12 Chloromethane	50	1.768	1.768	0.000	99	249772	75.0	79.6	
13 Vinyl chloride	62	1.896	1.896	0.000	100	280135	75.0	79.9	
14 Butadiene	39	1.944	1.944	0.000	99	317272	75.0	79.2	
15 Bromomethane	94	2.249	2.249	0.000	92	159846	75.0	87.5	
16 Chloroethane	64	2.376	2.376	0.000	96	191164	75.0	78.8	
17 Dichlorofluoromethane	67	2.644	2.644	0.000	99	437737	75.0	79.0	
18 Trichlorofluoromethane	101	2.723	2.723	0.000	96	358375	75.0	85.2	
20 Ethyl ether	59	3.082	3.082	0.000	100	214135	75.0	77.2	
21 Acrolein	56	3.258	3.258	0.000	100	62132	175.0	184.3	
22 1,1-Dichloroethene	96	3.374	3.374	0.000	100	235889	75.0	77.1	
23 1,1,2-Trichloro-1,2,2-trif	101	3.423	3.423	0.000	100	246660	75.0	79.7	
24 Acetone	43	3.496	3.496	0.000	100	180387	150.0	166.0	
25 Iodomethane	142	3.581	3.581	0.000	100	334141	75.0	78.6	
26 Carbon disulfide	76	3.660	3.660	0.000	100	592248	75.0	79.2	
28 3-Chloro-1-propene	76	3.934	3.934	0.000	100	125423	75.0	77.6	
30 Methyl acetate	43	4.019	4.019	0.000	100	994505	375.0	391.2	
31 Methylene Chloride	84	4.147	4.147	0.000	100	256424	75.0	72.5	
32 2-Methyl-2-propanol	59	4.439	4.439	0.000	100	133756	750.0	743.6	
33 Acrylonitrile	53	4.554	4.554	0.000	100	1035956	750.0	792.2	
34 trans-1,2-Dichloroethene	96	4.560	4.560	0.000	100	251288	75.0	79.4	
35 Methyl tert-butyl ether	73	4.597	4.597	0.000	100	528520	75.0	75.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.980	4.980	0.000	100	392065	75.0	77.6	
37 1,1-Dichloroethane	63	5.175	5.175	0.000	100	435915	75.0	77.2	
38 Vinyl acetate	43	5.296	5.296	0.000	100	294456	75.0	73.5	
44 2,2-Dichloropropane	77	5.929	5.929	0.000	100	108858	75.0	77.1	
45 cis-1,2-Dichloroethene	96	5.941	5.941	0.000	100	259517	75.0	77.9	
46 2-Butanone (MEK)	43	5.990	5.990	0.000	100	259227	150.0	149.2	
49 Chlorobromomethane	128	6.227	6.227	0.000	100	109930	75.0	76.2	
51 Tetrahydrofuran	42	6.282	6.282	0.000	100	166594	150.0	153.1	
52 Chloroform	83	6.343	6.343	0.000	100	395935	75.0	77.2	
53 1,1,1-Trichloroethane	97	6.531	6.531	0.000	100	259963	75.0	79.4	
54 Cyclohexane	56	6.586	6.586	0.000	100	497889	75.0	79.2	
56 Carbon tetrachloride	117	6.720	6.720	0.000	100	203736	75.0	77.5	
55 1,1-Dichloropropene	75	6.726	6.726	0.000	100	326699	75.0	76.8	
57 Isobutyl alcohol	41	6.945	6.945	0.000	100	137203	1875.0	1937.9	M
58 Benzene	78	6.957	6.957	0.000	100	984614	75.0	78.3	
59 1,2-Dichloroethane	62	6.988	6.988	0.000	100	320594	75.0	77.9	
62 n-Heptane	43	7.280	7.280	0.000	100	335961	75.0	77.8	
64 Trichloroethene	130	7.669	7.669	0.000	100	242252	75.0	76.9	
66 Methylcyclohexane	83	7.864	7.864	0.000	100	446628	75.0	79.5	
67 1,2-Dichloropropane	63	7.906	7.906	0.000	100	238331	75.0	76.7	
68 Dibromomethane	93	8.022	8.022	0.000	100	130496	75.0	78.0	
70 1,4-Dioxane	88	8.058	8.058	0.000	100	50907	1500.0	1555.1	
71 Dichlorobromomethane	83	8.198	8.198	0.000	100	259871	75.0	76.1	
74 cis-1,3-Dichloropropene	75	8.661	8.661	0.000	100	247138	75.0	75.0	
75 4-Methyl-2-pentanone (MIBK)	43	8.825	8.825	0.000	100	531084	150.0	156.8	
76 Toluene	91	8.989	8.989	0.000	100	1017198	75.0	79.3	
77 trans-1,3-Dichloropropene	75	9.220	9.220	0.000	100	167274	75.0	72.2	
78 Ethyl methacrylate	69	9.318	9.318	0.000	100	221852	75.0	73.4	
79 1,1,2-Trichloroethane	97	9.403	9.403	0.000	100	183907	75.0	76.5	
80 Tetrachloroethene	164	9.537	9.537	0.000	100	194422	75.0	77.5	
81 1,3-Dichloropropane	76	9.561	9.561	0.000	100	342719	75.0	76.7	
82 2-Hexanone	43	9.658	9.658	0.000	100	402386	150.0	155.5	
84 Chlorodibromomethane	129	9.792	9.792	0.000	100	145315	75.0	75.7	
85 Ethylene Dibromide	107	9.902	9.902	0.000	100	179814	75.0	78.4	
86 3-Chlorobenzotrifluoride	180	10.370	10.370	0.000	100	388132	75.0	79.3	
87 Chlorobenzene	112	10.388	10.388	0.000	100	622968	75.0	76.7	
88 4-Chlorobenzotrifluoride	180	10.431	10.431	0.000	100	368570	75.0	77.9	
89 1,1,1,2-Tetrachloroethane	131	10.473	10.473	0.000	100	159225	75.0	75.9	
90 Ethylbenzene	106	10.504	10.504	0.000	100	366398	75.0	78.6	
91 m-Xylene & p-Xylene	106	10.619	10.619	0.000	100	454933	75.0	79.8	
92 o-Xylene	106	11.009	11.009	0.000	100	436586	75.0	78.3	
93 Styrene	104	11.027	11.027	0.000	100	712222	75.0	79.2	
94 Bromoform	173	11.209	11.209	0.000	100	90522	75.0	76.3	
96 2-Chlorobenzotrifluoride	180	11.276	11.276	0.000	100	386985	75.0	79.2	
97 Isopropylbenzene	105	11.380	11.380	0.000	100	1137215	75.0	81.7	
99 1,1,2,2-Tetrachloroethane	83	11.678	11.678	0.000	100	264462	75.0	76.7	
100 Bromobenzene	156	11.678	11.678	0.000	100	253502	75.0	74.9	
101 1,2,3-Trichloropropane	110	11.721	11.721	0.000	100	81225	75.0	73.0	
102 trans-1,4-Dichloro-2-buten	53	11.733	11.733	0.000	100	66879	75.0	72.3	
103 N-Propylbenzene	120	11.787	11.787	0.000	100	316980	75.0	75.9	
104 2-Chlorotoluene	126	11.873	11.873	0.000	100	262207	75.0	74.7	
105 3-Chlorotoluene	126	11.933	11.933	0.000	100	291288	75.0	74.3	

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	11.964	0.000	100	921783	75.0	79.2	
107 4-Chlorotoluene	126	11.982	11.982	0.000	100	296950	75.0	78.2	
108 tert-Butylbenzene	119	12.286	12.286	0.000	100	794422	75.0	78.8	
110 1,2,4-Trimethylbenzene	105	12.335	12.335	0.000	100	951216	75.0	79.6	
111 1,2-dichloro-4-(trifluorom	214	12.402	12.402	0.000	100	303120	75.0	80.3	
112 sec-Butylbenzene	105	12.511	12.511	0.000	100	1138120	75.0	80.2	
113 1,3-Dichlorobenzene	146	12.621	12.621	0.000	100	480001	75.0	77.0	
114 4-Isopropyltoluene	119	12.651	12.651	0.000	100	948139	75.0	80.9	
115 1,4-Dichlorobenzene	146	12.706	12.706	0.000	100	484138	75.0	76.0	
116 2,4-Dichloro-1-(trifluorom	214	12.755	12.755	0.000	100	289446	75.0	81.8	
118 2,5-Dichlorobenzotrifluori	214	12.803	12.803	0.000	100	309155	75.0	78.1	
120 n-Butylbenzene	91	13.065	13.065	0.000	100	861784	75.0	80.7	
121 1,2-Dichlorobenzene	146	13.083	13.083	0.000	100	440732	75.0	76.3	
122 1,2-Dibromo-3-Chloropropan	75	13.856	13.856	0.000	100	36318	75.0	76.9	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.008	14.008	0.000	100	1058653	225.0	242.5	
125 2,3- & 3,4- Dichlorotoluen	125	14.428	14.428	0.000	100	694253	150.0	163.5	
126 1,2,4-Trichlorobenzene	180	14.695	14.695	0.000	100	240861	75.0	80.1	
127 Hexachlorobutadiene	225	14.866	14.866	0.000	100	112236	75.0	77.9	
128 Naphthalene	128	14.939	14.939	0.000	100	657935	75.0	83.4	
129 1,2,3-Trichlorobenzene	180	15.188	15.188	0.000	100	200345	75.0	81.3	
131 2,4,5-Trichlorotoluene	159	15.967	15.967	0.000	100	108037	75.0	81.5	
130 2,3,6-Trichlorotoluene	159	16.064	16.064	0.000	100	98974	75.0	82.7	
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		150.0	158.1	
S 134 1,2-Dichloroethene, Total	96				0		150.0	157.3	
S 135 1,3-Dichloropropene, Total	1				0		150.0	147.2	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOAACRPRI_00003	Amount Added: 7.00	Units: uL	
voaWEEpri Res_00003	Amount Added: 3.00	Units: uL	
voaWKetpri Re_00003	Amount Added: 3.00	Units: uL	
VOA8260SURR_00032	Amount Added: 3.00	Units: uL	
VOA8260VOAPRI_00105	Amount Added: 3.00	Units: uL	
VOAVAPRI_00005	Amount Added: 3.00	Units: uL	
VOA8260INT_00030	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316006.D

Injection Date: 16-Mar-2015 13:29:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: IC VSTD15

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

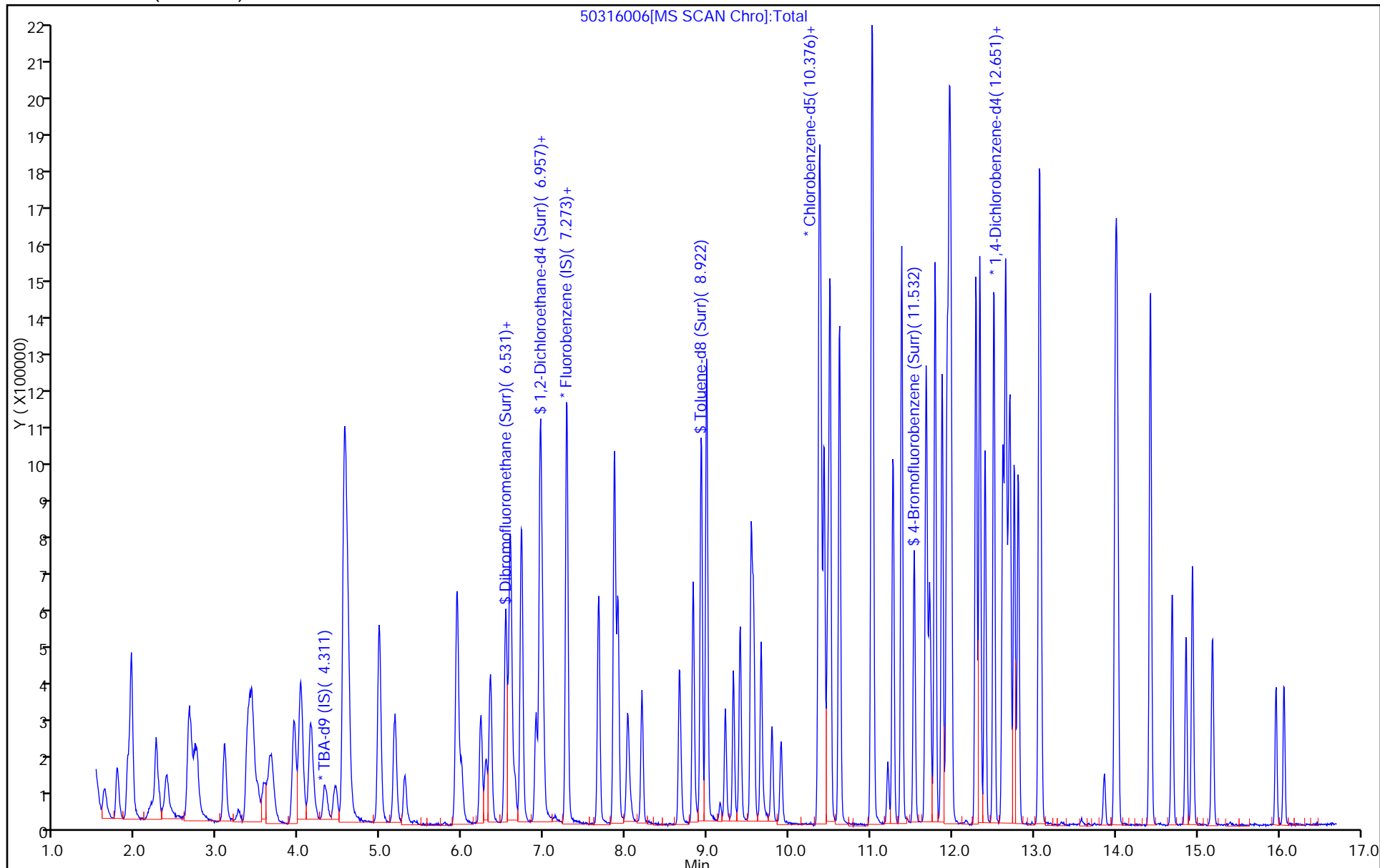
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



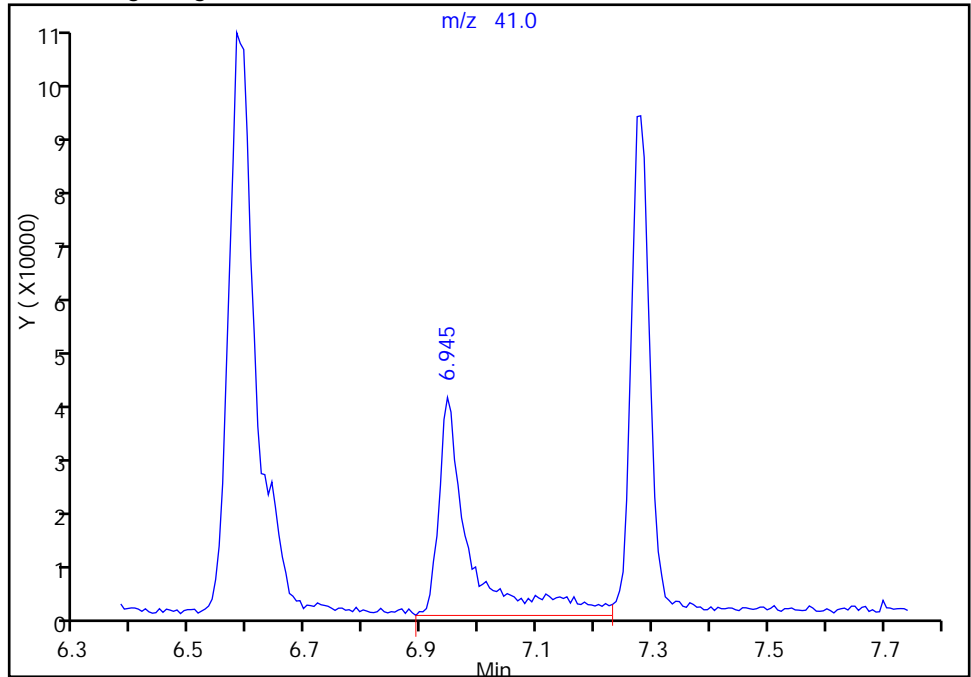
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316006.D
Injection Date: 16-Mar-2015 13:29:30 Instrument ID: CHHP5
Lims ID: IC VSTD15
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

57 Isobutyl alcohol, CAS: 78-83-1

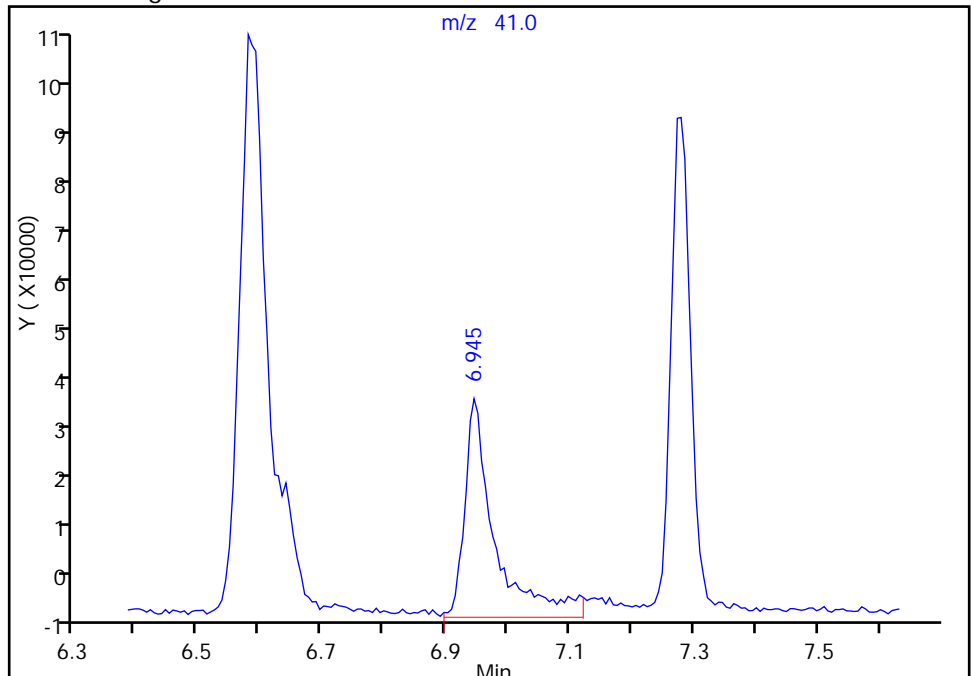
RT: 6.94
Area: 150922
Amount: 2067.3126
Amount Units: ng

Processing Integration Results



RT: 6.94
Area: 137203
Amount: 1937.8985
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 17-Mar-2015 09:45:06
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316007.D
 Lims ID: IC VSTD20
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 16-Mar-2015 13:53:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD20
 Misc. Info.: 180-0006031-007
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub4
 Method: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 17-Mar-2015 10:59:28 Calib Date: 16-Mar-2015 16:17:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: fergusond

Date: 17-Mar-2015 09:48:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.326	4.305	0.021	86	154462	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.270	7.273	-0.003	99	558174	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.367	10.364	0.003	99	128898	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.685	12.682	0.003	99	188542	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.528	6.525	0.003	99	248750	100.0	98.0	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.899	6.902	-0.003	97	335757	100.0	100.3	
\$ 7 Toluene-d8 (Surr)	98	8.919	8.922	-0.003	100	1053927	100.0	102.6	
\$ 8 4-Bromofluorobenzene (Surr	95	11.529	11.532	-0.003	98	379740	100.0	102.6	
11 Dichlorodifluoromethane	85	1.619	1.622	-0.003	98	243823	100.0	101.9	
12 Chloromethane	50	1.777	1.768	0.009	100	316915	100.0	96.0	
13 Vinyl chloride	62	1.905	1.896	0.009	100	370271	100.0	100.3	
14 Butadiene	39	1.947	1.944	0.003	100	415323	100.0	98.5	
15 Bromomethane	94	2.251	2.249	0.002	99	192846	100.0	101.0	
16 Chloroethane	64	2.373	2.376	-0.003	99	245673	100.0	96.2	
17 Dichlorofluoromethane	67	2.653	2.644	0.009	100	548270	100.0	94.0	
18 Trichlorofluoromethane	101	2.702	2.723	-0.021	98	437688	100.0	98.9	
20 Ethyl ether	59	3.085	3.082	0.003	100	293889	100.0	100.7	
21 Acrolein	56	3.261	3.258	0.003	99	71073	200.0	200.4	
22 1,1-Dichloroethene	96	3.377	3.374	0.003	98	318457	100.0	98.9	
23 1,1,2-Trichloro-1,2,2-trif	101	3.432	3.423	0.009	98	319162	100.0	98.0	
24 Acetone	43	3.492	3.496	-0.004	100	217095	200.0	189.9	
25 Iodomethane	142	3.596	3.581	0.015	99	439512	100.0	98.3	
26 Carbon disulfide	76	3.669	3.660	0.009	100	772081	100.0	98.1	
28 3-Chloro-1-propene	76	3.930	3.934	-0.004	99	163875	100.0	96.3	
30 Methyl acetate	43	4.022	4.019	0.003	100	1321970	500.0	494.2	
31 Methylene Chloride	84	4.143	4.147	-0.004	98	345226	100.0	92.7	
32 2-Methyl-2-propanol	59	4.435	4.439	-0.004	99	175500	1000.0	964.6	
33 Acrylonitrile	53	4.551	4.554	-0.003	100	1363975	1000.0	991.2	
34 trans-1,2-Dichloroethene	96	4.557	4.560	-0.003	95	327278	100.0	98.3	
35 Methyl tert-butyl ether	73	4.594	4.597	-0.003	99	727030	100.0	98.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.983	4.980	0.003	99	514868	100.0	96.8	
37 1,1-Dichloroethane	63	5.171	5.175	-0.004	100	595324	100.0	100.2	
38 Vinyl acetate	43	5.293	5.296	-0.003	100	419086	100.0	99.4	
44 2,2-Dichloropropane	77	5.926	5.929	-0.003	98	147216	100.0	99.1	
45 cis-1,2-Dichloroethene	96	5.938	5.941	-0.003	98	349805	100.0	99.7	
46 2-Butanone (MEK)	43	5.987	5.990	-0.003	100	371447	200.0	203.2	
49 Chlorobromomethane	128	6.230	6.227	0.003	98	150204	100.0	99.0	
51 Tetrahydrofuran	42	6.285	6.282	0.003	99	224920	200.0	196.4	
52 Chloroform	83	6.346	6.343	0.003	100	534362	100.0	99.0	
53 1,1,1-Trichloroethane	97	6.528	6.531	-0.003	99	344772	100.0	100.0	
54 Cyclohexane	56	6.589	6.586	0.003	99	649387	100.0	98.1	
56 Carbon tetrachloride	117	6.717	6.720	-0.003	98	274328	100.0	99.2	
55 1,1-Dichloropropene	75	6.723	6.726	-0.003	98	436454	100.0	97.5	
57 Isobutyl alcohol	41	6.942	6.945	-0.003	98	174166	2500.0	2337.7	M
58 Benzene	78	6.954	6.957	-0.003	99	1312435	100.0	99.2	
59 1,2-Dichloroethane	62	6.984	6.988	-0.004	99	429724	100.0	99.2	
62 n-Heptane	43	7.276	7.280	-0.004	99	443357	100.0	97.6	
64 Trichloroethene	130	7.666	7.669	-0.003	99	326599	100.0	98.5	
66 Methylcyclohexane	83	7.860	7.864	-0.004	100	583894	100.0	98.7	
67 1,2-Dichloropropane	63	7.903	7.906	-0.003	99	332279	100.0	101.6	
68 Dibromomethane	93	8.025	8.022	0.003	99	178905	100.0	101.6	
70 1,4-Dioxane	88	8.055	8.058	-0.003	99	66490	2000.0	1930.1	
71 Dichlorobromomethane	83	8.195	8.198	-0.003	98	363842	100.0	101.2	
74 cis-1,3-Dichloropropene	75	8.657	8.661	-0.004	99	345528	100.0	99.6	
75 4-Methyl-2-pentanone (MIBK)	43	8.822	8.825	-0.003	100	747218	200.0	214.2	
76 Toluene	91	8.992	8.989	0.003	100	1340817	100.0	101.5	
77 trans-1,3-Dichloropropene	75	9.217	9.220	-0.003	99	244258	100.0	102.4	
78 Ethyl methacrylate	69	9.314	9.318	-0.004	97	334858	100.0	107.6	
79 1,1,2-Trichloroethane	97	9.399	9.403	-0.004	99	252461	100.0	101.9	
80 Tetrachloroethene	164	9.539	9.537	0.002	99	261148	100.0	101.1	
81 1,3-Dichloropropane	76	9.564	9.561	0.003	100	467174	100.0	101.5	
82 2-Hexanone	43	9.655	9.658	-0.003	100	541680	200.0	203.2	
84 Chlorodibromomethane	129	9.789	9.792	-0.003	99	210013	100.0	106.2	
85 Ethylene Dibromide	107	9.898	9.902	-0.004	100	245946	100.0	104.0	
86 3-Chlorobenzotrifluoride	180	10.373	10.370	0.003	97	511845	100.0	101.6	
87 Chlorobenzene	112	10.391	10.388	0.003	100	845046	100.0	101.0	
88 4-Chlorobenzotrifluoride	180	10.428	10.431	-0.003	99	511237	100.0	104.9	
89 1,1,1,2-Tetrachloroethane	131	10.476	10.473	0.003	95	233228	100.0	107.9	
90 Ethylbenzene	106	10.501	10.504	-0.003	100	488611	100.0	101.8	
91 m-Xylene & p-Xylene	106	10.616	10.619	-0.003	100	592135	100.0	100.8	
92 o-Xylene	106	11.012	11.009	0.003	100	585609	100.0	101.9	
93 Styrene	104	11.024	11.027	-0.003	95	966850	100.0	104.4	
94 Bromoform	173	11.212	11.209	0.003	98	126605	100.0	103.7	
96 2-Chlorobenzotrifluoride	180	11.273	11.276	-0.003	99	521379	100.0	103.6	
97 Isopropylbenzene	105	11.377	11.380	-0.003	100	1474178	100.0	102.8	
99 1,1,2,2-Tetrachloroethane	83	11.675	11.678	-0.003	98	351798	100.0	99.0	
100 Bromobenzene	156	11.681	11.678	0.003	99	346996	100.0	99.4	
101 1,2,3-Trichloropropane	110	11.717	11.721	-0.003	97	111668	100.0	97.4	
102 trans-1,4-Dichloro-2-buten	53	11.729	11.733	-0.004	97	92761	100.0	97.3	
103 N-Propylbenzene	120	11.784	11.787	-0.003	100	419888	100.0	97.5	
104 2-Chlorotoluene	126	11.875	11.873	0.002	100	351403	100.0	97.2	
105 3-Chlorotoluene	126	11.936	11.933	0.003	98	415463	100.0	102.8	

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	11.961	11.964	-0.003	100	1188743	100.0	99.0	
107 4-Chlorotoluene	126	11.985	11.982	0.003	97	377870	100.0	96.5	
108 tert-Butylbenzene	119	12.289	12.286	0.003	99	1020106	100.0	98.1	
110 1,2,4-Trimethylbenzene	105	12.338	12.335	0.003	100	1214438	100.0	98.6	
111 1,2-dichloro-4-(trifluorom	214	12.399	12.402	-0.003	100	396211	100.0	101.8	
112 sec-Butylbenzene	105	12.508	12.511	-0.003	100	1462842	100.0	99.9	
113 1,3-Dichlorobenzene	146	12.618	12.621	-0.003	99	630675	100.0	98.1	
114 4-Isopropyltoluene	119	12.648	12.651	-0.003	100	1195021	100.0	98.9	
115 1,4-Dichlorobenzene	146	12.709	12.706	0.003	99	642365	100.0	97.8	
116 2,4-Dichloro-1-(trifluorom	214	12.758	12.755	0.003	98	358539	100.0	98.3	
118 2,5-Dichlorobenzotrifluori	214	12.806	12.803	0.003	99	406971	100.0	99.8	
120 n-Butylbenzene	91	13.062	13.065	-0.003	100	1093564	100.0	99.4	
121 1,2-Dichlorobenzene	146	13.080	13.083	-0.003	99	595901	100.0	100.1	
122 1,2-Dibromo-3-Chloropropan	75	13.859	13.856	0.003	95	47067	100.0	96.6	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.005	14.008	-0.003	100	1333690	300.0	296.3	
125 2,3- & 3,4- Dichlorotoluen	125	14.424	14.428	-0.004	100	866884	200.0	198.1	
126 1,2,4-Trichlorobenzene	180	14.692	14.695	-0.003	99	295444	100.0	95.3	
127 Hexachlorobutadiene	225	14.862	14.866	-0.004	98	140410	100.0	94.5	
128 Naphthalene	128	14.942	14.939	0.003	100	789643	100.0	97.0	
129 1,2,3-Trichlorobenzene	180	15.185	15.188	-0.003	98	242534	100.0	95.4	
131 2,4,5-Trichlorotoluene	159	15.964	15.967	-0.003	98	123791	100.0	90.6	
130 2,3,6-Trichlorotoluene	159	16.061	16.064	-0.003	98	110702	100.0	89.7	
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		200.0	202.8	
S 134 1,2-Dichloroethene, Total	96				0		200.0	198.0	
S 135 1,3-Dichloropropene, Total	1				0		200.0	202.0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOAVAPRI_00005	Amount Added: 4.00	Units: uL	
VOA8260VOAPRI_00105	Amount Added: 4.00	Units: uL	
VOA8260SURR_00032	Amount Added: 4.00	Units: uL	
voaWEEpri Res_00003	Amount Added: 4.00	Units: uL	
voaWKetpri Re_00003	Amount Added: 4.00	Units: uL	
VOAACRPRI_00003	Amount Added: 8.00	Units: uL	
VOA8260INT_00030	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316007.D

Injection Date: 16-Mar-2015 13:53:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: IC VSTD20

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

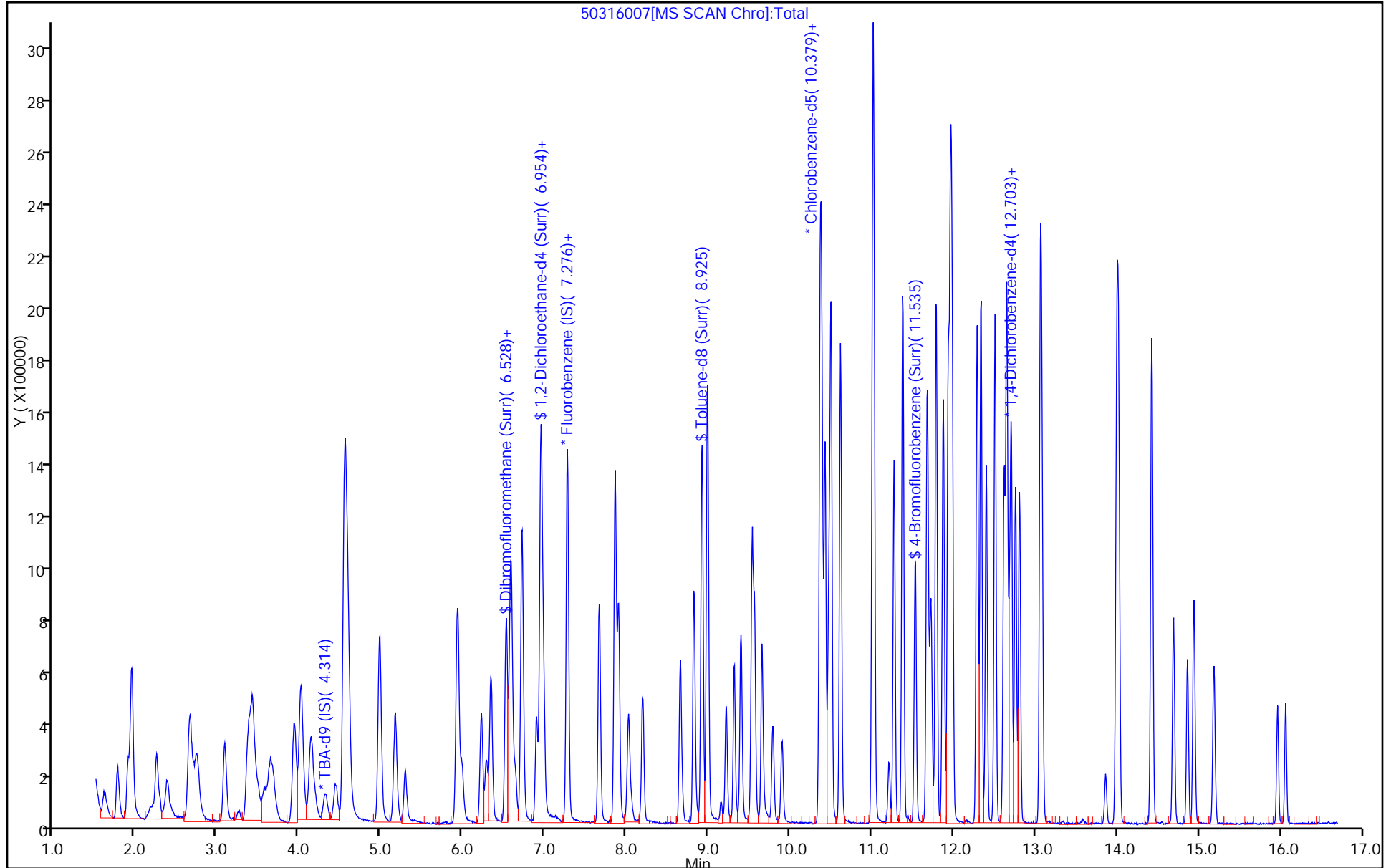
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



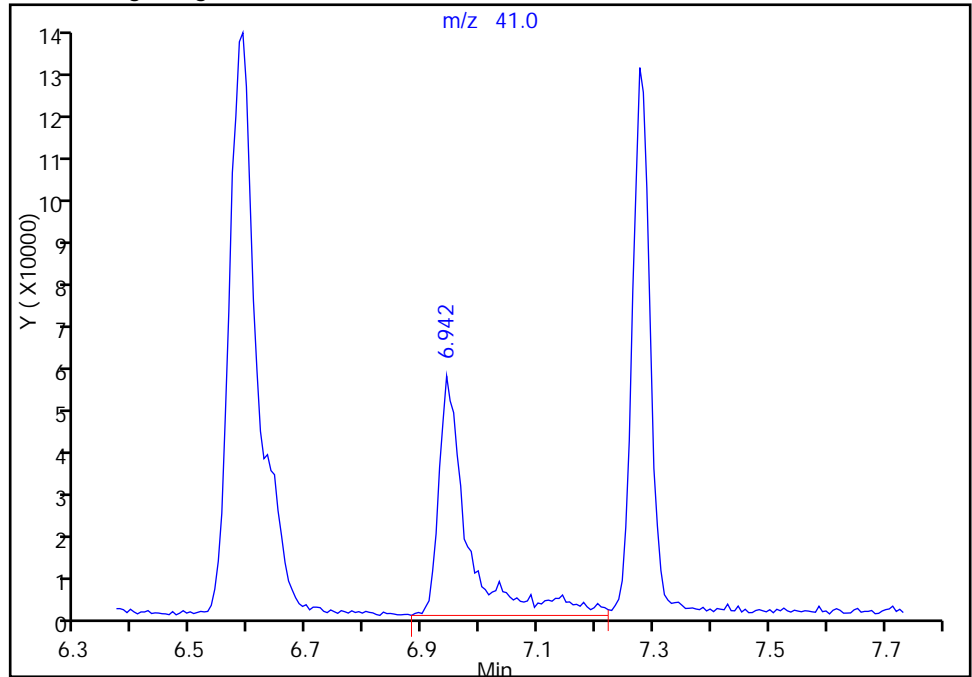
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316007.D
Injection Date: 16-Mar-2015 13:53:30 Instrument ID: CHHP5
Lims ID: IC VSTD20
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

57 Isobutyl alcohol, CAS: 78-83-1

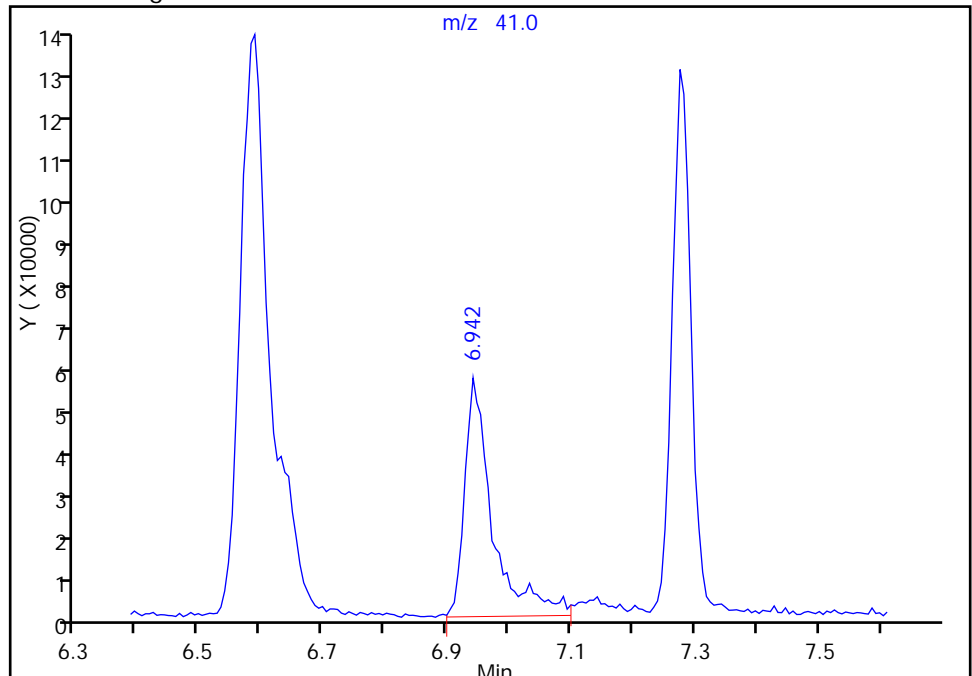
RT: 6.94
Area: 197796
Amount: 2559.7908
Amount Units: ng

Processing Integration Results



RT: 6.94
Area: 174166
Amount: 2337.6542
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 17-Mar-2015 09:48:25
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316008.D
 Lims ID: IC VSTD35
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 16-Mar-2015 14:17:30 ALS Bottle#: 8 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD35
 Misc. Info.: 180-0006031-008
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub4
 Method: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 17-Mar-2015 10:59:29 Calib Date: 16-Mar-2015 16:17:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: fergusond

Date: 17-Mar-2015 09:49:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.309	4.305	0.004	95	172412	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.271	7.273	-0.002	99	562344	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.362	10.364	-0.002	92	147916	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.686	12.682	0.004	95	201448	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.529	6.525	0.004	99	435320	175.0	170.2	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.900	6.902	-0.002	98	589491	175.0	174.8	
\$ 7 Toluene-d8 (Surr)	98	8.920	8.922	-0.002	99	1858068	175.0	157.6	
\$ 8 4-Bromofluorobenzene (Surr	95	11.530	11.532	-0.002	98	701915	175.0	165.3	
11 Dichlorodifluoromethane	85	1.614	1.622	-0.008	99	432190	175.0	179.3	
12 Chloromethane	50	1.772	1.768	0.004	100	573343	175.0	172.3	
13 Vinyl chloride	62	1.906	1.896	0.010	100	624000	175.0	167.8	
14 Butadiene	39	1.948	1.944	0.004	99	709784	175.0	167.1	
15 Bromomethane	94	2.252	2.249	0.003	100	307964	175.0	162.9	
16 Chloroethane	64	2.380	2.376	0.004	98	455903	175.0	177.2	
17 Dichlorofluoromethane	67	2.648	2.644	0.004	100	974888	175.0	166.0	
18 Trichlorofluoromethane	101	2.703	2.723	-0.020	98	772293	175.0	173.1	
20 Ethyl ether	59	3.086	3.082	0.004	99	519119	175.0	176.5	
21 Acrolein	56	3.250	3.258	-0.008	100	81646	225.0	228.5	
22 1,1-Dichloroethene	96	3.372	3.374	-0.002	98	562804	175.0	173.6	
23 1,1,2-Trichloro-1,2,2-trif	101	3.427	3.423	0.004	98	577719	175.0	176.1	
24 Acetone	43	3.493	3.496	-0.003	100	429781	350.0	373.1	
25 Iodomethane	142	3.573	3.581	-0.008	100	784350	175.0	174.1	
26 Carbon disulfide	76	3.652	3.660	-0.008	100	1381152	175.0	174.2	
28 3-Chloro-1-propene	76	3.931	3.934	-0.003	100	314052	175.0	183.2	
30 Methyl acetate	43	4.017	4.019	-0.002	100	2407305	875.0	893.2	
31 Methylene Chloride	84	4.138	4.147	-0.009	97	597904	175.0	159.4	
32 2-Methyl-2-propanol	59	4.442	4.439	0.003	99	351016	1750.0	1728.4	
33 Acrylonitrile	53	4.546	4.554	-0.008	99	2446379	1750.0	1764.6	
34 trans-1,2-Dichloroethene	96	4.558	4.560	-0.002	92	581552	175.0	173.4	
35 Methyl tert-butyl ether	73	4.595	4.597	-0.002	98	1347848	175.0	181.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.978	4.980	-0.002	99	929791	175.0	173.5	
37 1,1-Dichloroethane	63	5.166	5.175	-0.009	100	1052201	175.0	175.7	
38 Vinyl acetate	43	5.294	5.296	-0.002	100	831670	175.0	195.8	
44 2,2-Dichloropropane	77	5.927	5.929	-0.002	98	280515	175.0	187.4	
45 cis-1,2-Dichloroethene	96	5.933	5.941	-0.008	98	612812	175.0	173.4	
46 2-Butanone (MEK)	43	5.982	5.990	-0.008	100	665013	350.0	361.1	
49 Chlorobromomethane	128	6.225	6.227	-0.002	99	269375	175.0	176.2	
51 Tetrahydrofuran	42	6.286	6.282	0.004	100	415944	350.0	360.6	
52 Chloroform	83	6.341	6.343	-0.003	100	953676	175.0	175.3	
53 1,1,1-Trichloroethane	97	6.529	6.531	-0.002	99	639960	175.0	184.3	
54 Cyclohexane	56	6.584	6.586	-0.002	99	1161488	175.0	174.2	
56 Carbon tetrachloride	117	6.718	6.720	-0.002	100	504991	175.0	181.2	
55 1,1-Dichloropropene	75	6.724	6.726	-0.002	100	783682	175.0	173.7	
57 Isobutyl alcohol	41	6.943	6.945	-0.002	98	386141	4375.0	5144.3	
58 Benzene	78	6.955	6.957	-0.002	98	2286079	175.0	171.5	
59 1,2-Dichloroethane	62	6.985	6.988	-0.003	99	781760	175.0	179.2	
62 n-Heptane	43	7.277	7.280	-0.003	90	819785	175.0	179.1	
64 Trichloroethene	130	7.667	7.669	-0.002	99	586010	175.0	175.5	
66 Methylcyclohexane	83	7.861	7.864	-0.003	100	1055175	175.0	177.1	
67 1,2-Dichloropropane	63	7.904	7.906	-0.002	98	597514	175.0	181.3	
68 Dibromomethane	93	8.026	8.022	0.004	100	308441	175.0	173.8	
70 1,4-Dioxane	88	8.056	8.058	-0.002	97	132396	3500.0	3814.7	
71 Dichlorobromomethane	83	8.196	8.198	-0.002	100	663337	175.0	183.2	
74 cis-1,3-Dichloropropene	75	8.658	8.661	-0.003	100	681682	175.0	195.1	
75 4-Methyl-2-pentanone (MIBK)	43	8.823	8.825	-0.002	99	1390980	350.0	347.5	
76 Toluene	91	8.993	8.989	0.004	99	2347437	175.0	154.9	
77 trans-1,3-Dichloropropene	75	9.218	9.220	-0.002	98	502980	175.0	183.7	
78 Ethyl methacrylate	69	9.315	9.318	-0.003	98	654210	175.0	183.2	
79 1,1,2-Trichloroethane	97	9.400	9.403	-0.003	100	465584	175.0	163.8	
80 Tetrachloroethene	164	9.534	9.537	-0.003	99	477004	175.0	160.9	
81 1,3-Dichloropropane	76	9.565	9.561	0.004	99	854593	175.0	161.7	
82 2-Hexanone	43	9.656	9.658	-0.002	100	1103034	350.0	360.6	
84 Chlorodibromomethane	129	9.790	9.792	-0.002	99	406960	175.0	179.4	
85 Ethylene Dibromide	107	9.899	9.902	-0.003	99	461219	175.0	170.0	
86 3-Chlorobenzotrifluoride	180	10.374	10.370	0.004	87	925933	175.0	160.1	
87 Chlorobenzene	112	10.392	10.388	0.004	99	1507544	175.0	157.0	
88 4-Chlorobenzotrifluoride	180	10.429	10.431	-0.002	99	908777	175.0	162.5	
89 1,1,1,2-Tetrachloroethane	131	10.471	10.473	-0.002	95	439701	175.0	177.3	
90 Ethylbenzene	106	10.502	10.504	-0.002	99	889389	175.0	161.4	
91 m-Xylene & p-Xylene	106	10.617	10.619	-0.002	99	1092005	175.0	162.0	
92 o-Xylene	106	11.013	11.009	0.004	98	1059986	175.0	160.8	
93 Styrene	104	11.025	11.027	-0.002	93	1723778	175.0	162.3	
94 Bromoform	173	11.213	11.209	0.004	99	253560	175.0	180.9	
96 2-Chlorobenzotrifluoride	180	11.274	11.276	-0.002	99	922108	175.0	159.7	
97 Isopropylbenzene	105	11.378	11.380	-0.002	98	2580136	175.0	156.9	
99 1,1,2,2-Tetrachloroethane	83	11.676	11.678	-0.002	99	681581	175.0	167.2	
100 Bromobenzene	156	11.682	11.678	0.004	98	637569	175.0	171.0	
101 1,2,3-Trichloropropane	110	11.718	11.721	-0.002	98	214358	175.0	174.9	
102 trans-1,4-Dichloro-2-buten	53	11.730	11.733	-0.003	98	180624	175.0	177.3	
103 N-Propylbenzene	120	11.791	11.787	0.004	99	780243	175.0	169.6	
104 2-Chlorotoluene	126	11.876	11.873	0.003	99	666866	175.0	172.6	
105 3-Chlorotoluene	126	11.937	11.933	0.004	97	757051	175.0	175.3	

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	11.964	-0.002	99	2136446	175.0	166.6	
107 4-Chlorotoluene	126	11.986	11.982	0.004	97	711885	175.0	170.2	
108 tert-Butylbenzene	119	12.290	12.286	0.004	100	1828125	175.0	164.5	
110 1,2,4-Trimethylbenzene	105	12.339	12.335	0.004	98	2187785	175.0	166.2	
111 1,2-dichloro-4-(trifluorom	214	12.400	12.402	-0.002	100	719294	175.0	172.9	
112 sec-Butylbenzene	105	12.509	12.511	-0.002	99	2565671	175.0	164.1	
113 1,3-Dichlorobenzene	146	12.619	12.621	-0.002	99	1159025	175.0	168.7	
114 4-Isopropyltoluene	119	12.655	12.651	0.004	98	2157955	175.0	167.2	
115 1,4-Dichlorobenzene	146	12.704	12.706	-0.002	99	1196958	175.0	170.6	
116 2,4-Dichloro-1-(trifluorom	214	12.759	12.755	0.004	99	675783	175.0	173.5	
118 2,5-Dichlorobenzotrifluori	214	12.807	12.803	0.004	99	748317	175.0	171.7	
120 n-Butylbenzene	91	13.063	13.065	-0.002	99	1983203	175.0	168.7	
121 1,2-Dichlorobenzene	146	13.081	13.083	-0.002	99	1092014	175.0	171.7	
122 1,2-Dibromo-3-Chloropropan	75	13.860	13.856	0.004	95	97714	175.0	187.7	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.006	14.008	-0.002	99	2487475	525.0	517.3	
125 2,3- & 3,4- Dichlorotoluen	125	14.425	14.428	-0.003	98	1639357	350.0	350.6	
126 1,2,4-Trichlorobenzene	180	14.693	14.695	-0.002	100	608110	175.0	183.6	
127 Hexachlorobutadiene	225	14.863	14.866	-0.003	98	274932	175.0	173.1	
128 Naphthalene	128	14.943	14.939	0.004	100	1599300	175.0	183.9	
129 1,2,3-Trichlorobenzene	180	15.186	15.188	-0.002	100	504504	175.0	185.8	
131 2,4,5-Trichlorotoluene	159	15.965	15.967	-0.002	99	273662	175.0	187.4	
130 2,3,6-Trichlorotoluene	159	16.062	16.064	-0.002	99	246163	175.0	186.7	
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		350.0	322.8	
S 134 1,2-Dichloroethene, Total	96				0		350.0	346.8	
S 135 1,3-Dichloropropene, Total	1				0		350.0	378.8	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOAACRPRI_00003	Amount Added: 9.00	Units: uL	
voaWEEpri Res_00003	Amount Added: 7.00	Units: uL	
voaWKetpri Re_00003	Amount Added: 7.00	Units: uL	
VOA8260SURR_00032	Amount Added: 7.00	Units: uL	
VOA8260VOAPRI_00105	Amount Added: 7.00	Units: uL	
VOAVAPRI_00005	Amount Added: 7.00	Units: uL	
VOA8260INT_00030	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316008.D

Injection Date: 16-Mar-2015 14:17:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: IC VSTD35

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

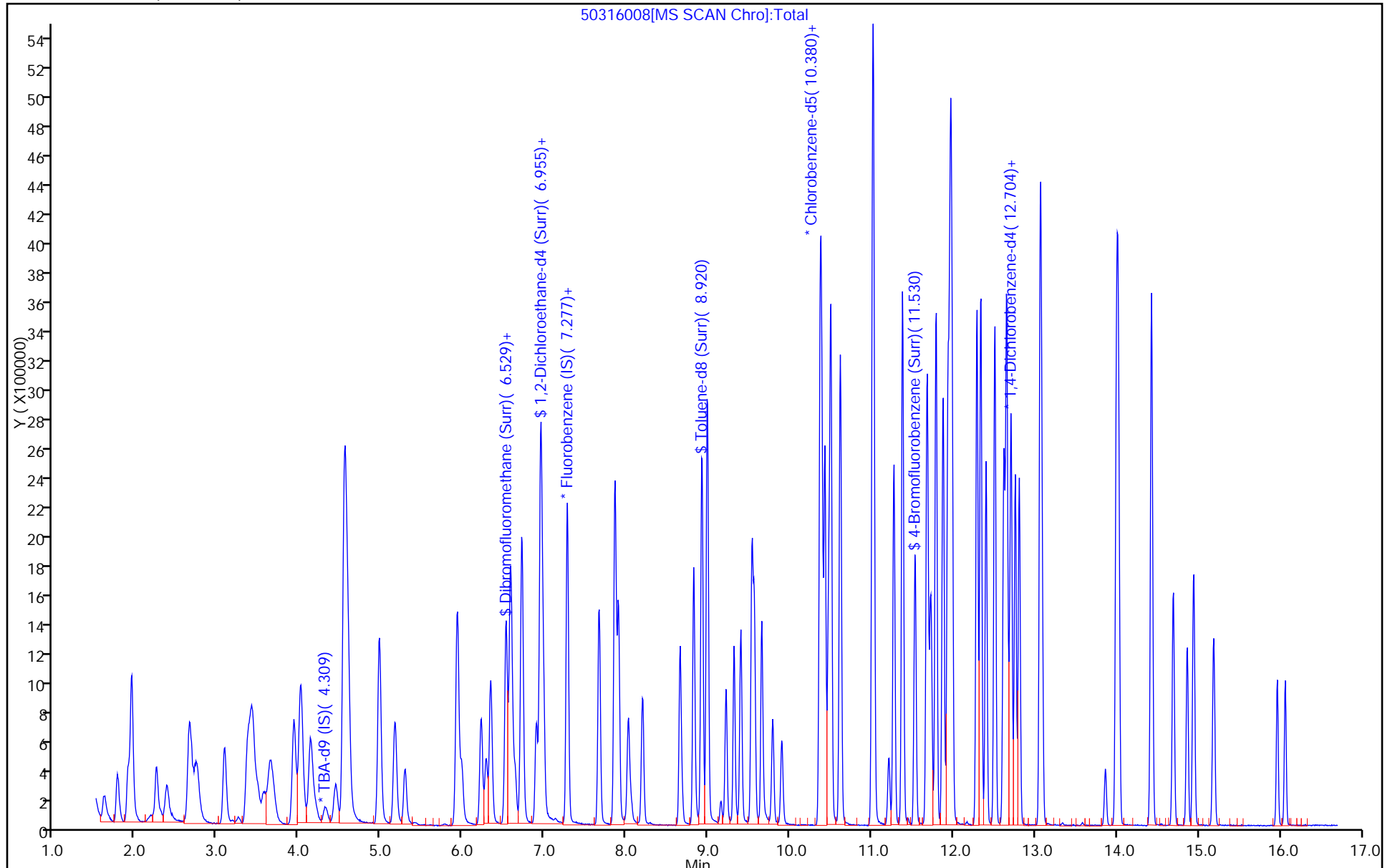
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316009.D
 Lims ID: IC VSTD40
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 16-Mar-2015 14:41:30 ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD40
 Misc. Info.: 180-0006031-009
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub4
 Method: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 17-Mar-2015 10:59:31 Calib Date: 16-Mar-2015 16:17:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: fergusond

Date: 17-Mar-2015 09:50:54

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	4.305	0.022	86	183503	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.271	7.273	-0.002	99	592746	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.368	10.364	0.004	94	147746	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.685	12.682	0.003	94	203483	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.529	6.525	0.004	99	526164	200.0	195.2	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.900	6.902	-0.002	98	691002	200.0	194.4	
\$ 7 Toluene-d8 (Surr)	98	8.926	8.922	0.004	99	2153477	200.0	182.8	
\$ 8 4-Bromofluorobenzene (Surr	95	11.529	11.532	-0.003	98	798953	200.0	188.3	
11 Dichlorodifluoromethane	85	1.619	1.622	-0.003	99	522240	200.0	205.5	
12 Chloromethane	50	1.778	1.768	0.010	100	674845	200.0	192.4	
13 Vinyl chloride	62	1.905	1.896	0.009	100	767804	200.0	195.9	
14 Butadiene	39	1.948	1.944	0.004	98	840803	200.0	187.8	
15 Bromomethane	94	2.252	2.249	0.003	100	366671	200.0	184.6	
16 Chloroethane	64	2.374	2.376	-0.002	99	530813	200.0	195.7	
17 Dichlorofluoromethane	67	2.654	2.644	0.010	99	1188936	200.0	192.0	
18 Trichlorofluoromethane	101	2.733	2.723	0.010	98	946313	200.0	201.3	
20 Ethyl ether	59	3.092	3.082	0.010	100	592652	200.0	191.1	
21 Acrolein	56	3.250	3.258	-0.008	100	95028	250.0	252.3	
22 1,1-Dichloroethene	96	3.378	3.374	0.004	98	662050	200.0	193.7	
23 1,1,2-Trichloro-1,2,2-trif	101	3.432	3.423	0.009	98	684103	200.0	197.9	
24 Acetone	43	3.505	3.496	0.009	100	489133	400.0	402.8	
25 Iodomethane	142	3.597	3.581	0.016	100	945860	200.0	199.2	
26 Carbon disulfide	76	3.664	3.660	0.004	100	1643948	200.0	196.7	
28 3-Chloro-1-propene	76	3.931	3.934	-0.003	99	393345	200.0	217.7	
30 Methyl acetate	43	4.022	4.019	0.003	99	2810332	1000.0	989.3	
31 Methylene Chloride	84	4.144	4.147	-0.003	98	703059	200.0	177.9	
32 2-Methyl-2-propanol	59	4.448	4.439	0.009	99	399281	2000.0	1847.2	
33 Acrylonitrile	53	4.552	4.554	-0.002	99	2868164	2000.0	1962.8	
34 trans-1,2-Dichloroethene	96	4.564	4.560	0.004	96	692220	200.0	195.8	
35 Methyl tert-butyl ether	73	4.600	4.597	0.003	98	1581345	200.0	202.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.978	4.980	-0.002	100	1096478	200.0	194.1	
37 1,1-Dichloroethane	63	5.172	5.175	-0.003	100	1250453	200.0	198.2	
38 Vinyl acetate	43	5.294	5.296	-0.002	100	1001771	200.0	223.8	
44 2,2-Dichloropropane	77	5.927	5.929	-0.002	98	338302	200.0	214.4	
45 cis-1,2-Dichloroethene	96	5.933	5.941	-0.008	98	721075	200.0	193.6	
46 2-Butanone (MEK)	43	5.987	5.990	-0.003	100	809232	400.0	416.8	
49 Chlorobromomethane	128	6.225	6.227	-0.002	98	311076	200.0	193.0	
51 Tetrahydrofuran	42	6.286	6.282	0.004	99	483324	400.0	397.5	
52 Chloroform	83	6.340	6.343	-0.003	100	1109416	200.0	193.5	
53 1,1,1-Trichloroethane	97	6.529	6.531	-0.002	99	768585	200.0	210.0	
54 Cyclohexane	56	6.584	6.586	-0.002	99	1366913	200.0	194.5	
56 Carbon tetrachloride	117	6.717	6.720	-0.003	99	612080	200.0	208.4	
55 1,1-Dichloropropene	75	6.724	6.726	-0.002	99	933326	200.0	196.3	
57 Isobutyl alcohol	41	6.949	6.945	0.004	98	433313	5000.0	5476.7	
58 Benzene	78	6.955	6.957	-0.002	97	2653105	200.0	188.9	
59 1,2-Dichloroethane	62	6.985	6.988	-0.003	99	907622	200.0	197.3	
62 n-Heptane	43	7.277	7.280	-0.003	88	940924	200.0	195.0	
64 Trichloroethene	130	7.666	7.669	-0.003	99	684010	200.0	194.4	
66 Methylcyclohexane	83	7.861	7.864	-0.003	100	1212427	200.0	193.1	
67 1,2-Dichloropropane	63	7.904	7.906	-0.002	98	700921	200.0	201.7	
68 Dibromomethane	93	8.025	8.022	0.003	99	370624	200.0	198.1	
70 1,4-Dioxane	88	8.062	8.058	0.004	98	146272	4000.0	3998.4	
71 Dichlorobromomethane	83	8.196	8.198	-0.002	100	773432	200.0	202.6	
74 cis-1,3-Dichloropropene	75	8.658	8.661	-0.003	99	829306	200.0	225.1	
75 4-Methyl-2-pentanone (MIBK)	43	8.822	8.825	-0.003	99	1617802	400.0	404.7	
76 Toluene	91	8.993	8.989	0.004	99	2714932	200.0	179.3	
77 trans-1,3-Dichloropropene	75	9.218	9.220	-0.002	98	613747	200.0	224.4	
78 Ethyl methacrylate	69	9.315	9.318	-0.003	98	782394	200.0	219.4	
79 1,1,2-Trichloroethane	97	9.400	9.403	-0.003	99	540864	200.0	190.5	
80 Tetrachloroethene	164	9.540	9.537	0.003	99	545517	200.0	184.2	
81 1,3-Dichloropropane	76	9.564	9.561	0.003	99	1001573	200.0	189.8	
82 2-Hexanone	43	9.656	9.658	-0.002	100	1305223	400.0	427.2	
84 Chlorodibromomethane	129	9.790	9.792	-0.002	99	473922	200.0	209.1	
85 Ethylene Dibromide	107	9.899	9.902	-0.003	100	534328	200.0	197.2	
86 3-Chlorobenzotrifluoride	180	10.374	10.370	0.004	88	1122812	200.0	194.4	
87 Chlorobenzene	112	10.392	10.388	0.004	99	1745676	200.0	182.0	
88 4-Chlorobenzotrifluoride	180	10.428	10.431	-0.003	99	1108797	200.0	198.5	
89 1,1,1,2-Tetrachloroethane	131	10.477	10.473	0.004	95	512980	200.0	207.1	
90 Ethylbenzene	106	10.501	10.504	-0.003	98	1044399	200.0	189.8	
91 m-Xylene & p-Xylene	106	10.617	10.619	-0.002	98	1256840	200.0	186.7	
92 o-Xylene	106	11.012	11.009	0.003	99	1214164	200.0	184.4	
93 Styrene	104	11.025	11.027	-0.002	97	1958961	200.0	184.6	
94 Bromoform	173	11.213	11.209	0.004	98	293938	200.0	210.0	
96 2-Chlorobenzotrifluoride	180	11.274	11.276	-0.002	99	1120386	200.0	194.2	
97 Isopropylbenzene	105	11.377	11.380	-0.003	98	2885608	200.0	175.6	
99 1,1,2,2-Tetrachloroethane	83	11.675	11.678	-0.003	98	772016	200.0	189.6	
100 Bromobenzene	156	11.682	11.678	0.004	99	740842	200.0	196.7	
101 1,2,3-Trichloropropane	110	11.718	11.721	-0.002	96	233938	200.0	189.0	
102 trans-1,4-Dichloro-2-buten	53	11.730	11.733	-0.003	98	211691	200.0	205.7	
103 N-Propylbenzene	120	11.791	11.787	0.004	98	887838	200.0	191.1	
104 2-Chlorotoluene	126	11.870	11.873	-0.003	99	756732	200.0	193.9	
105 3-Chlorotoluene	126	11.937	11.933	0.004	97	890638	200.0	204.2	

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	11.961	11.964	-0.003	99	2387945	200.0	184.4	
107 4-Chlorotoluene	126	11.980	11.982	-0.002	96	795532	200.0	188.3	
108 tert-Butylbenzene	119	12.290	12.286	0.004	99	2060731	200.0	183.6	
110 1,2,4-Trimethylbenzene	105	12.339	12.335	0.004	99	2461131	200.0	185.1	
111 1,2-dichloro-4-(trifluorom	214	12.399	12.402	-0.003	99	832435	200.0	198.1	
112 sec-Butylbenzene	105	12.509	12.511	-0.002	99	2854173	200.0	180.7	
113 1,3-Dichlorobenzene	146	12.618	12.621	-0.003	99	1308081	200.0	188.5	
114 4-Isopropyltoluene	119	12.655	12.651	0.004	98	2408127	200.0	184.7	
115 1,4-Dichlorobenzene	146	12.710	12.706	0.004	99	1348596	200.0	190.3	
116 2,4-Dichloro-1-(trifluorom	214	12.758	12.755	0.003	99	786683	200.0	199.9	
118 2,5-Dichlorobenzotrifluori	214	12.807	12.803	0.004	99	877059	200.0	199.2	
120 n-Butylbenzene	91	13.062	13.065	-0.003	98	2209671	200.0	186.1	
121 1,2-Dichlorobenzene	146	13.081	13.083	-0.002	99	1224311	200.0	190.6	
122 1,2-Dibromo-3-Chloropropan	75	13.859	13.856	0.003	94	112547	200.0	214.1	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.005	14.008	-0.003	98	2860911	600.0	589.0	
125 2,3- & 3,4- Dichlorotoluen	125	14.425	14.428	-0.003	98	1868280	400.0	395.5	
126 1,2,4-Trichlorobenzene	180	14.693	14.695	-0.002	99	679520	200.0	203.2	
127 Hexachlorobutadiene	225	14.863	14.866	-0.003	99	307470	200.0	191.7	
128 Naphthalene	128	14.942	14.939	0.003	100	1786434	200.0	203.4	
129 1,2,3-Trichlorobenzene	180	15.186	15.188	-0.002	99	582911	200.0	212.5	
131 2,4,5-Trichlorotoluene	159	15.964	15.967	-0.003	98	315499	200.0	213.9	
130 2,3,6-Trichlorotoluene	159	16.062	16.064	-0.002	98	285573	200.0	214.4	
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		400.0	371.1	
S 134 1,2-Dichloroethene, Total	96				0		400.0	389.4	
S 135 1,3-Dichloropropene, Total	1				0		400.0	449.6	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOAVAPRI_00005	Amount Added: 8.00	Units: uL	
VOA8260VOAPRI_00105	Amount Added: 8.00	Units: uL	
VOA8260SURR_00032	Amount Added: 8.00	Units: uL	
voaWEEpri Res_00003	Amount Added: 8.00	Units: uL	
voaWKetpri Re_00003	Amount Added: 8.00	Units: uL	
VOAACRPRI_00003	Amount Added: 10.00	Units: uL	
VOA8260INT_00030	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316009.D

Injection Date: 16-Mar-2015 14:41:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: IC VSTD40

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

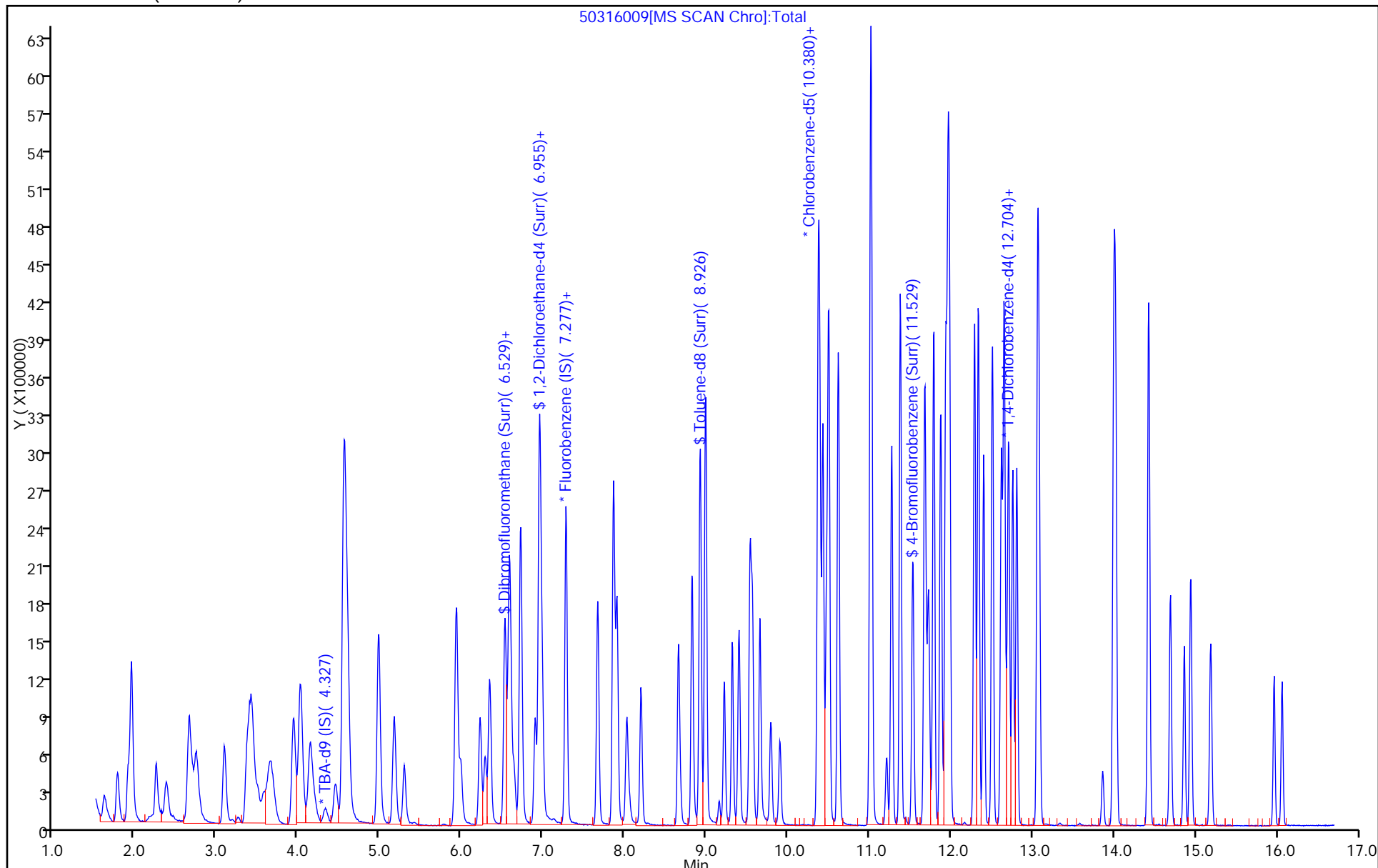
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316010.D
 Lims ID: IC VSTD50
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 16-Mar-2015 15:05:30 ALS Bottle#: 10 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD50
 Misc. Info.: 180-0006031-010
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub4
 Method: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 17-Mar-2015 10:59:32 Calib Date: 16-Mar-2015 16:17:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: fergusond

Date: 17-Mar-2015 09:55:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.336	4.305	0.031	85	202534	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.275	7.273	0.002	99	620293	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.359	10.364	-0.005	77	161503	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.683	12.682	0.001	92	212327	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.527	6.525	0.001	99	664693	250.0	235.6	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.898	6.902	-0.004	99	889045	250.0	239.0	
\$ 7 Toluene-d8 (Surr)	98	8.923	8.922	0.001	98	2632400	250.0	204.4	
\$ 8 4-Bromofluorobenzene (Surr	95	11.533	11.532	0.001	98	1045249	250.0	225.4	
11 Dichlorodifluoromethane	85	1.617	1.622	-0.005	99	640090	250.0	240.7	
12 Chloromethane	50	1.775	1.768	0.007	100	855933	250.0	233.2	
13 Vinyl chloride	62	1.909	1.896	0.013	100	924535	250.0	225.4	
14 Butadiene	39	1.946	1.944	0.002	99	1005925	250.0	214.7	
15 Bromomethane	94	2.250	2.249	0.001	100	461680	250.0	223.1	
16 Chloroethane	64	2.371	2.376	-0.005	99	700467	250.0	246.8	
17 Dichlorofluoromethane	67	2.651	2.644	0.007	100	1511714	250.0	233.3	
18 Trichlorofluoromethane	101	2.724	2.723	0.001	98	1178605	250.0	239.5	
20 Ethyl ether	59	3.083	3.082	0.001	99	792637	250.0	244.3	
21 Acrolein	56	3.254	3.258	-0.004	96	109180	275.0	277.0	
22 1,1-Dichloroethene	96	3.375	3.374	0.001	98	827120	250.0	231.2	
23 1,1,2-Trichloro-1,2,2-trif	101	3.424	3.423	0.001	99	834802	250.0	230.7	
24 Acetone	43	3.497	3.496	0.001	99	621064	500.0	488.8	
25 Iodomethane	142	3.594	3.581	0.013	100	1201056	250.0	241.7	
26 Carbon disulfide	76	3.655	3.660	-0.005	100	2031733	250.0	232.3	
28 3-Chloro-1-propene	76	3.935	3.934	0.001	99	482122	250.0	255.0	
30 Methyl acetate	43	4.014	4.019	-0.005	99	3718382	1250.0	1250.8	
31 Methylene Chloride	84	4.142	4.147	-0.005	98	919183	250.0	222.2	
32 2-Methyl-2-propanol	59	4.446	4.439	0.007	98	537174	2500.0	2251.6	
33 Acrylonitrile	53	4.549	4.554	-0.005	99	3721902	2500.0	2433.9	
34 trans-1,2-Dichloroethene	96	4.562	4.560	0.002	97	882651	250.0	238.6	
35 Methyl tert-butyl ether	73	4.598	4.597	0.001	98	2130684	250.0	260.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.975	4.980	-0.005	99	1379168	250.0	233.3	
37 1,1-Dichloroethane	63	5.170	5.175	-0.005	99	1604398	250.0	242.9	
38 Vinyl acetate	43	5.292	5.296	-0.004	100	1337263	250.0	285.5	
44 2,2-Dichloropropane	77	5.924	5.929	-0.005	97	452022	250.0	273.8	
45 cis-1,2-Dichloroethene	96	5.936	5.941	-0.005	97	930230	250.0	238.7	
46 2-Butanone (MEK)	43	5.985	5.990	-0.005	100	1059138	500.0	521.3	
49 Chlorobromomethane	128	6.222	6.227	-0.005	99	404105	250.0	239.6	
51 Tetrahydrofuran	42	6.283	6.282	0.001	99	646482	500.0	508.1	
52 Chloroform	83	6.338	6.343	-0.005	100	1424461	250.0	237.4	
53 1,1,1-Trichloroethane	97	6.527	6.531	-0.005	99	971626	250.0	253.6	
54 Cyclohexane	56	6.581	6.586	-0.005	98	1669676	250.0	227.0	
56 Carbon tetrachloride	117	6.715	6.720	-0.005	99	790495	250.0	257.2	
55 1,1-Dichloropropene	75	6.721	6.726	-0.005	99	1159811	250.0	233.1	
57 Isobutyl alcohol	41	6.946	6.945	0.001	97	644697	6250.0	7786.6	
58 Benzene	78	6.952	6.957	-0.005	97	3351151	250.0	228.0	
59 1,2-Dichloroethane	62	6.983	6.988	-0.005	99	1159879	250.0	241.0	
62 n-Heptane	43	7.275	7.280	-0.005	86	1182643	250.0	234.2	
64 Trichloroethene	130	7.664	7.669	-0.005	99	860273	250.0	233.6	
66 Methylcyclohexane	83	7.859	7.864	-0.005	99	1519674	250.0	231.3	
67 1,2-Dichloropropane	63	7.907	7.906	0.001	99	918714	250.0	252.7	
68 Dibromomethane	93	8.023	8.022	0.001	99	479407	250.0	244.9	
70 1,4-Dioxane	88	8.053	8.058	-0.005	98	185631	5000.0	4848.9	
71 Dichlorobromomethane	83	8.199	8.198	0.001	100	1003399	250.0	251.2	
74 cis-1,3-Dichloropropene	75	8.656	8.661	-0.005	99	1098242	250.0	284.9	
75 4-Methyl-2-pentanone (MIBK)	43	8.820	8.825	-0.005	98	2109966	500.0	482.8	
76 Toluene	91	8.990	8.989	0.001	97	3368812	250.0	203.5	
77 trans-1,3-Dichloropropene	75	9.221	9.220	0.001	98	846559	250.0	283.2	
78 Ethyl methacrylate	69	9.319	9.318	0.001	98	1063861	250.0	272.9	
79 1,1,2-Trichloroethane	97	9.398	9.403	-0.005	99	706748	250.0	227.7	
80 Tetrachloroethene	164	9.538	9.537	0.001	99	690601	250.0	213.3	
81 1,3-Dichloropropane	76	9.562	9.561	0.001	100	1327847	250.0	230.2	
82 2-Hexanone	43	9.653	9.658	-0.005	99	1685534	500.0	504.7	
84 Chlorodibromomethane	129	9.787	9.792	-0.005	99	625118	250.0	252.3	
85 Ethylene Dibromide	107	9.903	9.902	0.001	99	713501	250.0	240.9	
86 3-Chlorobenzotrifluoride	180	10.371	10.370	0.001	87	1303041	250.0	206.4	
87 Chlorobenzene	112	10.390	10.388	0.002	98	2249414	250.0	214.5	
88 4-Chlorobenzotrifluoride	180	10.426	10.431	-0.005	99	1250140	250.0	204.8	
89 1,1,1,2-Tetrachloroethane	131	10.475	10.473	0.002	95	680608	250.0	251.4	
90 Ethylbenzene	106	10.499	10.504	-0.005	97	1329470	250.0	221.0	
91 m-Xylene & p-Xylene	106	10.621	10.619	0.002	97	1614511	250.0	219.4	
92 o-Xylene	106	11.010	11.009	0.001	94	1557898	250.0	216.4	
93 Styrene	104	11.022	11.027	-0.005	91	2525667	250.0	217.8	
94 Bromoform	173	11.211	11.209	0.002	99	395201	250.0	258.3	
96 2-Chlorobenzotrifluoride	180	11.272	11.276	-0.004	99	1298335	250.0	205.9	
97 Isopropylbenzene	105	11.381	11.380	0.001	97	3554151	250.0	197.9	
99 1,1,2,2-Tetrachloroethane	83	11.673	11.678	-0.005	98	1003707	250.0	225.5	
100 Bromobenzene	156	11.685	11.678	0.007	99	956763	250.0	243.5	
101 1,2,3-Trichloropropane	110	11.716	11.721	-0.004	97	325768	250.0	252.3	
102 trans-1,4-Dichloro-2-buten	53	11.728	11.733	-0.005	98	286166	250.0	266.5	
103 N-Propylbenzene	120	11.789	11.787	0.002	97	1131297	250.0	233.4	
104 2-Chlorotoluene	126	11.874	11.873	0.001	97	963573	250.0	236.6	
105 3-Chlorotoluene	126	11.935	11.933	0.002	96	1053875	250.0	231.5	

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	11.965	11.964	0.001	98	2983647	250.0	220.7	
107 4-Chlorotoluene	126	11.983	11.982	0.001	97	1062581	250.0	241.0	
108 tert-Butylbenzene	119	12.288	12.286	0.002	98	2516209	250.0	214.9	
110 1,2,4-Trimethylbenzene	105	12.336	12.335	0.001	97	3068942	250.0	221.2	
111 1,2-dichloro-4-(trifluorom	214	12.403	12.402	0.001	99	991010	250.0	226.1	
112 sec-Butylbenzene	105	12.507	12.511	-0.004	98	3463106	250.0	210.1	
113 1,3-Dichlorobenzene	146	12.616	12.621	-0.005	98	1687649	250.0	233.1	
114 4-Isopropyltoluene	119	12.653	12.651	0.002	97	2970922	250.0	218.3	
115 1,4-Dichlorobenzene	146	12.707	12.706	0.001	98	1736319	250.0	234.8	
116 2,4-Dichloro-1-(trifluorom	214	12.756	12.755	0.001	98	909481	250.0	221.5	
118 2,5-Dichlorobenzotrifluori	214	12.811	12.803	0.008	99	1042359	250.0	226.9	
120 n-Butylbenzene	91	13.060	13.065	-0.005	97	2715831	250.0	219.2	
121 1,2-Dichlorobenzene	146	13.078	13.083	-0.005	99	1565775	250.0	233.6	
122 1,2-Dibromo-3-Chloropropan	75	13.863	13.856	0.007	94	147059	250.0	268.1	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.003	14.008	-0.005	98	3379751	750.0	666.8	
125 2,3- & 3,4- Dichlorotoluen	125	14.423	14.428	-0.005	97	2218229	500.0	450.0	
126 1,2,4-Trichlorobenzene	180	14.691	14.695	-0.004	99	825772	250.0	236.6	
127 Hexachlorobutadiene	225	14.861	14.866	-0.005	99	367792	250.0	219.8	
128 Naphthalene	128	14.940	14.939	0.001	99	2220927	250.0	242.4	
129 1,2,3-Trichlorobenzene	180	15.189	15.188	0.001	99	697862	250.0	243.8	
131 2,4,5-Trichlorotoluene	159	15.962	15.967	-0.005	99	364223	250.0	236.6	
130 2,3,6-Trichlorotoluene	159	16.065	16.064	0.001	98	323920	250.0	233.1	
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		500.0	435.9	
S 134 1,2-Dichloroethene, Total	96				0		500.0	477.2	
S 135 1,3-Dichloropropene, Total	1				0		500.0	568.1	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOAACRPRI_00003	Amount Added: 11.00	Units: uL	
voaWEEpri Res_00003	Amount Added: 10.00	Units: uL	
voaWKetpri Re_00003	Amount Added: 10.00	Units: uL	
VOA8260SURRE_00032	Amount Added: 10.00	Units: uL	
VOA8260VOAPRI_00105	Amount Added: 10.00	Units: uL	
VOAVAPRI_00005	Amount Added: 10.00	Units: uL	
VOA8260INT_00030	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316010.D

Injection Date: 16-Mar-2015 15:05:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: IC VSTD50

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

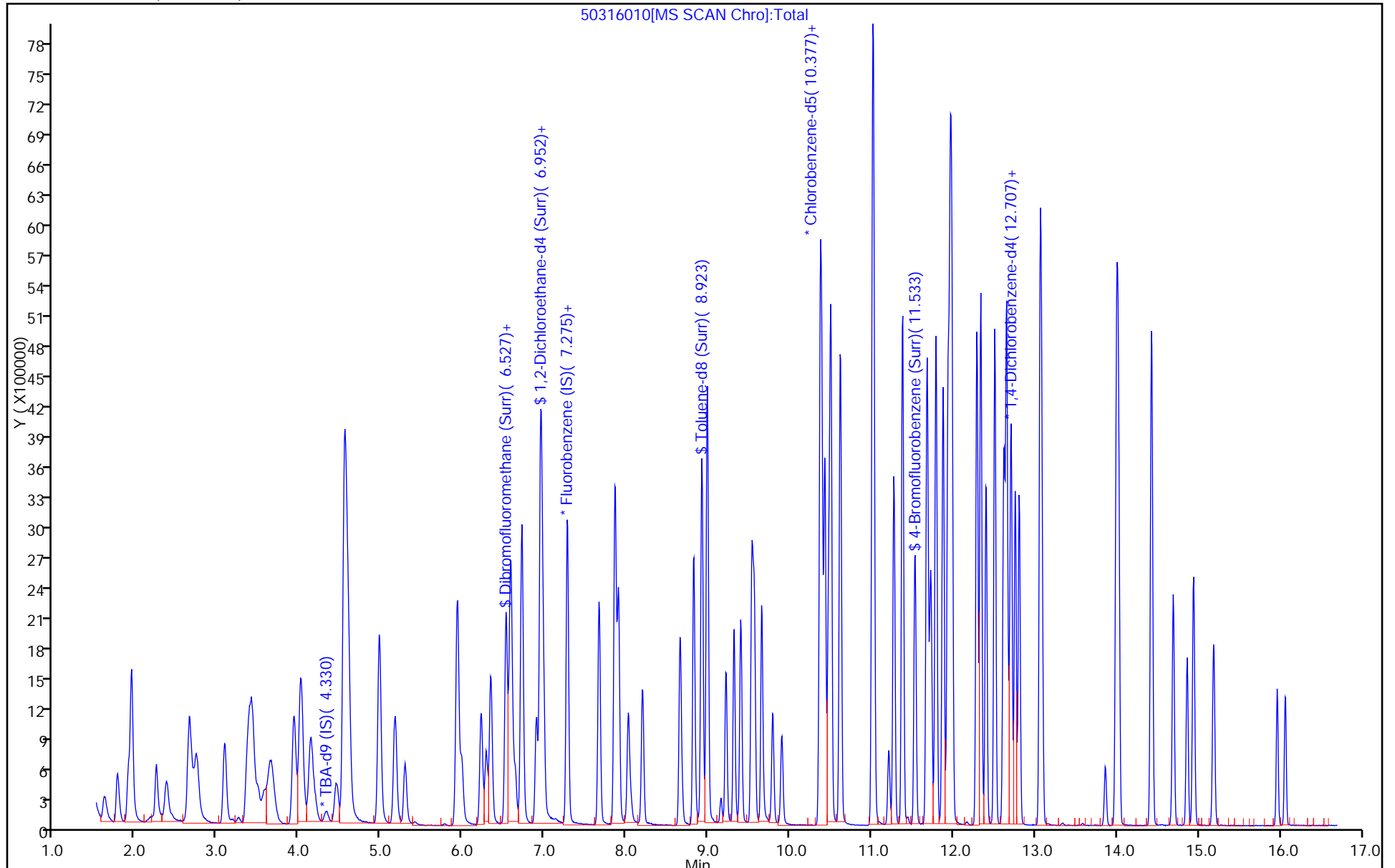
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316013.D
 Lims ID: IC VSTD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 16-Mar-2015 16:17:30 ALS Bottle#: 13 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD1
 Misc. Info.: 180-0006031-013
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub4
 Method: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 17-Mar-2015 10:59:33 Calib Date: 16-Mar-2015 16:17:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: fergusond

Date: 17-Mar-2015 10:01:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.317	4.305	0.012	83	148007	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.274	7.273	0.001	99	568509	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.364	10.364	0.000	74	121234	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.682	12.682	0.000	96	175081	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.526	6.525	0.001	93	14193	5.00	5.49	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.903	6.902	0.001	96	17152	5.00	5.03	
\$ 7 Toluene-d8 (Surr)	98	8.923	8.922	0.001	98	54935	5.00	5.68	
\$ 8 4-Bromofluorobenzene (Surr	95	11.532	11.532	0.000	92	19061	5.00	5.48	
11 Dichlorodifluoromethane	85	1.616	1.622	-0.006	96	11265	5.00	4.62	
12 Chloromethane	50	1.768	1.768	0.000	97	17972	5.00	5.34	M
13 Vinyl chloride	62	1.908	1.896	0.012	96	18981	5.00	5.05	
14 Butadiene	39	1.951	1.944	0.007	98	24095	5.00	5.61	
15 Bromomethane	94	2.249	2.249	0.000	85	18060	5.00	4.90	
16 Chloroethane	64	2.377	2.376	0.001	53	13187	5.00	5.07	
17 Dichlorofluoromethane	67	2.644	2.644	0.000	99	34297	5.00	5.78	
18 Trichlorofluoromethane	101	2.711	2.723	-0.012	92	20521	5.00	4.55	
20 Ethyl ether	59	3.082	3.082	0.000	94	16416	5.00	5.52	
21 Acrolein	56	3.247	3.258	-0.011	96	35289	100.0	97.7	M
22 1,1-Dichloroethene	96	3.368	3.374	-0.006	97	18234	5.00	5.56	
23 1,1,2-Trichloro-1,2,2-trif	101	3.435	3.423	0.012	90	16567	5.00	5.00	
24 Acetone	43	3.490	3.496	-0.006	93	29674	25.0	25.5	
25 Iodomethane	142	3.581	3.581	0.000	97	22824	5.00	5.01	
26 Carbon disulfide	76	3.648	3.660	-0.012	98	41336	5.00	5.16	
28 3-Chloro-1-propene	76	3.940	3.934	0.006	95	8006	5.00	4.62	
30 Methyl acetate	43	4.031	4.019	0.012	100	71022	25.0	26.1	
31 Methylene Chloride	84	4.135	4.147	-0.012	96	27978	5.00	7.38	
32 2-Methyl-2-propanol	59	4.433	4.439	-0.006	73	10830	50.0	62.1	
33 Acrylonitrile	53	4.555	4.554	0.001	99	71728	50.0	51.2	
34 trans-1,2-Dichloroethene	96	4.555	4.560	-0.005	57	17111	5.00	5.05	
35 Methyl tert-butyl ether	73	4.603	4.597	0.006	94	40058	5.00	5.34	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.974	4.980	-0.006	96	29021	5.00	5.36	
37 1,1-Dichloroethane	63	5.169	5.175	-0.006	99	29622	5.00	4.89	
38 Vinyl acetate	43	5.297	5.296	0.001	79	19067	5.00	4.44	
44 2,2-Dichloropropane	77	5.936	5.929	0.007	87	6267	5.00	4.14	
45 cis-1,2-Dichloroethene	96	5.936	5.941	-0.005	95	18951	5.00	5.30	
46 2-Butanone (MEK)	43	5.996	5.990	0.006	99	42054	25.0	22.6	
49 Chlorobromomethane	128	6.234	6.227	0.007	95	8619	5.00	5.58	
51 Tetrahydrofuran	42	6.288	6.282	0.006	75	11913	10.0	10.2	
52 Chloroform	83	6.343	6.343	0.000	97	29168	5.00	5.30	
53 1,1,1-Trichloroethane	97	6.532	6.531	0.001	93	15663	5.00	4.46	
54 Cyclohexane	56	6.580	6.586	-0.006	94	36280	5.00	5.38	
56 Carbon tetrachloride	117	6.720	6.720	0.000	97	13013	5.00	4.62	
55 1,1-Dichloropropene	75	6.720	6.726	-0.006	97	24060	5.00	5.28	
57 Isobutyl alcohol	41	6.958	6.945	0.013	95	8820	125.0	116.2	
58 Benzene	78	6.958	6.957	0.001	96	73700	5.00	5.47	
59 1,2-Dichloroethane	62	6.976	6.988	-0.012	98	22108	5.00	5.01	
62 n-Heptane	43	7.274	7.280	-0.006	58	23490	5.00	5.08	
64 Trichloroethene	130	7.669	7.669	0.000	96	18397	5.00	5.45	
66 Methylcyclohexane	83	7.858	7.864	-0.006	94	29934	5.00	4.97	
67 1,2-Dichloropropane	63	7.907	7.906	0.001	90	16916	5.00	5.08	
68 Dibromomethane	93	8.022	8.022	0.000	93	9562	5.00	5.33	
70 1,4-Dioxane	88	8.047	8.058	-0.012	33	3746	100.0	106.8	
71 Dichlorobromomethane	83	8.193	8.198	-0.006	98	16863	5.00	4.61	
74 cis-1,3-Dichloropropene	75	8.655	8.661	-0.006	98	15462	5.00	4.38	
75 4-Methyl-2-pentanone (MIBK)	43	8.831	8.825	0.006	99	75787	25.0	23.1	
76 Toluene	91	8.989	8.989	0.000	99	72597	5.00	5.84	
77 trans-1,3-Dichloropropene	75	9.208	9.220	-0.012	92	10481	5.00	4.67	
78 Ethyl methacrylate	69	9.318	9.318	0.000	94	13336	5.00	4.56	
79 1,1,2-Trichloroethane	97	9.403	9.403	0.000	95	13086	5.00	5.62	
80 Tetrachloroethene	164	9.531	9.537	-0.006	96	13716	5.00	5.64	
81 1,3-Dichloropropane	76	9.567	9.561	0.006	97	23188	5.00	5.35	
82 2-Hexanone	43	9.659	9.658	0.001	98	53734	25.0	21.4	M
84 Chlorodibromomethane	129	9.786	9.792	-0.006	95	7988	5.00	4.30	
85 Ethylene Dibromide	107	9.902	9.902	0.000	96	11471	5.00	5.16	
86 3-Chlorobenzotrifluoride	180	10.370	10.370	0.000	67	26148	5.00	5.52	
87 Chlorobenzene	112	10.389	10.388	0.001	98	47481	5.00	6.03	
88 4-Chlorobenzotrifluoride	180	10.425	10.431	-0.006	97	25927	5.00	5.66	
89 1,1,1,2-Tetrachloroethane	131	10.474	10.473	0.001	87	9154	5.00	4.50	
90 Ethylbenzene	106	10.504	10.504	0.000	99	24142	5.00	5.35	
91 m-Xylene & p-Xylene	106	10.614	10.619	-0.005	98	30126	5.00	5.45	
92 o-Xylene	106	11.015	11.009	0.006	97	32009	5.00	5.92	
93 Styrene	104	11.027	11.027	0.000	95	47061	5.00	5.41	
94 Bromoform	173	11.216	11.209	0.007	32	5157	5.00	4.49	
96 2-Chlorobenzotrifluoride	180	11.277	11.276	0.001	98	25441	5.00	5.37	
97 Isopropylbenzene	105	11.380	11.380	0.000	99	75470	5.00	5.60	
99 1,1,2,2-Tetrachloroethane	83	11.672	11.678	-0.006	93	19128	5.00	5.73	
100 Bromobenzene	156	11.691	11.678	0.012	97	16809	5.00	5.19	
101 1,2,3-Trichloropropane	110	11.721	11.721	0.001	89	5918	5.00	5.56	
102 trans-1,4-Dichloro-2-buten	53	11.739	11.733	0.006	50	4503	5.00	5.09	M
103 N-Propylbenzene	120	11.788	11.787	0.001	99	21543	5.00	5.39	
104 2-Chlorotoluene	126	11.873	11.873	0.000	99	17942	5.00	5.34	
105 3-Chlorotoluene	126	11.934	11.933	0.001	98	20174	5.00	5.37	

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	11.964	0.000	99	61438	5.00	5.51	
107 4-Chlorotoluene	126	11.983	11.982	0.000	94	19812	5.00	5.45	
108 tert-Butylbenzene	119	12.287	12.286	0.001	97	55729	5.00	5.77	
110 1,2,4-Trimethylbenzene	105	12.335	12.335	0.000	97	63098	5.00	5.52	
111 1,2-dichloro-4-(trifluorom	214	12.408	12.402	0.006	98	19333	5.00	5.35	
112 sec-Butylbenzene	105	12.506	12.511	-0.005	100	75379	5.00	5.55	
113 1,3-Dichlorobenzene	146	12.621	12.621	0.000	98	33497	5.00	5.61	
114 4-Isopropyltoluene	119	12.652	12.651	0.001	98	61054	5.00	5.44	
115 1,4-Dichlorobenzene	146	12.706	12.706	0.000	98	34596	5.00	5.67	
116 2,4-Dichloro-1-(trifluorom	214	12.755	12.755	0.000	94	17792	5.00	5.26	
118 2,5-Dichlorobenzotrifluori	214	12.810	12.803	0.007	96	20678	5.00	5.46	
120 n-Butylbenzene	91	13.065	13.065	0.000	99	54758	5.00	5.36	
121 1,2-Dichlorobenzene	146	13.084	13.083	0.001	99	30414	5.00	5.50	
122 1,2-Dibromo-3-Chloropropan	75	13.874	13.856	0.018	18	2299	5.00	5.08	
123 2,4- & 2,5- & 2,6- Dichlor	125	13.996	14.008	-0.012	93	71584	15.0	17.1	
125 2,3- & 3,4- Dichlorotoluen	125	14.428	14.428	0.000	97	46257	10.0	11.4	
126 1,2,4-Trichlorobenzene	180	14.690	14.695	-0.005	94	17018	5.00	5.91	
127 Hexachlorobutadiene	225	14.866	14.866	0.000	90	8549	5.00	6.19	
128 Naphthalene	128	14.939	14.939	0.000	99	41842	5.00	5.54	
129 1,2,3-Trichlorobenzene	180	15.189	15.188	0.000	95	13823	5.00	5.86	
131 2,4,5-Trichlorotoluene	159	15.961	15.967	-0.006	94	8592	5.00	6.77	
130 2,3,6-Trichlorotoluene	159	16.058	16.064	-0.006	94	7658	5.00	6.68	
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		10.0	11.4	
S 134 1,2-Dichloroethene, Total	96				0		10.0	10.4	
S 135 1,3-Dichloropropene, Total	1				0		10.0	9.05	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00032	Amount Added: 0.20	Units: uL	
VOA8260VOAPRI_00105	Amount Added: 0.20	Units: uL	
VOAVAPRI_00005	Amount Added: 0.20	Units: uL	
voaWketpri Re_00003	Amount Added: 0.80	Units: uL	
VOAACRPRI_00003	Amount Added: 4.00	Units: uL	
voaWEEpri Res_00003	Amount Added: 0.20	Units: uL	
VOA8260INT_00030	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316013.D

Injection Date: 16-Mar-2015 16:17:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: IC VSTD1

Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL

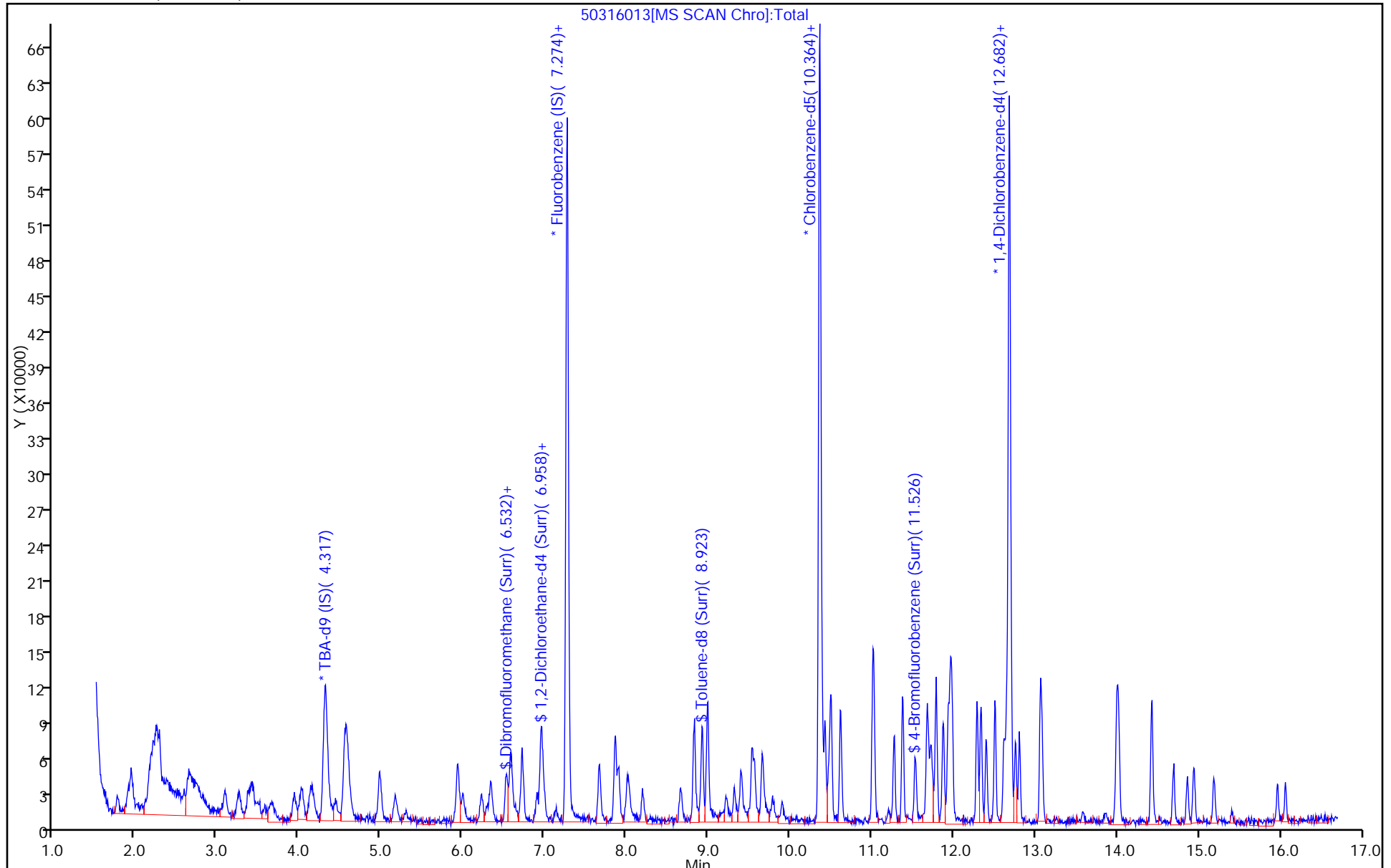
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



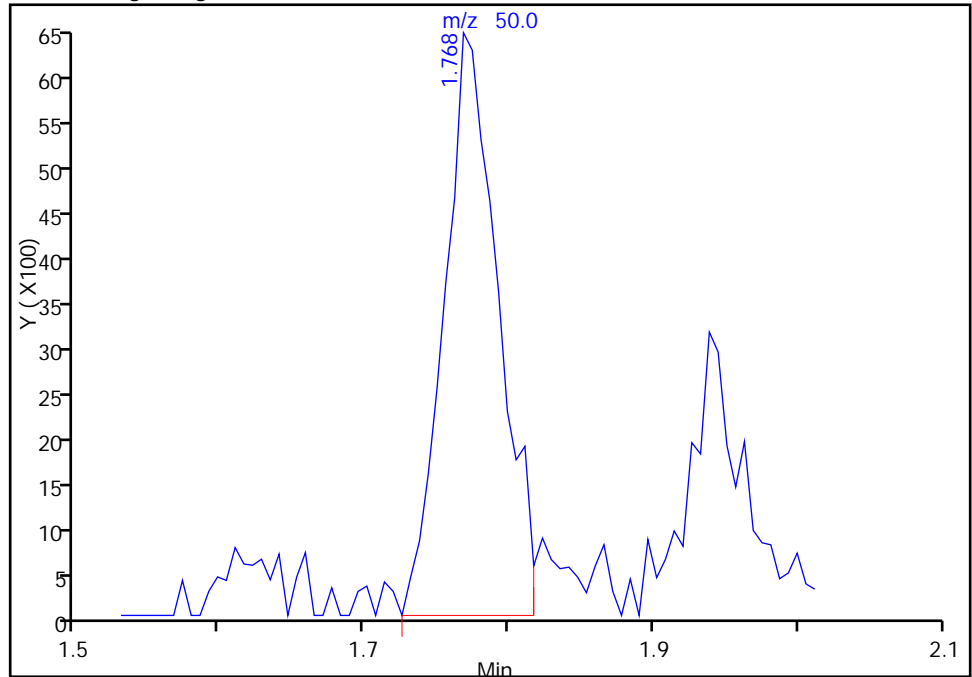
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316013.D
Injection Date: 16-Mar-2015 16:17:30 Instrument ID: CHHP5
Lims ID: IC VSTD1
Client ID:
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

12 Chloromethane, CAS: 74-87-3

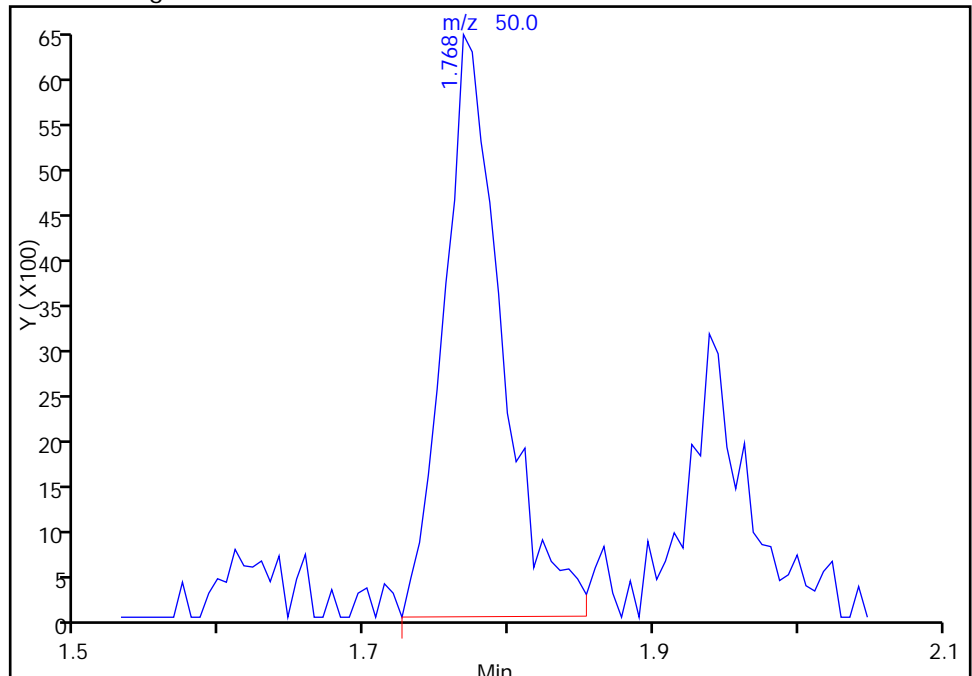
RT: 1.77
Area: 16860
Amount: 4.846171
Amount Units: ng

Processing Integration Results



RT: 1.77
Area: 17972
Amount: 5.343308
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 17-Mar-2015 10:01:36
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

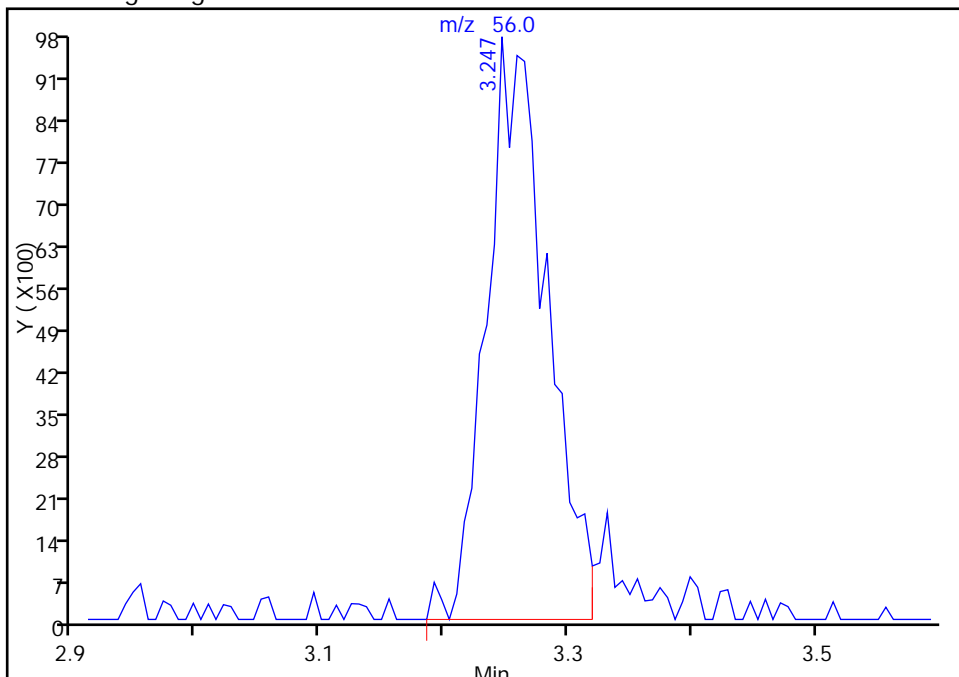
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316013.D
Injection Date: 16-Mar-2015 16:17:30 Instrument ID: CHHP5
Lims ID: IC VSTD1
Client ID:
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

21 Acrolein, CAS: 107-02-8

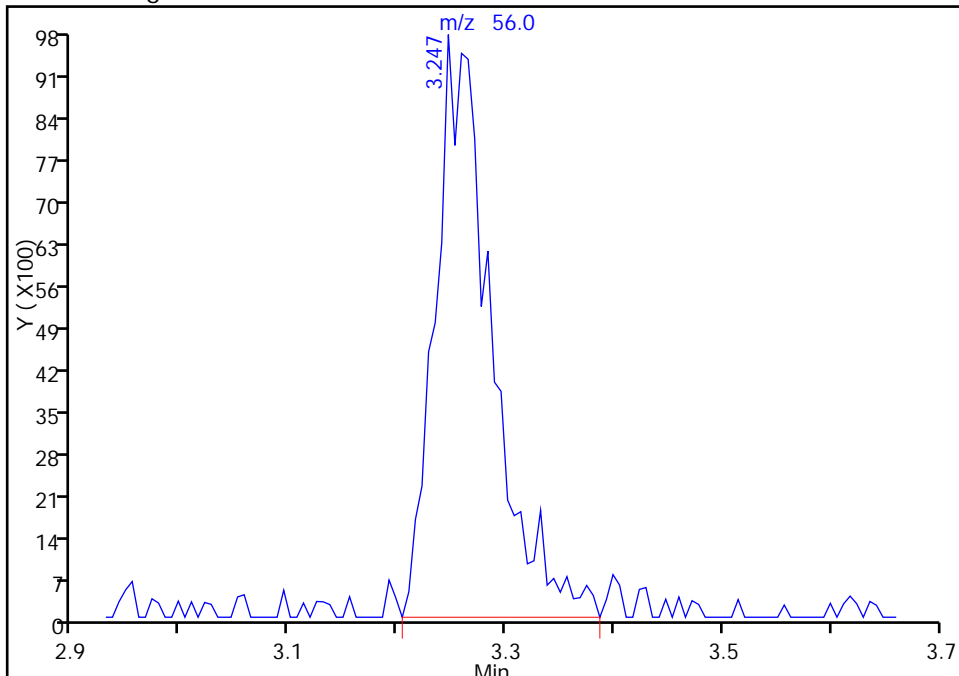
RT: 3.25
Area: 33235
Amount: 92.071591
Amount Units: ng

Processing Integration Results



RT: 3.25
Area: 35289
Amount: 97.689446
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 17-Mar-2015 10:01:36
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

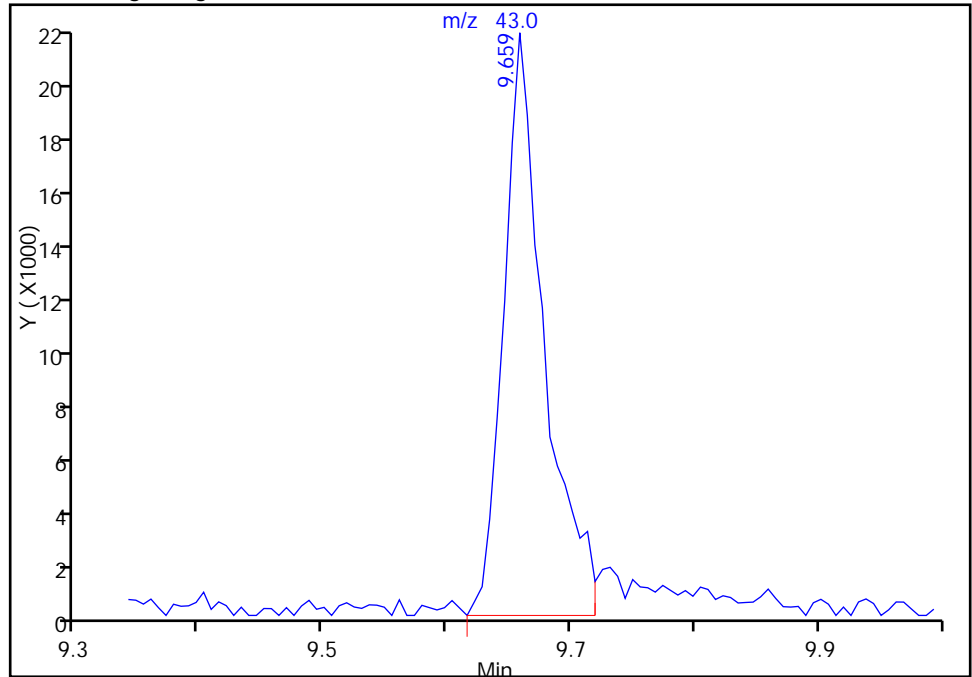
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316013.D
Injection Date: 16-Mar-2015 16:17:30 Instrument ID: CHHP5
Lims ID: IC VSTD1
Client ID:
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

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

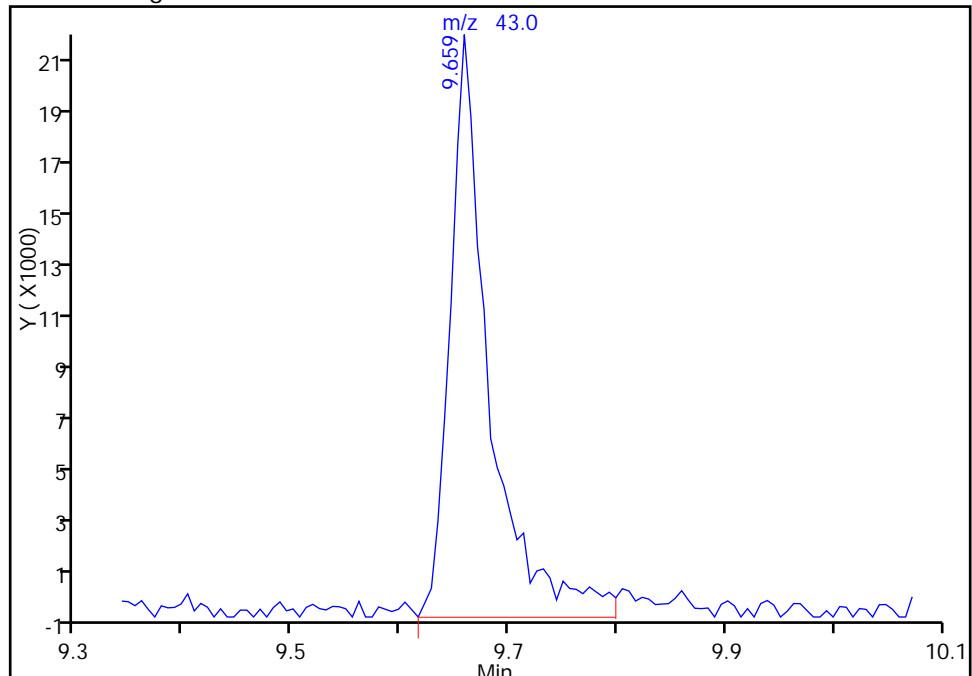
RT: 9.66
Area: 48498
Amount: 19.235523
Amount Units: ng

Processing Integration Results



RT: 9.66
Area: 53734
Amount: 21.434406
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 17-Mar-2015 10:01:36
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

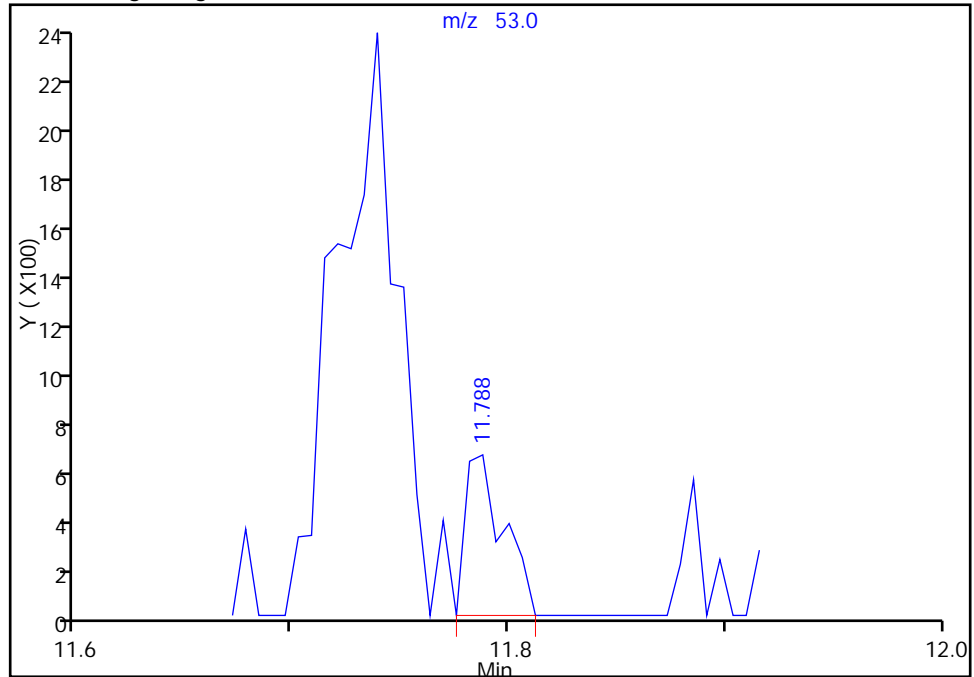
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316013.D
Injection Date: 16-Mar-2015 16:17:30 Instrument ID: CHHP5
Lims ID: IC VSTD1
Client ID:
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

102 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

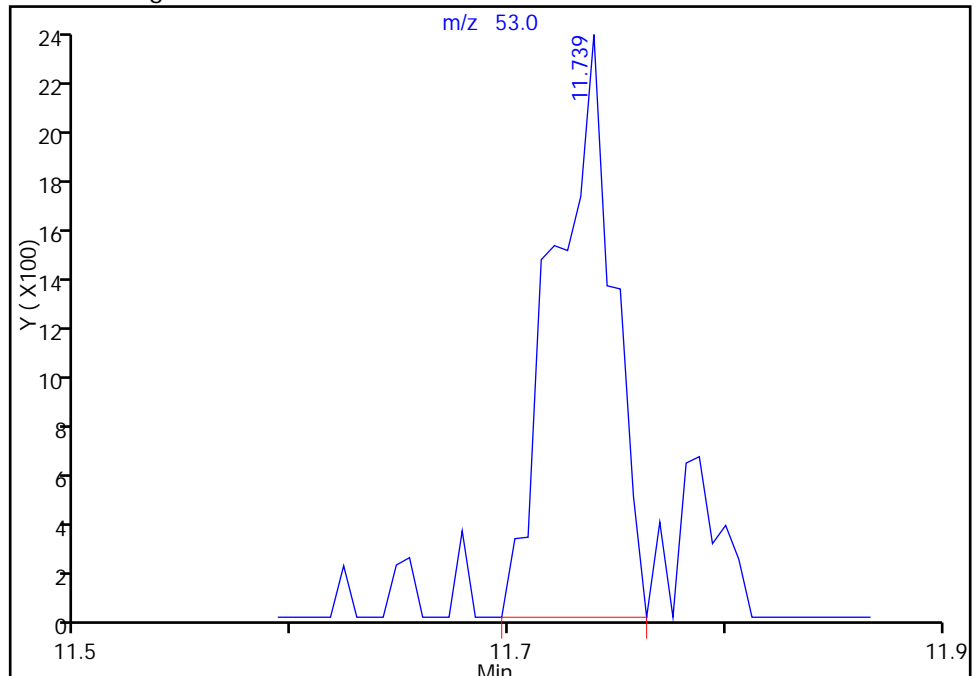
RT: 11.79
Area: 798
Amount: 0.892929
Amount Units: ng

Processing Integration Results



RT: 11.74
Area: 4503
Amount: 5.086353
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 17-Mar-2015 10:01:36
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43185-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-139148/2 Calibration Date: 04/21/2015 11:38
 Instrument ID: CHHP5 Calib Start Date: 03/16/2015 12:41
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/16/2015 16:17
 Lab File ID: 50421002.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	0.2143	0.2857	0.1000	13.3	10.0	33.3*	20.0
Chloromethane	Ave	0.2958	0.3452	0.1000	11.7	10.0	16.7	20.0
Vinyl chloride	Ave	0.3306	0.3578	0.1000	10.8	10.0	8.2	20.0
Bromomethane	Lin2		0.1688	0.0500	9.37	10.0	-6.3	20.0
Chloroethane	Ave	0.2287	0.2539	0.0500	11.1	10.0	11.0	20.0
Dichlorofluoromethane	Ave	0.5222	0.5803	0.0100	11.1	10.0	11.1	20.0
Trichlorofluoromethane	Ave	0.3966	0.3897	0.1000	9.83	10.0	-1.7	20.0
Ethyl ether	Ave	0.2615	0.2513	0.0100	9.61	10.0	-3.9	20.0
Acrolein	Ave	0.0318	0.0248	0.0100	23.4	30.0	-21.8*	20.0
1,1-Dichloroethene	Ave	0.2883	0.2633	0.1000	9.13	10.0	-8.7	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2916	0.2858	0.1000	9.80	10.0	-2.0	20.0
Acetone	Ave	0.1024	0.1098	0.0500	21.4	20.0	7.2	20.0
Iodomethane	Ave	0.4005	0.3561	0.0100	8.89	10.0	-11.1	20.0
Carbon disulfide	Ave	0.7051	0.3965	0.1000	5.62	10.0	-43.8*	20.0
Allyl chloride	Ave	0.1524	0.1245	0.0100	8.17	10.0	-18.3	20.0
Methyl acetate	Ave	0.2396	0.2349	0.1000	49.0	50.0	-2.0	20.0
Methylene Chloride	Ave	0.3335	0.3079	0.1000	9.23	10.0	-7.7	20.0
tert-Butyl alcohol	Ave	1.178	1.047	0.0100	88.9	100	-11.1	20.0
Acrylonitrile	Ave	0.1233	0.1184	0.0100	96.0	100	-4.0	20.0
trans-1,2-Dichloroethene	Ave	0.2982	0.2845	0.1000	9.54	10.0	-4.6	20.0
Methyl tert-butyl ether	Ave	0.6593	0.5771	0.1000	8.75	10.0	-12.5	20.0
Hexane	Ave	0.4764	0.3970	0.0100	8.33	10.0	-16.7	20.0
1,1-Dichloroethane	Ave	0.5323	0.4964	0.2000	9.32	10.0	-6.8	20.0
Vinyl acetate	Ave	0.3776	0.3080	0.0100	8.16	10.0	-18.4	20.0
2,2-Dichloropropane	Ave	0.1331	0.1547	0.0100	11.6	10.0	16.3	20.0
cis-1,2-Dichloroethene	Ave	0.3142	0.2813	0.1000	8.95	10.0	-10.5	20.0
2-Butanone (MEK)	Ave	0.1638	0.1295	0.0500	15.8	20.0	-20.9*	20.0
Bromochloromethane	Ave	0.1360	0.1239	0.0100	9.11	10.0	-8.9	20.0
Tetrahydrofuran	Ave	0.1026	0.0853	0.0100	16.6	20.0	-16.8	20.0
Chloroform	Ave	0.4836	0.4553	0.2000	9.41	10.0	-5.9	20.0
1,1,1-Trichloroethane	Ave	0.3088	0.3058	0.1000	9.90	10.0	-1.0	20.0
Cyclohexane	Ave	0.5929	0.5021	0.1000	8.47	10.0	-15.3	20.0
Carbon tetrachloride	Ave	0.2478	0.2454	0.1000	9.90	10.0	-1.0	20.0
1,1-Dichloropropene	Ave	0.4011	0.3507	0.0100	8.74	10.0	-12.6	20.0
Isobutyl alcohol	Ave	0.0067	0.0073*	0.0100	274	250	9.6	20.0
Benzene	Ave	1.185	1.177	0.5000	9.93	10.0	-0.7	20.0
1,2-Dichloroethane	Ave	0.3880	0.3650	0.1000	9.41	10.0	-5.9	20.0
n-Heptane	Ave	0.4071	0.3435	0.0100	8.44	10.0	-15.6	20.0
Trichloroethene	Ave	0.2969	0.2566	0.2000	8.64	10.0	-13.6	20.0
Methylcyclohexane	Ave	0.5297	0.4377	0.1000	8.26	10.0	-17.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43185-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-139148/2 Calibration Date: 04/21/2015 11:38
 Instrument ID: CHHP5 Calib Start Date: 03/16/2015 12:41
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/16/2015 16:17
 Lab File ID: 50421002.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	0.2931	0.2663	0.1000	9.09	10.0	-9.1	20.0
Dibromomethane	Ave	0.1578	0.1418	0.0100	8.98	10.0	-10.2	20.0
1,4-Dioxane	Ave	0.0031	0.0023*	0.0100	151	200	-24.6*	20.0
Bromodichloromethane	Ave	0.3220	0.2645	0.2000	8.21	10.0	-17.9	20.0
cis-1,3-Dichloropropene	Ave	0.3107	0.2723	0.2000	8.76	10.0	-12.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.353	1.133	0.1000	16.7	20.0	-16.3	20.0
Toluene	Ave	5.124	5.442	0.4000	10.6	10.0	6.2	20.0
trans-1,3-Dichloropropene	Ave	0.9254	0.9453	0.1000	10.2	10.0	2.2	20.0
Ethyl methacrylate	Ave	1.207	1.050	0.0100	8.70	10.0	-13.0	20.0
1,1,2-Trichloroethane	Ave	0.9609	1.036	0.1000	10.8	10.0	7.8	20.0
Tetrachloroethene	Ave	1.002	1.024	0.2000	10.2	10.0	2.1	20.0
1,3-Dichloropropane	Ave	1.786	1.809	0.0100	10.1	10.0	1.3	20.0
2-Hexanone	Ave	1.034	0.8907	0.1000	17.2	20.0	-13.9	20.0
Dibromochloromethane	Ave	0.7670	0.6819	0.1000	8.89	10.0	-11.1	20.0
1,2-Dibromoethane (EDB)	Ave	0.9169	0.8964	0.1000	9.78	10.0	-2.2	20.0
3-Chlorobenzotrifluoride	Ave	1.955	1.952	0.0100	9.99	10.0	-0.1	20.0
Chlorobenzene	Ave	3.246	3.227	0.5000	9.94	10.0	-0.6	20.0
4-Chlorobenzotrifluoride	Ave	1.890	1.882	0.0100	9.96	10.0	-0.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8382	0.8190	0.0100	9.77	10.0	-2.3	20.0
Ethylbenzene	Ave	1.863	1.828	0.1000	9.81	10.0	-1.9	20.0
m-Xylene & p-Xylene	Ave	2.278	2.219	0.1000	9.74	10.0	-2.6	20.0
o-Xylene	Ave	2.228	2.069	0.3000	9.29	10.0	-7.1	20.0
Styrene	Ave	3.591	3.430	0.3000	9.55	10.0	-4.5	20.0
Bromoform	Ave	0.4737	0.3874	0.1000	8.18	10.0	-18.2	20.0
2-Chlorobenzotrifluoride	Ave	1.952	1.878	0.0100	9.62	10.0	-3.8	20.0
Isopropylbenzene	Ave	5.560	5.285	0.1000	9.51	10.0	-4.9	20.0
1,1,2,2-Tetrachloroethane	Ave	1.378	1.391	0.3000	10.1	10.0	1.0	20.0
Bromobenzene	Ave	0.9254	0.8483	0.0100	9.17	10.0	-8.3	20.0
1,2,3-Trichloropropane	Ave	0.3041	0.3105	0.0100	10.2	10.0	2.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2528	0.2280	0.0100	9.02	10.0	-9.8	20.0
N-Propylbenzene	Ave	1.142	1.022	0.0100	8.95	10.0	-10.5	20.0
2-Chlorotoluene	Ave	0.9591	0.8831	0.0100	9.21	10.0	-7.9	20.0
3-Chlorotoluene	Ave	1.072	1.018	0.0100	9.50	10.0	-5.0	20.0
1,3,5-Trimethylbenzene	Ave	3.183	3.042	0.0100	9.56	10.0	-4.4	20.0
4-Chlorotoluene	Ave	1.038	1.013	0.0100	9.76	10.0	-2.4	20.0
tert-Butylbenzene	Ave	2.758	2.285	0.0100	8.29	10.0	-17.1	20.0
1,2,4-Trimethylbenzene	Ave	3.267	2.939	0.0100	9.00	10.0	-10.0	20.0
3,4-Dichlorobenzotrifluoride	Ave	1.032	0.9695	0.0100	9.39	10.0	-6.1	20.0
sec-Butylbenzene	Ave	3.881	3.538	0.0100	9.11	10.0	-8.9	20.0
1,3-Dichlorobenzene	Ave	1.705	1.560	0.6000	9.15	10.0	-8.5	20.0
4-Isopropyltoluene	Ave	3.204	2.791	0.0100	8.71	10.0	-12.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43185-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-139148/2 Calibration Date: 04/21/2015 11:38
 Instrument ID: CHHP5 Calib Start Date: 03/16/2015 12:41
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/16/2015 16:17
 Lab File ID: 50421002.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	1.741	1.628	0.5000	9.35	10.0	-6.5	20.0
2,4-Dichlorobenzotrifluoride	Ave	0.9669	0.8716	0.0100	9.01	10.0	-9.9	20.0
2,5-Dichlorobenzotrifluoride	Ave	1.082	0.9942	0.0100	9.19	10.0	-8.1	20.0
n-Butylbenzene	Ave	2.918	2.510	0.0100	8.60	10.0	-14.0	20.0
1,2-Dichlorobenzene	Ave	1.579	1.483	0.4000	9.39	10.0	-6.1	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1292	0.0925	0.0500	7.16	10.0	-28.4*	20.0
2,4- & 2,5- & 2,6-Dichlorotoluene	Ave	1.194	0.9289	0.0100	23.3	30.0	-22.2*	20.0
2,3- & 3,4- Dichlorotoluene	Ave	1.161	0.8373	0.0100	14.4	20.0	-27.9*	20.0
1,2,4-Trichlorobenzene	Ave	0.8219	0.5972	0.2000	7.27	10.0	-27.3*	20.0
Hexachlorobutadiene	Ave	0.3941	0.3476	0.0100	8.82	10.0	-11.8	20.0
Naphthalene	Ave	2.158	1.366	0.0100	6.33	10.0	-36.7*	20.0
1,2,3-Trichlorobenzene	Ave	0.6740	0.4698	0.0100	6.97	10.0	-30.3*	20.0
2,4,5-Trichlorotoluene	Ave	0.3624	0.1619	0.0100	4.47	10.0	-55.3*	20.0
2,3,6-Trichlorotoluene	Ave	0.3273	0.1736	0.0100	5.30	10.0	-47.0*	20.0
Dibromofluoromethane (Surr)	Ave	0.2274	0.1998		8.78	10.0	-12.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2998	0.2716		9.06	10.0	-9.4	20.0
Toluene-d8 (Surr)	Ave	3.986	3.937		9.87	10.0	-1.3	20.0
4-Bromofluorobenzene (Surr)	Ave	1.436	1.257		8.76	10.0	-12.4	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150421-6566.b\50421002.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 21-Apr-2015 11:38:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 180-0006566-002
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub12
 Method: \\PITCHROM\ChromData\CHHP5\20150421-6566.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 21-Apr-2015 13:20:23 Calib Date: 14-Apr-2015 13:44:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150414-6459.b\50414005.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK037

First Level Reviewer: fergusond

Date: 21-Apr-2015 12:10:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.323	4.323	0.000	0	175229	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.273	7.273	0.000	94	603627	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.358	10.358	0.000	82	130536	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.681	12.681	0.000	92	192725	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.531	6.531	0.000	45	120576	50.0	43.9	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.902	6.902	0.000	0	163968	50.0	45.3	
\$ 7 Toluene-d8 (Surr)	98	8.922	8.922	0.000	74	513866	50.0	49.4	
\$ 8 4-Bromofluorobenzene (Surr	95	11.532	11.532	0.000	88	164116	50.0	43.8	
11 Dichlorodifluoromethane	85	1.616	1.616	0.000	84	172454	50.0	66.7	
12 Chloromethane	50	1.792	1.792	0.000	95	208343	50.0	58.3	
13 Vinyl chloride	62	1.914	1.914	0.000	83	215991	50.0	54.1	
14 Butadiene	39	1.962	1.962	0.000	99	244993	50.0	53.7	
15 Bromomethane	94	2.260	2.260	0.000	93	101866	50.0	46.9	M
16 Chloroethane	64	2.406	2.406	0.000	94	153228	50.0	55.5	
17 Dichlorofluoromethane	67	2.668	2.668	0.000	82	350284	50.0	55.6	
18 Trichlorofluoromethane	101	2.729	2.729	0.000	83	235244	50.0	49.1	
20 Ethyl ether	59	3.088	3.088	0.000	92	151679	50.0	48.0	
21 Acrolein	56	3.258	3.258	0.000	91	44964	150.0	117.2	
22 1,1-Dichloroethene	96	3.410	3.410	0.000	86	158903	50.0	45.7	
23 1,1,2-Trichloro-1,2,2-trif	101	3.447	3.447	0.000	85	172539	50.0	49.0	
24 Acetone	43	3.502	3.502	0.000	94	132516	100.0	107.2	
25 Iodomethane	142	3.623	3.623	0.000	93	214957	50.0	44.5	M
26 Carbon disulfide	76	3.672	3.672	0.000	99	239364	50.0	28.1	
28 3-Chloro-1-propene	76	3.946	3.946	0.000	84	75132	50.0	40.8	
30 Methyl acetate	43	4.025	4.025	0.000	98	708840	250.0	245.0	
31 Methylene Chloride	84	4.140	4.140	0.000	87	185831	50.0	46.2	
32 2-Methyl-2-propanol	59	4.438	4.438	0.000	78	91756	500.0	444.5	
33 Acrylonitrile	53	4.554	4.554	0.000	98	714443	500.0	480.1	
34 trans-1,2-Dichloroethene	96	4.560	4.560	0.000	54	171732	50.0	47.7	
35 Methyl tert-butyl ether	73	4.597	4.597	0.000	88	348347	50.0	43.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.980	4.980	0.000	93	239651	50.0	41.7	
37 1,1-Dichloroethane	63	5.174	5.174	0.000	97	299632	50.0	46.6	
38 Vinyl acetate	43	5.296	5.296	0.000	91	185922	50.0	40.8	
44 2,2-Dichloropropane	77	5.929	5.929	0.000	56	93399	50.0	58.1	
45 cis-1,2-Dichloroethene	96	5.941	5.941	0.000	70	169780	50.0	44.8	
46 2-Butanone (MEK)	43	5.984	5.984	0.000	98	156364	100.0	79.1	
49 Chlorobromomethane	128	6.227	6.227	0.000	84	74794	50.0	45.6	
51 Tetrahydrofuran	42	6.282	6.282	0.000	90	103030	100.0	83.2	
52 Chloroform	83	6.343	6.343	0.000	83	274799	50.0	47.1	
53 1,1,1-Trichloroethane	97	6.525	6.525	0.000	86	184604	50.0	49.5	
54 Cyclohexane	56	6.586	6.586	0.000	79	303055	50.0	42.3	
56 Carbon tetrachloride	117	6.720	6.720	0.000	64	148130	50.0	49.5	
55 1,1-Dichloropropene	75	6.726	6.726	0.000	93	211719	50.0	43.7	
57 Isobutyl alcohol	41	6.951	6.951	0.000	41	110384	1250.0	1370.0	
58 Benzene	78	6.957	6.957	0.000	97	710241	50.0	49.7	
59 1,2-Dichloroethane	62	6.981	6.981	0.000	94	220326	50.0	47.0	
62 n-Heptane	43	7.273	7.273	0.000	63	207315	50.0	42.2	
64 Trichloroethene	130	7.663	7.663	0.000	92	154910	50.0	43.2	
66 Methylcyclohexane	83	7.863	7.863	0.000	92	264219	50.0	41.3	
67 1,2-Dichloropropane	63	7.900	7.900	0.000	88	160747	50.0	45.4	
68 Dibromomethane	93	8.022	8.022	0.000	87	85574	50.0	44.9	
70 1,4-Dioxane	88	8.058	8.058	0.000	89	28094	1000.0	754.1	M
71 Dichlorobromomethane	83	8.198	8.198	0.000	92	159654	50.0	41.1	
73 2-Chloroethyl vinyl ether	63	8.514	8.514	0.000	92	156688	100.0	78.6	
74 cis-1,3-Dichloropropene	75	8.654	8.654	0.000	88	164357	50.0	43.8	
75 4-Methyl-2-pentanone (MIBK)	43	8.818	8.818	0.000	65	295667	100.0	83.7	
76 Toluene	91	8.989	8.989	0.000	98	710389	50.0	53.1	
77 trans-1,3-Dichloropropene	75	9.214	9.214	0.000	91	123399	50.0	51.1	
78 Ethyl methacrylate	69	9.317	9.317	0.000	73	137002	50.0	43.5	
79 1,1,2-Trichloroethane	97	9.402	9.402	0.000	82	135274	50.0	53.9	
80 Tetrachloroethene	164	9.536	9.536	0.000	92	133641	50.0	51.1	
81 1,3-Dichloropropane	76	9.561	9.561	0.000	92	236182	50.0	50.7	
82 2-Hexanone	43	9.652	9.652	0.000	97	232528	100.0	86.1	
84 Chlorodibromomethane	129	9.792	9.792	0.000	87	89017	50.0	44.5	
85 Ethylene Dibromide	107	9.895	9.895	0.000	98	117015	50.0	48.9	
86 3-Chlorobenzotrifluoride	180	10.370	10.370	0.000	89	254862	50.0	49.9	
87 Chlorobenzene	112	10.388	10.388	0.000	89	421245	50.0	49.7	
88 4-Chlorobenzotrifluoride	180	10.425	10.425	0.000	83	245715	50.0	49.8	
89 1,1,1,2-Tetrachloroethane	131	10.473	10.473	0.000	73	106913	50.0	48.9	
90 Ethylbenzene	106	10.498	10.498	0.000	99	238576	50.0	49.1	
91 m-Xylene & p-Xylene	106	10.619	10.619	0.000	0	289720	50.0	48.7	
92 o-Xylene	106	11.009	11.009	0.000	93	270126	50.0	46.4	
93 Styrene	104	11.027	11.027	0.000	92	447676	50.0	47.8	
94 Bromoform	173	11.209	11.209	0.000	93	50570	50.0	40.9	
96 2-Chlorobenzotrifluoride	180	11.270	11.270	0.000	97	245126	50.0	48.1	
97 Isopropylbenzene	105	11.380	11.380	0.000	97	689924	50.0	47.5	
99 1,1,2,2-Tetrachloroethane	83	11.672	11.672	0.000	79	181613	50.0	50.5	
100 Bromobenzene	156	11.684	11.684	0.000	92	163482	50.0	45.8	
101 1,2,3-Trichloropropane	110	11.720	11.720	0.000	73	59833	50.0	51.0	
102 trans-1,4-Dichloro-2-buten	53	11.732	11.732	0.000	62	43943	50.0	45.1	
103 N-Propylbenzene	120	11.787	11.787	0.000	98	196935	50.0	44.8	
104 2-Chlorotoluene	126	11.872	11.872	0.000	96	170204	50.0	46.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
105 3-Chlorotoluene	126	11.933	11.933	0.000	55	196261	50.0	47.5	
106 1,3,5-Trimethylbenzene	105	11.964	11.964	0.000	92	586302	50.0	47.8	
107 4-Chlorotoluene	126	11.982	11.982	0.000	98	195251	50.0	48.8	
108 tert-Butylbenzene	119	12.286	12.286	0.000	75	440370	50.0	41.4	
110 1,2,4-Trimethylbenzene	105	12.335	12.335	0.000	88	566405	50.0	45.0	
111 1,2-dichloro-4-(trifluorom	214	12.402	12.402	0.000	95	186852	50.0	47.0	
112 sec-Butylbenzene	105	12.505	12.505	0.000	95	681799	50.0	45.6	
113 1,3-Dichlorobenzene	146	12.615	12.615	0.000	81	300600	50.0	45.7	
114 4-Isopropyltoluene	119	12.651	12.651	0.000	90	537955	50.0	43.6	
115 1,4-Dichlorobenzene	146	12.706	12.706	0.000	93	313670	50.0	46.7	
116 2,4-Dichloro-1-(trifluorom	214	12.754	12.754	0.000	95	167982	50.0	45.1	
118 2,5-Dichlorobenzotrifluori	214	12.803	12.803	0.000	0	191603	50.0	46.0	
120 n-Butylbenzene	91	13.065	13.065	0.000	95	483820	50.0	43.0	
121 1,2-Dichlorobenzene	146	13.077	13.077	0.000	95	285827	50.0	47.0	
122 1,2-Dibromo-3-Chloropropan	75	13.862	13.862	0.000	67	17820	50.0	35.8	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.008	14.008	0.000	0	537087	150.0	116.7	
125 2,3- & 3,4- Dichlorotoluen	125	14.421	14.421	0.000	0	322727	100.0	72.1	
126 1,2,4-Trichlorobenzene	180	14.689	14.689	0.000	91	115091	50.0	36.3	
127 Hexachlorobutadiene	225	14.859	14.859	0.000	89	66994	50.0	44.1	
128 Naphthalene	128	14.938	14.938	0.000	97	263227	50.0	31.6	
129 1,2,3-Trichlorobenzene	180	15.182	15.182	0.000	92	90538	50.0	34.8	
131 2,4,5-Trichlorotoluene	159	15.960	15.960	0.000	0	31197	50.0	22.3	
130 2,3,6-Trichlorotoluene	159	16.064	16.064	0.000	93	33451	50.0	26.5	
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	92.5	
S 133 Xylenes, Total	106				0		100.0	95.1	
S 135 1,3-Dichloropropene, Total	1				0		100.0	94.9	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260VOAPRI_00110	Amount Added: 2.00	Units: uL	
voaWKetpri Re_00004	Amount Added: 2.00	Units: uL	
voaWeemixPRI_00002	Amount Added: 2.00	Units: uL	
voaW VA pri R_00005	Amount Added: 2.00	Units: uL	
VOAACRPRI_00005	Amount Added: 6.00	Units: uL	
voaW2-cle pri_00006	Amount Added: 2.00	Units: uL	
VOA8260INT_00031	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00033	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150421-6566.b\50421002.D

Injection Date: 21-Apr-2015 11:38:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

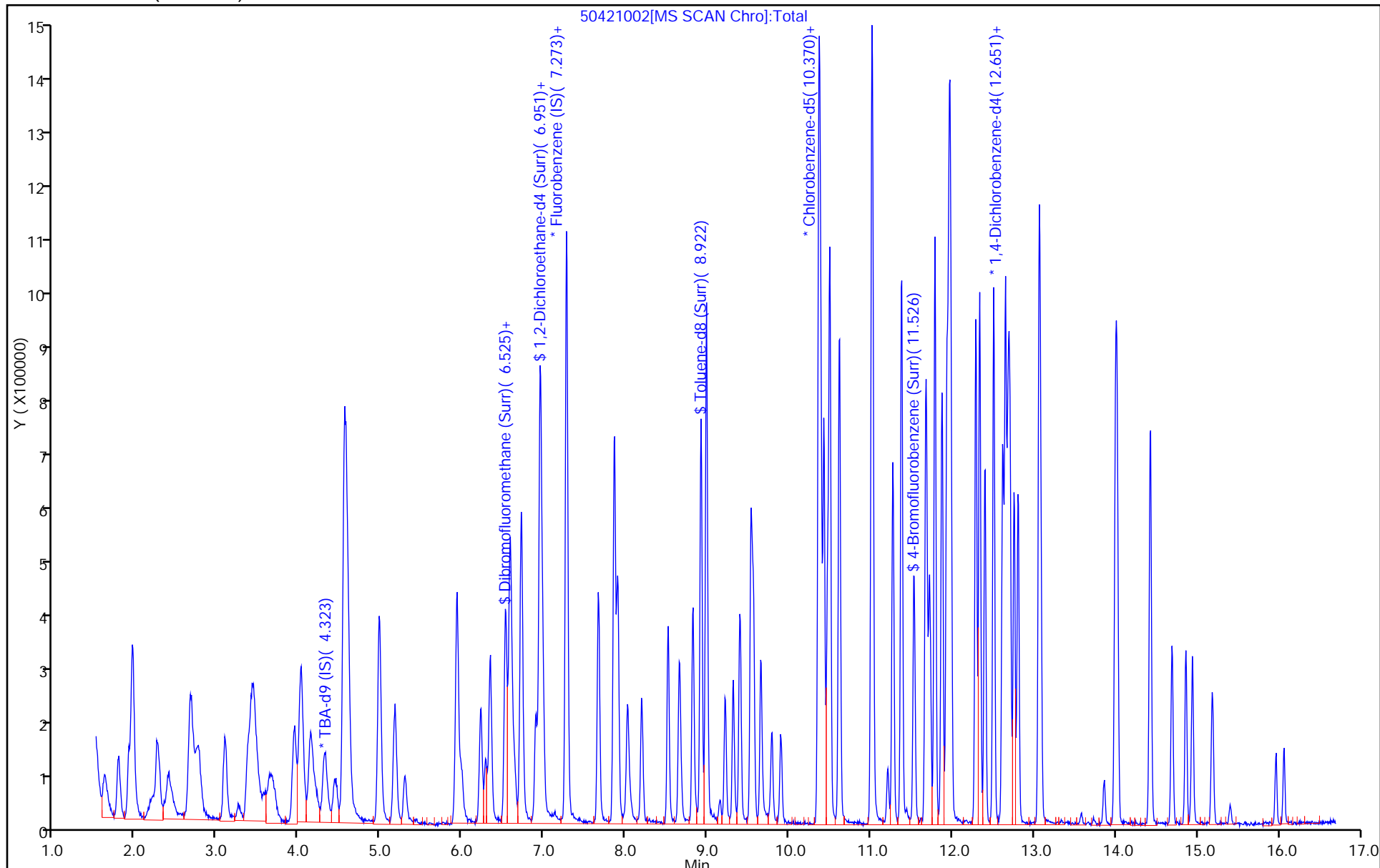
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



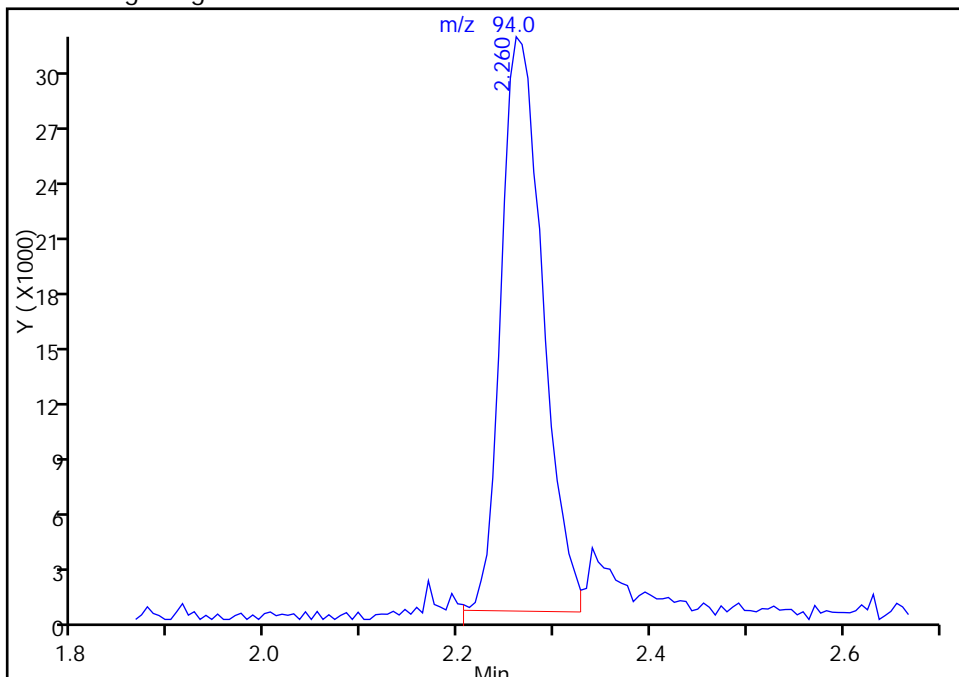
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150421-6566.b\50421002.D
Injection Date: 21-Apr-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

15 Bromomethane, CAS: 74-83-9

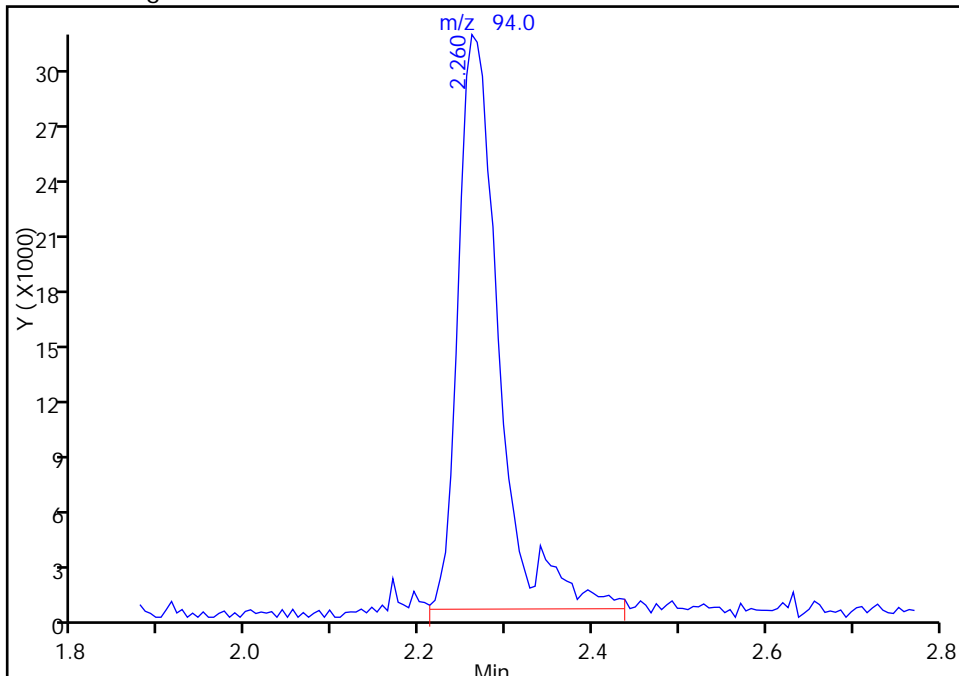
RT: 2.26
Area: 93442
Amount: 42.580345
Amount Units: ng

Processing Integration Results



RT: 2.26
Area: 101866
Amount: 46.854444
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 21-Apr-2015 12:10:23
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

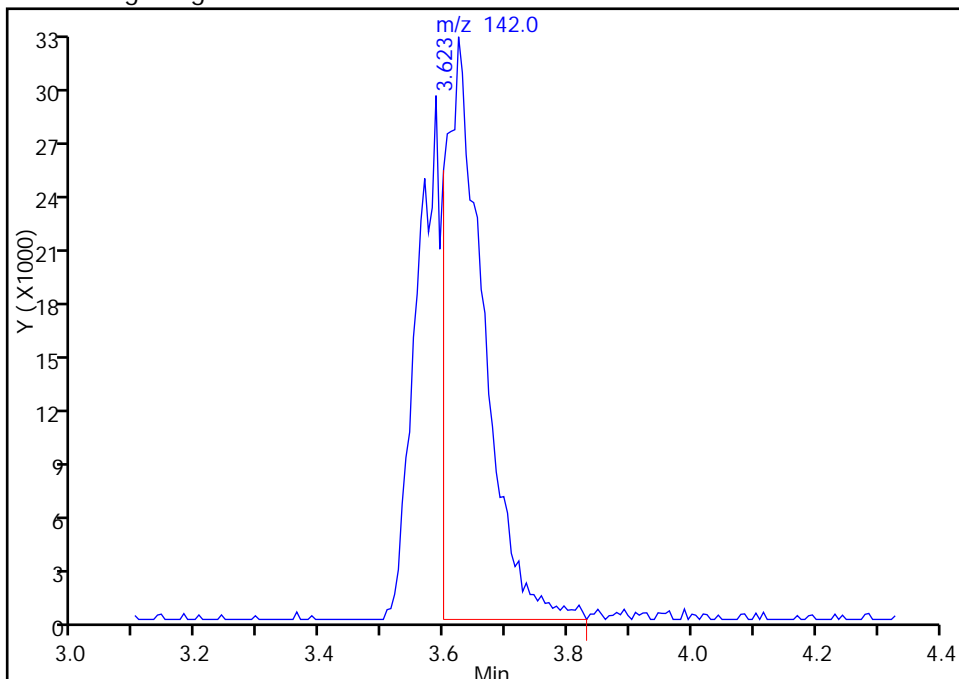
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150421-6566.b\50421002.D
Injection Date: 21-Apr-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

25 Iodomethane, CAS: 74-88-4

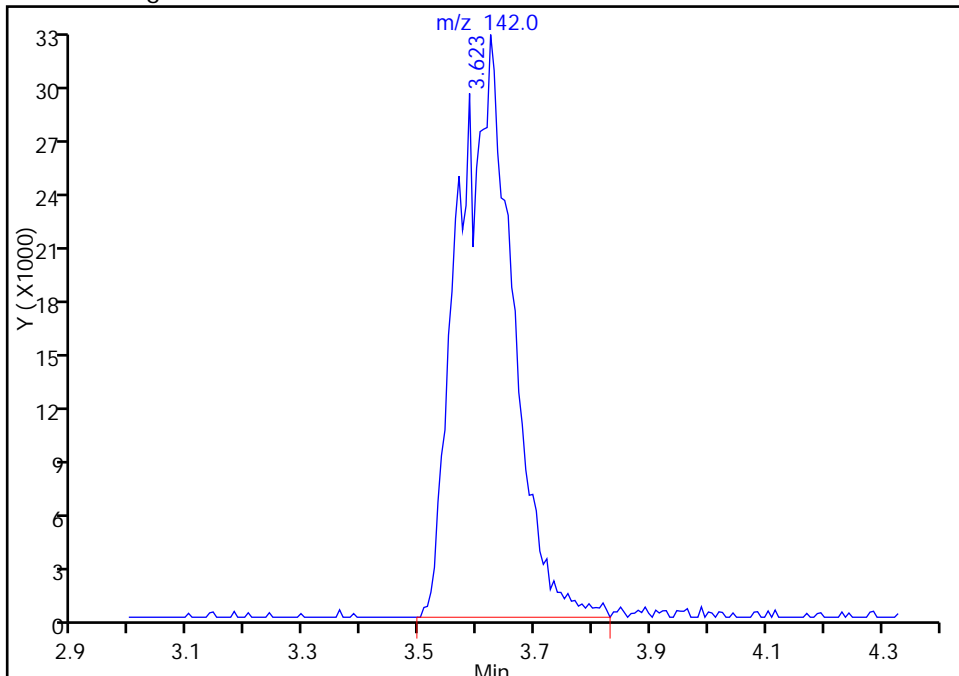
RT: 3.62
Area: 138931
Amount: 28.730856
Amount Units: ng

Processing Integration Results



RT: 3.62
Area: 214957
Amount: 44.452992
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 21-Apr-2015 12:10:23
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

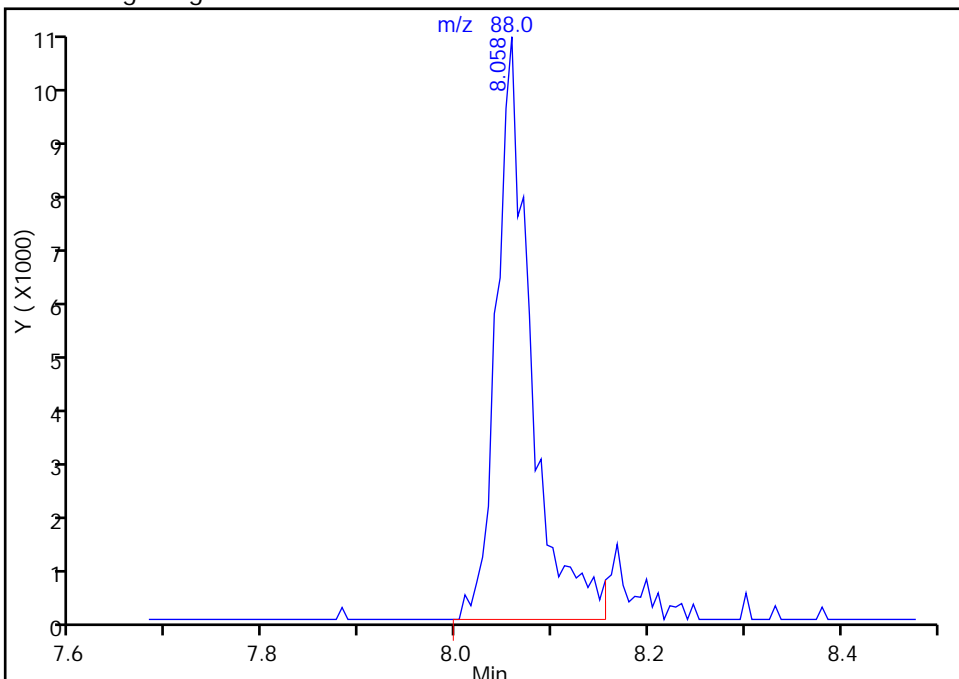
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150421-6566.b\50421002.D
Injection Date: 21-Apr-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

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

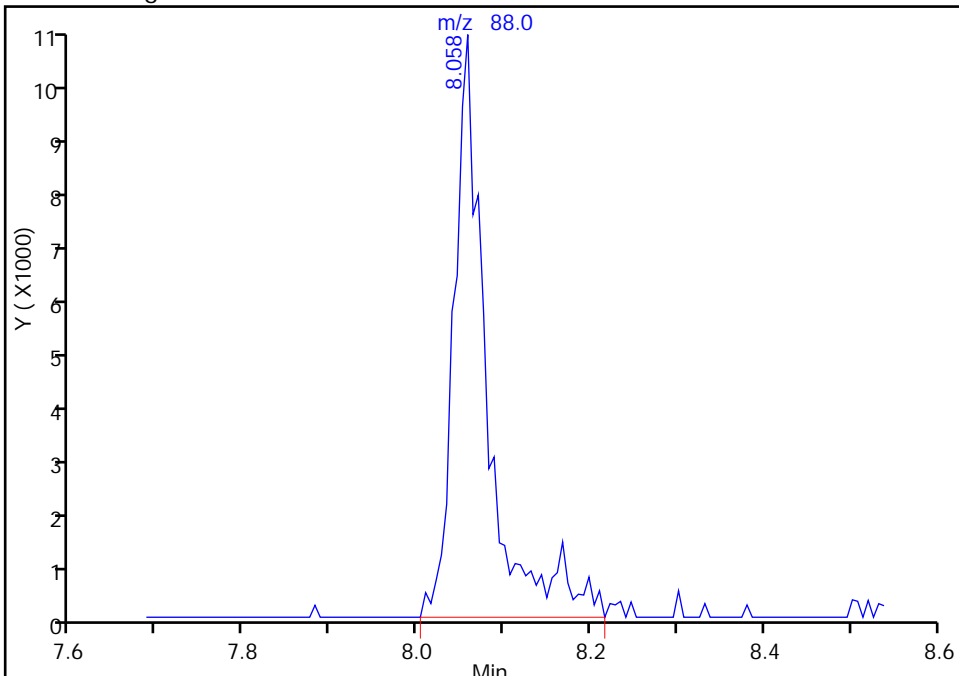
RT: 8.06
Area: 26136
Amount: 701.5563
Amount Units: ng

Processing Integration Results



RT: 8.06
Area: 28094
Amount: 754.1140
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 21-Apr-2015 12:10:23
Audit Action: Manually Integrated
Audit Reason: Peak Tail

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43185-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-139148/2 Calibration Date: 04/21/2015 11:38
 Instrument ID: CHHP5 Calib Start Date: 03/18/2015 13:31
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/18/2015 16:19
 Lab File ID: 50421002.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
2-Chloroethyl vinyl ether	Ave	0.1652	0.1298	0.0100	15.7	20.0	-21.4*	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150421-6566.b\50421002.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 21-Apr-2015 11:38:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 180-0006566-002
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub12
 Method: \\PITCHROM\ChromData\CHHP5\20150421-6566.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 21-Apr-2015 13:20:23 Calib Date: 14-Apr-2015 13:44:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150414-6459.b\50414005.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK037

First Level Reviewer: fergusond

Date: 21-Apr-2015 12:10:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.323	4.323	0.000	0	175229	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.273	7.273	0.000	94	603627	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.358	10.358	0.000	82	130536	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.681	12.681	0.000	92	192725	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.531	6.531	0.000	45	120576	50.0	43.9	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.902	6.902	0.000	0	163968	50.0	45.3	
\$ 7 Toluene-d8 (Surr)	98	8.922	8.922	0.000	74	513866	50.0	49.4	
\$ 8 4-Bromofluorobenzene (Surr	95	11.532	11.532	0.000	88	164116	50.0	43.8	
11 Dichlorodifluoromethane	85	1.616	1.616	0.000	84	172454	50.0	66.7	
12 Chloromethane	50	1.792	1.792	0.000	95	208343	50.0	58.3	
13 Vinyl chloride	62	1.914	1.914	0.000	83	215991	50.0	54.1	
14 Butadiene	39	1.962	1.962	0.000	99	244993	50.0	53.7	
15 Bromomethane	94	2.260	2.260	0.000	93	101866	50.0	46.9	M
16 Chloroethane	64	2.406	2.406	0.000	94	153228	50.0	55.5	
17 Dichlorofluoromethane	67	2.668	2.668	0.000	82	350284	50.0	55.6	
18 Trichlorofluoromethane	101	2.729	2.729	0.000	83	235244	50.0	49.1	
20 Ethyl ether	59	3.088	3.088	0.000	92	151679	50.0	48.0	
21 Acrolein	56	3.258	3.258	0.000	91	44964	150.0	117.2	
22 1,1-Dichloroethene	96	3.410	3.410	0.000	86	158903	50.0	45.7	
23 1,1,2-Trichloro-1,2,2-trif	101	3.447	3.447	0.000	85	172539	50.0	49.0	
24 Acetone	43	3.502	3.502	0.000	94	132516	100.0	107.2	
25 Iodomethane	142	3.623	3.623	0.000	93	214957	50.0	44.5	M
26 Carbon disulfide	76	3.672	3.672	0.000	99	239364	50.0	28.1	
28 3-Chloro-1-propene	76	3.946	3.946	0.000	84	75132	50.0	40.8	
30 Methyl acetate	43	4.025	4.025	0.000	98	708840	250.0	245.0	
31 Methylene Chloride	84	4.140	4.140	0.000	87	185831	50.0	46.2	
32 2-Methyl-2-propanol	59	4.438	4.438	0.000	78	91756	500.0	444.5	
33 Acrylonitrile	53	4.554	4.554	0.000	98	714443	500.0	480.1	
34 trans-1,2-Dichloroethene	96	4.560	4.560	0.000	54	171732	50.0	47.7	
35 Methyl tert-butyl ether	73	4.597	4.597	0.000	88	348347	50.0	43.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.980	4.980	0.000	93	239651	50.0	41.7	
37 1,1-Dichloroethane	63	5.174	5.174	0.000	97	299632	50.0	46.6	
38 Vinyl acetate	43	5.296	5.296	0.000	91	185922	50.0	40.8	
44 2,2-Dichloropropane	77	5.929	5.929	0.000	56	93399	50.0	58.1	
45 cis-1,2-Dichloroethene	96	5.941	5.941	0.000	70	169780	50.0	44.8	
46 2-Butanone (MEK)	43	5.984	5.984	0.000	98	156364	100.0	79.1	
49 Chlorobromomethane	128	6.227	6.227	0.000	84	74794	50.0	45.6	
51 Tetrahydrofuran	42	6.282	6.282	0.000	90	103030	100.0	83.2	
52 Chloroform	83	6.343	6.343	0.000	83	274799	50.0	47.1	
53 1,1,1-Trichloroethane	97	6.525	6.525	0.000	86	184604	50.0	49.5	
54 Cyclohexane	56	6.586	6.586	0.000	79	303055	50.0	42.3	
56 Carbon tetrachloride	117	6.720	6.720	0.000	64	148130	50.0	49.5	
55 1,1-Dichloropropene	75	6.726	6.726	0.000	93	211719	50.0	43.7	
57 Isobutyl alcohol	41	6.951	6.951	0.000	41	110384	1250.0	1370.0	
58 Benzene	78	6.957	6.957	0.000	97	710241	50.0	49.7	
59 1,2-Dichloroethane	62	6.981	6.981	0.000	94	220326	50.0	47.0	
62 n-Heptane	43	7.273	7.273	0.000	63	207315	50.0	42.2	
64 Trichloroethene	130	7.663	7.663	0.000	92	154910	50.0	43.2	
66 Methylcyclohexane	83	7.863	7.863	0.000	92	264219	50.0	41.3	
67 1,2-Dichloropropane	63	7.900	7.900	0.000	88	160747	50.0	45.4	
68 Dibromomethane	93	8.022	8.022	0.000	87	85574	50.0	44.9	
70 1,4-Dioxane	88	8.058	8.058	0.000	89	28094	1000.0	754.1	M
71 Dichlorobromomethane	83	8.198	8.198	0.000	92	159654	50.0	41.1	
73 2-Chloroethyl vinyl ether	63	8.514	8.514	0.000	92	156688	100.0	78.6	
74 cis-1,3-Dichloropropene	75	8.654	8.654	0.000	88	164357	50.0	43.8	
75 4-Methyl-2-pentanone (MIBK)	43	8.818	8.818	0.000	65	295667	100.0	83.7	
76 Toluene	91	8.989	8.989	0.000	98	710389	50.0	53.1	
77 trans-1,3-Dichloropropene	75	9.214	9.214	0.000	91	123399	50.0	51.1	
78 Ethyl methacrylate	69	9.317	9.317	0.000	73	137002	50.0	43.5	
79 1,1,2-Trichloroethane	97	9.402	9.402	0.000	82	135274	50.0	53.9	
80 Tetrachloroethene	164	9.536	9.536	0.000	92	133641	50.0	51.1	
81 1,3-Dichloropropane	76	9.561	9.561	0.000	92	236182	50.0	50.7	
82 2-Hexanone	43	9.652	9.652	0.000	97	232528	100.0	86.1	
84 Chlorodibromomethane	129	9.792	9.792	0.000	87	89017	50.0	44.5	
85 Ethylene Dibromide	107	9.895	9.895	0.000	98	117015	50.0	48.9	
86 3-Chlorobenzotrifluoride	180	10.370	10.370	0.000	89	254862	50.0	49.9	
87 Chlorobenzene	112	10.388	10.388	0.000	89	421245	50.0	49.7	
88 4-Chlorobenzotrifluoride	180	10.425	10.425	0.000	83	245715	50.0	49.8	
89 1,1,1,2-Tetrachloroethane	131	10.473	10.473	0.000	73	106913	50.0	48.9	
90 Ethylbenzene	106	10.498	10.498	0.000	99	238576	50.0	49.1	
91 m-Xylene & p-Xylene	106	10.619	10.619	0.000	0	289720	50.0	48.7	
92 o-Xylene	106	11.009	11.009	0.000	93	270126	50.0	46.4	
93 Styrene	104	11.027	11.027	0.000	92	447676	50.0	47.8	
94 Bromoform	173	11.209	11.209	0.000	93	50570	50.0	40.9	
96 2-Chlorobenzotrifluoride	180	11.270	11.270	0.000	97	245126	50.0	48.1	
97 Isopropylbenzene	105	11.380	11.380	0.000	97	689924	50.0	47.5	
99 1,1,2,2-Tetrachloroethane	83	11.672	11.672	0.000	79	181613	50.0	50.5	
100 Bromobenzene	156	11.684	11.684	0.000	92	163482	50.0	45.8	
101 1,2,3-Trichloropropane	110	11.720	11.720	0.000	73	59833	50.0	51.0	
102 trans-1,4-Dichloro-2-buten	53	11.732	11.732	0.000	62	43943	50.0	45.1	
103 N-Propylbenzene	120	11.787	11.787	0.000	98	196935	50.0	44.8	
104 2-Chlorotoluene	126	11.872	11.872	0.000	96	170204	50.0	46.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
105 3-Chlorotoluene	126	11.933	11.933	0.000	55	196261	50.0	47.5	
106 1,3,5-Trimethylbenzene	105	11.964	11.964	0.000	92	586302	50.0	47.8	
107 4-Chlorotoluene	126	11.982	11.982	0.000	98	195251	50.0	48.8	
108 tert-Butylbenzene	119	12.286	12.286	0.000	75	440370	50.0	41.4	
110 1,2,4-Trimethylbenzene	105	12.335	12.335	0.000	88	566405	50.0	45.0	
111 1,2-dichloro-4-(trifluorom	214	12.402	12.402	0.000	95	186852	50.0	47.0	
112 sec-Butylbenzene	105	12.505	12.505	0.000	95	681799	50.0	45.6	
113 1,3-Dichlorobenzene	146	12.615	12.615	0.000	81	300600	50.0	45.7	
114 4-Isopropyltoluene	119	12.651	12.651	0.000	90	537955	50.0	43.6	
115 1,4-Dichlorobenzene	146	12.706	12.706	0.000	93	313670	50.0	46.7	
116 2,4-Dichloro-1-(trifluorom	214	12.754	12.754	0.000	95	167982	50.0	45.1	
118 2,5-Dichlorobenzotrifluori	214	12.803	12.803	0.000	0	191603	50.0	46.0	
120 n-Butylbenzene	91	13.065	13.065	0.000	95	483820	50.0	43.0	
121 1,2-Dichlorobenzene	146	13.077	13.077	0.000	95	285827	50.0	47.0	
122 1,2-Dibromo-3-Chloropropan	75	13.862	13.862	0.000	67	17820	50.0	35.8	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.008	14.008	0.000	0	537087	150.0	116.7	
125 2,3- & 3,4- Dichlorotoluen	125	14.421	14.421	0.000	0	322727	100.0	72.1	
126 1,2,4-Trichlorobenzene	180	14.689	14.689	0.000	91	115091	50.0	36.3	
127 Hexachlorobutadiene	225	14.859	14.859	0.000	89	66994	50.0	44.1	
128 Naphthalene	128	14.938	14.938	0.000	97	263227	50.0	31.6	
129 1,2,3-Trichlorobenzene	180	15.182	15.182	0.000	92	90538	50.0	34.8	
131 2,4,5-Trichlorotoluene	159	15.960	15.960	0.000	0	31197	50.0	22.3	
130 2,3,6-Trichlorotoluene	159	16.064	16.064	0.000	93	33451	50.0	26.5	
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	92.5	
S 133 Xylenes, Total	106				0		100.0	95.1	
S 135 1,3-Dichloropropene, Total	1				0		100.0	94.9	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260VOAPRI_00110	Amount Added: 2.00	Units: uL	
voaWKetpri Re_00004	Amount Added: 2.00	Units: uL	
voaWeemixPRI_00002	Amount Added: 2.00	Units: uL	
voaW VA pri R_00005	Amount Added: 2.00	Units: uL	
VOAACRPRI_00005	Amount Added: 6.00	Units: uL	
voaW2-cle pri_00006	Amount Added: 2.00	Units: uL	
VOA8260INT_00031	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00033	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150421-6566.b\50421002.D

Injection Date: 21-Apr-2015 11:38:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

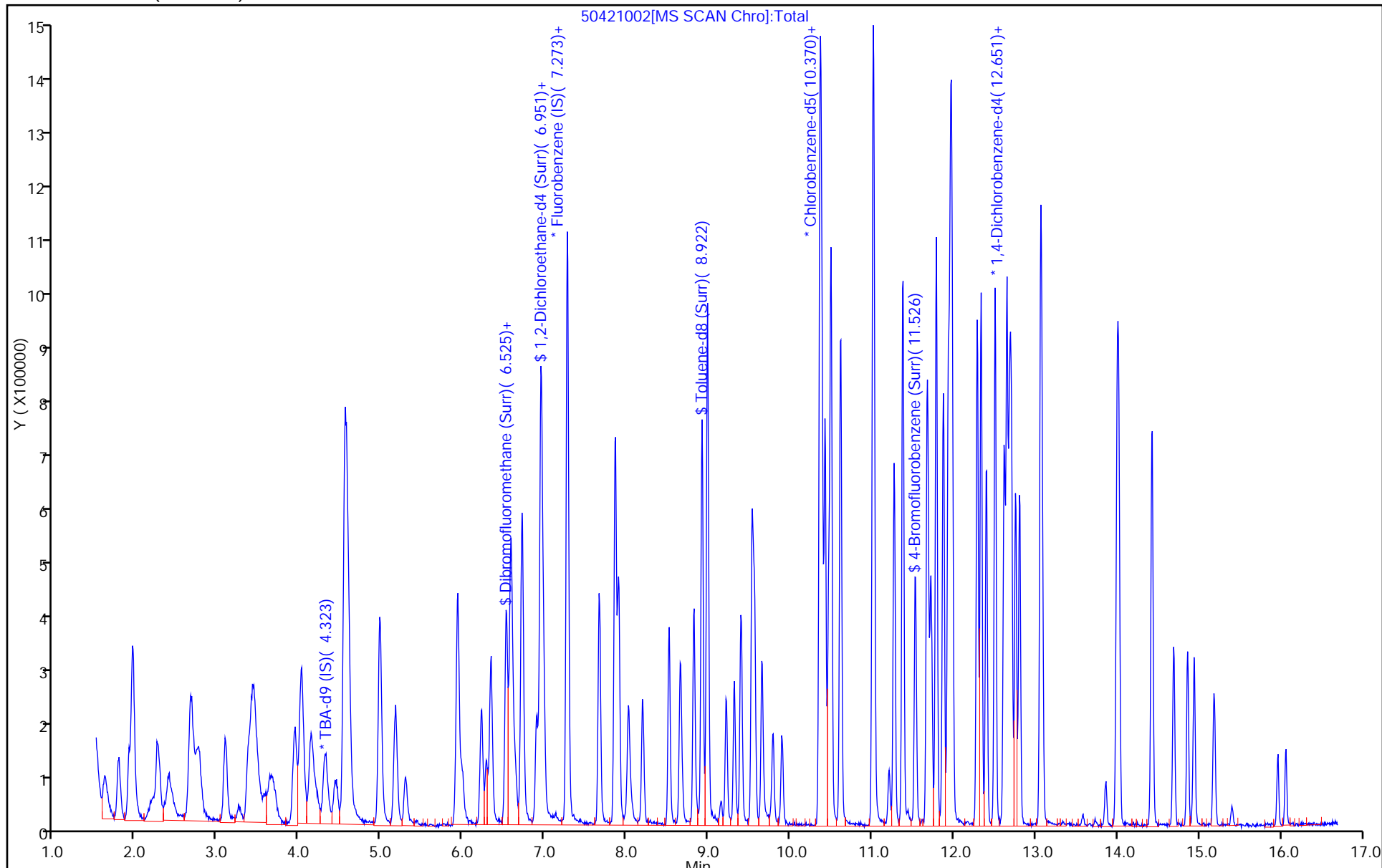
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43185-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-139271/2 Calibration Date: 04/22/2015 11:10
 Instrument ID: CHHP5 Calib Start Date: 03/16/2015 12:41
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/16/2015 16:17
 Lab File ID: 50422002.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	0.2143	0.2476	0.1000	11.6	10.0	15.5	20.0
Chloromethane	Ave	0.2958	0.3382	0.1000	11.4	10.0	14.3	20.0
Vinyl chloride	Ave	0.3306	0.3404	0.1000	10.3	10.0	3.0	20.0
Bromomethane	Lin2		0.1984	0.0500	11.2	10.0	11.9	20.0
Chloroethane	Ave	0.2287	0.2289	0.0500	10.0	10.0	0.0	20.0
Dichlorofluoromethane	Ave	0.5222	0.4964	0.0100	9.50	10.0	-5.0	20.0
Trichlorofluoromethane	Ave	0.3966	0.3848	0.1000	9.70	10.0	-3.0	20.0
Ethyl ether	Ave	0.2615	0.2512	0.0100	9.60	10.0	-4.0	20.0
Acrolein	Ave	0.0318	0.0289	0.0100	27.3	30.0	-9.0	20.0
1,1-Dichloroethene	Ave	0.2883	0.2820	0.1000	9.78	10.0	-2.2	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2916	0.3028	0.1000	10.4	10.0	3.8	20.0
Acetone	Ave	0.1024	0.1086	0.0500	21.2	20.0	6.0	20.0
Iodomethane	Ave	0.4005	0.3769	0.0100	9.41	10.0	-5.9	20.0
Carbon disulfide	Ave	0.7051	0.7582	0.1000	10.8	10.0	7.5	20.0
Allyl chloride	Ave	0.1524	0.1615	0.0100	10.6	10.0	6.0	20.0
Methyl acetate	Ave	0.2396	0.2471	0.1000	51.6	50.0	3.1	20.0
Methylene Chloride	Ave	0.3335	0.3098	0.1000	9.29	10.0	-7.1	20.0
tert-Butyl alcohol	Ave	1.178	1.161	0.0100	98.6	100	-1.4	20.0
Acrylonitrile	Ave	0.1233	0.1255	0.0100	102	100	1.8	20.0
trans-1,2-Dichloroethene	Ave	0.2982	0.2789	0.1000	9.35	10.0	-6.5	20.0
Methyl tert-butyl ether	Ave	0.6593	0.6346	0.1000	9.63	10.0	-3.7	20.0
Hexane	Ave	0.4764	0.4374	0.0100	9.18	10.0	-8.2	20.0
1,1-Dichloroethane	Ave	0.5323	0.5350	0.2000	10.1	10.0	0.5	20.0
Vinyl acetate	Ave	0.3776	0.4788	0.0100	12.7	10.0	26.8*	20.0
2,2-Dichloropropane	Ave	0.1331	0.1950	0.0100	14.7	10.0	46.5*	20.0
cis-1,2-Dichloroethene	Ave	0.3142	0.2853	0.1000	9.08	10.0	-9.2	20.0
2-Butanone (MEK)	Ave	0.1638	0.1498	0.0500	18.3	20.0	-8.6	20.0
Bromochloromethane	Ave	0.1360	0.1219	0.0100	8.97	10.0	-10.3	20.0
Tetrahydrofuran	Ave	0.1026	0.0884	0.0100	17.2	20.0	-13.8	20.0
Chloroform	Ave	0.4836	0.4656	0.2000	9.63	10.0	-3.7	20.0
1,1,1-Trichloroethane	Ave	0.3088	0.3508	0.1000	11.4	10.0	13.6	20.0
Cyclohexane	Ave	0.5929	0.5491	0.1000	9.26	10.0	-7.4	20.0
Carbon tetrachloride	Ave	0.2478	0.3361	0.1000	13.6	10.0	35.6*	20.0
1,1-Dichloropropene	Ave	0.4011	0.3656	0.0100	9.12	10.0	-8.8	20.0
Isobutyl alcohol	Ave	0.0067	0.0080*	0.0100	300	250	20.0	20.0
Benzene	Ave	1.185	1.170	0.5000	9.87	10.0	-1.3	20.0
1,2-Dichloroethane	Ave	0.3880	0.3495	0.1000	9.01	10.0	-9.9	20.0
n-Heptane	Ave	0.4071	0.3814	0.0100	9.37	10.0	-6.3	20.0
Trichloroethene	Ave	0.2969	0.2781	0.2000	9.37	10.0	-6.3	20.0
Methylcyclohexane	Ave	0.5297	0.4811	0.1000	9.08	10.0	-9.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43185-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-139271/2 Calibration Date: 04/22/2015 11:10
 Instrument ID: CHHP5 Calib Start Date: 03/16/2015 12:41
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/16/2015 16:17
 Lab File ID: 50422002.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	0.2931	0.2857	0.1000	9.75	10.0	-2.5	20.0
Dibromomethane	Ave	0.1578	0.1531	0.0100	9.70	10.0	-3.0	20.0
1,4-Dioxane	Ave	0.0031	0.0027*	0.0100	172	200	-14.2	20.0
Bromodichloromethane	Ave	0.3220	0.3341	0.2000	10.4	10.0	3.8	20.0
cis-1,3-Dichloropropene	Ave	0.3107	0.3742	0.2000	12.0	10.0	20.4*	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.353	1.299	0.1000	19.2	20.0	-4.0	20.0
Toluene	Ave	5.124	5.501	0.4000	10.7	10.0	7.4	20.0
trans-1,3-Dichloropropene	Ave	0.9254	1.332	0.1000	14.4	10.0	44.0*	20.0
Ethyl methacrylate	Ave	1.207	1.229	0.0100	10.2	10.0	1.8	20.0
1,1,2-Trichloroethane	Ave	0.9609	0.9916	0.1000	10.3	10.0	3.2	20.0
Tetrachloroethene	Ave	1.002	1.016	0.2000	10.1	10.0	1.3	20.0
1,3-Dichloropropane	Ave	1.786	1.813	0.0100	10.2	10.0	1.5	20.0
2-Hexanone	Ave	1.034	1.063	0.1000	20.6	20.0	2.8	20.0
Dibromochloromethane	Ave	0.7670	1.032	0.1000	13.5	10.0	34.5*	20.0
1,2-Dibromoethane (EDB)	Ave	0.9169	0.9474	0.1000	10.3	10.0	3.3	20.0
3-Chlorobenzotrifluoride	Ave	1.955	1.946	0.0100	9.95	10.0	-0.5	20.0
Chlorobenzene	Ave	3.246	3.291	0.5000	10.1	10.0	1.4	20.0
4-Chlorobenzotrifluoride	Ave	1.890	1.810	0.0100	9.58	10.0	-4.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8382	1.143	0.0100	13.6	10.0	36.4*	20.0
Ethylbenzene	Ave	1.863	1.908	0.1000	10.2	10.0	2.4	20.0
m-Xylene & p-Xylene	Ave	2.278	2.329	0.1000	10.2	10.0	2.3	20.0
o-Xylene	Ave	2.228	2.115	0.3000	9.49	10.0	-5.1	20.0
Styrene	Ave	3.591	3.508	0.3000	9.77	10.0	-2.3	20.0
Bromoform	Ave	0.4737	0.6504	0.1000	13.7	10.0	37.3*	20.0
2-Chlorobenzotrifluoride	Ave	1.952	1.834	0.0100	9.40	10.0	-6.0	20.0
Isopropylbenzene	Ave	5.560	5.417	0.1000	9.74	10.0	-2.6	20.0
1,1,2,2-Tetrachloroethane	Ave	1.378	1.381	0.3000	10.0	10.0	0.2	20.0
Bromobenzene	Ave	0.9254	0.8381	0.0100	9.06	10.0	-9.4	20.0
1,2,3-Trichloropropane	Ave	0.3041	0.2873	0.0100	9.45	10.0	-5.5	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2528	0.2670	0.0100	10.6	10.0	5.6	20.0
N-Propylbenzene	Ave	1.142	1.047	0.0100	9.17	10.0	-8.3	20.0
2-Chlorotoluene	Ave	0.9591	0.8590	0.0100	8.96	10.0	-10.4	20.0
3-Chlorotoluene	Ave	1.072	1.012	0.0100	9.44	10.0	-5.6	20.0
1,3,5-Trimethylbenzene	Ave	3.183	2.995	0.0100	9.41	10.0	-5.9	20.0
4-Chlorotoluene	Ave	1.038	0.9767	0.0100	9.41	10.0	-5.9	20.0
tert-Butylbenzene	Ave	2.758	2.433	0.0100	8.82	10.0	-11.8	20.0
1,2,4-Trimethylbenzene	Ave	3.267	2.963	0.0100	9.07	10.0	-9.3	20.0
3,4-Dichlorobenzotrifluoride	Ave	1.032	0.8730	0.0100	8.46	10.0	-15.4	20.0
sec-Butylbenzene	Ave	3.881	3.588	0.0100	9.24	10.0	-7.6	20.0
1,3-Dichlorobenzene	Ave	1.705	1.501	0.6000	8.80	10.0	-12.0	20.0
4-Isopropyltoluene	Ave	3.204	2.976	0.0100	9.29	10.0	-7.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43185-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-139271/2 Calibration Date: 04/22/2015 11:10
 Instrument ID: CHHP5 Calib Start Date: 03/16/2015 12:41
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/16/2015 16:17
 Lab File ID: 50422002.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	1.741	1.587	0.5000	9.11	10.0	-8.9	20.0
2,4-Dichlorobenzotrifluoride	Ave	0.9669	0.7847	0.0100	8.12	10.0	-18.8	20.0
2,5-Dichlorobenzotrifluoride	Ave	1.082	0.8926	0.0100	8.25	10.0	-17.5	20.0
n-Butylbenzene	Ave	2.918	2.565	0.0100	8.79	10.0	-12.1	20.0
1,2-Dichlorobenzene	Ave	1.579	1.356	0.4000	8.59	10.0	-14.1	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1292	0.1533	0.0500	11.9	10.0	18.6	20.0
2,4- & 2,5- & 2,6-Dichlorotoluene	Ave	1.194	0.9681	0.0100	24.3	30.0	-18.9	20.0
2,3- & 3,4- Dichlorotoluene	Ave	1.161	0.8948	0.0100	15.4	20.0	-22.9*	20.0
1,2,4-Trichlorobenzene	Ave	0.8219	0.5692	0.2000	6.93	10.0	-30.7*	20.0
Hexachlorobutadiene	Ave	0.3941	0.3170	0.0100	8.04	10.0	-19.6	20.0
Naphthalene	Ave	2.158	1.411	0.0100	6.54	10.0	-34.6*	20.0
1,2,3-Trichlorobenzene	Ave	0.6740	0.4447	0.0100	6.60	10.0	-34.0*	20.0
2,4,5-Trichlorotoluene	Ave	0.3624	0.1837	0.0100	5.07	10.0	-49.3*	20.0
2,3,6-Trichlorotoluene	Ave	0.3273	0.1842	0.0100	5.63	10.0	-43.7*	20.0
Dibromofluoromethane (Surr)	Ave	0.2274	0.2027		8.91	10.0	-10.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2998	0.2630		8.77	10.0	-12.3	20.0
Toluene-d8 (Surr)	Ave	3.986	3.932		9.86	10.0	-1.4	20.0
4-Bromofluorobenzene (Surr)	Ave	1.436	1.315		9.16	10.0	-8.4	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150422-6584.b\50422002.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 22-Apr-2015 11:10:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 180-0006584-002
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub12
 Method: \\PITCHROM\ChromData\CHHP5\20150422-6584.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 22-Apr-2015 13:24:53 Calib Date: 14-Apr-2015 13:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150414-6459.b\50414005.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: fergusond

Date: 22-Apr-2015 11:41:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.317	4.317	0.000	0	171608	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.274	7.274	0.000	98	490767	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.364	10.364	0.000	88	106446	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.682	12.682	0.000	93	159586	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.526	6.526	0.000	77	99471	50.0	44.6	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.897	6.897	0.000	0	129050	50.0	43.9	
\$ 7 Toluene-d8 (Surr)	98	8.923	8.923	0.000	93	418528	50.0	49.3	
\$ 8 4-Bromofluorobenzene (Surr	95	11.532	11.532	0.000	86	140023	50.0	45.8	
11 Dichlorodifluoromethane	85	1.629	1.629	0.000	98	121490	50.0	57.8	
12 Chloromethane	50	1.793	1.793	0.000	99	165965	50.0	57.2	
13 Vinyl chloride	62	1.921	1.921	0.000	99	167063	50.0	51.5	
14 Butadiene	39	1.963	1.963	0.000	98	185373	50.0	50.0	
15 Bromomethane	94	2.273	2.273	0.000	91	97370	50.0	55.9	
16 Chloroethane	64	2.432	2.432	0.000	99	112310	50.0	50.0	
17 Dichlorofluoromethane	67	2.669	2.669	0.000	96	243594	50.0	47.5	
18 Trichlorofluoromethane	101	2.717	2.717	0.000	97	188831	50.0	48.5	
20 Ethyl ether	59	3.101	3.101	0.000	95	123263	50.0	48.0	
21 Acrolein	56	3.259	3.259	0.000	99	42558	150.0	136.5	
22 1,1-Dichloroethene	96	3.405	3.405	0.000	97	138398	50.0	48.9	
23 1,1,2-Trichloro-1,2,2-trif	101	3.454	3.454	0.000	95	148606	50.0	51.9	
24 Acetone	43	3.508	3.508	0.000	98	106552	100.0	106.0	
25 Iodomethane	142	3.636	3.636	0.000	94	184954	50.0	47.0	
26 Carbon disulfide	76	3.685	3.685	0.000	100	372073	50.0	53.8	
28 3-Chloro-1-propene	76	3.952	3.952	0.000	89	79262	50.0	53.0	
30 Methyl acetate	43	4.025	4.025	0.000	99	606349	250.0	257.8	
31 Methylene Chloride	84	4.147	4.147	0.000	96	152036	50.0	46.5	
32 2-Methyl-2-propanol	59	4.451	4.451	0.000	99	99615	500.0	492.8	
33 Acrylonitrile	53	4.555	4.555	0.000	99	615983	500.0	509.1	
34 trans-1,2-Dichloroethene	96	4.567	4.567	0.000	96	136854	50.0	46.8	
35 Methyl tert-butyl ether	73	4.603	4.603	0.000	96	311450	50.0	48.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.987	4.987	0.000	96	214649	50.0	45.9	
37 1,1-Dichloroethane	63	5.169	5.169	0.000	97	262557	50.0	50.3	
38 Vinyl acetate	43	5.297	5.297	0.000	97	234953	50.0	63.4	
44 2,2-Dichloropropane	77	5.923	5.923	0.000	66	95682	50.0	73.3	
45 cis-1,2-Dichloroethene	96	5.936	5.936	0.000	83	139994	50.0	45.4	
46 2-Butanone (MEK)	43	5.990	5.990	0.000	100	146982	100.0	91.4	
49 Chlorobromomethane	128	6.228	6.228	0.000	95	59831	50.0	44.8	
51 Tetrahydrofuran	42	6.282	6.282	0.000	89	86799	100.0	86.2	
52 Chloroform	83	6.343	6.343	0.000	96	228511	50.0	48.1	
53 1,1,1-Trichloroethane	97	6.532	6.532	0.000	96	172151	50.0	56.8	
54 Cyclohexane	56	6.587	6.587	0.000	91	269469	50.0	46.3	
56 Carbon tetrachloride	117	6.720	6.720	0.000	97	164948	50.0	67.8	
55 1,1-Dichloropropene	75	6.726	6.726	0.000	92	179433	50.0	45.6	
57 Isobutyl alcohol	41	6.939	6.939	0.000	91	98277	1250.0	1500.2	
58 Benzene	78	6.952	6.952	0.000	97	574199	50.0	49.4	
59 1,2-Dichloroethane	62	6.988	6.988	0.000	97	171499	50.0	45.0	
62 n-Heptane	43	7.280	7.280	0.000	91	187196	50.0	46.9	
64 Trichloroethene	130	7.663	7.663	0.000	97	136496	50.0	46.8	
66 Methylcyclohexane	83	7.864	7.864	0.000	92	236108	50.0	45.4	
67 1,2-Dichloropropane	63	7.901	7.901	0.000	93	140220	50.0	48.7	
68 Dibromomethane	93	8.022	8.022	0.000	95	75129	50.0	48.5	
70 1,4-Dioxane	88	8.053	8.053	0.000	93	25980	1000.0	857.7	M
71 Dichlorobromomethane	83	8.199	8.199	0.000	97	163968	50.0	51.9	
73 2-Chloroethyl vinyl ether	63	8.521	8.521	0.000	92	151749	100.0	93.6	
74 cis-1,3-Dichloropropene	75	8.661	8.661	0.000	92	183649	50.0	60.2	
75 4-Methyl-2-pentanone (MIBK)	43	8.819	8.819	0.000	98	276641	100.0	96.0	
76 Toluene	91	8.990	8.990	0.000	98	585576	50.0	53.7	
77 trans-1,3-Dichloropropene	75	9.221	9.221	0.000	97	141822	50.0	72.0	
78 Ethyl methacrylate	69	9.318	9.318	0.000	90	130807	50.0	50.9	
79 1,1,2-Trichloroethane	97	9.397	9.397	0.000	92	105552	50.0	51.6	
80 Tetrachloroethene	164	9.537	9.537	0.000	95	108127	50.0	50.7	
81 1,3-Dichloropropane	76	9.561	9.561	0.000	95	193017	50.0	50.8	
82 2-Hexanone	43	9.653	9.653	0.000	98	226283	100.0	102.8	
84 Chlorodibromomethane	129	9.786	9.786	0.000	90	109819	50.0	67.3	
85 Ethylene Dibromide	107	9.902	9.902	0.000	98	100845	50.0	51.7	
86 3-Chlorobenzotrifluoride	180	10.370	10.370	0.000	93	207107	50.0	49.8	
87 Chlorobenzene	112	10.389	10.389	0.000	93	350334	50.0	50.7	
88 4-Chlorobenzotrifluoride	180	10.425	10.425	0.000	95	192667	50.0	47.9	
89 1,1,1,2-Tetrachloroethane	131	10.468	10.468	0.000	95	121709	50.0	68.2	
90 Ethylbenzene	106	10.498	10.498	0.000	99	203113	50.0	51.2	
91 m-Xylene & p-Xylene	106	10.614	10.614	0.000	0	247960	50.0	51.1	
92 o-Xylene	106	11.009	11.009	0.000	96	225088	50.0	47.4	
93 Styrene	104	11.021	11.021	0.000	87	373425	50.0	48.9	
94 Bromoform	173	11.210	11.210	0.000	93	69230	50.0	68.7	
96 2-Chlorobenzotrifluoride	180	11.271	11.271	0.000	97	195253	50.0	47.0	
97 Isopropylbenzene	105	11.380	11.380	0.000	96	576567	50.0	48.7	
99 1,1,2,2-Tetrachloroethane	83	11.672	11.672	0.000	96	146952	50.0	50.1	
100 Bromobenzene	156	11.685	11.685	0.000	97	133741	50.0	45.3	
101 1,2,3-Trichloropropane	110	11.721	11.721	0.000	84	45848	50.0	47.2	
102 trans-1,4-Dichloro-2-buten	53	11.733	11.733	0.000	67	42615	50.0	52.8	
103 N-Propylbenzene	120	11.788	11.788	0.000	99	167088	50.0	45.9	
104 2-Chlorotoluene	126	11.873	11.873	0.000	95	137080	50.0	44.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
105 3-Chlorotoluene	126	11.934	11.934	0.000	94	161438	50.0	47.2	
106 1,3,5-Trimethylbenzene	105	11.958	11.958	0.000	94	477902	50.0	47.0	
107 4-Chlorotoluene	126	11.983	11.983	0.000	98	155869	50.0	47.0	
108 tert-Butylbenzene	119	12.287	12.287	0.000	92	388229	50.0	44.1	
110 1,2,4-Trimethylbenzene	105	12.335	12.335	0.000	97	472890	50.0	45.4	
111 1,2-dichloro-4-(trifluorom	214	12.402	12.402	0.000	98	139325	50.0	42.3	
112 sec-Butylbenzene	105	12.506	12.506	0.000	94	572622	50.0	46.2	
113 1,3-Dichlorobenzene	146	12.615	12.615	0.000	97	239491	50.0	44.0	
114 4-Isopropyltoluene	119	12.652	12.652	0.000	97	474919	50.0	46.4	
115 1,4-Dichlorobenzene	146	12.707	12.707	0.000	95	253270	50.0	45.6	
116 2,4-Dichloro-1-(trifluorom	214	12.755	12.755	0.000	97	125224	50.0	40.6	
118 2,5-Dichlorobenzotrifluori	214	12.804	12.804	0.000	0	142439	50.0	41.3	
120 n-Butylbenzene	91	13.059	13.059	0.000	98	409394	50.0	44.0	
121 1,2-Dichlorobenzene	146	13.078	13.078	0.000	95	216473	50.0	43.0	
122 1,2-Dibromo-3-Chloropropan	75	13.856	13.856	0.000	80	24460	50.0	59.3	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.002	14.002	0.000	0	463461	150.0	121.7	
125 2,3- & 3,4- Dichlorotoluen	125	14.422	14.422	0.000	0	285582	100.0	77.1	
126 1,2,4-Trichlorobenzene	180	14.690	14.690	0.000	92	90843	50.0	34.6	
127 Hexachlorobutadiene	225	14.860	14.860	0.000	96	50584	50.0	40.2	
128 Naphthalene	128	14.939	14.939	0.000	97	225120	50.0	32.7	
129 1,2,3-Trichlorobenzene	180	15.183	15.183	0.000	95	70969	50.0	33.0	
131 2,4,5-Trichlorotoluene	159	15.967	15.967	0.000	0	29314	50.0	25.3	
130 2,3,6-Trichlorotoluene	159	16.065	16.065	0.000	96	29387	50.0	28.1	
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		100.0	98.6	
S 134 1,2-Dichloroethene, Total	96				0		100.0	92.1	
S 135 1,3-Dichloropropene, Total	1				0		100.0	132.2	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260VOAPRI_00110	Amount Added: 2.00	Units: uL	
voaWKetpri Re_00004	Amount Added: 2.00	Units: uL	
voaWeemixPRI_00002	Amount Added: 2.00	Units: uL	
voaW VA pri R_00005	Amount Added: 2.00	Units: uL	
VOAACRPRI_00005	Amount Added: 6.00	Units: uL	
voaW2-cle pri_00006	Amount Added: 2.00	Units: uL	
VOA8260INT_00031	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00033	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150422-6584.b\50422002.D

Injection Date: 22-Apr-2015 11:10:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

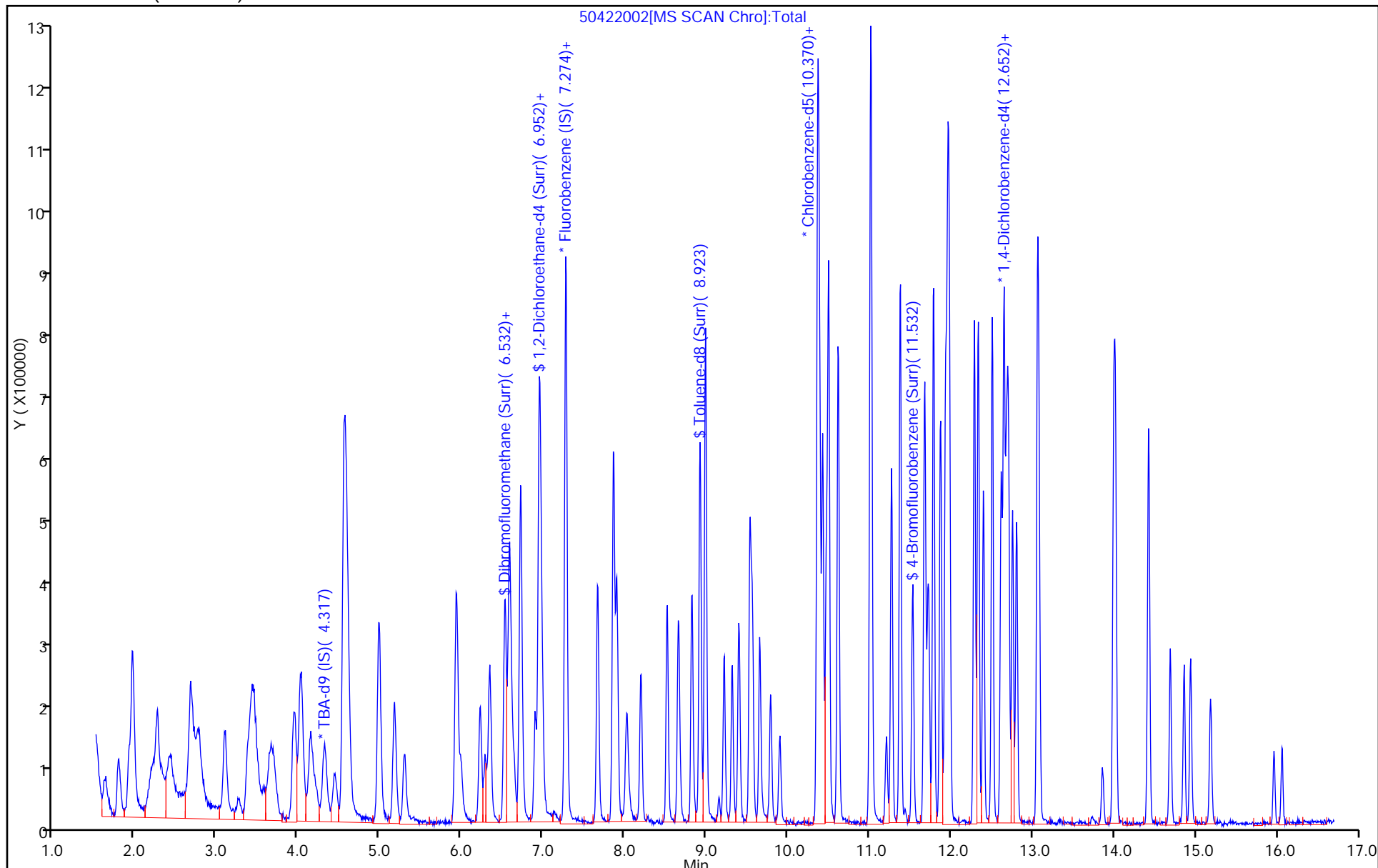
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



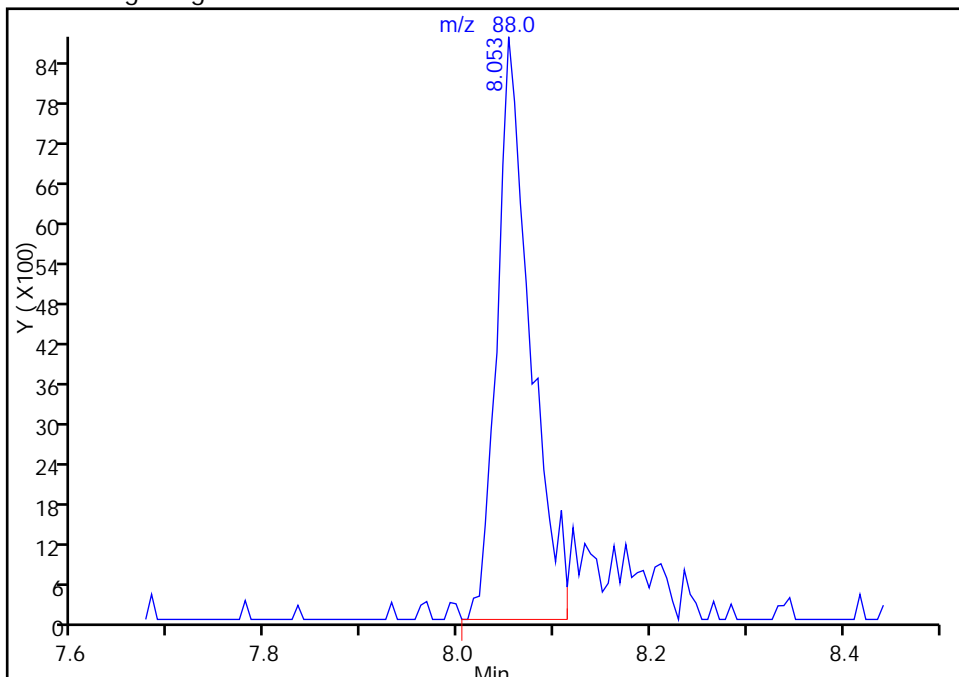
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150422-6584.b\50422002.D
Injection Date: 22-Apr-2015 11:10:30 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

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

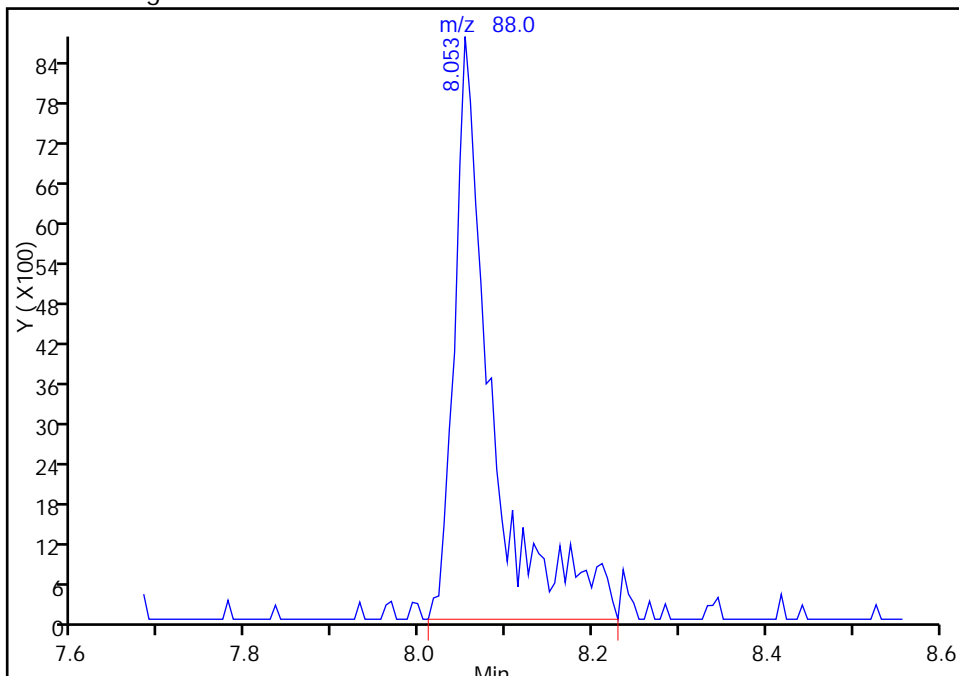
RT: 8.05
Area: 20933
Amount: 691.1116
Amount Units: ng

Processing Integration Results



RT: 8.05
Area: 25980
Amount: 857.7404
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 22-Apr-2015 11:41:10
Audit Action: Manually Integrated
Audit Reason: Peak Tail

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-43185-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-139271/2 Calibration Date: 04/22/2015 11:10
 Instrument ID: CHHP5 Calib Start Date: 03/18/2015 13:31
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/18/2015 16:19
 Lab File ID: 50422002.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
2-Chloroethyl vinyl ether	Ave	0.1652	0.1546	0.0100	18.7	20.0	-6.4	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150422-6584.b\50422002.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 22-Apr-2015 11:10:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 180-0006584-002
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub12
 Method: \\PITCHROM\ChromData\CHHP5\20150422-6584.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 22-Apr-2015 13:24:53 Calib Date: 14-Apr-2015 13:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150414-6459.b\50414005.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: fergusond

Date: 22-Apr-2015 11:41:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.317	4.317	0.000	0	171608	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.274	7.274	0.000	98	490767	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.364	10.364	0.000	88	106446	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.682	12.682	0.000	93	159586	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.526	6.526	0.000	77	99471	50.0	44.6	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.897	6.897	0.000	0	129050	50.0	43.9	
\$ 7 Toluene-d8 (Surr)	98	8.923	8.923	0.000	93	418528	50.0	49.3	
\$ 8 4-Bromofluorobenzene (Surr	95	11.532	11.532	0.000	86	140023	50.0	45.8	
11 Dichlorodifluoromethane	85	1.629	1.629	0.000	98	121490	50.0	57.8	
12 Chloromethane	50	1.793	1.793	0.000	99	165965	50.0	57.2	
13 Vinyl chloride	62	1.921	1.921	0.000	99	167063	50.0	51.5	
14 Butadiene	39	1.963	1.963	0.000	98	185373	50.0	50.0	
15 Bromomethane	94	2.273	2.273	0.000	91	97370	50.0	55.9	
16 Chloroethane	64	2.432	2.432	0.000	99	112310	50.0	50.0	
17 Dichlorofluoromethane	67	2.669	2.669	0.000	96	243594	50.0	47.5	
18 Trichlorofluoromethane	101	2.717	2.717	0.000	97	188831	50.0	48.5	
20 Ethyl ether	59	3.101	3.101	0.000	95	123263	50.0	48.0	
21 Acrolein	56	3.259	3.259	0.000	99	42558	150.0	136.5	
22 1,1-Dichloroethene	96	3.405	3.405	0.000	97	138398	50.0	48.9	
23 1,1,2-Trichloro-1,2,2-trif	101	3.454	3.454	0.000	95	148606	50.0	51.9	
24 Acetone	43	3.508	3.508	0.000	98	106552	100.0	106.0	
25 Iodomethane	142	3.636	3.636	0.000	94	184954	50.0	47.0	
26 Carbon disulfide	76	3.685	3.685	0.000	100	372073	50.0	53.8	
28 3-Chloro-1-propene	76	3.952	3.952	0.000	89	79262	50.0	53.0	
30 Methyl acetate	43	4.025	4.025	0.000	99	606349	250.0	257.8	
31 Methylene Chloride	84	4.147	4.147	0.000	96	152036	50.0	46.5	
32 2-Methyl-2-propanol	59	4.451	4.451	0.000	99	99615	500.0	492.8	
33 Acrylonitrile	53	4.555	4.555	0.000	99	615983	500.0	509.1	
34 trans-1,2-Dichloroethene	96	4.567	4.567	0.000	96	136854	50.0	46.8	
35 Methyl tert-butyl ether	73	4.603	4.603	0.000	96	311450	50.0	48.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.987	4.987	0.000	96	214649	50.0	45.9	
37 1,1-Dichloroethane	63	5.169	5.169	0.000	97	262557	50.0	50.3	
38 Vinyl acetate	43	5.297	5.297	0.000	97	234953	50.0	63.4	
44 2,2-Dichloropropane	77	5.923	5.923	0.000	66	95682	50.0	73.3	
45 cis-1,2-Dichloroethene	96	5.936	5.936	0.000	83	139994	50.0	45.4	
46 2-Butanone (MEK)	43	5.990	5.990	0.000	100	146982	100.0	91.4	
49 Chlorobromomethane	128	6.228	6.228	0.000	95	59831	50.0	44.8	
51 Tetrahydrofuran	42	6.282	6.282	0.000	89	86799	100.0	86.2	
52 Chloroform	83	6.343	6.343	0.000	96	228511	50.0	48.1	
53 1,1,1-Trichloroethane	97	6.532	6.532	0.000	96	172151	50.0	56.8	
54 Cyclohexane	56	6.587	6.587	0.000	91	269469	50.0	46.3	
56 Carbon tetrachloride	117	6.720	6.720	0.000	97	164948	50.0	67.8	
55 1,1-Dichloropropene	75	6.726	6.726	0.000	92	179433	50.0	45.6	
57 Isobutyl alcohol	41	6.939	6.939	0.000	91	98277	1250.0	1500.2	
58 Benzene	78	6.952	6.952	0.000	97	574199	50.0	49.4	
59 1,2-Dichloroethane	62	6.988	6.988	0.000	97	171499	50.0	45.0	
62 n-Heptane	43	7.280	7.280	0.000	91	187196	50.0	46.9	
64 Trichloroethene	130	7.663	7.663	0.000	97	136496	50.0	46.8	
66 Methylcyclohexane	83	7.864	7.864	0.000	92	236108	50.0	45.4	
67 1,2-Dichloropropane	63	7.901	7.901	0.000	93	140220	50.0	48.7	
68 Dibromomethane	93	8.022	8.022	0.000	95	75129	50.0	48.5	
70 1,4-Dioxane	88	8.053	8.053	0.000	93	25980	1000.0	857.7	M
71 Dichlorobromomethane	83	8.199	8.199	0.000	97	163968	50.0	51.9	
73 2-Chloroethyl vinyl ether	63	8.521	8.521	0.000	92	151749	100.0	93.6	
74 cis-1,3-Dichloropropene	75	8.661	8.661	0.000	92	183649	50.0	60.2	
75 4-Methyl-2-pentanone (MIBK)	43	8.819	8.819	0.000	98	276641	100.0	96.0	
76 Toluene	91	8.990	8.990	0.000	98	585576	50.0	53.7	
77 trans-1,3-Dichloropropene	75	9.221	9.221	0.000	97	141822	50.0	72.0	
78 Ethyl methacrylate	69	9.318	9.318	0.000	90	130807	50.0	50.9	
79 1,1,2-Trichloroethane	97	9.397	9.397	0.000	92	105552	50.0	51.6	
80 Tetrachloroethene	164	9.537	9.537	0.000	95	108127	50.0	50.7	
81 1,3-Dichloropropane	76	9.561	9.561	0.000	95	193017	50.0	50.8	
82 2-Hexanone	43	9.653	9.653	0.000	98	226283	100.0	102.8	
84 Chlorodibromomethane	129	9.786	9.786	0.000	90	109819	50.0	67.3	
85 Ethylene Dibromide	107	9.902	9.902	0.000	98	100845	50.0	51.7	
86 3-Chlorobenzotrifluoride	180	10.370	10.370	0.000	93	207107	50.0	49.8	
87 Chlorobenzene	112	10.389	10.389	0.000	93	350334	50.0	50.7	
88 4-Chlorobenzotrifluoride	180	10.425	10.425	0.000	95	192667	50.0	47.9	
89 1,1,1,2-Tetrachloroethane	131	10.468	10.468	0.000	95	121709	50.0	68.2	
90 Ethylbenzene	106	10.498	10.498	0.000	99	203113	50.0	51.2	
91 m-Xylene & p-Xylene	106	10.614	10.614	0.000	0	247960	50.0	51.1	
92 o-Xylene	106	11.009	11.009	0.000	96	225088	50.0	47.4	
93 Styrene	104	11.021	11.021	0.000	87	373425	50.0	48.9	
94 Bromoform	173	11.210	11.210	0.000	93	69230	50.0	68.7	
96 2-Chlorobenzotrifluoride	180	11.271	11.271	0.000	97	195253	50.0	47.0	
97 Isopropylbenzene	105	11.380	11.380	0.000	96	576567	50.0	48.7	
99 1,1,2,2-Tetrachloroethane	83	11.672	11.672	0.000	96	146952	50.0	50.1	
100 Bromobenzene	156	11.685	11.685	0.000	97	133741	50.0	45.3	
101 1,2,3-Trichloropropane	110	11.721	11.721	0.000	84	45848	50.0	47.2	
102 trans-1,4-Dichloro-2-buten	53	11.733	11.733	0.000	67	42615	50.0	52.8	
103 N-Propylbenzene	120	11.788	11.788	0.000	99	167088	50.0	45.9	
104 2-Chlorotoluene	126	11.873	11.873	0.000	95	137080	50.0	44.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
105 3-Chlorotoluene	126	11.934	11.934	0.000	94	161438	50.0	47.2	
106 1,3,5-Trimethylbenzene	105	11.958	11.958	0.000	94	477902	50.0	47.0	
107 4-Chlorotoluene	126	11.983	11.983	0.000	98	155869	50.0	47.0	
108 tert-Butylbenzene	119	12.287	12.287	0.000	92	388229	50.0	44.1	
110 1,2,4-Trimethylbenzene	105	12.335	12.335	0.000	97	472890	50.0	45.4	
111 1,2-dichloro-4-(trifluorom	214	12.402	12.402	0.000	98	139325	50.0	42.3	
112 sec-Butylbenzene	105	12.506	12.506	0.000	94	572622	50.0	46.2	
113 1,3-Dichlorobenzene	146	12.615	12.615	0.000	97	239491	50.0	44.0	
114 4-Isopropyltoluene	119	12.652	12.652	0.000	97	474919	50.0	46.4	
115 1,4-Dichlorobenzene	146	12.707	12.707	0.000	95	253270	50.0	45.6	
116 2,4-Dichloro-1-(trifluorom	214	12.755	12.755	0.000	97	125224	50.0	40.6	
118 2,5-Dichlorobenzotrifluori	214	12.804	12.804	0.000	0	142439	50.0	41.3	
120 n-Butylbenzene	91	13.059	13.059	0.000	98	409394	50.0	44.0	
121 1,2-Dichlorobenzene	146	13.078	13.078	0.000	95	216473	50.0	43.0	
122 1,2-Dibromo-3-Chloropropan	75	13.856	13.856	0.000	80	24460	50.0	59.3	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.002	14.002	0.000	0	463461	150.0	121.7	
125 2,3- & 3,4- Dichlorotoluen	125	14.422	14.422	0.000	0	285582	100.0	77.1	
126 1,2,4-Trichlorobenzene	180	14.690	14.690	0.000	92	90843	50.0	34.6	
127 Hexachlorobutadiene	225	14.860	14.860	0.000	96	50584	50.0	40.2	
128 Naphthalene	128	14.939	14.939	0.000	97	225120	50.0	32.7	
129 1,2,3-Trichlorobenzene	180	15.183	15.183	0.000	95	70969	50.0	33.0	
131 2,4,5-Trichlorotoluene	159	15.967	15.967	0.000	0	29314	50.0	25.3	
130 2,3,6-Trichlorotoluene	159	16.065	16.065	0.000	96	29387	50.0	28.1	
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		100.0	98.6	
S 134 1,2-Dichloroethene, Total	96				0		100.0	92.1	
S 135 1,3-Dichloropropene, Total	1				0		100.0	132.2	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260VOAPRI_00110	Amount Added: 2.00	Units: uL	
voaWKetpri Re_00004	Amount Added: 2.00	Units: uL	
voaWeemixPRI_00002	Amount Added: 2.00	Units: uL	
voaW VA pri R_00005	Amount Added: 2.00	Units: uL	
VOAACRPRI_00005	Amount Added: 6.00	Units: uL	
voaW2-cle pri_00006	Amount Added: 2.00	Units: uL	
VOA8260INT_00031	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00033	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150422-6584.b\50422002.D

Injection Date: 22-Apr-2015 11:10:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

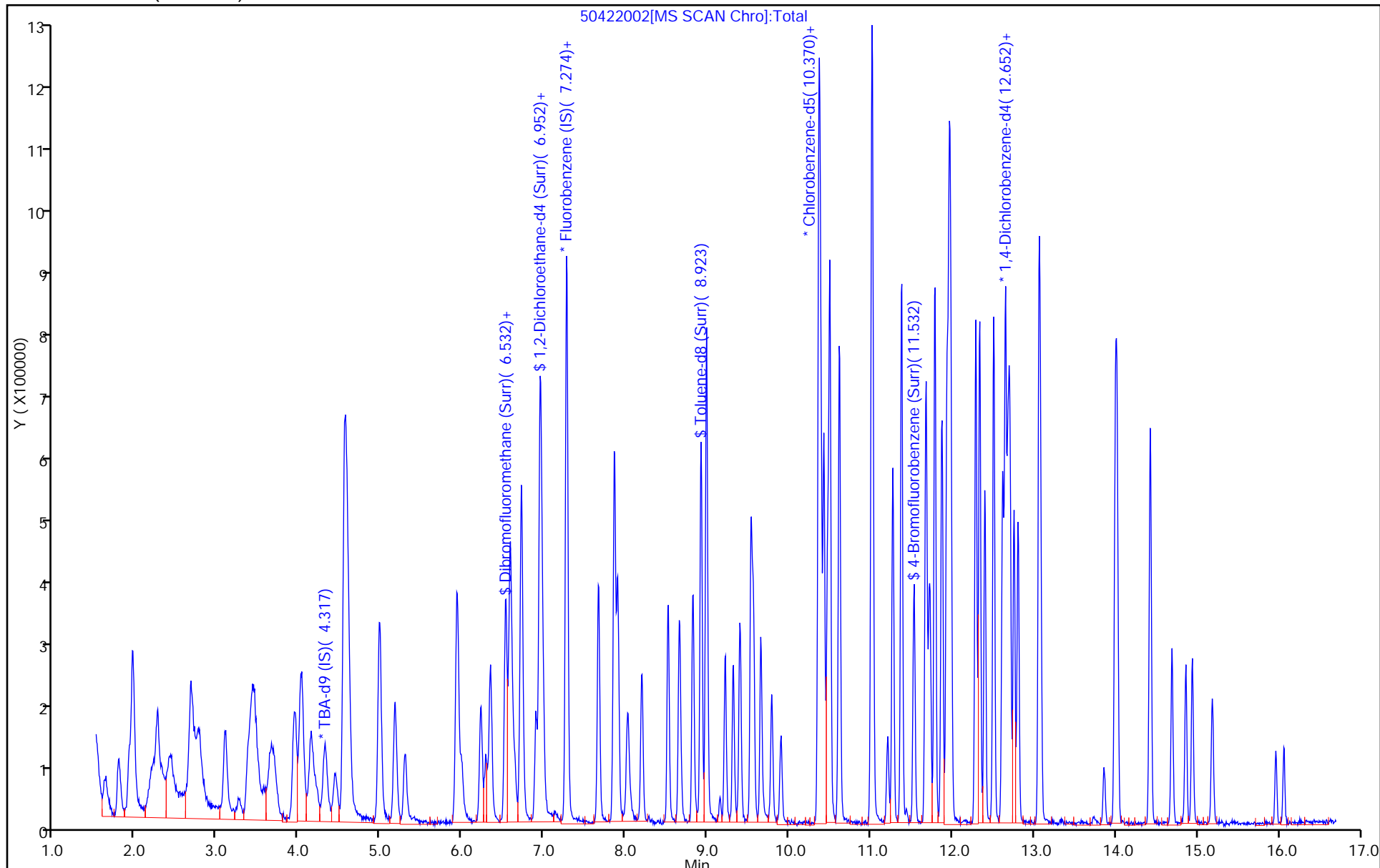
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316001.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 16-Mar-2015 10:49:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 180-0006031-001
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 17-Mar-2015 10:59:24 Calib Date: 16-Mar-2015 16:17:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: fergusond Date: 16-Mar-2015 11:15:59

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	133980	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

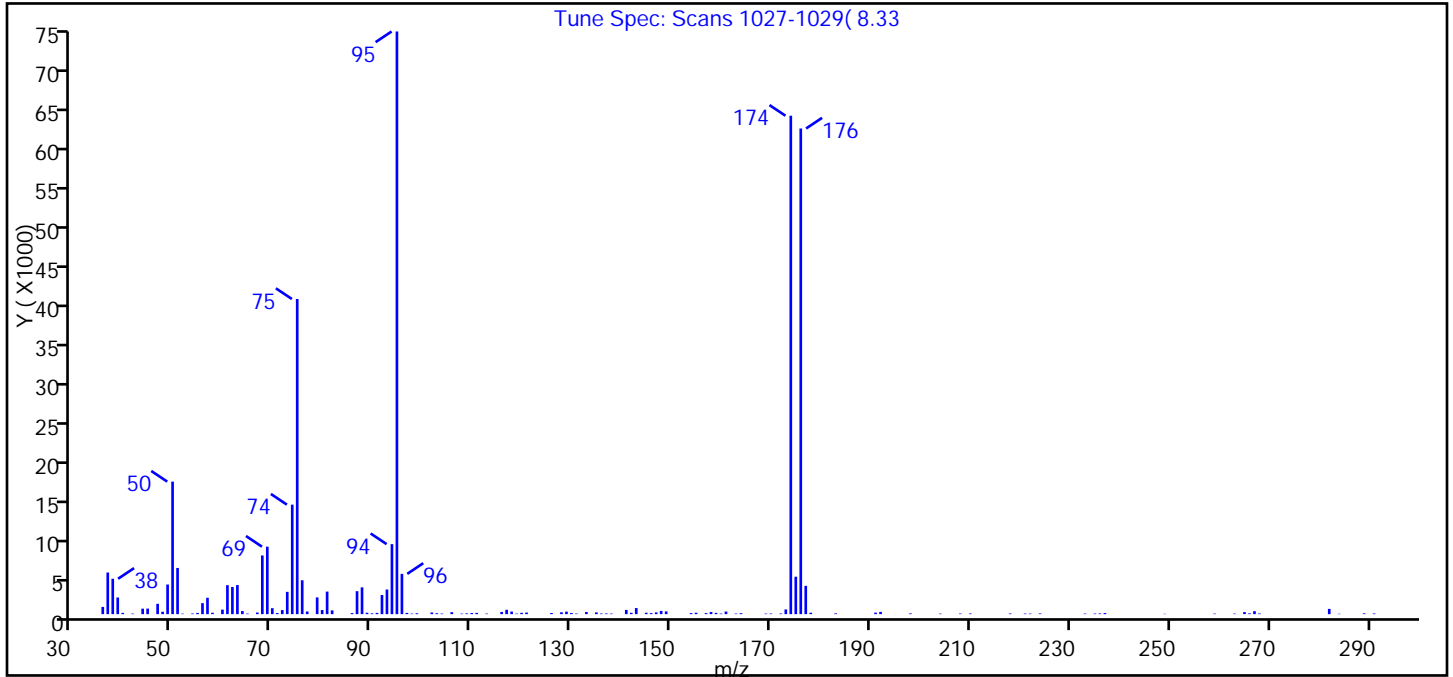
Reagents:

VOA BFB 25_00001 Amount Added: 1.00 Units: uL

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316001.D
 Injection Date: 16-Mar-2015 10:49:30 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	22.7
75	30 to 60% of m/z 95	54.1
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.8 (0.9)
174	50 to 120% of m/z 95	85.5
175	5 to 9% of m/z 174	6.4 (7.5)
176	Greater than 95% but less than 101% of m/z 174	83.4 (97.4)
177	5 to 9% of m/z 176	4.9 (5.8)

Data File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316001.D\MSVOA_LL_CHHP5.rslt\spectra.d
Injection Date: 16-Mar-2015 10:49:30
Spectrum: Tune Spec: Scans 1027-1029(8.33
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 132

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	922	75.00	40336	119.00	71	173.00	604
37.00	5329	76.00	4335	120.00	170	174.00	63792
38.00	4528	77.00	339	121.00	203	175.00	4791
39.00	2130	79.00	2142	126.00	145	176.00	62160
40.00	163	80.00	527	128.00	241	177.00	3622
42.00	71	81.00	2886	129.00	320	178.00	182
44.00	700	82.00	482	130.00	150	183.00	99
45.00	713	86.00	138	131.00	72	191.00	196
47.00	1323	87.00	2939	133.00	273	192.00	286
48.00	310	88.00	3429	135.00	226	195.00	9
49.00	3792	89.00	182	136.00	81	198.00	98
50.00	16960	90.00	101	137.00	87	204.00	68
51.00	5912	91.00	160	138.00	71	208.00	75
52.00	63	92.00	2448	141.00	541	210.00	85
54.00	83	93.00	3152	142.00	172	218.00	87
55.00	155	94.00	8961	143.00	779	221.00	76
56.00	1409	95.00	74576	145.00	182	222.00	70
57.00	2093	96.00	5155	146.00	133	224.00	88
58.00	180	97.00	159	147.00	227	233.00	73
60.00	582	98.00	71	148.00	412	235.00	76
61.00	3707	99.00	112	149.00	352	236.00	88
62.00	3479	102.00	212	154.00	135	237.00	141
63.00	3721	103.00	120	155.00	179	249.00	43
64.00	392	104.00	75	157.00	135	259.00	70
65.00	71	106.00	253	158.00	274	263.00	71
67.00	207	108.00	68	159.00	163	265.00	262
68.00	7510	109.00	97	160.00	73	266.00	100
69.00	8635	110.00	146	161.00	334	267.00	377
70.00	764	111.00	161	163.00	71	268.00	85
71.00	139	113.00	71	164.00	125	282.00	672
72.00	524	116.00	278	169.00	70	284.00	50
73.00	2854	117.00	558	170.00	78	289.00	99
74.00	14015	118.00	332	172.00	82	291.00	87

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	922	75.00	40336	119.00	71	173.00	604
37.00	5329	76.00	4335	120.00	170	174.00	63792
38.00	4528	77.00	339	121.00	203	175.00	4791
39.00	2130	79.00	2142	126.00	145	176.00	62160
40.00	163	80.00	527	128.00	241	177.00	3622
42.00	71	81.00	2886	129.00	320	178.00	182
44.00	700	82.00	482	130.00	150	183.00	99
45.00	713	86.00	138	131.00	72	191.00	196
47.00	1323	87.00	2939	133.00	273	192.00	286
48.00	310	88.00	3429	135.00	226	195.00	9
49.00	3792	89.00	182	136.00	81	198.00	98
50.00	16960	90.00	101	137.00	87	204.00	68
51.00	5912	91.00	160	138.00	71	208.00	75
52.00	63	92.00	2448	141.00	541	210.00	85
54.00	83	93.00	3152	142.00	172	218.00	87
55.00	155	94.00	8961	143.00	779	221.00	76
56.00	1409	95.00	74576	145.00	182	222.00	70
57.00	2093	96.00	5155	146.00	133	224.00	88
58.00	180	97.00	159	147.00	227	233.00	73
60.00	582	98.00	71	148.00	412	235.00	76
61.00	3707	99.00	112	149.00	352	236.00	88
62.00	3479	102.00	212	154.00	135	237.00	141
63.00	3721	103.00	120	155.00	179	249.00	43
64.00	392	104.00	75	157.00	135	259.00	70
65.00	71	106.00	253	158.00	274	263.00	71
67.00	207	108.00	68	159.00	163	265.00	262
68.00	7510	109.00	97	160.00	73	266.00	100
69.00	8635	110.00	146	161.00	334	267.00	377
70.00	764	111.00	161	163.00	71	268.00	85
71.00	139	113.00	71	164.00	125	282.00	672
72.00	524	116.00	278	169.00	70	284.00	50
73.00	2854	117.00	558	170.00	78	289.00	99
74.00	14015	118.00	332	172.00	82	291.00	87

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150316-6031.b\50316001.D

Injection Date: 16-Mar-2015 10:49:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 mL

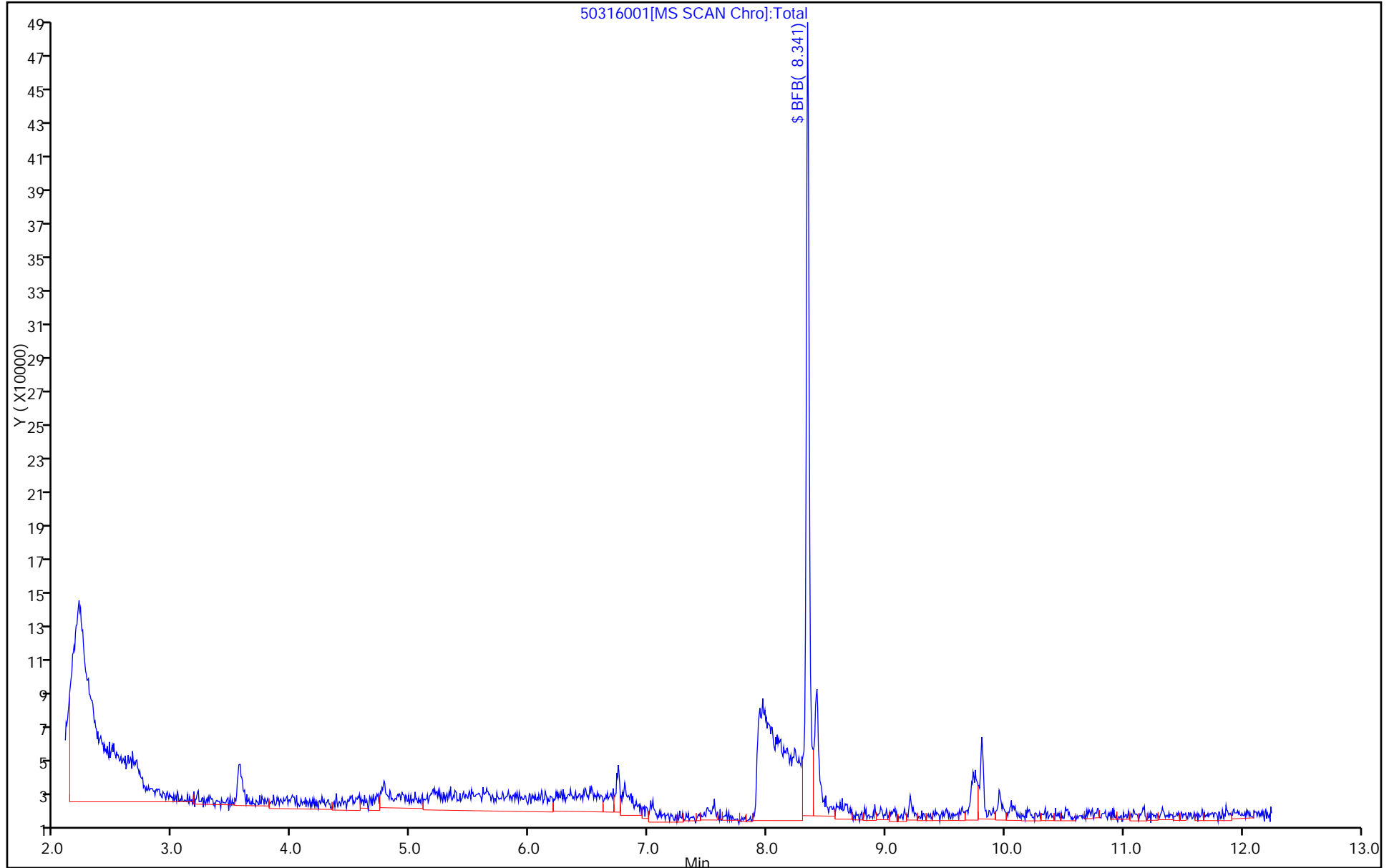
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150421-6566.b\50421004.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 21-Apr-2015 10:57:30 ALS Bottle#: 1 Worklist Smp#: 4
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 180-0006566-004
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\PITCHROM\ChromData\CHHP5\20150421-6566.b\MMSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 21-Apr-2015 13:20:22 Calib Date: 14-Apr-2015 13:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150414-6459.b\50414005.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK037

First Level Reviewer: fergusond Date: 21-Apr-2015 11:10:42

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	8.335	8.335	0.000	0	265421	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

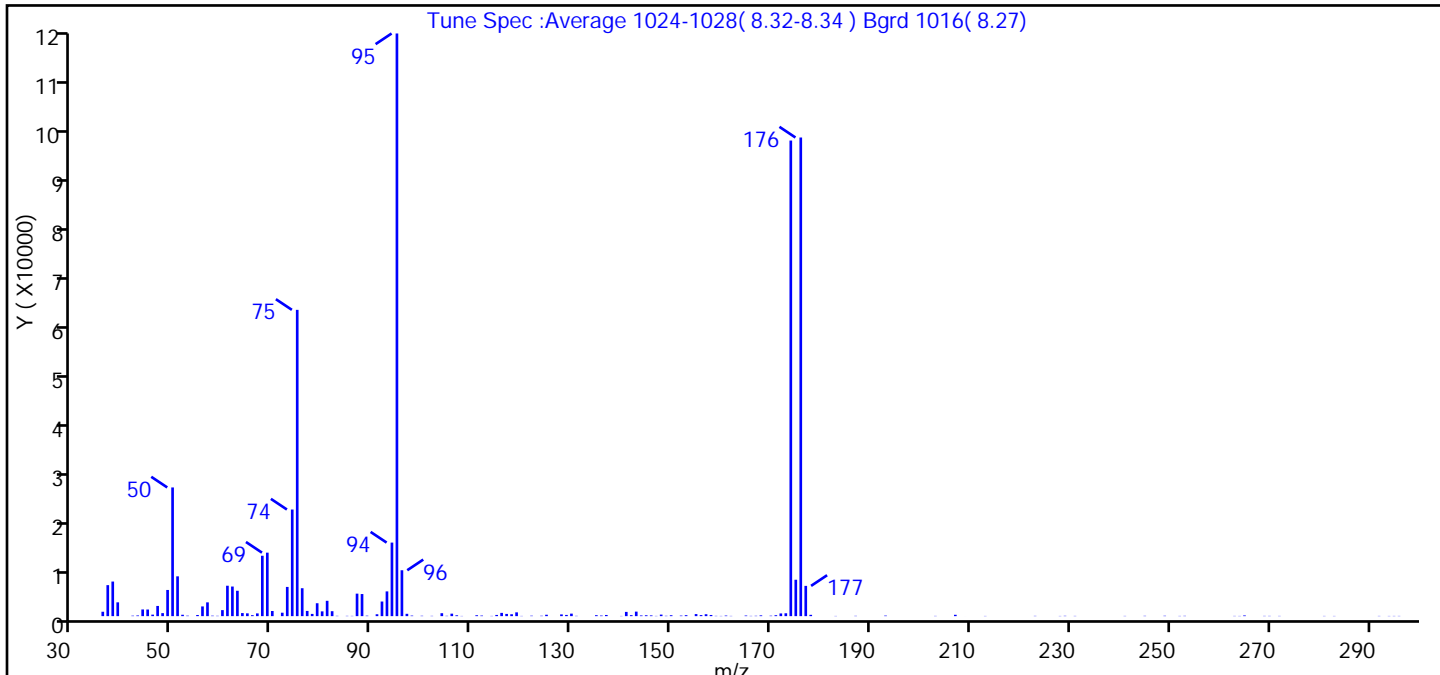
Reagents:

VOABFB25_00060 Amount Added: 1.00 Units: uL

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150421-6566.b\50421004.D
 Injection Date: 21-Apr-2015 10:57:30 Instrument ID: CHHP5
 Lims ID: BFB
 Client ID:
 Operator ID: 001562 ALS Bottle#: 1 Worklist Smp#: 4
 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	22.1
75	30 to 60% of m/z 95	52.6
96	5 to 9% of m/z 95	7.9
173	Less than 2% of m/z 174	0.5 (0.6)
174	50 to 120% of m/z 95	81.6
175	5 to 9% of m/z 174	6.2 (7.7)
176	Greater than 95% but less than 101% of m/z 174	82.1 (100.6)
177	5 to 9% of m/z 176	5.2 (6.3)

Data File: \\PITCHROM\ChromData\CHHP5\20150421-6566.b\50421004.D\MSVOA_LL_CHHP5.rslt\spectra.d
Injection Date: 21-Apr-2015 10:57:30
Spectrum: Tune Spec :Average 1024-1028(8.32-8.34) Bgrd 1016(8.27)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 145

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	854	77.00	1009	124.00	76	173.00	559
37.00	6011	78.00	434	125.00	271	174.00	92208
38.00	6707	79.00	2503	128.00	334	175.00	7058
39.00	2678	80.00	927	129.00	236	176.00	92800
42.00	89	81.00	2973	130.00	487	177.00	5868
43.00	132	82.00	960	131.00	56	178.00	256
44.00	1294	83.00	59	135.00	184	183.00	40
45.00	1284	85.00	55	136.00	115	187.00	58
46.00	290	86.00	49	137.00	226	193.00	105
47.00	1977	87.00	4362	140.00	40	203.00	47
48.00	586	88.00	4286	141.00	823	207.00	262
49.00	5076	89.00	89	142.00	189	209.00	2
50.00	24952	91.00	366	143.00	876	213.00	40
51.00	7719	92.00	2834	144.00	132	223.00	53
52.00	268	93.00	4799	145.00	169	228.00	40
53.00	90	94.00	14261	146.00	141	229.00	64
55.00	223	95.00	112968	147.00	44	231.00	46
56.00	1883	96.00	8897	148.00	299	241.00	45
57.00	2673	97.00	452	149.00	65	245.00	61
58.00	89	98.00	107	150.00	172	249.00	72
59.00	62	100.00	72	152.00	106	252.00	44
60.00	1169	102.00	54	153.00	186	253.00	60
61.00	5896	104.00	569	155.00	401	263.00	46
62.00	5740	105.00	61	156.00	204	264.00	41
63.00	4917	106.00	483	157.00	371	265.00	134
64.00	597	107.00	164	158.00	225	269.00	50
65.00	544	108.00	40	159.00	54	270.00	49
66.00	188	111.00	175	160.00	43	272.00	45
67.00	533	112.00	113	161.00	113	281.00	42
68.00	11708	114.00	46	162.00	46	283.00	40
69.00	12310	115.00	233	165.00	117	292.00	44
70.00	996	116.00	633	166.00	50	294.00	40
72.00	666	117.00	431	167.00	68	295.00	43

Report Date: 21-Apr-2015 13:20:23

Chrom Revision: 2.2 09-Apr-2015 10:05:40

Data File: \\PITCHROM\ChromData\CHHP5\20150421-6566.b\50421004.D\MSVOA_LL_CHHP5.rslt\spectra.d

Injection Date: 21-Apr-2015 10:57:30

Spectrum: Tune Spec :Average 1024-1028(8.32-8.34) Bgrd 1016(8.27)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 145

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	5665	118.00	367	168.00	148	296.00	44
74.00	20672	119.00	736	170.00	87		
75.00	59384	120.00	43	171.00	181		
76.00	5415	122.00	85	172.00	525		

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150421-6566.b\50421004.D

Injection Date: 21-Apr-2015 10:57:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: BFB

Worklist Smp#: 4

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)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150422-6584.b\50422001.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 22-Apr-2015 10:27:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 180-0006584-001
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\PITCHROM\ChromData\CHHP5\20150422-6584.b\MMSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 22-Apr-2015 13:24:52 Calib Date: 14-Apr-2015 13:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150414-6459.b\50414005.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: fergusond Date: 22-Apr-2015 10:39:13

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	8.338	8.338	0.000	0	83124	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

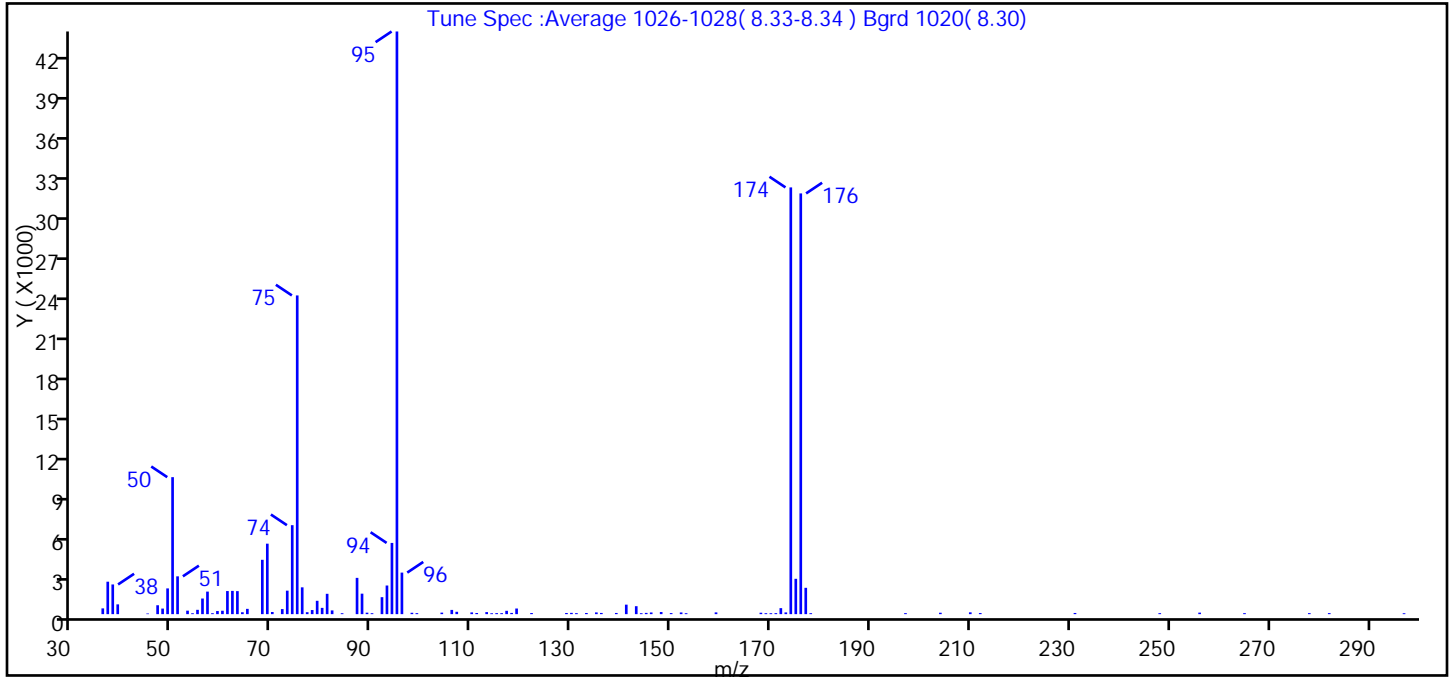
Reagents:

VOABFB25_00060 Amount Added: 1.00 Units: uL

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150422-6584.b\50422001.D
 Injection Date: 22-Apr-2015 10:27:30 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	23.5
75	30 to 60% of m/z 95	54.7
96	5 to 9% of m/z 95	7.1
173	Less than 2% of m/z 174	0.3 (0.4)
174	50 to 120% of m/z 95	73.2
175	5 to 9% of m/z 174	6.1 (8.3)
176	Greater than 95% but less than 101% of m/z 174	72.2 (98.6)
177	5 to 9% of m/z 176	4.5 (6.3)

Data File: \\PITCHROM\ChromData\CHHP5\20150422-6584.b\50422001.D\MSVOA_LL_CHHP5.rslt\spectra.d
Injection Date: 22-Apr-2015 10:27:30
Spectrum: Tune Spec :Average 1026-1028(8.33-8.34) Bgrd 1020(8.30)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 101

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	429	72.00	378	110.00	129	159.00	131
37.00	2417	73.00	1749	111.00	85	168.00	106
38.00	2212	74.00	6628	113.00	153	169.00	71
39.00	729	75.00	23744	114.00	67	170.00	69
45.00	48	76.00	1997	115.00	76	171.00	76
47.00	663	77.00	145	116.00	74	172.00	447
48.00	415	78.00	306	117.00	248	173.00	129
49.00	1918	79.00	994	118.00	91	174.00	31792
50.00	10205	80.00	467	119.00	419	175.00	2632
51.00	2817	81.00	1515	122.00	83	176.00	31344
53.00	259	82.00	279	129.00	86	177.00	1961
54.00	67	84.00	69	130.00	96	178.00	72
55.00	322	87.00	2702	131.00	74	197.00	76
56.00	1164	88.00	1526	133.00	86	204.00	105
57.00	1679	89.00	110	135.00	129	210.00	135
58.00	70	90.00	71	136.00	90	212.00	82
59.00	231	92.00	1264	139.00	88	231.00	87
60.00	254	93.00	2133	141.00	707	248.00	74
61.00	1720	94.00	5306	143.00	593	256.00	113
62.00	1732	95.00	43408	144.00	70	265.00	74
63.00	1715	96.00	3095	145.00	93	278.00	76
64.00	141	98.00	102	146.00	125	282.00	78
65.00	394	99.00	75	148.00	157	297.00	67
68.00	4049	104.00	113	150.00	80		
69.00	5250	106.00	315	152.00	126		
70.00	160	107.00	176	153.00	70		

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150422-6584.b\50422001.D

Injection Date: 22-Apr-2015 10:27:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 mL

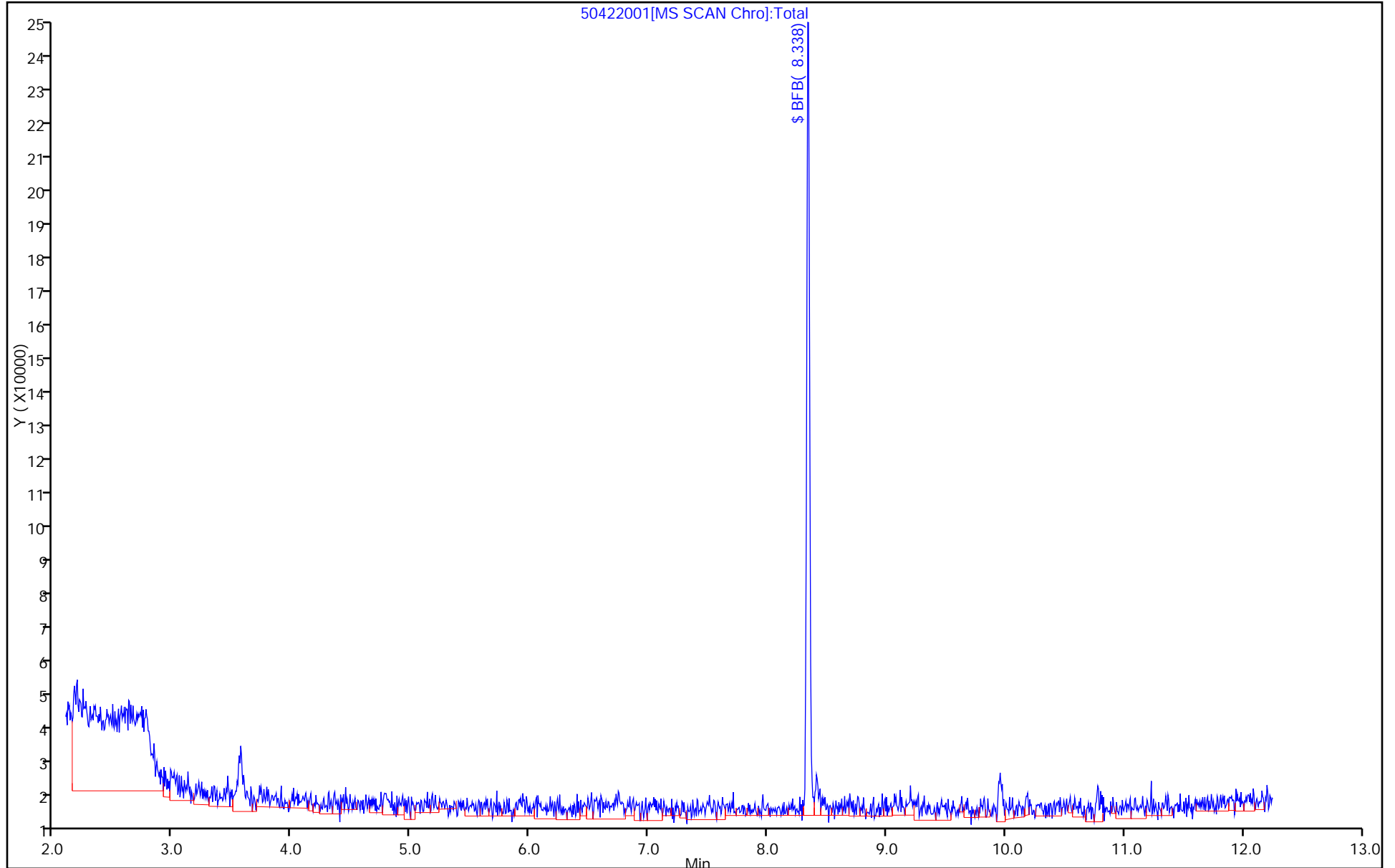
Dil. Factor: 1.0000

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.: 180-43185-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 180-139148/6
 Matrix: Water Lab File ID: 50421006.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 04/21/2015 12:50
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 139148 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.: 180-43185-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 180-139148/6
 Matrix: Water Lab File ID: 50421006.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 04/21/2015 12:50
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 139148 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)	116		64-135
2037-26-5	Toluene-d8 (Surr)	104		71-118
460-00-4	4-Bromofluorobenzene (Surr)	88		70-118
1868-53-7	Dibromofluoromethane (Surr)	105		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150421-6566.b\50421006.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 21-Apr-2015 12:50:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 180-0006566-006
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\PITCHROM\ChromData\CHHP5\20150421-6566.b\MMSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 21-Apr-2015 13:46:07 Calib Date: 14-Apr-2015 13:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150414-6459.b\50414005.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK037

First Level Reviewer: fergusond

Date: 21-Apr-2015 13:20:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.298	4.309	-0.011	0	177829	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.279	7.277	0.002	98	527912	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.363	10.362	0.001	88	115506	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.681	12.686	-0.005	97	151681	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.531	6.531	0.000	92	125926	50.0	52.4	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.902	6.902	0.000	0	183920	50.0	58.1	
\$ 7 Toluene-d8 (Surr)	98	8.928	8.922	0.006	94	477109	50.0	51.8	
\$ 8 4-Bromofluorobenzene (Surr	95	11.531	11.532	-0.001	88	146260	50.0	44.1	
11 Dichlorodifluoromethane	85		1.616					ND	
12 Chloromethane	50		1.792					ND	
13 Vinyl chloride	62		1.914					ND	
14 Butadiene	39		1.962					ND	
15 Bromomethane	94		2.260					ND	
16 Chloroethane	64		2.406					ND	
17 Dichlorofluoromethane	67		2.668					ND	
18 Trichlorofluoromethane	101		2.729					ND	
19 Ethanol	45		3.019					ND	
20 Ethyl ether	59		3.088					ND	
21 Acrolein	56		3.258					ND	
22 1,1-Dichloroethene	96		3.410					ND	
23 1,1,2-Trichloro-1,2,2-trif	101		3.447					ND	
24 Acetone	43		3.502					ND	
25 Iodomethane	142		3.623					ND	
26 Carbon disulfide	76		3.672					ND	
27 Isopropyl alcohol	45		3.786					ND	
29 Acetonitrile	40		3.932					ND	
28 3-Chloro-1-propene	76		3.946					ND	
30 Methyl acetate	43		4.025					ND	
31 Methylene Chloride	84	4.164	4.140	0.024	36	1862		0.5289	M
32 2-Methyl-2-propanol	59		4.438					ND	
33 Acrylonitrile	53		4.554					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		4.560					ND	
35 Methyl tert-butyl ether	73		4.597					ND	
36 Hexane	57		4.980					ND	
37 1,1-Dichloroethane	63		5.174					ND	
38 Vinyl acetate	43		5.296					ND	
39 2-Chloro-1,3-butadiene	53		5.306					ND	
41 Isopropyl ether	45		5.325					ND	
40 Isopropyl ether TIC	45		5.409					ND	
42 Tert-butyl ethyl ether	59		5.799					ND	
44 2,2-Dichloropropane	77		5.929					ND	
45 cis-1,2-Dichloroethene	96		5.941					ND	
43 Tert-butyl ethyl ether (TI	59		5.961					ND	
46 2-Butanone (MEK)	43		5.984					ND	
47 Propionitrile	54		6.061					ND	
48 Ethyl acetate	43		6.091					ND	
49 Chlorobromomethane	128		6.227					ND	
50 Methacrylonitrile	41		6.243					ND	
51 Tetrahydrofuran	42		6.282					ND	
52 Chloroform	83		6.343					ND	
53 1,1,1-Trichloroethane	97		6.525					ND	
54 Cyclohexane	56		6.586					ND	
56 Carbon tetrachloride	117		6.720					ND	
55 1,1-Dichloropropene	75		6.726					ND	
57 Isobutyl alcohol	41		6.951					ND	
58 Benzene	78		6.957					ND	
59 1,2-Dichloroethane	62		6.981					ND	
61 Tert-amyl methyl ether	73		7.113					ND	
60 Tert-amyl methyl ether (TI	73	7.279	7.262	0.017	37	6888		0.6524	
62 n-Heptane	43		7.273					ND	
63 n-Butanol	56		7.655					ND	
64 Trichloroethene	130		7.663					ND	
65 Ethyl acrylate	55		7.813					ND	
66 Methylcyclohexane	83		7.863					ND	
67 1,2-Dichloropropane	63		7.900					ND	
68 Dibromomethane	93		8.022					ND	
69 Methyl methacrylate	69		8.050					ND	
70 1,4-Dioxane	88		8.058					ND	
71 Dichlorobromomethane	83		8.198					ND	
72 2-Nitropropane	41		8.439					ND	
73 2-Chloroethyl vinyl ether	63		8.514					ND	
74 cis-1,3-Dichloropropene	75		8.654					ND	
75 4-Methyl-2-pentanone (MIBK	43		8.818					ND	
76 Toluene	91		8.989					ND	
77 trans-1,3-Dichloropropene	75		9.214					ND	
78 Ethyl methacrylate	69		9.317					ND	
79 1,1,2-Trichloroethane	97		9.402					ND	
80 Tetrachloroethene	164		9.536					ND	
81 1,3-Dichloropropane	76		9.561					ND	
82 2-Hexanone	43		9.652					ND	
83 n-Butyl acetate	43		9.784					ND	
84 Chlorodibromomethane	129		9.792					ND	
85 Ethylene Dibromide	107		9.895					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
86 3-Chlorobenzotrifluoride	180		10.370					ND	
87 Chlorobenzene	112		10.388					ND	
88 4-Chlorobenzotrifluoride	180		10.425					ND	
89 1,1,1,2-Tetrachloroethane	131		10.473					ND	
90 Ethylbenzene	106		10.498					ND	
91 m-Xylene & p-Xylene	106		10.619					ND	
92 o-Xylene	106		11.009					ND	
93 Styrene	104		11.027					ND	
94 Bromoform	173		11.209					ND	
95 Cyclohexanol	57		11.231					ND	
96 2-Chlorobenzotrifluoride	180		11.270					ND	
97 Isopropylbenzene	105		11.380					ND	
98 Cyclohexanone	55		11.469					ND	
99 1,1,2,2-Tetrachloroethane	83		11.672					ND	
100 Bromobenzene	156		11.684					ND	
101 1,2,3-Trichloropropane	110		11.720					ND	
102 trans-1,4-Dichloro-2-buten	53		11.732					ND	
103 N-Propylbenzene	120		11.787					ND	
104 2-Chlorotoluene	126		11.872					ND	
105 3-Chlorotoluene	126		11.933					ND	
106 1,3,5-Trimethylbenzene	105		11.964					ND	
107 4-Chlorotoluene	126		11.982					ND	
108 tert-Butylbenzene	119		12.286					ND	
109 Pentachloroethane	167		12.308					ND	
110 1,2,4-Trimethylbenzene	105		12.335					ND	
111 1,2-dichloro-4-(trifluorom	214		12.402					ND	
112 sec-Butylbenzene	105		12.505					ND	
113 1,3-Dichlorobenzene	146		12.615					ND	
114 4-Isopropyltoluene	119		12.651					ND	
115 1,4-Dichlorobenzene	146		12.706					ND	
116 2,4-Dichloro-1-(triflourom	214		12.754					ND	
117 1,2,3-Trimethylbenzene	105		12.759					ND	
118 2,5-Dichlorobenzotrifluori	214		12.803					ND	
119 Benzyl chloride	91		12.844					ND	
120 n-Butylbenzene	91		13.065					ND	
121 1,2-Dichlorobenzene	146		13.077					ND	
122 1,2-Dibromo-3-Chloropropan	75		13.862					ND	
123 2,4- & 2,5- & 2,6- Dichlor	125		14.008					ND	
124 1,3,5-Trichlorobenzene	180		14.073					ND	
125 2,3- & 3,4- Dichlorotoluen	125		14.421					ND	
126 1,2,4-Trichlorobenzene	180		14.689					ND	
127 Hexachlorobutadiene	225		14.859					ND	
128 Naphthalene	128		14.938					ND	
129 1,2,3-Trichlorobenzene	180		15.182					ND	
131 2,4,5-Trichlorotoluene	159		15.960					ND	
130 2,3,6-Trichlorotoluene	159		16.064					ND	
132 2-Methylnaphthalene	142		16.074					ND	
151 Isooctane	57		0.000					ND	
149 3,4-Dichlorotoluene	1		0.000					ND	
148 2,3-Dichlorotoluene	1		0.000					ND	
147 2,4-Dichlorotoluene	1		0.000					ND	
152 Formaldehyde TIC	1		0.000					ND	

Data File: \\PITCHROM\ChromData\CHHP5\20150421-6566.b\50421006.D

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

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00031

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00033

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150421-6566.b\50421006.D

Injection Date: 21-Apr-2015 12:50:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

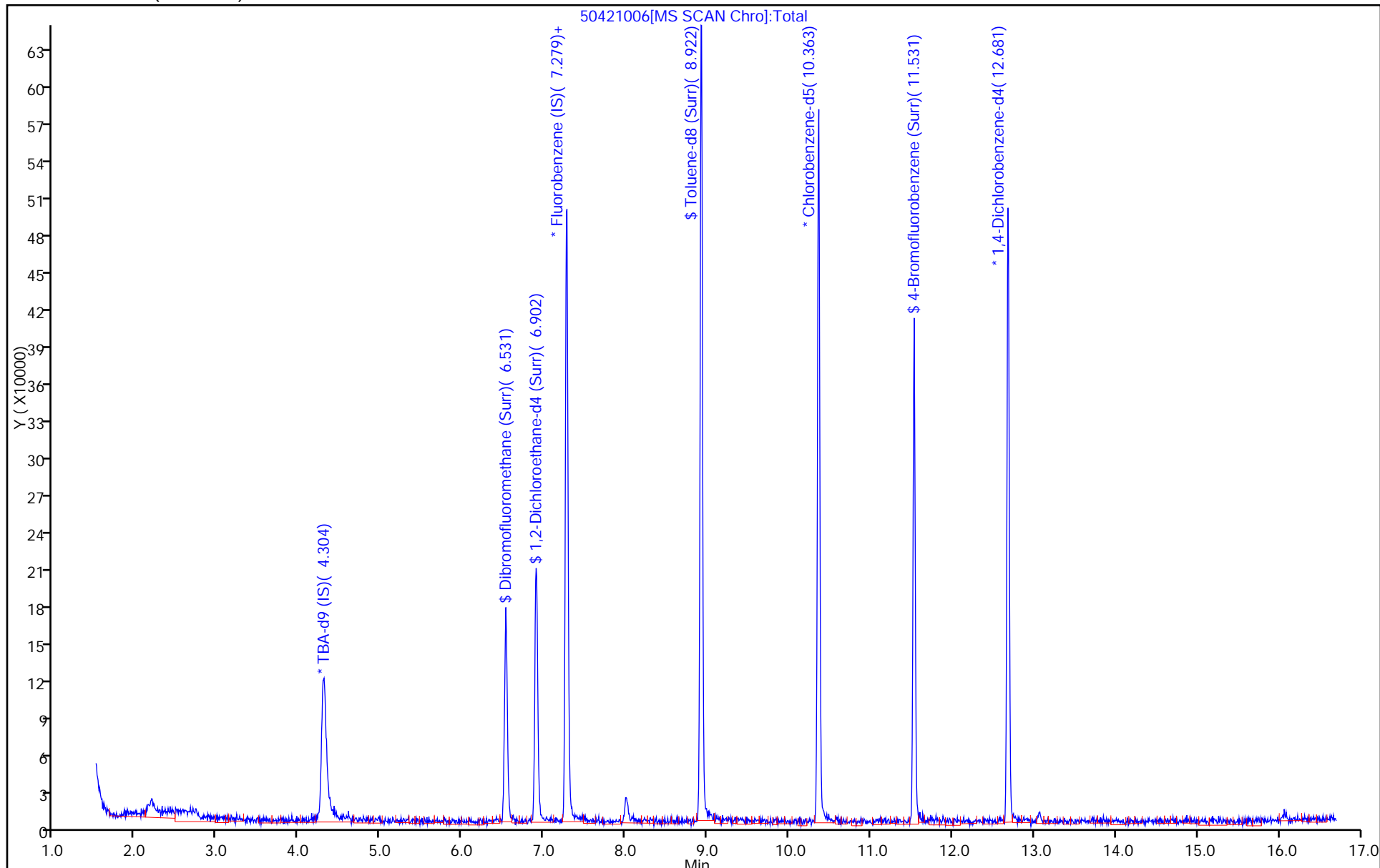
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



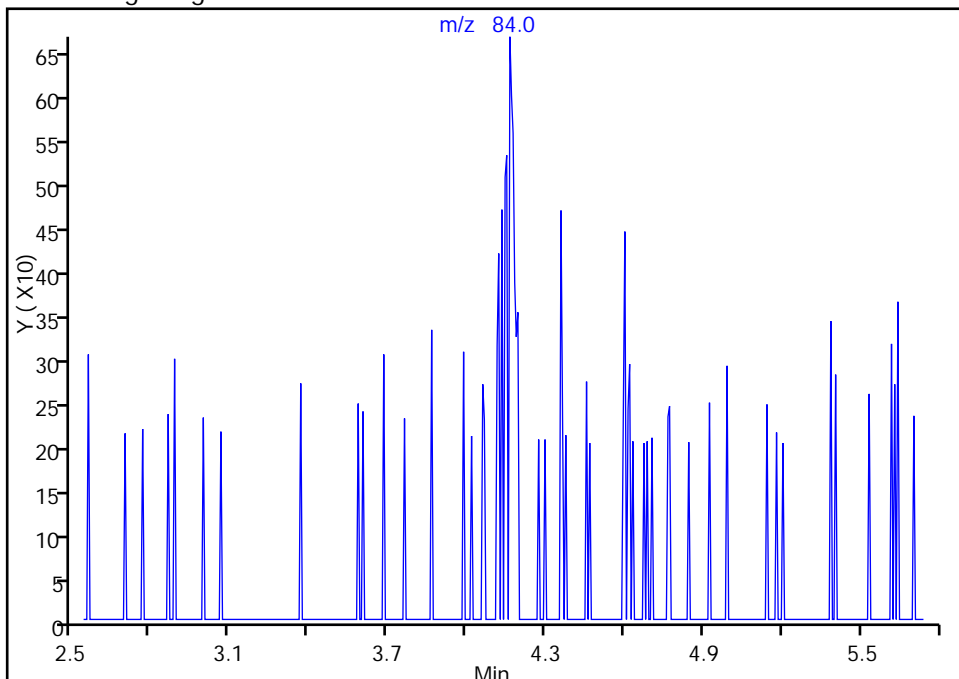
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150421-6566.b\50421006.D
Injection Date: 21-Apr-2015 12:50:30 Instrument ID: CHHP5
Lims ID: MB
Client ID:
Operator ID: 001562 ALS Bottle#: 5 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

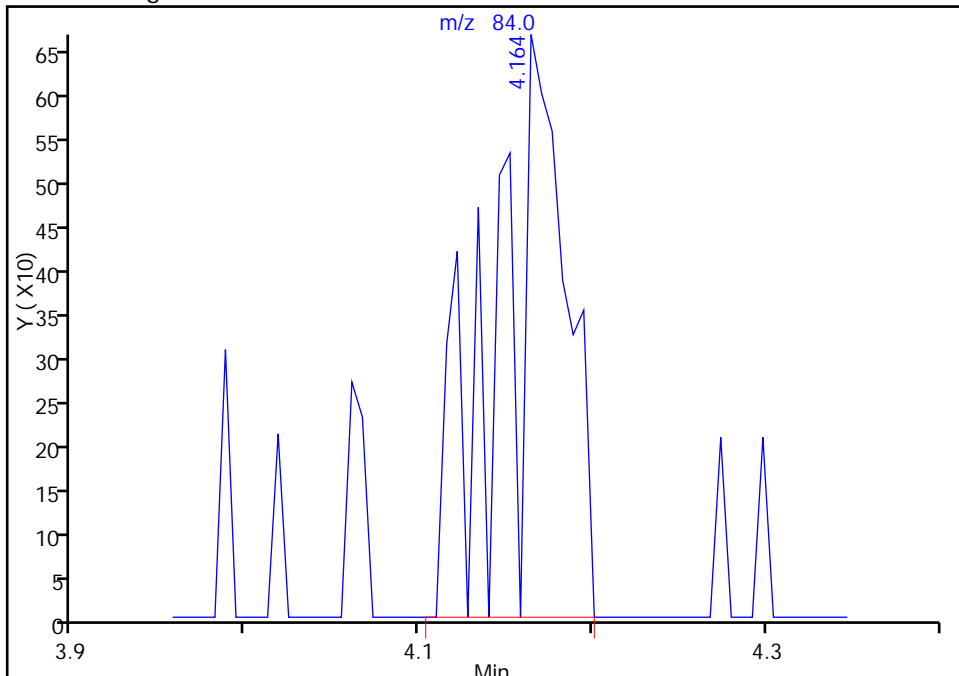
31 Methylene Chloride, CAS: 75-09-2

Not Detected
Expected RT: 4.14

Processing Integration Results



Manual Integration Results



RT: 4.16
Area: 1862
Amount: 0.528878
Amount Units: ng

Reviewer: fergusond, 21-Apr-2015 13:20:08
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-43185-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 180-139271/5
 Matrix: Water Lab File ID: 50422005.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 04/22/2015 12:26
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 139271 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	0.133	J	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.: 180-43185-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 180-139271/5
 Matrix: Water Lab File ID: 50422005.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 04/22/2015 12:26
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 139271 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)	107		64-135
2037-26-5	Toluene-d8 (Surr)	101		71-118
460-00-4	4-Bromofluorobenzene (Surr)	92		70-118
1868-53-7	Dibromofluoromethane (Surr)	108		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150422-6584.b\50422005.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 22-Apr-2015 12:26:30 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 180-0006584-005
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\PITCHROM\ChromData\CHHP5\20150422-6584.b\MMSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 22-Apr-2015 13:49:52 Calib Date: 14-Apr-2015 13:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150414-6459.b\50414005.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: fergusond Date: 22-Apr-2015 13:49:52

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	4.309	-0.007	0	181176	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.277	7.278	-0.001	98	439847	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.361	10.362	-0.001	88	102513	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.679	12.680	-0.001	96	139298	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.528	6.526	0.002	92	107762	50.0	53.9	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.905	6.897	0.008	0	140987	50.0	53.5	
\$ 7 Toluene-d8 (Surr)	98	8.925	8.923	0.002	94	412448	50.0	50.5	
\$ 8 4-Bromofluorobenzene (Surr	95	11.529	11.532	-0.003	87	135839	50.0	46.2	
11 Dichlorodifluoromethane	85		1.629					ND	
12 Chloromethane	50		1.793					ND	
13 Vinyl chloride	62		1.921					ND	
14 Butadiene	39		1.963					ND	
15 Bromomethane	94		2.273					ND	
16 Chloroethane	64		2.432					ND	
17 Dichlorofluoromethane	67		2.669					ND	
18 Trichlorofluoromethane	101		2.717					ND	
19 Ethanol	45		3.013					ND	
20 Ethyl ether	59		3.101					ND	
21 Acrolein	56		3.259					ND	
22 1,1-Dichloroethene	96		3.405					ND	
23 1,1,2-Trichloro-1,2,2-trif	101		3.454					ND	
24 Acetone	43		3.508					ND	
25 Iodomethane	142		3.636					ND	
26 Carbon disulfide	76		3.685					ND	
27 Isopropyl alcohol	45		3.773					ND	
29 Acetonitrile	40		3.932					ND	
28 3-Chloro-1-propene	76		3.952					ND	
30 Methyl acetate	43		4.025					ND	
31 Methylene Chloride	84	4.156	4.147	0.009	1	1951		0.6651	M
32 2-Methyl-2-propanol	59		4.451					ND	
33 Acrylonitrile	53		4.555					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		4.567					ND	
35 Methyl tert-butyl ether	73		4.603					ND	
36 Hexane	57		4.987					ND	
37 1,1-Dichloroethane	63		5.169					ND	
38 Vinyl acetate	43		5.297					ND	
39 2-Chloro-1,3-butadiene	53		5.307					ND	
41 Isopropyl ether	45		5.325					ND	
40 Isopropyl ether TIC	45		5.409					ND	
42 Tert-butyl ethyl ether	59		5.793					ND	
44 2,2-Dichloropropane	77		5.923					ND	
45 cis-1,2-Dichloroethene	96		5.936					ND	
43 Tert-butyl ethyl ether (TI	59		5.961					ND	
46 2-Butanone (MEK)	43		5.990					ND	
47 Propionitrile	54		6.055					ND	
48 Ethyl acetate	43		6.085					ND	
49 Chlorobromomethane	128		6.228					ND	
50 Methacrylonitrile	41		6.237					ND	
51 Tetrahydrofuran	42		6.282					ND	
52 Chloroform	83		6.343					ND	
53 1,1,1-Trichloroethane	97		6.532					ND	
54 Cyclohexane	56		6.587					ND	
56 Carbon tetrachloride	117		6.720					ND	
55 1,1-Dichloropropene	75		6.726					ND	
57 Isobutyl alcohol	41		6.939					ND	
58 Benzene	78		6.952					ND	
59 1,2-Dichloroethane	62		6.988					ND	
61 Tert-amyl methyl ether	73		7.107					ND	
60 Tert-amyl methyl ether (TI	73		7.262					ND	
62 n-Heptane	43		7.280					ND	
63 n-Butanol	56		7.655					ND	
64 Trichloroethene	130		7.663					ND	
65 Ethyl acrylate	55		7.813					ND	
66 Methylcyclohexane	83		7.864					ND	
67 1,2-Dichloropropane	63		7.901					ND	
68 Dibromomethane	93		8.022					ND	
69 Methyl methacrylate	69		8.050					ND	
70 1,4-Dioxane	88		8.053					ND	
71 Dichlorobromomethane	83		8.199					ND	
72 2-Nitropropane	41		8.433					ND	
73 2-Chloroethyl vinyl ether	63		8.521					ND	
74 cis-1,3-Dichloropropene	75		8.661					ND	
75 4-Methyl-2-pentanone (MIBK	43		8.819					ND	
76 Toluene	91		8.990					ND	
77 trans-1,3-Dichloropropene	75		9.221					ND	
78 Ethyl methacrylate	69		9.318					ND	
79 1,1,2-Trichloroethane	97		9.397					ND	
80 Tetrachloroethene	164		9.537					ND	
81 1,3-Dichloropropane	76		9.561					ND	
82 2-Hexanone	43		9.653					ND	
83 n-Butyl acetate	43		9.784					ND	
84 Chlorodibromomethane	129		9.786					ND	
85 Ethylene Dibromide	107		9.902					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
86 3-Chlorobenzotrifluoride	180		10.370					ND	
87 Chlorobenzene	112		10.389					ND	
88 4-Chlorobenzotrifluoride	180		10.425					ND	
89 1,1,1,2-Tetrachloroethane	131		10.468					ND	
90 Ethylbenzene	106		10.498					ND	
91 m-Xylene & p-Xylene	106		10.614					ND	
92 o-Xylene	106		11.009					ND	
93 Styrene	104		11.021					ND	
94 Bromoform	173		11.210					ND	
95 Cyclohexanol	57		11.231					ND	
96 2-Chlorobenzotrifluoride	180		11.271					ND	
97 Isopropylbenzene	105		11.380					ND	
98 Cyclohexanone	55		11.469					ND	
99 1,1,2,2-Tetrachloroethane	83		11.672					ND	
100 Bromobenzene	156		11.685					ND	
101 1,2,3-Trichloropropane	110		11.721					ND	
102 trans-1,4-Dichloro-2-buten	53		11.733					ND	
103 N-Propylbenzene	120		11.788					ND	
104 2-Chlorotoluene	126		11.873					ND	
105 3-Chlorotoluene	126		11.934					ND	
106 1,3,5-Trimethylbenzene	105		11.958					ND	
107 4-Chlorotoluene	126		11.983					ND	
108 tert-Butylbenzene	119		12.287					ND	
109 Pentachloroethane	167		12.309					ND	
110 1,2,4-Trimethylbenzene	105		12.335					ND	
111 1,2-dichloro-4-(trifluorom	214		12.402					ND	
112 sec-Butylbenzene	105		12.506					ND	
113 1,3-Dichlorobenzene	146		12.615					ND	
114 4-Isopropyltoluene	119		12.652					ND	
115 1,4-Dichlorobenzene	146		12.707					ND	
116 2,4-Dichloro-1-(triflourom	214		12.755					ND	
117 1,2,3-Trimethylbenzene	105		12.759					ND	
118 2,5-Dichlorobenzotrifluori	214		12.804					ND	
119 Benzyl chloride	91		12.844					ND	
120 n-Butylbenzene	91		13.059					ND	
121 1,2-Dichlorobenzene	146		13.078					ND	
122 1,2-Dibromo-3-Chloropropan	75		13.856					ND	
123 2,4- & 2,5- & 2,6- Dichlor	125		14.002					ND	
124 1,3,5-Trichlorobenzene	180		14.073					ND	
125 2,3- & 3,4- Dichlorotoluen	125		14.422					ND	
126 1,2,4-Trichlorobenzene	180		14.690					ND	
127 Hexachlorobutadiene	225		14.860					ND	
128 Naphthalene	128		14.939					ND	
129 1,2,3-Trichlorobenzene	180		15.183					ND	
131 2,4,5-Trichlorotoluene	159		15.967					ND	
130 2,3,6-Trichlorotoluene	159		16.065					ND	
132 2-Methylnaphthalene	142		16.080					ND	
147 2,4-Dichlorotoluene	1		0.000					ND	
148 2,3-Dichlorotoluene	1		0.000					ND	
150 2,6-Dichlorotoluene	1		0.000					ND	
146 2,5-Dichlorotoluene	1		0.000					ND	
152 Formaldehyde TIC	1		0.000					ND	

Data File: \\PITCHROM\ChromData\CHHP5\20150422-6584.b\50422005.D

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
149 3,4-Dichlorotoluene	1		0.000						ND
151 Isooctane	57		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_00031

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00033

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150422-6584.b\50422005.D

Injection Date: 22-Apr-2015 12:26:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: MB

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

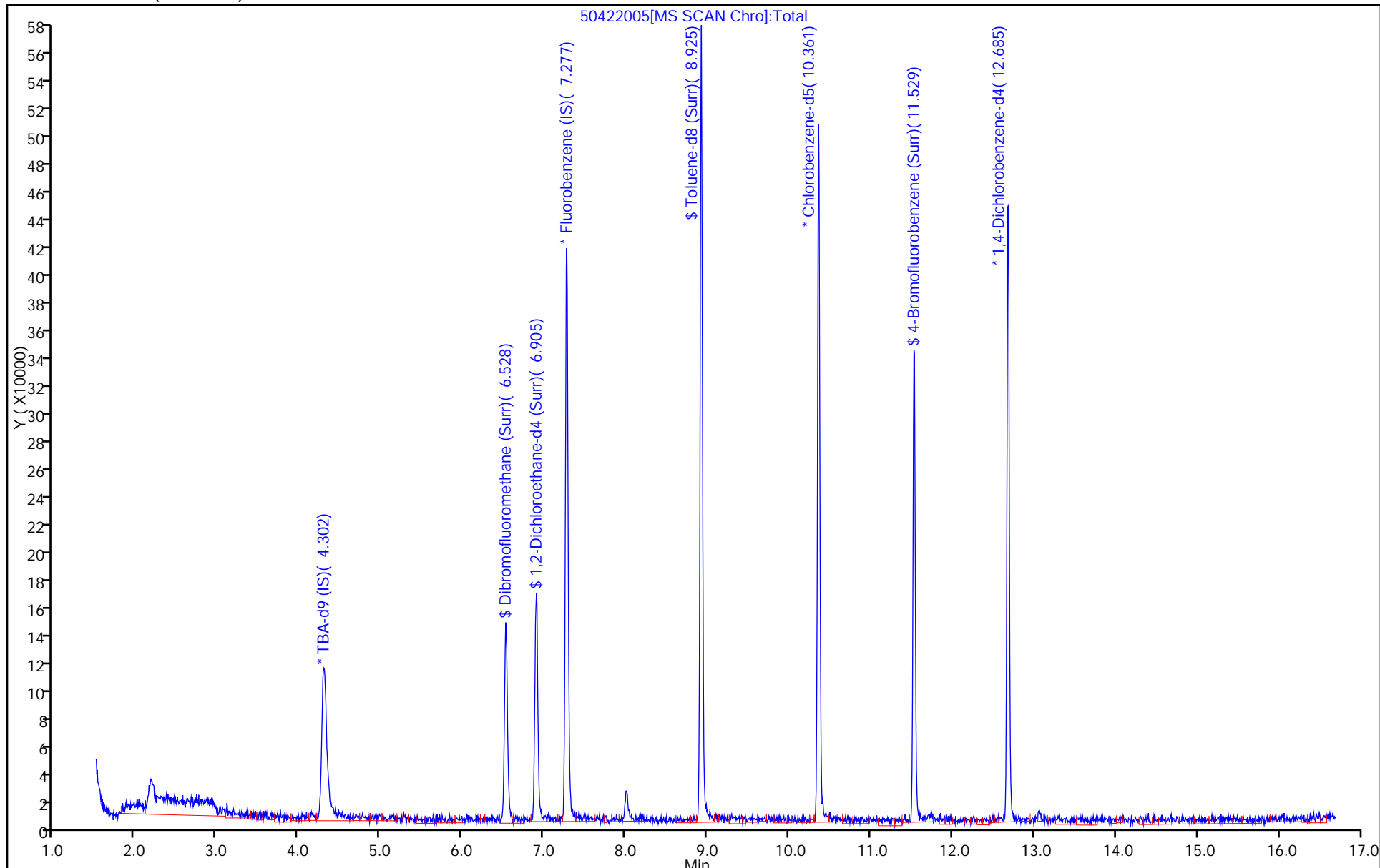
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

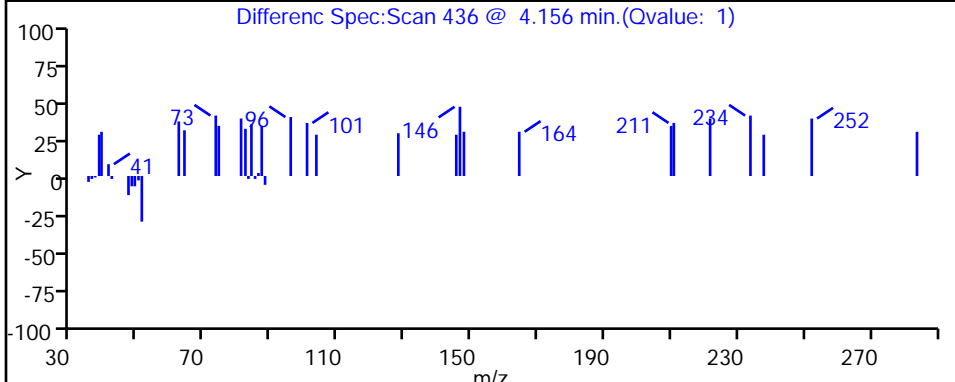
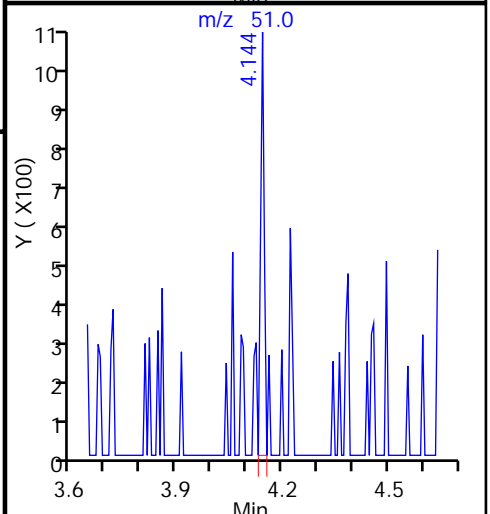
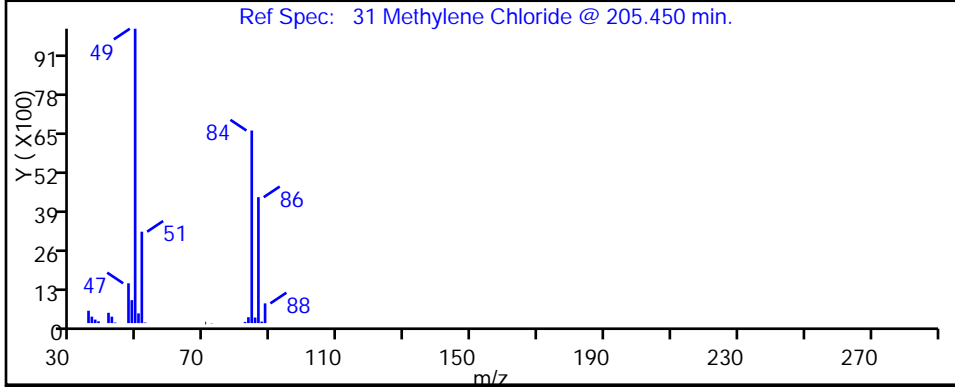
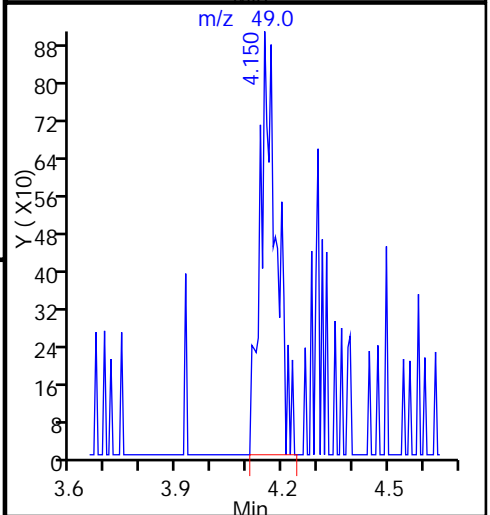
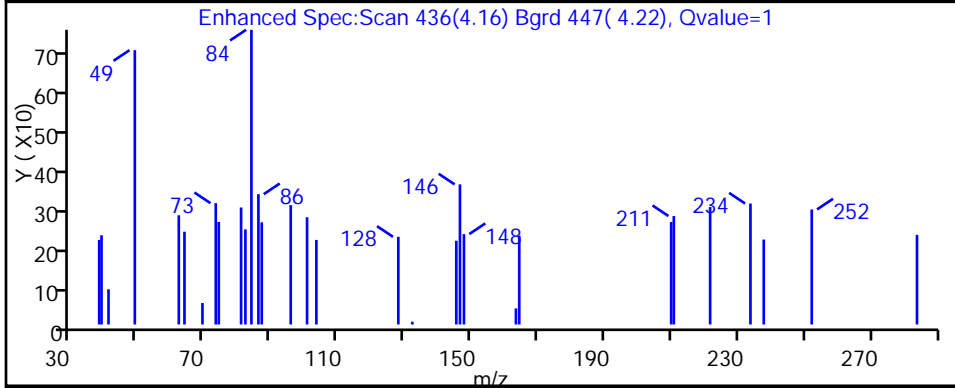
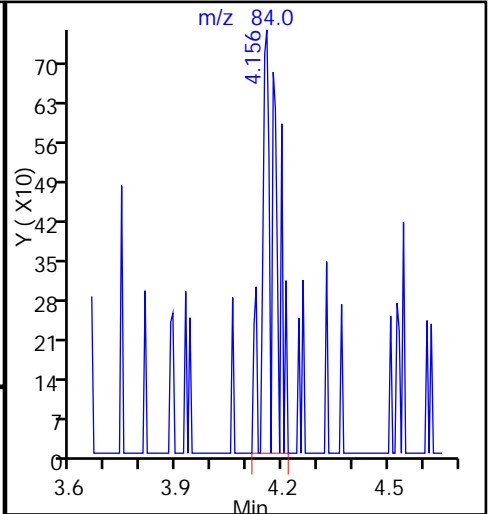
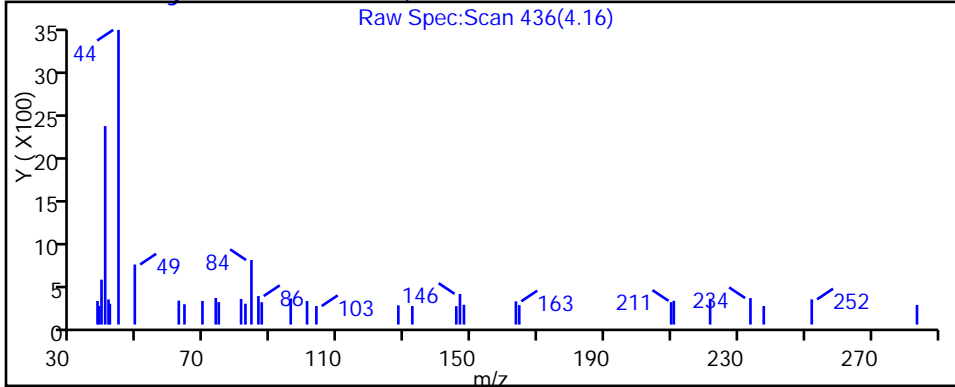
Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150422-6584.b\50422005.D
Injection Date: 22-Apr-2015 12:26:30 Instrument ID: CHHP5
Lims ID: MB
Client ID:
Operator ID: 001562 ALS Bottle#: 5 Worklist Smp#: 5
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

31 Methylene Chloride, CAS: 75-09-2



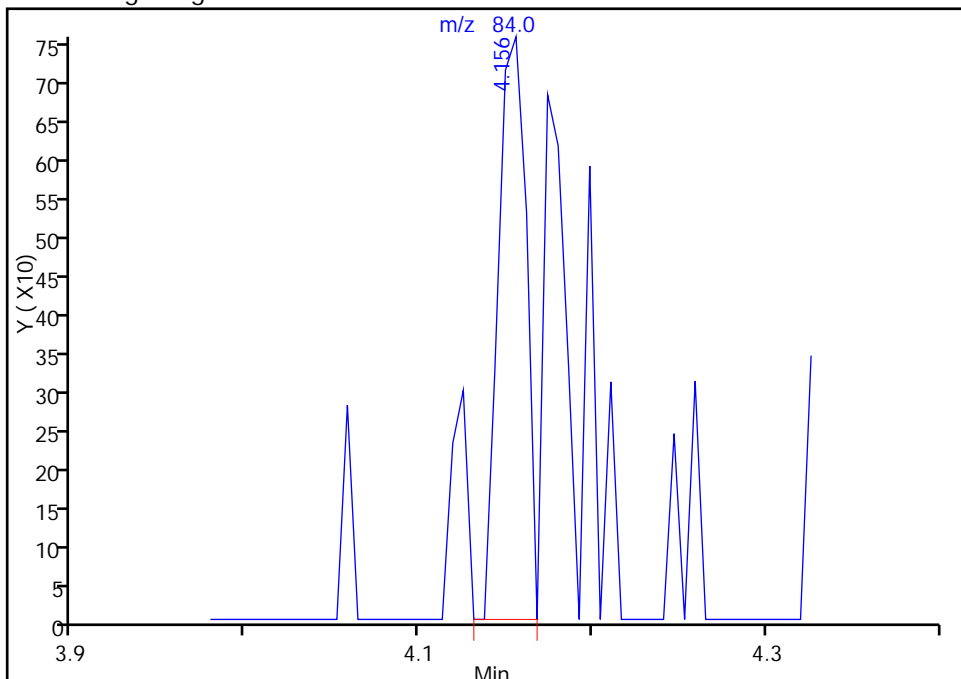
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150422-6584.b\50422005.D
Injection Date: 22-Apr-2015 12:26:30 Instrument ID: CHHP5
Lims ID: MB
Client ID:
Operator ID: 001562 ALS Bottle#: 5 Worklist Smp#: 5
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

31 Methylene Chloride, CAS: 75-09-2

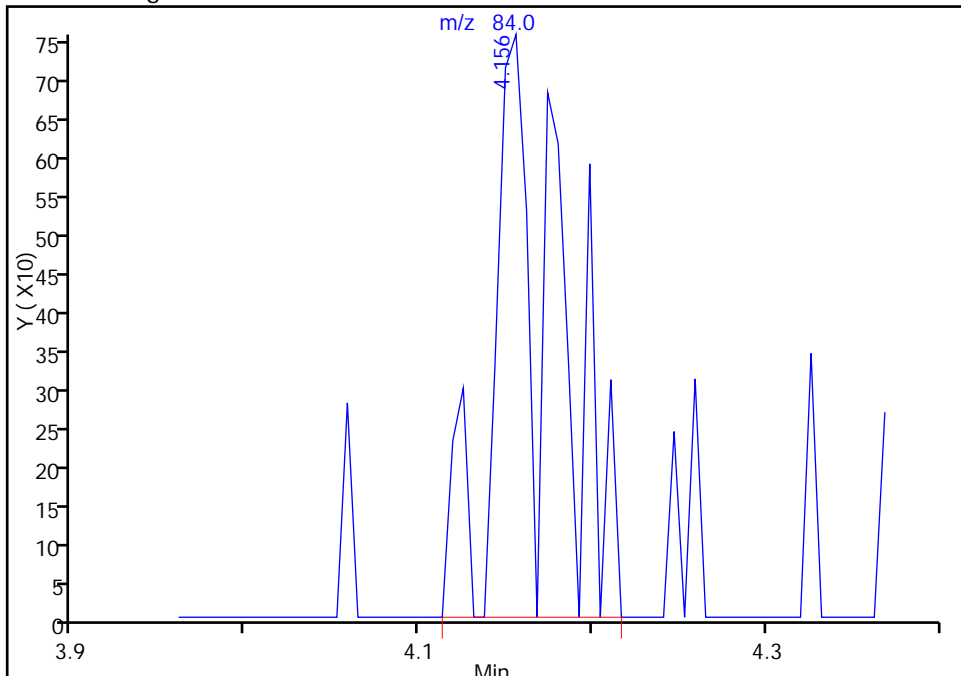
RT: 4.16
Area: 845
Amount: 0.288066
Amount Units: ng

Processing Integration Results



RT: 4.16
Area: 1951
Amount: 0.665110
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 22-Apr-2015 13:49:52
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-43185-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 180-139148/9
 Matrix: Water Lab File ID: 50421009.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 04/21/2015 14:13
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 139148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	11.0		1.0	0.28
75-01-4	Vinyl chloride	10.5		1.0	0.23
74-83-9	Bromomethane	13.2		1.0	0.31
75-00-3	Chloroethane	11.8		1.0	0.21
75-35-4	1,1-Dichloroethene	9.29		1.0	0.30
67-64-1	Acetone	17.1		5.0	2.5
75-15-0	Carbon disulfide	5.91		1.0	0.21
75-09-2	Methylene Chloride	10.1		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	9.55		1.0	0.17
1634-04-4	Methyl tert-butyl ether	9.15		1.0	0.18
75-34-3	1,1-Dichloroethane	9.74		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	9.05		1.0	0.24
74-97-5	Bromochloromethane	8.80		1.0	0.18
78-93-3	2-Butanone (MEK)	16.6		5.0	0.55
67-66-3	Chloroform	9.97		1.0	0.17
71-55-6	1,1,1-Trichloroethane	10.2		1.0	0.29
56-23-5	Carbon tetrachloride	10.8		1.0	0.14
71-43-2	Benzene	10.2		1.0	0.11
107-06-2	1,2-Dichloroethane	9.53		1.0	0.21
79-01-6	Trichloroethene	9.02		1.0	0.14
78-87-5	1,2-Dichloropropane	9.78		1.0	0.095
75-27-4	Bromodichloromethane	8.88		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	9.47		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	17.5		5.0	0.53
108-88-3	Toluene	11.2		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	11.3		1.0	0.15
79-00-5	1,1,2-Trichloroethane	11.5		1.0	0.20
127-18-4	Tetrachloroethene	10.9		1.0	0.15
591-78-6	2-Hexanone	15.2		5.0	0.16
124-48-1	Dibromochloromethane	10.4		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	10.7		1.0	0.18
108-90-7	Chlorobenzene	10.7		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	11.9		1.0	0.28
100-41-4	Ethylbenzene	10.2		1.0	0.23
1330-20-7	Xylenes, Total	20.1		3.0	0.49
100-42-5	Styrene	10.3		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-43185-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 180-139148/9
 Matrix: Water Lab File ID: 50421009.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 04/21/2015 14:13
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 139148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	9.28		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	10.9		1.0	0.20
107-13-1	Acrylonitrile	95.6		20	0.55
123-91-1	1,4-Dioxane	129	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)	102		71-118
460-00-4	4-Bromofluorobenzene (Surr)	93		70-118
1868-53-7	Dibromofluoromethane (Surr)	88		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150421-6566.b\50421009.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 21-Apr-2015 14:13:30 ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 180-0006566-009
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\PITCHROM\ChromData\CHHP5\20150421-6566.b\MMSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 21-Apr-2015 14:55:54 Calib Date: 14-Apr-2015 13:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150414-6459.b\50414005.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK037

First Level Reviewer: fergusond

Date: 21-Apr-2015 14:35:21

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.318	4.309	0.009	0	118836	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.274	7.277	-0.003	98	561426	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.359	10.362	-0.003	88	116616	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.683	12.686	-0.003	96	180594	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.532	6.531	0.001	80	112981	50.0	44.2	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.903	6.902	0.001	0	155309	50.0	46.1	
\$ 7 Toluene-d8 (Surr)	98	8.923	8.922	0.001	94	476041	50.0	51.2	
\$ 8 4-Bromofluorobenzene (Surr	95	11.527	11.532	-0.005	88	155797	50.0	46.5	
11 Dichlorodifluoromethane	85	1.623	1.616	0.007	98	150951	50.0	62.7	
12 Chloromethane	50	1.787	1.792	-0.005	99	182590	50.0	55.0	
13 Vinyl chloride	62	1.915	1.914	0.001	97	195718	50.0	52.7	
14 Butadiene	39	1.957	1.962	-0.005	99	204175	50.0	48.2	
15 Bromomethane	94	2.286	2.260	0.026	92	129443	50.0	65.8	
16 Chloroethane	64	2.414	2.406	0.008	100	151971	50.0	59.2	
17 Dichlorofluoromethane	67	2.669	2.668	0.001	99	333522	50.0	56.9	
18 Trichlorofluoromethane	101	2.724	2.729	-0.005	97	226355	50.0	50.8	
20 Ethyl ether	59	3.089	3.088	0.001	93	151933	50.0	51.7	
21 Acrolein	56	3.265	3.258	0.007	97	44516	150.0	124.8	
22 1,1-Dichloroethene	96	3.387	3.410	-0.023	96	150331	50.0	46.4	
23 1,1,2-Trichloro-1,2,2-trif	101	3.430	3.447	-0.017	84	163824	50.0	50.0	
24 Acetone	43	3.503	3.502	0.001	98	98361	100.0	85.5	
25 Iodomethane	142	3.606	3.623	-0.017	100	203401	50.0	45.2	
26 Carbon disulfide	76	3.679	3.672	0.007	100	233881	50.0	29.5	
28 3-Chloro-1-propene	76	3.947	3.946	0.001	88	75284	50.0	44.0	
30 Methyl acetate	43	4.026	4.025	0.001	98	671580	250.0	249.6	
31 Methylene Chloride	84	4.154	4.140	0.014	96	189808	50.0	50.7	
32 2-Methyl-2-propanol	59	4.440	4.438	0.002	81	69879	500.0	499.2	
33 Acrylonitrile	53	4.561	4.554	0.007	98	661582	500.0	478.0	
34 trans-1,2-Dichloroethene	96	4.573	4.560	0.013	59	159827	50.0	47.7	
35 Methyl tert-butyl ether	73	4.604	4.597	0.007	94	338725	50.0	45.8	
36 Hexane	57	4.987	4.980	0.007	94	226291	50.0	42.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.176	5.174	0.002	97	291204	50.0	48.7	
38 Vinyl acetate	43	5.297	5.296	0.001	98	159632	50.0	37.7	
44 2,2-Dichloropropane	77	5.930	5.929	0.001	79	97242	50.0	65.1	
45 cis-1,2-Dichloroethene	96	5.942	5.941	0.001	84	159562	50.0	45.2	
46 2-Butanone (MEK)	43	5.991	5.984	0.007	100	152851	100.0	83.1	
49 Chlorobromomethane	128	6.222	6.227	-0.005	96	67188	50.0	44.0	
51 Tetrahydrofuran	42	6.295	6.282	0.013	91	92709	100.0	80.5	
52 Chloroform	83	6.344	6.343	0.002	95	270614	50.0	49.8	
53 1,1,1-Trichloroethane	97	6.532	6.525	0.007	96	176806	50.0	51.0	
54 Cyclohexane	56	6.587	6.586	0.001	94	282532	50.0	42.4	
56 Carbon tetrachloride	117	6.721	6.720	0.001	96	150269	50.0	54.0	
55 1,1-Dichloropropene	75	6.727	6.726	0.001	95	196666	50.0	43.7	
57 Isobutyl alcohol	41	6.946	6.951	-0.005	89	92315	1250.0	1231.9	
58 Benzene	78	6.958	6.957	0.001	97	675680	50.0	50.8	
59 1,2-Dichloroethane	62	6.989	6.981	0.007	95	207666	50.0	47.7	
62 n-Heptane	43	7.281	7.273	0.008	88	178873	50.0	39.1	
64 Trichloroethene	130	7.670	7.663	0.007	97	150277	50.0	45.1	
66 Methylcyclohexane	83	7.865	7.863	0.002	92	250646	50.0	42.1	
67 1,2-Dichloropropane	63	7.901	7.900	0.001	94	160863	50.0	48.9	
68 Dibromomethane	93	8.023	8.022	0.001	96	86898	50.0	49.0	
70 1,4-Dioxane	88	8.053	8.058	-0.005	95	22307	1000.0	643.8	M
71 Dichlorobromomethane	83	8.193	8.198	-0.005	98	160582	50.0	44.4	
73 2-Chloroethyl vinyl ether	63	8.522	8.514	0.008	91	152613	100.0	82.3	
74 cis-1,3-Dichloropropene	75	8.655	8.654	0.001	92	165251	50.0	47.4	
75 4-Methyl-2-pentanone (MIBK)	43	8.826	8.818	0.008	98	276659	100.0	87.7	
76 Toluene	91	8.990	8.989	0.001	98	670232	50.0	56.1	
77 trans-1,3-Dichloropropene	75	9.215	9.214	0.001	97	121447	50.0	56.3	
78 Ethyl methacrylate	69	9.312	9.317	-0.005	91	130404	50.0	46.3	
79 1,1,2-Trichloroethane	97	9.398	9.402	-0.004	93	128681	50.0	57.4	
80 Tetrachloroethene	164	9.537	9.536	0.001	97	126868	50.0	54.3	
81 1,3-Dichloropropane	76	9.562	9.561	0.001	94	221700	50.0	53.2	
82 2-Hexanone	43	9.659	9.652	0.007	98	182765	100.0	75.8	
84 Chlorodibromomethane	129	9.793	9.792	0.001	91	92842	50.0	51.9	
85 Ethylene Dibromide	107	9.896	9.895	0.001	97	114362	50.0	53.5	
86 3-Chlorobenzotrifluoride	180	10.371	10.370	0.001	94	234272	50.0	51.4	
87 Chlorobenzene	112	10.389	10.388	0.001	94	406365	50.0	53.7	
88 4-Chlorobenzotrifluoride	180	10.426	10.425	0.002	94	218065	50.0	49.5	
89 1,1,1,2-Tetrachloroethane	131	10.474	10.473	0.001	90	116332	50.0	59.5	
90 Ethylbenzene	106	10.499	10.498	0.001	99	222001	50.0	51.1	
91 m-Xylene & p-Xylene	106	10.614	10.619	-0.005	0	270755	50.0	51.0	
92 o-Xylene	106	11.010	11.009	0.001	96	256237	50.0	49.3	
93 Styrene	104	11.022	11.027	-0.005	94	432321	50.0	51.6	
94 Bromoform	173	11.210	11.209	0.001	94	51247	50.0	46.4	
96 2-Chlorobenzotrifluoride	180	11.271	11.270	0.001	97	227467	50.0	50.0	
97 Isopropylbenzene	105	11.375	11.380	-0.005	97	636512	50.0	49.1	
99 1,1,2,2-Tetrachloroethane	83	11.673	11.672	0.001	96	174726	50.0	54.4	
100 Bromobenzene	156	11.679	11.684	-0.005	95	154706	50.0	46.3	
101 1,2,3-Trichloropropane	110	11.715	11.720	-0.005	87	54630	50.0	49.7	
102 trans-1,4-Dichloro-2-buten	53	11.734	11.732	0.002	68	43019	50.0	47.1	
103 N-Propylbenzene	120	11.788	11.787	0.001	99	180634	50.0	43.8	
104 2-Chlorotoluene	126	11.874	11.872	0.002	95	158451	50.0	45.7	
105 3-Chlorotoluene	126	11.934	11.933	0.001	95	169402	50.0	43.8	

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	11.959	11.964	-0.005	94	538175	50.0	46.8	
107 4-Chlorotoluene	126	11.983	11.982	0.001	99	189803	50.0	50.6	
108 tert-Butylbenzene	119	12.287	12.286	0.001	94	415122	50.0	41.7	
110 1,2,4-Trimethylbenzene	105	12.336	12.335	0.001	99	539048	50.0	45.7	
111 1,2-dichloro-4-(trifluorom	214	12.403	12.402	0.001	99	168827	50.0	45.3	
112 sec-Butylbenzene	105	12.506	12.505	0.001	95	610612	50.0	43.6	
113 1,3-Dichlorobenzene	146	12.616	12.615	0.001	96	286533	50.0	46.5	
114 4-Isopropyltoluene	119	12.652	12.651	0.001	96	500184	50.0	43.2	
115 1,4-Dichlorobenzene	146	12.707	12.706	0.001	93	295780	50.0	47.0	
116 2,4-Dichloro-1-(trifluorom	214	12.756	12.754	0.002	99	149904	50.0	42.9	
118 2,5-Dichlorobenzotrifluori	214	12.804	12.803	0.001	0	171633	50.0	43.9	
120 n-Butylbenzene	91	13.060	13.065	-0.005	98	429352	50.0	40.7	
121 1,2-Dichlorobenzene	146	13.078	13.077	0.001	96	259510	50.0	45.5	
122 1,2-Dibromo-3-Chloropropan	75	13.857	13.862	-0.005	75	18989	50.0	40.7	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.003	14.008	-0.005	0	445212	150.0	103.3	
125 2,3- & 3,4- Dichlorotoluen	125	14.423	14.421	0.001	0	264337	100.0	63.1	
126 1,2,4-Trichlorobenzene	180	14.690	14.689	0.001	93	98900	50.0	33.3	
127 Hexachlorobutadiene	225	14.861	14.859	0.002	95	54870	50.0	38.5	
128 Naphthalene	128	14.940	14.938	0.002	97	223269	50.0	28.6	
129 1,2,3-Trichlorobenzene	180	15.183	15.182	0.001	96	77815	50.0	32.0	
131 2,4,5-Trichlorotoluene	159	15.962	15.960	0.002	0	24330	50.0	18.6	
130 2,3,6-Trichlorotoluene	159	16.065	16.064	0.001	94	24018	50.0	20.3	
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		100.0	100.3	
S 134 1,2-Dichloroethene, Total	96				0		100.0	93.0	
S 135 1,3-Dichloropropene, Total	1				0		100.0	103.6	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260VOA2ND_00111	Amount Added: 2.00	Units: uL	
voaW ee2nd_00001	Amount Added: 2.00	Units: uL	
voaWKetpri Re_00004	Amount Added: 2.00	Units: uL	
voaW VA pri R_00005	Amount Added: 2.00	Units: uL	
voaW2-cle pri_00006	Amount Added: 2.00	Units: uL	
VOAACRO2ND_00007	Amount Added: 6.00	Units: uL	
VOA8260INT_00031	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00033	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150421-6566.b\50421009.D

Injection Date: 21-Apr-2015 14:13:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: LCS

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

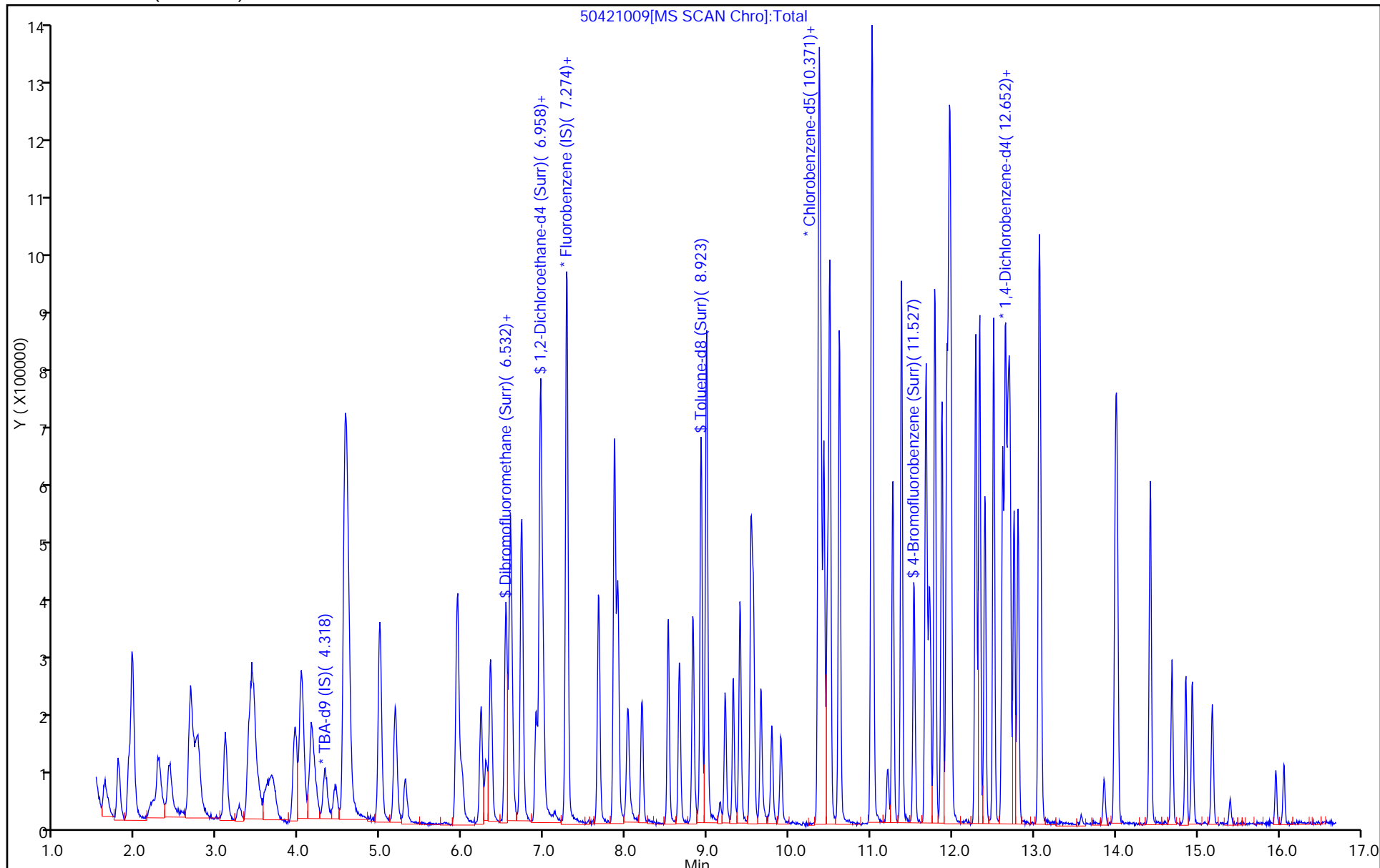
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



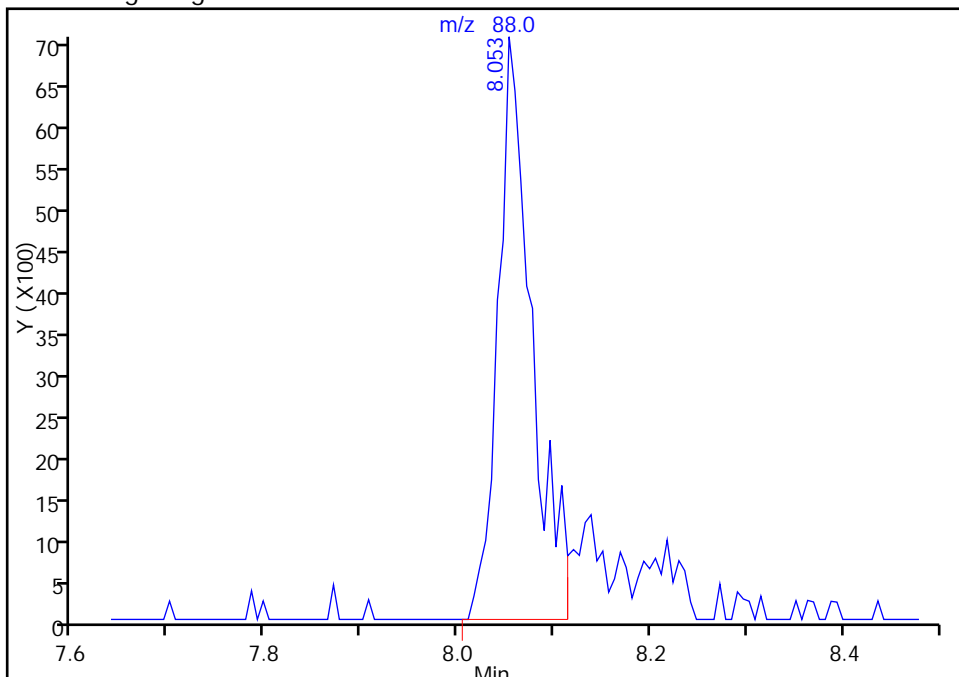
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150421-6566.b\50421009.D
Injection Date: 21-Apr-2015 14:13:30 Instrument ID: CHHP5
Lims ID: LCS
Client ID:
Operator ID: 001562 ALS Bottle#: 8 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

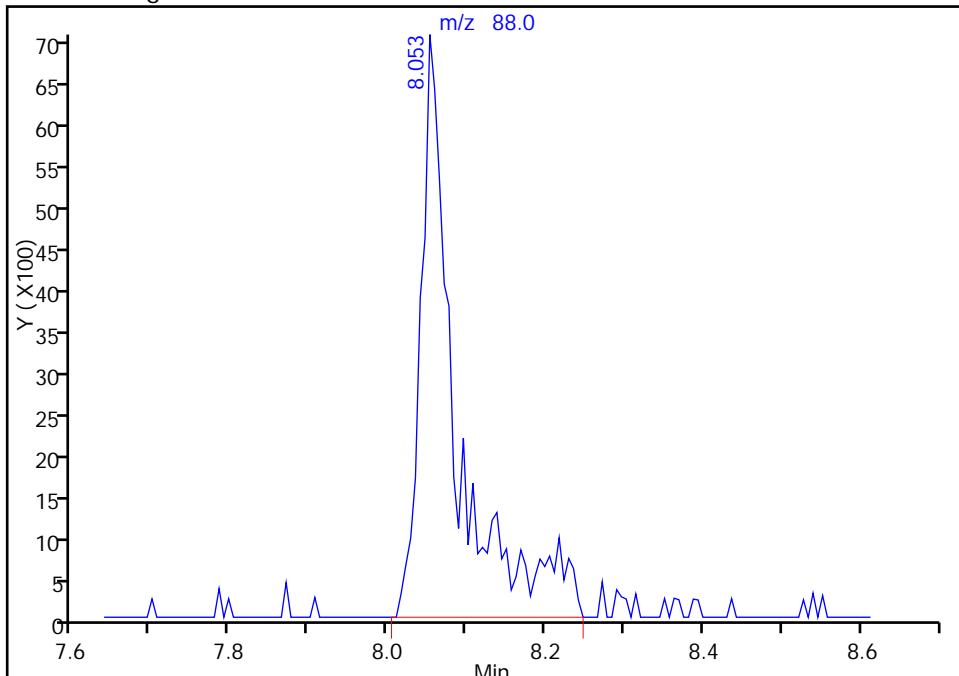
RT: 8.05
Area: 17128
Amount: 494.3177
Amount Units: ng

Processing Integration Results



RT: 8.05
Area: 22307
Amount: 643.7848
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 21-Apr-2015 14:35:21
Audit Action: Manually Integrated
Audit Reason: Peak Tail

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-43185-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 180-139271/11
 Matrix: Water Lab File ID: 50422011.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 04/22/2015 15:04
 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.: 139271 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	12.0		1.0	0.28
75-01-4	Vinyl chloride	10.6		1.0	0.23
74-83-9	Bromomethane	9.51		1.0	0.31
75-00-3	Chloroethane	10.5		1.0	0.21
75-35-4	1,1-Dichloroethene	9.58		1.0	0.30
67-64-1	Acetone	20.6		5.0	2.5
75-15-0	Carbon disulfide	8.49		1.0	0.21
75-09-2	Methylene Chloride	9.27		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	9.43		1.0	0.17
1634-04-4	Methyl tert-butyl ether	10.2		1.0	0.18
75-34-3	1,1-Dichloroethane	10.2		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	9.75		1.0	0.24
74-97-5	Bromochloromethane	9.93		1.0	0.18
78-93-3	2-Butanone (MEK)	18.8		5.0	0.55
67-66-3	Chloroform	9.94		1.0	0.17
71-55-6	1,1,1-Trichloroethane	11.0		1.0	0.29
56-23-5	Carbon tetrachloride	12.4		1.0	0.14
71-43-2	Benzene	10.5		1.0	0.11
107-06-2	1,2-Dichloroethane	9.66		1.0	0.21
79-01-6	Trichloroethene	9.68		1.0	0.14
78-87-5	1,2-Dichloropropane	10.5		1.0	0.095
75-27-4	Bromodichloromethane	10.3		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	11.5		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	19.1		5.0	0.53
108-88-3	Toluene	11.5		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	13.3		1.0	0.15
79-00-5	1,1,2-Trichloroethane	11.2		1.0	0.20
127-18-4	Tetrachloroethene	10.7		1.0	0.15
591-78-6	2-Hexanone	17.4		5.0	0.16
124-48-1	Dibromochloromethane	12.0		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	11.1		1.0	0.18
108-90-7	Chlorobenzene	11.2		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	13.0		1.0	0.28
100-41-4	Ethylbenzene	10.8		1.0	0.23
1330-20-7	Xylenes, Total	21.3		3.0	0.49
100-42-5	Styrene	10.7		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-43185-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 180-139271/11
 Matrix: Water Lab File ID: 50422011.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 04/22/2015 15:04
 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.: 139271 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	12.5		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	10.8		1.0	0.20
107-13-1	Acrylonitrile	109		20	0.55
123-91-1	1,4-Dioxane	193	J	200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		64-135
2037-26-5	Toluene-d8 (Surr)	102		71-118
460-00-4	4-Bromofluorobenzene (Surr)	93		70-118
1868-53-7	Dibromofluoromethane (Surr)	87		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP5\20150422-6584.b\50422011.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 22-Apr-2015 15:04:30 ALS Bottle#: 11 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 180-0006584-011
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\PITCHROM\ChromData\CHHP5\20150422-6584.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 22-Apr-2015 15:45:26 Calib Date: 14-Apr-2015 13:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP5\20150414-6459.b\50414005.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: fergusond

Date: 22-Apr-2015 15:45:26

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	4.309	0.018	0	174890	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.271	7.278	-0.007	98	507939	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.361	10.362	-0.001	91	110600	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.679	12.680	-0.001	92	169720	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.529	6.526	0.003	77	100846	50.0	43.7	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.900	6.897	0.003	0	135168	50.0	44.4	
\$ 7 Toluene-d8 (Surr)	98	8.926	8.923	0.003	94	448446	50.0	50.9	
\$ 8 4-Bromofluorobenzene (Surr	95	11.529	11.532	-0.003	88	147173	50.0	46.3	
11 Dichlorodifluoromethane	85	1.626	1.629	-0.003	97	129639	50.0	59.5	
12 Chloromethane	50	1.790	1.793	-0.003	100	179880	50.0	59.9	
13 Vinyl chloride	62	1.918	1.921	-0.003	97	178665	50.0	53.2	
14 Butadiene	39	1.966	1.963	0.003	97	196190	50.0	51.1	
15 Bromomethane	94	2.264	2.273	-0.009	93	86858	50.0	47.5	
16 Chloroethane	64	2.416	2.432	-0.016	97	121595	50.0	52.3	
17 Dichlorofluoromethane	67	2.666	2.669	-0.003	97	260242	50.0	49.1	
18 Trichlorofluoromethane	101	2.721	2.717	0.004	97	187635	50.0	46.6	
20 Ethyl ether	59	3.098	3.101	-0.003	95	142439	50.0	53.6	
21 Acrolein	56	3.262	3.259	0.003	99	36672	150.0	113.6	
22 1,1-Dichloroethene	96	3.384	3.405	-0.021	86	140252	50.0	47.9	
23 1,1,2-Trichloro-1,2,2-trif	101	3.444	3.454	-0.010	95	149581	50.0	50.5	
24 Acetone	43	3.505	3.508	-0.003	98	107050	100.0	102.9	
25 Iodomethane	142	3.627	3.636	-0.009	96	199795	50.0	49.1	
26 Carbon disulfide	76	3.688	3.685	0.003	100	303986	50.0	42.4	
28 3-Chloro-1-propene	76	3.943	3.952	-0.009	90	81378	50.0	52.6	
30 Methyl acetate	43	4.022	4.025	-0.003	99	656049	250.0	269.5	
31 Methylene Chloride	84	4.144	4.147	-0.003	98	157092	50.0	46.4	
32 2-Methyl-2-propanol	59	4.436	4.451	-0.015	86	99849	500.0	484.7	
33 Acrylonitrile	53	4.558	4.555	0.003	99	684748	500.0	546.8	
34 trans-1,2-Dichloroethene	96	4.570	4.567	0.003	94	142820	50.0	47.1	
35 Methyl tert-butyl ether	73	4.600	4.603	-0.003	96	340336	50.0	50.8	
36 Hexane	57	4.990	4.987	0.003	95	231044	50.0	47.7	

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	5.169	0.009	96	274897	50.0	50.8	
38 Vinyl acetate	43	5.300	5.297	0.003	98	240004	50.0	62.6	
44 2,2-Dichloropropane	77	5.933	5.923	0.010	55	91361	50.0	67.6	
45 cis-1,2-Dichloroethene	96	5.945	5.936	0.009	85	155632	50.0	48.8	
46 2-Butanone (MEK)	43	5.993	5.990	0.003	99	156580	100.0	94.1	
49 Chlorobromomethane	128	6.225	6.228	-0.003	94	68565	50.0	49.6	
51 Tetrahydrofuran	42	6.285	6.282	0.003	95	104650	100.0	100.4	
52 Chloroform	83	6.340	6.343	-0.003	95	244053	50.0	49.7	
53 1,1,1-Trichloroethane	97	6.529	6.532	-0.003	97	172439	50.0	55.0	
54 Cyclohexane	56	6.590	6.587	0.003	94	289214	50.0	48.0	
56 Carbon tetrachloride	117	6.717	6.720	-0.003	77	155720	50.0	61.9	
55 1,1-Dichloropropene	75	6.730	6.726	0.004	92	192663	50.0	47.3	
57 Isobutyl alcohol	41	6.949	6.939	0.010	46	103787	1250.0	1530.8	
58 Benzene	78	6.961	6.952	0.009	97	633981	50.0	52.7	
59 1,2-Dichloroethane	62	6.985	6.988	-0.003	96	190270	50.0	48.3	
62 n-Heptane	43	7.277	7.280	-0.003	92	195305	50.0	47.2	
64 Trichloroethene	130	7.666	7.663	0.003	97	145921	50.0	48.4	
66 Methylcyclohexane	83	7.861	7.864	-0.003	93	254083	50.0	47.2	
67 1,2-Dichloropropane	63	7.904	7.901	0.003	94	155829	50.0	52.3	
68 Dibromomethane	93	8.025	8.022	0.003	97	81146	50.0	50.6	
70 1,4-Dioxane	88	8.056	8.053	0.003	99	30229	1000.0	964.3	
71 Dichlorobromomethane	83	8.196	8.199	-0.003	98	167656	50.0	51.3	
73 2-Chloroethyl vinyl ether	63	8.518	8.521	-0.003	93	152937	100.0	91.1	
74 cis-1,3-Dichloropropene	75	8.658	8.661	-0.003	92	180886	50.0	57.3	
75 4-Methyl-2-pentanone (MIBK)	43	8.822	8.819	0.003	99	286416	100.0	95.7	
76 Toluene	91	8.987	8.990	-0.003	99	650231	50.0	57.4	
77 trans-1,3-Dichloropropene	75	9.218	9.221	-0.003	98	136074	50.0	66.5	
78 Ethyl methacrylate	69	9.315	9.318	-0.003	92	140397	50.0	52.6	
79 1,1,2-Trichloroethane	97	9.394	9.397	-0.003	93	119397	50.0	56.2	
80 Tetrachloroethene	164	9.534	9.537	-0.003	94	118572	50.0	53.5	
81 1,3-Dichloropropane	76	9.564	9.561	0.003	96	222172	50.0	56.2	
82 2-Hexanone	43	9.656	9.653	0.003	99	199095	100.0	87.1	
84 Chlorodibromomethane	129	9.790	9.786	0.004	92	101754	50.0	60.0	
85 Ethylene Dibromide	107	9.899	9.902	-0.003	97	112171	50.0	55.3	
86 3-Chlorobenzotrifluoride	180	10.367	10.370	-0.003	95	193410	50.0	44.7	
87 Chlorobenzene	112	10.392	10.389	0.003	94	402530	50.0	56.1	
88 4-Chlorobenzotrifluoride	180	10.428	10.425	0.003	95	184416	50.0	44.1	
89 1,1,1,2-Tetrachloroethane	131	10.471	10.468	0.003	92	120970	50.0	65.2	
90 Ethylbenzene	106	10.501	10.498	0.003	98	221867	50.0	53.8	
91 m-Xylene & p-Xylene	106	10.617	10.614	0.003	0	269544	50.0	53.5	
92 o-Xylene	106	11.012	11.009	0.003	97	260279	50.0	52.8	
93 Styrene	104	11.024	11.021	0.003	95	425670	50.0	53.6	
94 Bromoform	173	11.207	11.210	-0.003	96	65372	50.0	62.4	
96 2-Chlorobenzotrifluoride	180	11.268	11.271	-0.003	96	188304	50.0	43.6	
97 Isopropylbenzene	105	11.377	11.380	-0.003	96	628893	50.0	51.1	
99 1,1,2,2-Tetrachloroethane	83	11.675	11.672	0.003	95	164822	50.0	54.1	
100 Bromobenzene	156	11.682	11.685	-0.002	95	149378	50.0	47.6	
101 1,2,3-Trichloropropane	110	11.718	11.721	-0.003	87	51772	50.0	50.2	
102 trans-1,4-Dichloro-2-buten	53	11.724	11.733	-0.009	73	45297	50.0	52.8	
103 N-Propylbenzene	120	11.785	11.788	-0.003	98	183702	50.0	47.4	
104 2-Chlorotoluene	126	11.870	11.873	-0.003	96	151949	50.0	46.7	
105 3-Chlorotoluene	126	11.931	11.934	-0.003	94	164331	50.0	45.2	

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	11.961	11.958	0.003	94	525033	50.0	48.6	
107 4-Chlorotoluene	126	11.980	11.983	-0.003	98	176645	50.0	50.1	
108 tert-Butylbenzene	119	12.284	12.287	-0.003	93	440215	50.0	47.0	
110 1,2,4-Trimethylbenzene	105	12.332	12.335	-0.003	97	532516	50.0	48.0	
111 1,2-dichloro-4-(trifluorom	214	12.399	12.402	-0.003	98	135023	50.0	38.5	
112 sec-Butylbenzene	105	12.509	12.506	0.003	94	623325	50.0	47.3	
113 1,3-Dichlorobenzene	146	12.612	12.615	-0.003	97	280842	50.0	48.5	
114 4-Isopropyltoluene	119	12.649	12.652	-0.003	96	512792	50.0	47.1	
115 1,4-Dichlorobenzene	146	12.704	12.707	-0.003	94	288297	50.0	48.8	
116 2,4-Dichloro-1-(trifluorom	214	12.758	12.755	0.003	96	125288	50.0	38.2	
118 2,5-Dichlorobenzotrifluori	214	12.807	12.804	0.003	0	137440	50.0	37.4	
120 n-Butylbenzene	91	13.062	13.059	0.003	98	448489	50.0	45.3	
121 1,2-Dichlorobenzene	146	13.075	13.078	-0.003	97	259328	50.0	48.4	
122 1,2-Dibromo-3-Chloropropan	75	13.859	13.856	0.003	77	22549	50.0	51.4	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.005	14.002	0.003	0	476638	150.0	117.7	
125 2,3- & 3,4- Dichlorotoluen	125	14.419	14.422	-0.003	0	297748	100.0	75.6	
126 1,2,4-Trichlorobenzene	180	14.693	14.690	0.003	94	106340	50.0	38.1	
127 Hexachlorobutadiene	225	14.857	14.860	-0.003	96	54311	50.0	40.6	
128 Naphthalene	128	14.942	14.939	0.003	97	284439	50.0	38.8	
129 1,2,3-Trichlorobenzene	180	15.186	15.183	0.004	96	89040	50.0	38.9	
131 2,4,5-Trichlorotoluene	159	15.958	15.967	-0.009	0	34797	50.0	28.3	
130 2,3,6-Trichlorotoluene	159	16.062	16.065	-0.003	96	31722	50.0	28.6	
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	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
S 134 1,2-Dichloroethene, Total	96				0		100.0	95.9	
S 133 Xylenes, Total	106				0		100.0	106.3	
S 135 1,3-Dichloropropene, Total	1				0		100.0	123.8	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOA8260VOA2ND_00111	Amount Added: 2.00	Units: uL	
voaWKetpri Re_00004	Amount Added: 2.00	Units: uL	
voaW2-cle pri_00006	Amount Added: 2.00	Units: uL	
voaW ee2nd_00001	Amount Added: 2.00	Units: uL	
voaW VA pri R_00005	Amount Added: 2.00	Units: uL	
VOAACRO2ND_00007	Amount Added: 6.00	Units: uL	
VOA8260INT_00031	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00033	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP5\20150422-6584.b\50422011.D

Injection Date: 22-Apr-2015 15:04:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: LCS

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

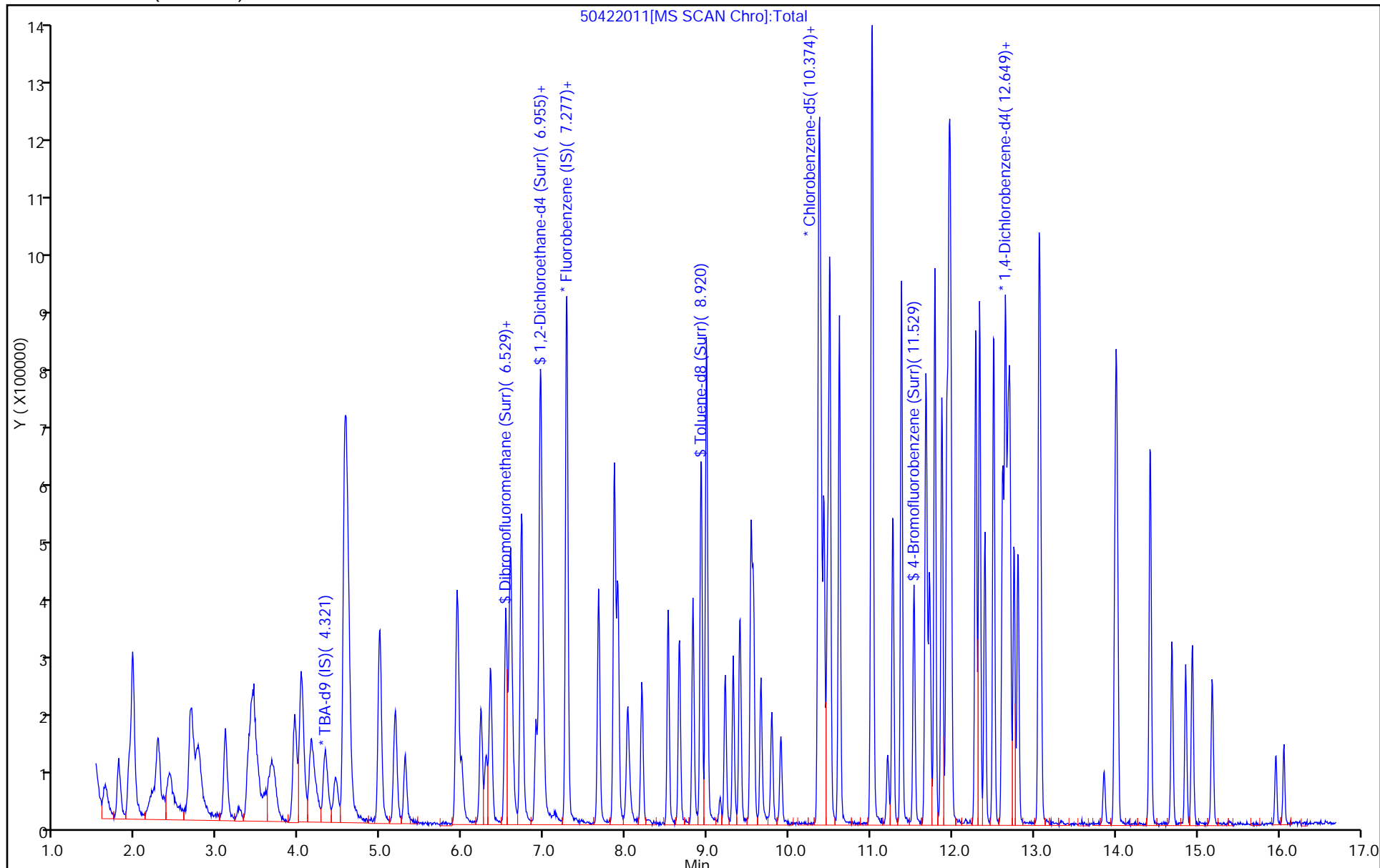
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-43185-1

SDG No.: _____

Instrument ID: CHHP5 Start Date: 03/16/2015 10:49

Analysis Batch Number: 135593 End Date: 03/16/2015 17:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-135593/1		03/16/2015 10:49	1	50316001.D	DB-624 0.18 (mm)
IC 180-135593/4		03/16/2015 12:41	1	50316004.D	DB-624 0.18 (mm)
ICIS 180-135593/5		03/16/2015 13:05	1	50316005.D	DB-624 0.18 (mm)
IC 180-135593/6		03/16/2015 13:29	1	50316006.D	DB-624 0.18 (mm)
IC 180-135593/7		03/16/2015 13:53	1	50316007.D	DB-624 0.18 (mm)
IC 180-135593/8		03/16/2015 14:17	1	50316008.D	DB-624 0.18 (mm)
IC 180-135593/9		03/16/2015 14:41	1	50316009.D	DB-624 0.18 (mm)
IC 180-135593/10		03/16/2015 15:05	1	50316010.D	DB-624 0.18 (mm)
IC 180-135593/13		03/16/2015 16:17	1	50316013.D	DB-624 0.18 (mm)
ICV 180-135593/15		03/16/2015 17:05	1		DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-43185-1

SDG No.: _____

Instrument ID: CHHP5 Start Date: 04/21/2015 10:57

Analysis Batch Number: 139148 End Date: 04/21/2015 22:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-139148/4		04/21/2015 10:57	1	50421004.D	DB-624 0.18 (mm)
CCVIS 180-139148/2		04/21/2015 11:38	1	50421002.D	DB-624 0.18 (mm)
CCV 180-139148/3		04/21/2015 12:02	1	50421003.D	DB-624 0.18 (mm)
MB 180-139148/6		04/21/2015 12:50	1	50421006.D	DB-624 0.18 (mm)
ZZZZZ		04/21/2015 13:25	1		DB-624 0.18 (mm)
ZZZZZ		04/21/2015 13:49	1		DB-624 0.18 (mm)
LCS 180-139148/9		04/21/2015 14:13	1	50421009.D	DB-624 0.18 (mm)
ZZZZZ		04/21/2015 14:38	1		DB-624 0.18 (mm)
ZZZZZ		04/21/2015 15:02	1		DB-624 0.18 (mm)
ZZZZZ		04/21/2015 15:50	3		DB-624 0.18 (mm)
ZZZZZ		04/21/2015 16:14	1		DB-624 0.18 (mm)
ZZZZZ		04/21/2015 16:38	1		DB-624 0.18 (mm)
ZZZZZ		04/21/2015 17:02	1		DB-624 0.18 (mm)
ZZZZZ		04/21/2015 17:26	1		DB-624 0.18 (mm)
ZZZZZ		04/21/2015 17:50	1		DB-624 0.18 (mm)
ZZZZZ		04/21/2015 18:15	1		DB-624 0.18 (mm)
ZZZZZ		04/21/2015 18:39	1		DB-624 0.18 (mm)
ZZZZZ		04/21/2015 19:03	1		DB-624 0.18 (mm)
ZZZZZ		04/21/2015 19:27	20		DB-624 0.18 (mm)
ZZZZZ		04/21/2015 19:51	12.5		DB-624 0.18 (mm)
ZZZZZ		04/21/2015 20:15	1		DB-624 0.18 (mm)
180-43185-1	HD-QC2-0/1-2	04/21/2015 21:03	1	50421026.D	DB-624 0.18 (mm)
ZZZZZ		04/21/2015 21:27	1		DB-624 0.18 (mm)
ZZZZZ		04/21/2015 21:52	1		DB-624 0.18 (mm)
ZZZZZ		04/21/2015 22:16	2.5		DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-43185-1

SDG No.: _____

Instrument ID: CHHP5 Start Date: 04/22/2015 10:27

Analysis Batch Number: 139271 End Date: 04/22/2015 21:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-139271/1		04/22/2015 10:27	1	50422001.D	DB-624 0.18 (mm)
CCVIS 180-139271/2		04/22/2015 11:10	1	50422002.D	DB-624 0.18 (mm)
CCV 180-139271/3		04/22/2015 11:34	1	50422003.D	DB-624 0.18 (mm)
MB 180-139271/5		04/22/2015 12:26	1	50422005.D	DB-624 0.18 (mm)
ZZZZZ		04/22/2015 13:04	1		DB-624 0.18 (mm)
ZZZZZ		04/22/2015 13:28	1		DB-624 0.18 (mm)
ZZZZZ		04/22/2015 14:16	1		DB-624 0.18 (mm)
ZZZZZ		04/22/2015 14:40	1		DB-624 0.18 (mm)
LCS 180-139271/11		04/22/2015 15:04	1	50422011.D	DB-624 0.18 (mm)
180-43185-2 DL	HD-MW-64S-0/1-0 DL	04/22/2015 15:52	2	50422013.D	DB-624 0.18 (mm)
ZZZZZ		04/22/2015 16:17	1		DB-624 0.18 (mm)
ZZZZZ		04/22/2015 16:41	1		DB-624 0.18 (mm)
ZZZZZ		04/22/2015 17:05	1		DB-624 0.18 (mm)
ZZZZZ		04/22/2015 17:29	1		DB-624 0.18 (mm)
ZZZZZ		04/22/2015 17:53	1		DB-624 0.18 (mm)
ZZZZZ		04/22/2015 18:17	1		DB-624 0.18 (mm)
ZZZZZ		04/22/2015 18:42	1		DB-624 0.18 (mm)
ZZZZZ		04/22/2015 19:06	1		DB-624 0.18 (mm)
ZZZZZ		04/22/2015 19:30	1		DB-624 0.18 (mm)
ZZZZZ		04/22/2015 19:54	1		DB-624 0.18 (mm)
ZZZZZ		04/22/2015 20:18	1		DB-624 0.18 (mm)
180-43185-2	HD-MW-64S-0/1-0	04/22/2015 20:42	1	50422025.D	DB-624 0.18 (mm)
ZZZZZ		04/22/2015 21:06	1		DB-624 0.18 (mm)
ZZZZZ		04/22/2015 21:30	1		DB-624 0.18 (mm)
ZZZZZ		04/22/2015 21:54	1		DB-624 0.18 (mm)

Shipping and Receiving Documents

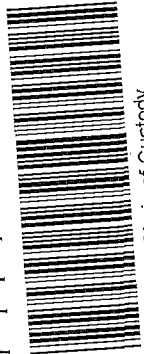
Sample Identification

HD-QC2-0/1-2
HD-MW-64S-0/1-0

Sample Date
Sample Time
Sample Type
Matrix
of Cont.

4/16/15 12:00 Trip Blank Water 2
4/16/15 9:20 Groundwater Water 3

180-43185 Chain of Custody



Sample Specific Notes:

Container No. 1
SDG No.

Date Submitted: 4/16/2015

Carrier: FEDEX

Site Contact: Jennifer S. Reese

Lab Contact: Carrie Gamber

COC No: TAP2015041601

1 of 1 COCs

Job No. 10012-16.0005

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Months

Possible Hazard Identification

Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments: CLP Like Deliverables

Relinquished by: (Print and Sign)

Company: GSC

Date/Time: 4/16/15 1325

Received by:

Company: JFA

Date/Time: 4/16/15 1325

Relinquished by: JFA

Company: JFA

Date/Time: 4/16/15 1618

Received by: Julie Westrom

Company: JFA

Date/Time: 4-17-15

Relinquished by:

Company:

Date/Time:

Received by:

Company:

Date/Time: 4-17-15

9:00

180-43185 Waybill



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

SHIP DATE
ACTWGT: 44.0 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

INV: PO: REF:

Uncorr Thermon lected temp 3.3 °C
meter ID

CF 6 Initials AB

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

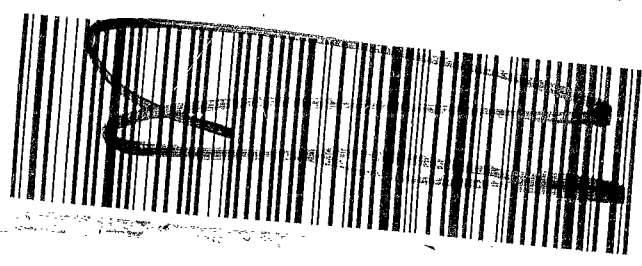


TRKH# 7733 9072 1502
0201

FRI - 17 APR AA
STANDARD OVERNIGHT

EV AGCA

15238
PA-US PIT



Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 180-43185-1

Login Number: 43185
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

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