

ANALYTICAL REPORT

Job Number: 180-42389-1

Job Description: Harley Davidson

For:

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

Attention: Allan Miller



Approved for release.
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Senior Project Manager
3/31/2015 1:32 PM

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03/31/2015

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Table of Contents

Cover Title Page	1
Data Summaries	4
Definitions	4
Case Narrative	5
Detection Summary	6
Client Sample Results	7
Default Detection Limits	16
Surrogate Summary	17
QC Sample Results	18
QC Association	24
Chronicle	25
Certification Summary	27
Method Summary	28
Sample Summary	29
Manual Integration Summary	30
Reagent Traceability	34
COAs	50
Organic Sample Data	101
GC/MS VOA	101
Method 8260C Low Level	101
Method 8260C Low Level QC Summary	102
Method 8260C Low Level Sample Data	116
Standards Data	186
Method 8260C Low Level ICAL Data	186
Method 8260C Low Level CCAL Data	245
Raw QC Data	271

Table of Contents

Method 8260C Low Level Tune Data	271
Method 8260C Low Level Blank Data	285
Method 8260C Low Level LCS/LCSD Data	299
Method 8260C Low Level MS/MSD Data	312
Method 8260C Low Level Run Logs	325
Shipping and Receiving Documents	328
Client Chain of Custody	329
Sample Receipt Checklist	331

Definitions/Glossary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-42389-1

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.
*	LCS or LCSD exceeds the control limits
F1	MS and/or MSD Recovery exceeds the control limits

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: 180-42389-1

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

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

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

RECEIPT

The samples were received on 03/26/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.2 C.

8260C

The laboratory control sample (LCS) for batch 180-136938 recovered outside control limits for the following analytes: 1,1,2,2-Tetrachloroethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The matrix spike/matrix spike duplicate of sample HD-MW-170-0/1-0 (180-42389-3) recovered outside of the control limits for several compounds.

Detection Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-42389-1

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

Lab Sample ID: 180-42389-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.74	J	1.0	0.17	ug/L	1		8260C	Total/NA
Bromodichloromethane	0.16	J	1.0	0.13	ug/L	1		8260C	Total/NA

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

Lab Sample ID: 180-42389-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.50	J	1.0	0.17	ug/L	1		8260C	Total/NA
Trichloroethene	0.89	J	1.0	0.14	ug/L	1		8260C	Total/NA
Tetrachloroethene	5.6		1.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: HD-MW-170-0/1-0

Lab Sample ID: 180-42389-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.27	J	1.0	0.17	ug/L	1		8260C	Total/NA

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

Lab Sample ID: 180-42389-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	10		5.0	2.5	ug/L	1		8260C	Total/NA
Carbon disulfide	0.31	J	1.0	0.21	ug/L	1		8260C	Total/NA
2-Butanone (MEK)	32		5.0	0.55	ug/L	1		8260C	Total/NA
Benzene	0.17	J	1.0	0.11	ug/L	1		8260C	Total/NA
Trichloroethene	0.36	J	1.0	0.14	ug/L	1		8260C	Total/NA
Toluene	0.29	J	1.0	0.15	ug/L	1		8260C	Total/NA
Tetrachloroethene	2.4		1.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: HD-MW-168-0/1-0

Lab Sample ID: 180-42389-5

No Detections.

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

Lab Sample ID: 180-42389-6

No Detections.

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

Lab Sample ID: 180-42389-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	2.0		1.0	0.17	ug/L	1		8260C	Total/NA
Trichloroethene	0.96	J	1.0	0.14	ug/L	1		8260C	Total/NA
Bromodichloromethane	0.38	J	1.0	0.13	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.85	J	1.0	0.15	ug/L	1		8260C	Total/NA

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

Lab Sample ID: 180-42389-8

No Detections.

Client Sample ID: HD-QC4-0/1-2

Lab Sample ID: 180-42389-9

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pittsburgh

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-42389-1

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

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

Lab Sample ID: 180-42389-1

Date Collected: 03/25/15 08:35

Matrix: Water

Date Received: 03/26/15 09:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			03/27/15 17:54	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/27/15 17:54	1
Bromomethane	1.0	U	1.0	0.31	ug/L			03/27/15 17:54	1
Chloroethane	1.0	U	1.0	0.21	ug/L			03/27/15 17:54	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			03/27/15 17:54	1
Acetone	5.0	U	5.0	2.5	ug/L			03/27/15 17:54	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			03/27/15 17:54	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			03/27/15 17:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/27/15 17:54	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			03/27/15 17:54	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			03/27/15 17:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			03/27/15 17:54	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			03/27/15 17:54	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			03/27/15 17:54	1
Chloroform	0.74	J	1.0	0.17	ug/L			03/27/15 17:54	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/27/15 17:54	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			03/27/15 17:54	1
Benzene	1.0	U	1.0	0.11	ug/L			03/27/15 17:54	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/27/15 17:54	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			03/27/15 17:54	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			03/27/15 17:54	1
Bromodichloromethane	0.16	J	1.0	0.13	ug/L			03/27/15 17:54	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			03/27/15 17:54	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			03/27/15 17:54	1
Toluene	1.0	U	1.0	0.15	ug/L			03/27/15 17:54	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			03/27/15 17:54	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			03/27/15 17:54	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/27/15 17:54	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			03/27/15 17:54	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			03/27/15 17:54	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			03/27/15 17:54	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/27/15 17:54	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			03/27/15 17:54	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			03/27/15 17:54	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			03/27/15 17:54	1
Styrene	1.0	U	1.0	0.097	ug/L			03/27/15 17:54	1
Bromoform	1.0	U	1.0	0.19	ug/L			03/27/15 17:54	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			03/27/15 17:54	1
Acrylonitrile	20	U	20	0.55	ug/L			03/27/15 17:54	1
1,4-Dioxane	200	U	200	34	ug/L			03/27/15 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		64 - 135		03/27/15 17:54	1
Toluene-d8 (Surr)	105		71 - 118		03/27/15 17:54	1
4-Bromofluorobenzene (Surr)	92		70 - 118		03/27/15 17:54	1
Dibromofluoromethane (Surr)	109		70 - 128		03/27/15 17:54	1

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-42389-1

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

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

Lab Sample ID: 180-42389-2

Date Collected: 03/25/15 08:58

Matrix: Water

Date Received: 03/26/15 09:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			03/27/15 18:18	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/27/15 18:18	1
Bromomethane	1.0	U	1.0	0.31	ug/L			03/27/15 18:18	1
Chloroethane	1.0	U	1.0	0.21	ug/L			03/27/15 18:18	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			03/27/15 18:18	1
Acetone	5.0	U	5.0	2.5	ug/L			03/27/15 18:18	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			03/27/15 18:18	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			03/27/15 18:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/27/15 18:18	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			03/27/15 18:18	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			03/27/15 18:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			03/27/15 18:18	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			03/27/15 18:18	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			03/27/15 18:18	1
Chloroform	0.50	J	1.0	0.17	ug/L			03/27/15 18:18	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/27/15 18:18	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			03/27/15 18:18	1
Benzene	1.0	U	1.0	0.11	ug/L			03/27/15 18:18	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/27/15 18:18	1
Trichloroethene	0.89	J	1.0	0.14	ug/L			03/27/15 18:18	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			03/27/15 18:18	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			03/27/15 18:18	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			03/27/15 18:18	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			03/27/15 18:18	1
Toluene	1.0	U	1.0	0.15	ug/L			03/27/15 18:18	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			03/27/15 18:18	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			03/27/15 18:18	1
Tetrachloroethene	5.6		1.0	0.15	ug/L			03/27/15 18:18	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			03/27/15 18:18	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			03/27/15 18:18	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			03/27/15 18:18	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/27/15 18:18	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			03/27/15 18:18	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			03/27/15 18:18	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			03/27/15 18:18	1
Styrene	1.0	U	1.0	0.097	ug/L			03/27/15 18:18	1
Bromoform	1.0	U	1.0	0.19	ug/L			03/27/15 18:18	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			03/27/15 18:18	1
Acrylonitrile	20	U	20	0.55	ug/L			03/27/15 18:18	1
1,4-Dioxane	200	U	200	34	ug/L			03/27/15 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		64 - 135		03/27/15 18:18	1
Toluene-d8 (Surr)	110		71 - 118		03/27/15 18:18	1
4-Bromofluorobenzene (Surr)	106		70 - 118		03/27/15 18:18	1
Dibromofluoromethane (Surr)	105		70 - 128		03/27/15 18:18	1

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-42389-1

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

Client Sample ID: HD-MW-170-0/1-0

Lab Sample ID: 180-42389-3

Date Collected: 03/25/15 09:18

Matrix: Water

Date Received: 03/26/15 09:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			03/30/15 12:14	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/30/15 12:14	1
Bromomethane	1.0	U	1.0	0.31	ug/L			03/30/15 12:14	1
Chloroethane	1.0	U	1.0	0.21	ug/L			03/30/15 12:14	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			03/30/15 12:14	1
Acetone	5.0	U	5.0	2.5	ug/L			03/30/15 12:14	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			03/30/15 12:14	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			03/30/15 12:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/30/15 12:14	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			03/30/15 12:14	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			03/30/15 12:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			03/30/15 12:14	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			03/30/15 12:14	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			03/30/15 12:14	1
Chloroform	0.27	J	1.0	0.17	ug/L			03/30/15 12:14	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/30/15 12:14	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			03/30/15 12:14	1
Benzene	1.0	U	1.0	0.11	ug/L			03/30/15 12:14	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/30/15 12:14	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			03/30/15 12:14	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			03/30/15 12:14	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			03/30/15 12:14	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			03/30/15 12:14	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			03/30/15 12:14	1
Toluene	1.0	U	1.0	0.15	ug/L			03/30/15 12:14	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			03/30/15 12:14	1
1,1,2-Trichloroethane	1.0	U F1	1.0	0.20	ug/L			03/30/15 12:14	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/30/15 12:14	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			03/30/15 12:14	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			03/30/15 12:14	1
1,2-Dibromoethane (EDB)	1.0	U F1	1.0	0.18	ug/L			03/30/15 12:14	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/30/15 12:14	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			03/30/15 12:14	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			03/30/15 12:14	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			03/30/15 12:14	1
Styrene	1.0	U	1.0	0.097	ug/L			03/30/15 12:14	1
Bromoform	1.0	U	1.0	0.19	ug/L			03/30/15 12:14	1
1,1,2,2-Tetrachloroethane	1.0	U F1 *	1.0	0.20	ug/L			03/30/15 12:14	1
Acrylonitrile	20	U	20	0.55	ug/L			03/30/15 12:14	1
1,4-Dioxane	200	U	200	34	ug/L			03/30/15 12:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	125		64 - 135		03/30/15 12:14	1
Toluene-d8 (Surr)	104		71 - 118		03/30/15 12:14	1
4-Bromofluorobenzene (Surr)	96		70 - 118		03/30/15 12:14	1
Dibromofluoromethane (Surr)	108		70 - 128		03/30/15 12:14	1

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-42389-1

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

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

Lab Sample ID: 180-42389-4

Date Collected: 03/25/15 11:50

Matrix: Water

Date Received: 03/26/15 09:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			03/30/15 14:39	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/30/15 14:39	1
Bromomethane	1.0	U	1.0	0.31	ug/L			03/30/15 14:39	1
Chloroethane	1.0	U	1.0	0.21	ug/L			03/30/15 14:39	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			03/30/15 14:39	1
Acetone	10		5.0	2.5	ug/L			03/30/15 14:39	1
Carbon disulfide	0.31	J	1.0	0.21	ug/L			03/30/15 14:39	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			03/30/15 14:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/30/15 14:39	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			03/30/15 14:39	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			03/30/15 14:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			03/30/15 14:39	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			03/30/15 14:39	1
2-Butanone (MEK)	32		5.0	0.55	ug/L			03/30/15 14:39	1
Chloroform	1.0	U	1.0	0.17	ug/L			03/30/15 14:39	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/30/15 14:39	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			03/30/15 14:39	1
Benzene	0.17	J	1.0	0.11	ug/L			03/30/15 14:39	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/30/15 14:39	1
Trichloroethene	0.36	J	1.0	0.14	ug/L			03/30/15 14:39	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			03/30/15 14:39	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			03/30/15 14:39	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			03/30/15 14:39	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			03/30/15 14:39	1
Toluene	0.29	J	1.0	0.15	ug/L			03/30/15 14:39	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			03/30/15 14:39	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			03/30/15 14:39	1
Tetrachloroethene	2.4		1.0	0.15	ug/L			03/30/15 14:39	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			03/30/15 14:39	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			03/30/15 14:39	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			03/30/15 14:39	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/30/15 14:39	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			03/30/15 14:39	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			03/30/15 14:39	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			03/30/15 14:39	1
Styrene	1.0	U	1.0	0.097	ug/L			03/30/15 14:39	1
Bromoform	1.0	U	1.0	0.19	ug/L			03/30/15 14:39	1
1,1,2,2-Tetrachloroethane	1.0	U *	1.0	0.20	ug/L			03/30/15 14:39	1
Acrylonitrile	20	U	20	0.55	ug/L			03/30/15 14:39	1
1,4-Dioxane	200	U	200	34	ug/L			03/30/15 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		64 - 135		03/30/15 14:39	1
Toluene-d8 (Surr)	103		71 - 118		03/30/15 14:39	1
4-Bromofluorobenzene (Surr)	103		70 - 118		03/30/15 14:39	1
Dibromofluoromethane (Surr)	105		70 - 128		03/30/15 14:39	1

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-42389-1

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

Client Sample ID: HD-MW-168-0/1-0

Lab Sample ID: 180-42389-5

Date Collected: 03/25/15 12:18

Matrix: Water

Date Received: 03/26/15 09:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			03/30/15 15:03	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/30/15 15:03	1
Bromomethane	1.0	U	1.0	0.31	ug/L			03/30/15 15:03	1
Chloroethane	1.0	U	1.0	0.21	ug/L			03/30/15 15:03	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			03/30/15 15:03	1
Acetone	5.0	U	5.0	2.5	ug/L			03/30/15 15:03	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			03/30/15 15:03	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			03/30/15 15:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/30/15 15:03	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			03/30/15 15:03	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			03/30/15 15:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			03/30/15 15:03	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			03/30/15 15:03	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			03/30/15 15:03	1
Chloroform	1.0	U	1.0	0.17	ug/L			03/30/15 15:03	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/30/15 15:03	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			03/30/15 15:03	1
Benzene	1.0	U	1.0	0.11	ug/L			03/30/15 15:03	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/30/15 15:03	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			03/30/15 15:03	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			03/30/15 15:03	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			03/30/15 15:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			03/30/15 15:03	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			03/30/15 15:03	1
Toluene	1.0	U	1.0	0.15	ug/L			03/30/15 15:03	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			03/30/15 15:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			03/30/15 15:03	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/30/15 15:03	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			03/30/15 15:03	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			03/30/15 15:03	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			03/30/15 15:03	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/30/15 15:03	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			03/30/15 15:03	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			03/30/15 15:03	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			03/30/15 15:03	1
Styrene	1.0	U	1.0	0.097	ug/L			03/30/15 15:03	1
Bromoform	1.0	U	1.0	0.19	ug/L			03/30/15 15:03	1
1,1,2,2-Tetrachloroethane	1.0	U *	1.0	0.20	ug/L			03/30/15 15:03	1
Acrylonitrile	20	U	20	0.55	ug/L			03/30/15 15:03	1
1,4-Dioxane	200	U	200	34	ug/L			03/30/15 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		64 - 135		03/30/15 15:03	1
Toluene-d8 (Surr)	110		71 - 118		03/30/15 15:03	1
4-Bromofluorobenzene (Surr)	98		70 - 118		03/30/15 15:03	1
Dibromofluoromethane (Surr)	106		70 - 128		03/30/15 15:03	1

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-42389-1

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

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

Lab Sample ID: 180-42389-6

Date Collected: 03/25/15 12:32

Matrix: Water

Date Received: 03/26/15 09:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			03/30/15 15:27	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/30/15 15:27	1
Bromomethane	1.0	U	1.0	0.31	ug/L			03/30/15 15:27	1
Chloroethane	1.0	U	1.0	0.21	ug/L			03/30/15 15:27	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			03/30/15 15:27	1
Acetone	5.0	U	5.0	2.5	ug/L			03/30/15 15:27	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			03/30/15 15:27	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			03/30/15 15:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/30/15 15:27	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			03/30/15 15:27	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			03/30/15 15:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			03/30/15 15:27	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			03/30/15 15:27	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			03/30/15 15:27	1
Chloroform	1.0	U	1.0	0.17	ug/L			03/30/15 15:27	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/30/15 15:27	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			03/30/15 15:27	1
Benzene	1.0	U	1.0	0.11	ug/L			03/30/15 15:27	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/30/15 15:27	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			03/30/15 15:27	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			03/30/15 15:27	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			03/30/15 15:27	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			03/30/15 15:27	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			03/30/15 15:27	1
Toluene	1.0	U	1.0	0.15	ug/L			03/30/15 15:27	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			03/30/15 15:27	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			03/30/15 15:27	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/30/15 15:27	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			03/30/15 15:27	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			03/30/15 15:27	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			03/30/15 15:27	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/30/15 15:27	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			03/30/15 15:27	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			03/30/15 15:27	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			03/30/15 15:27	1
Styrene	1.0	U	1.0	0.097	ug/L			03/30/15 15:27	1
Bromoform	1.0	U	1.0	0.19	ug/L			03/30/15 15:27	1
1,1,2,2-Tetrachloroethane	1.0	U *	1.0	0.20	ug/L			03/30/15 15:27	1
Acrylonitrile	20	U	20	0.55	ug/L			03/30/15 15:27	1
1,4-Dioxane	200	U	200	34	ug/L			03/30/15 15:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		64 - 135		03/30/15 15:27	1
Toluene-d8 (Surr)	107		71 - 118		03/30/15 15:27	1
4-Bromofluorobenzene (Surr)	100		70 - 118		03/30/15 15:27	1
Dibromofluoromethane (Surr)	104		70 - 128		03/30/15 15:27	1

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-42389-1

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

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

Lab Sample ID: 180-42389-7

Date Collected: 03/25/15 12:58

Matrix: Water

Date Received: 03/26/15 09:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			03/30/15 15:51	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/30/15 15:51	1
Bromomethane	1.0	U	1.0	0.31	ug/L			03/30/15 15:51	1
Chloroethane	1.0	U	1.0	0.21	ug/L			03/30/15 15:51	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			03/30/15 15:51	1
Acetone	5.0	U	5.0	2.5	ug/L			03/30/15 15:51	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			03/30/15 15:51	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			03/30/15 15:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/30/15 15:51	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			03/30/15 15:51	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			03/30/15 15:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			03/30/15 15:51	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			03/30/15 15:51	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			03/30/15 15:51	1
Chloroform	2.0		1.0	0.17	ug/L			03/30/15 15:51	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/30/15 15:51	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			03/30/15 15:51	1
Benzene	1.0	U	1.0	0.11	ug/L			03/30/15 15:51	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/30/15 15:51	1
Trichloroethene	0.96	J	1.0	0.14	ug/L			03/30/15 15:51	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			03/30/15 15:51	1
Bromodichloromethane	0.38	J	1.0	0.13	ug/L			03/30/15 15:51	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			03/30/15 15:51	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			03/30/15 15:51	1
Toluene	1.0	U	1.0	0.15	ug/L			03/30/15 15:51	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			03/30/15 15:51	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			03/30/15 15:51	1
Tetrachloroethene	0.85	J	1.0	0.15	ug/L			03/30/15 15:51	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			03/30/15 15:51	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			03/30/15 15:51	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			03/30/15 15:51	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/30/15 15:51	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			03/30/15 15:51	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			03/30/15 15:51	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			03/30/15 15:51	1
Styrene	1.0	U	1.0	0.097	ug/L			03/30/15 15:51	1
Bromoform	1.0	U	1.0	0.19	ug/L			03/30/15 15:51	1
1,1,2,2-Tetrachloroethane	1.0	U *	1.0	0.20	ug/L			03/30/15 15:51	1
Acrylonitrile	20	U	20	0.55	ug/L			03/30/15 15:51	1
1,4-Dioxane	200	U	200	34	ug/L			03/30/15 15:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	125		64 - 135		03/30/15 15:51	1
Toluene-d8 (Surr)	107		71 - 118		03/30/15 15:51	1
4-Bromofluorobenzene (Surr)	97		70 - 118		03/30/15 15:51	1
Dibromofluoromethane (Surr)	107		70 - 128		03/30/15 15:51	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-42389-1

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

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

Lab Sample ID: 180-42389-8

Date Collected: 03/25/15 13:28

Matrix: Water

Date Received: 03/26/15 09:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			03/30/15 16:15	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/30/15 16:15	1
Bromomethane	1.0	U	1.0	0.31	ug/L			03/30/15 16:15	1
Chloroethane	1.0	U	1.0	0.21	ug/L			03/30/15 16:15	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			03/30/15 16:15	1
Acetone	5.0	U	5.0	2.5	ug/L			03/30/15 16:15	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			03/30/15 16:15	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			03/30/15 16:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/30/15 16:15	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			03/30/15 16:15	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			03/30/15 16:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			03/30/15 16:15	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			03/30/15 16:15	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			03/30/15 16:15	1
Chloroform	1.0	U	1.0	0.17	ug/L			03/30/15 16:15	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/30/15 16:15	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			03/30/15 16:15	1
Benzene	1.0	U	1.0	0.11	ug/L			03/30/15 16:15	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/30/15 16:15	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			03/30/15 16:15	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			03/30/15 16:15	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			03/30/15 16:15	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			03/30/15 16:15	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			03/30/15 16:15	1
Toluene	1.0	U	1.0	0.15	ug/L			03/30/15 16:15	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			03/30/15 16:15	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			03/30/15 16:15	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/30/15 16:15	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			03/30/15 16:15	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			03/30/15 16:15	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			03/30/15 16:15	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/30/15 16:15	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			03/30/15 16:15	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			03/30/15 16:15	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			03/30/15 16:15	1
Styrene	1.0	U	1.0	0.097	ug/L			03/30/15 16:15	1
Bromoform	1.0	U	1.0	0.19	ug/L			03/30/15 16:15	1
1,1,2,2-Tetrachloroethane	1.0	U *	1.0	0.20	ug/L			03/30/15 16:15	1
Acrylonitrile	20	U	20	0.55	ug/L			03/30/15 16:15	1
1,4-Dioxane	200	U	200	34	ug/L			03/30/15 16:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		64 - 135		03/30/15 16:15	1
Toluene-d8 (Surr)	102		71 - 118		03/30/15 16:15	1
4-Bromofluorobenzene (Surr)	96		70 - 118		03/30/15 16:15	1
Dibromofluoromethane (Surr)	107		70 - 128		03/30/15 16:15	1

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-42389-1

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

Client Sample ID: HD-QC4-0/1-2

Lab Sample ID: 180-42389-9

Date Collected: 03/25/15 12:00

Matrix: Water

Date Received: 03/26/15 09:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			03/30/15 12:38	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/30/15 12:38	1
Bromomethane	1.0	U	1.0	0.31	ug/L			03/30/15 12:38	1
Chloroethane	1.0	U	1.0	0.21	ug/L			03/30/15 12:38	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			03/30/15 12:38	1
Acetone	5.0	U	5.0	2.5	ug/L			03/30/15 12:38	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			03/30/15 12:38	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			03/30/15 12:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/30/15 12:38	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			03/30/15 12:38	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			03/30/15 12:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			03/30/15 12:38	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			03/30/15 12:38	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			03/30/15 12:38	1
Chloroform	1.0	U	1.0	0.17	ug/L			03/30/15 12:38	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/30/15 12:38	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			03/30/15 12:38	1
Benzene	1.0	U	1.0	0.11	ug/L			03/30/15 12:38	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/30/15 12:38	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			03/30/15 12:38	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			03/30/15 12:38	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			03/30/15 12:38	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			03/30/15 12:38	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			03/30/15 12:38	1
Toluene	1.0	U	1.0	0.15	ug/L			03/30/15 12:38	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			03/30/15 12:38	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			03/30/15 12:38	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/30/15 12:38	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			03/30/15 12:38	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			03/30/15 12:38	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			03/30/15 12:38	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/30/15 12:38	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			03/30/15 12:38	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			03/30/15 12:38	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			03/30/15 12:38	1
Styrene	1.0	U	1.0	0.097	ug/L			03/30/15 12:38	1
Bromoform	1.0	U	1.0	0.19	ug/L			03/30/15 12:38	1
1,1,2,2-Tetrachloroethane	1.0	U *	1.0	0.20	ug/L			03/30/15 12:38	1
Acrylonitrile	20	U	20	0.55	ug/L			03/30/15 12:38	1
1,4-Dioxane	200	U	200	34	ug/L			03/30/15 12:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		64 - 135		03/30/15 12:38	1
Toluene-d8 (Surr)	111		71 - 118		03/30/15 12:38	1
4-Bromofluorobenzene (Surr)	101		70 - 118		03/30/15 12:38	1
Dibromofluoromethane (Surr)	107		70 - 128		03/30/15 12:38	1

Default Detection Limits

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-42389-1

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: 180-42389-1

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)
180-42389-1	HD-MW-175-0/1-0	119	105	92	109
180-42389-2	HD-MW-174-0/1-0	122	110	106	105
180-42389-3	HD-MW-170-0/1-0	125	104	96	108
180-42389-3 MS	HD-MW-170-0/1-0	111	99	98	100
180-42389-3 MSD	HD-MW-170-0/1-0	124	108	107	103
180-42389-4	HD-MW-171-0/1-0	116	103	103	105
180-42389-5	HD-MW-168-0/1-0	122	110	98	106
180-42389-6	HD-MW-173-0/1-0	122	107	100	104
180-42389-7	HD-MW-166-0/1-0	125	107	97	107
180-42389-8	HD-MW-172-0/1-0	121	102	96	107
180-42389-9	HD-QC4-0/1-2	121	111	101	107
LCS 180-136799/8	Lab Control Sample	113	105	102	102
LCS 180-136938/8	Lab Control Sample	121	100	101	100
MB 180-136799/6	Method Blank	120	110	101	105
MB 180-136938/5	Method Blank	121	106	98	104

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: 180-42389-1

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

Lab Sample ID: MB 180-136799/6

Matrix: Water

Analysis Batch: 136799

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloromethane	1.0	U	1.0	0.28	ug/L			03/27/15 14:21	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/27/15 14:21	1
Bromomethane	1.0	U	1.0	0.31	ug/L			03/27/15 14:21	1
Chloroethane	1.0	U	1.0	0.21	ug/L			03/27/15 14:21	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			03/27/15 14:21	1
Acetone	5.0	U	5.0	2.5	ug/L			03/27/15 14:21	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			03/27/15 14:21	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			03/27/15 14:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/27/15 14:21	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			03/27/15 14:21	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			03/27/15 14:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			03/27/15 14:21	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			03/27/15 14:21	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			03/27/15 14:21	1
Chloroform	1.0	U	1.0	0.17	ug/L			03/27/15 14:21	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/27/15 14:21	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			03/27/15 14:21	1
Benzene	1.0	U	1.0	0.11	ug/L			03/27/15 14:21	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/27/15 14:21	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			03/27/15 14:21	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			03/27/15 14:21	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			03/27/15 14:21	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			03/27/15 14:21	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			03/27/15 14:21	1
Toluene	1.0	U	1.0	0.15	ug/L			03/27/15 14:21	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			03/27/15 14:21	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			03/27/15 14:21	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/27/15 14:21	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			03/27/15 14:21	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			03/27/15 14:21	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			03/27/15 14:21	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/27/15 14:21	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			03/27/15 14:21	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			03/27/15 14:21	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			03/27/15 14:21	1
Styrene	1.0	U	1.0	0.097	ug/L			03/27/15 14:21	1
Bromoform	1.0	U	1.0	0.19	ug/L			03/27/15 14:21	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			03/27/15 14:21	1
Acrylonitrile	20	U	20	0.55	ug/L			03/27/15 14:21	1
1,4-Dioxane	200	U	200	34	ug/L			03/27/15 14:21	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	120		64 - 135		03/27/15 14:21	1
Toluene-d8 (Surr)	110		71 - 118		03/27/15 14:21	1
4-Bromofluorobenzene (Surr)	101		70 - 118		03/27/15 14:21	1
Dibromofluoromethane (Surr)	105		70 - 128		03/27/15 14:21	1

TestAmerica Pittsburgh

QC Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-42389-1

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

Lab Sample ID: LCS 180-136799/8

Matrix: Water

Analysis Batch: 136799

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	7.58		ug/L		76	50 - 139
Vinyl chloride	10.0	8.58		ug/L		86	53 - 138
Bromomethane	10.0	10.3		ug/L		103	33 - 150
Chloroethane	10.0	8.57		ug/L		86	36 - 142
1,1-Dichloroethene	10.0	9.57		ug/L		96	65 - 136
Acetone	20.0	21.7		ug/L		109	22 - 150
Carbon disulfide	10.0	7.51		ug/L		75	54 - 132
Methylene Chloride	10.0	7.93		ug/L		79	63 - 129
trans-1,2-Dichloroethene	10.0	8.52		ug/L		85	73 - 126
Methyl tert-butyl ether	10.0	9.32		ug/L		93	64 - 123
1,1-Dichloroethane	10.0	8.34		ug/L		83	73 - 126
cis-1,2-Dichloroethene	10.0	8.47		ug/L		85	70 - 120
Bromochloromethane	10.0	8.72		ug/L		87	70 - 127
2-Butanone (MEK)	20.0	18.5		ug/L		92	39 - 138
Chloroform	10.0	9.10		ug/L		91	72 - 127
1,1,1-Trichloroethane	10.0	7.97		ug/L		80	63 - 133
Carbon tetrachloride	10.0	7.98		ug/L		80	55 - 150
Benzene	10.0	9.51		ug/L		95	80 - 120
1,2-Dichloroethane	10.0	11.1		ug/L		111	68 - 132
Trichloroethene	10.0	8.19		ug/L		82	73 - 120
1,2-Dichloropropane	10.0	8.43		ug/L		84	76 - 124
Bromodichloromethane	10.0	8.72		ug/L		87	66 - 130
cis-1,3-Dichloropropene	10.0	7.92		ug/L		79	66 - 120
4-Methyl-2-pentanone (MIBK)	20.0	19.8		ug/L		99	45 - 145
Toluene	10.0	10.2		ug/L		102	80 - 123
trans-1,3-Dichloropropene	10.0	8.92		ug/L		89	65 - 125
1,1,2-Trichloroethane	10.0	11.1		ug/L		111	77 - 127
Tetrachloroethene	10.0	9.76		ug/L		98	70 - 135
2-Hexanone	20.0	22.2		ug/L		111	25 - 132
Dibromochloromethane	10.0	8.68		ug/L		87	60 - 140
1,2-Dibromoethane (EDB)	10.0	10.6		ug/L		106	74 - 123
Chlorobenzene	10.0	9.61		ug/L		96	80 - 120
1,1,1,2-Tetrachloroethane	10.0	8.06		ug/L		81	63 - 140
Ethylbenzene	10.0	8.97		ug/L		90	72 - 126
Xylenes, Total	20.0	17.6		ug/L		88	76 - 128
Styrene	10.0	9.98		ug/L		100	71 - 127
Bromoform	10.0	9.32		ug/L		93	46 - 150
1,1,2,2-Tetrachloroethane	10.0	12.3		ug/L		123	62 - 125
1,4-Dioxane	200	244		ug/L		122	10 - 160

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	113		64 - 135
Toluene-d8 (Surr)	105		71 - 118
4-Bromofluorobenzene (Surr)	102		70 - 118
Dibromofluoromethane (Surr)	102		70 - 128

QC Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-42389-1

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

Lab Sample ID: MB 180-136938/5

Matrix: Water

Analysis Batch: 136938

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloromethane	1.0	U	1.0	0.28	ug/L			03/30/15 11:37	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			03/30/15 11:37	1
Bromomethane	1.0	U	1.0	0.31	ug/L			03/30/15 11:37	1
Chloroethane	1.0	U	1.0	0.21	ug/L			03/30/15 11:37	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			03/30/15 11:37	1
Acetone	5.0	U	5.0	2.5	ug/L			03/30/15 11:37	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			03/30/15 11:37	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			03/30/15 11:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			03/30/15 11:37	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			03/30/15 11:37	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			03/30/15 11:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			03/30/15 11:37	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			03/30/15 11:37	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			03/30/15 11:37	1
Chloroform	1.0	U	1.0	0.17	ug/L			03/30/15 11:37	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			03/30/15 11:37	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			03/30/15 11:37	1
Benzene	1.0	U	1.0	0.11	ug/L			03/30/15 11:37	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/30/15 11:37	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			03/30/15 11:37	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			03/30/15 11:37	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			03/30/15 11:37	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			03/30/15 11:37	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			03/30/15 11:37	1
Toluene	1.0	U	1.0	0.15	ug/L			03/30/15 11:37	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			03/30/15 11:37	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			03/30/15 11:37	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/30/15 11:37	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			03/30/15 11:37	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			03/30/15 11:37	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			03/30/15 11:37	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/30/15 11:37	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			03/30/15 11:37	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			03/30/15 11:37	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			03/30/15 11:37	1
Styrene	1.0	U	1.0	0.097	ug/L			03/30/15 11:37	1
Bromoform	1.0	U	1.0	0.19	ug/L			03/30/15 11:37	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			03/30/15 11:37	1
Acrylonitrile	20	U	20	0.55	ug/L			03/30/15 11:37	1
1,4-Dioxane	200	U	200	34	ug/L			03/30/15 11:37	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	121		64 - 135		03/30/15 11:37	1
Toluene-d8 (Surr)	106		71 - 118		03/30/15 11:37	1
4-Bromofluorobenzene (Surr)	98		70 - 118		03/30/15 11:37	1
Dibromofluoromethane (Surr)	104		70 - 128		03/30/15 11:37	1

TestAmerica Pittsburgh

QC Sample Results

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-42389-1

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

Lab Sample ID: LCS 180-136938/8

Matrix: Water

Analysis Batch: 136938

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	10.0	8.62		ug/L		86	50 - 139
Vinyl chloride	10.0	9.46		ug/L		95	53 - 138
Bromomethane	10.0	11.2		ug/L		112	33 - 150
Chloroethane	10.0	8.96		ug/L		90	36 - 142
1,1-Dichloroethene	10.0	9.02		ug/L		90	65 - 136
Acetone	20.0	25.3		ug/L		126	22 - 150
Carbon disulfide	10.0	7.01		ug/L		70	54 - 132
Methylene Chloride	10.0	8.28		ug/L		83	63 - 129
trans-1,2-Dichloroethene	10.0	9.06		ug/L		91	73 - 126
Methyl tert-butyl ether	10.0	9.88		ug/L		99	64 - 123
1,1-Dichloroethane	10.0	8.96		ug/L		90	73 - 126
cis-1,2-Dichloroethene	10.0	9.00		ug/L		90	70 - 120
Bromochloromethane	10.0	9.63		ug/L		96	70 - 127
2-Butanone (MEK)	20.0	22.2		ug/L		111	39 - 138
Chloroform	10.0	9.75		ug/L		97	72 - 127
1,1,1-Trichloroethane	10.0	8.59		ug/L		86	63 - 133
Carbon tetrachloride	10.0	8.23		ug/L		82	55 - 150
Benzene	10.0	10.1		ug/L		101	80 - 120
1,2-Dichloroethane	10.0	11.9		ug/L		119	68 - 132
Trichloroethene	10.0	9.14		ug/L		91	73 - 120
1,2-Dichloropropane	10.0	9.50		ug/L		95	76 - 124
Bromodichloromethane	10.0	9.93		ug/L		99	66 - 130
cis-1,3-Dichloropropene	10.0	9.21		ug/L		92	66 - 120
4-Methyl-2-pentanone (MIBK)	20.0	19.2		ug/L		96	45 - 145
Toluene	10.0	10.7		ug/L		107	80 - 123
trans-1,3-Dichloropropene	10.0	10.8		ug/L		108	65 - 125
1,1,2-Trichloroethane	10.0	11.9		ug/L		119	77 - 127
Tetrachloroethene	10.0	9.91		ug/L		99	70 - 135
2-Hexanone	20.0	21.7		ug/L		108	25 - 132
Dibromochloromethane	10.0	10.2		ug/L		102	60 - 140
1,2-Dibromoethane (EDB)	10.0	12.2		ug/L		122	74 - 123
Chlorobenzene	10.0	10.8		ug/L		108	80 - 120
1,1,1,2-Tetrachloroethane	10.0	9.51		ug/L		95	63 - 140
Ethylbenzene	10.0	9.37		ug/L		94	72 - 126
Xylenes, Total	20.0	18.6		ug/L		93	76 - 128
Styrene	10.0	10.8		ug/L		108	71 - 127
Bromoform	10.0	11.5		ug/L		115	46 - 150
1,1,2,2-Tetrachloroethane	10.0	13.6	*	ug/L		136	62 - 125
1,4-Dioxane	200	286		ug/L		143	10 - 160

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	121		64 - 135
Toluene-d8 (Surr)	100		71 - 118
4-Bromofluorobenzene (Surr)	101		70 - 118
Dibromofluoromethane (Surr)	100		70 - 128

QC Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-42389-1

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

Lab Sample ID: 180-42389-3 MS

Matrix: Water

Analysis Batch: 136938

Client Sample ID: HD-MW-170-0/1-0

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Chloromethane	1.0	U	10.0	8.20		ug/L		82	50 - 139	
Vinyl chloride	1.0	U	10.0	8.92		ug/L		89	53 - 138	
Bromomethane	1.0	U	10.0	10.6		ug/L		106	33 - 150	
Chloroethane	1.0	U	10.0	8.89		ug/L		89	36 - 142	
1,1-Dichloroethene	1.0	U	10.0	8.45		ug/L		85	65 - 136	
Acetone	5.0	U	20.0	22.7		ug/L		114	22 - 150	
Carbon disulfide	1.0	U	10.0	6.42		ug/L		64	54 - 132	
Methylene Chloride	1.0	U	10.0	7.92		ug/L		79	63 - 129	
trans-1,2-Dichloroethene	1.0	U	10.0	8.50		ug/L		85	73 - 126	
Methyl tert-butyl ether	1.0	U	10.0	10.2		ug/L		102	64 - 123	
1,1-Dichloroethane	1.0	U	10.0	8.53		ug/L		85	73 - 126	
cis-1,2-Dichloroethene	1.0	U	10.0	8.88		ug/L		89	70 - 120	
Bromochloromethane	1.0	U	10.0	9.06		ug/L		91	70 - 127	
2-Butanone (MEK)	5.0	U	20.0	23.8		ug/L		119	39 - 138	
Chloroform	0.27	J	10.0	9.66		ug/L		94	72 - 127	
1,1,1-Trichloroethane	1.0	U	10.0	8.22		ug/L		82	63 - 133	
Carbon tetrachloride	1.0	U	10.0	7.67		ug/L		77	55 - 150	
Benzene	1.0	U	10.0	9.53		ug/L		95	80 - 120	
1,2-Dichloroethane	1.0	U	10.0	12.2		ug/L		122	68 - 132	
Trichloroethene	1.0	U	10.0	8.61		ug/L		86	73 - 120	
1,2-Dichloropropane	1.0	U	10.0	9.17		ug/L		92	76 - 124	
Bromodichloromethane	1.0	U	10.0	9.49		ug/L		95	66 - 130	
cis-1,3-Dichloropropene	1.0	U	10.0	9.02		ug/L		90	66 - 120	
4-Methyl-2-pentanone (MIBK)	5.0	U	20.0	20.7		ug/L		104	45 - 145	
Toluene	1.0	U	10.0	10.4		ug/L		104	80 - 123	
trans-1,3-Dichloropropene	1.0	U	10.0	10.8		ug/L		108	65 - 125	
1,1,2-Trichloroethane	1.0	U F1	10.0	11.5		ug/L		115	77 - 127	
Tetrachloroethene	1.0	U	10.0	9.56		ug/L		96	70 - 135	
2-Hexanone	5.0	U	20.0	23.0		ug/L		115	25 - 132	
Dibromochloromethane	1.0	U	10.0	10.1		ug/L		101	60 - 140	
1,2-Dibromoethane (EDB)	1.0	U F1	10.0	12.0		ug/L		120	74 - 123	
Chlorobenzene	1.0	U	10.0	10.3		ug/L		103	80 - 120	
1,1,1,2-Tetrachloroethane	1.0	U	10.0	9.25		ug/L		93	63 - 140	
Ethylbenzene	1.0	U	10.0	9.24		ug/L		92	72 - 126	
Xylenes, Total	3.0	U	20.0	18.9		ug/L		94	76 - 128	
Styrene	1.0	U	10.0	10.4		ug/L		104	71 - 127	
Bromoform	1.0	U	10.0	10.7		ug/L		107	46 - 150	
1,1,2,2-Tetrachloroethane	1.0	U F1 *	10.0	13.7	F1	ug/L		137	62 - 125	
1,4-Dioxane	200	U	200	276		ug/L		138	10 - 160	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	111		64 - 135							
Toluene-d8 (Surr)	99		71 - 118							
4-Bromofluorobenzene (Surr)	98		70 - 118							
Dibromofluoromethane (Surr)	100		70 - 128							

QC Sample Results

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-42389-1

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

Lab Sample ID: 180-42389-3 MSD

Matrix: Water

Analysis Batch: 136938

Client Sample ID: HD-MW-170-0/1-0

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Chloromethane	1.0	U	10.0	8.71		ug/L		87	50 - 139	6	35
Vinyl chloride	1.0	U	10.0	9.42		ug/L		94	53 - 138	5	35
Bromomethane	1.0	U	10.0	10.6		ug/L		106	33 - 150	0	35
Chloroethane	1.0	U	10.0	9.19		ug/L		92	36 - 142	3	35
1,1-Dichloroethene	1.0	U	10.0	8.72		ug/L		87	65 - 136	3	35
Acetone	5.0	U	20.0	23.9		ug/L		120	22 - 150	5	35
Carbon disulfide	1.0	U	10.0	6.47		ug/L		65	54 - 132	1	35
Methylene Chloride	1.0	U	10.0	7.85		ug/L		78	63 - 129	1	35
trans-1,2-Dichloroethene	1.0	U	10.0	9.08		ug/L		91	73 - 126	7	35
Methyl tert-butyl ether	1.0	U	10.0	10.5		ug/L		105	64 - 123	3	35
1,1-Dichloroethane	1.0	U	10.0	8.91		ug/L		89	73 - 126	4	35
cis-1,2-Dichloroethene	1.0	U	10.0	8.89		ug/L		89	70 - 120	0	35
Bromochloromethane	1.0	U	10.0	9.23		ug/L		92	70 - 127	2	35
2-Butanone (MEK)	5.0	U	20.0	21.4		ug/L		107	39 - 138	10	35
Chloroform	0.27	J	10.0	9.75		ug/L		95	72 - 127	1	35
1,1,1-Trichloroethane	1.0	U	10.0	8.27		ug/L		83	63 - 133	1	35
Carbon tetrachloride	1.0	U	10.0	7.84		ug/L		78	55 - 150	2	35
Benzene	1.0	U	10.0	9.50		ug/L		95	80 - 120	0	32
1,2-Dichloroethane	1.0	U	10.0	11.9		ug/L		119	68 - 132	2	32
Trichloroethene	1.0	U	10.0	8.80		ug/L		88	73 - 120	2	35
1,2-Dichloropropane	1.0	U	10.0	9.36		ug/L		94	76 - 124	2	34
Bromodichloromethane	1.0	U	10.0	9.78		ug/L		98	66 - 130	3	35
cis-1,3-Dichloropropene	1.0	U	10.0	8.98		ug/L		90	66 - 120	0	35
4-Methyl-2-pentanone (MIBK)	5.0	U	20.0	21.1		ug/L		105	45 - 145	2	35
Toluene	1.0	U	10.0	11.1		ug/L		111	80 - 123	6	35
trans-1,3-Dichloropropene	1.0	U	10.0	11.1		ug/L		111	65 - 125	3	35
1,1,2-Trichloroethane	1.0	U F1	10.0	13.1	F1	ug/L		131	77 - 127	13	35
Tetrachloroethene	1.0	U	10.0	10.7		ug/L		107	70 - 135	11	35
2-Hexanone	5.0	U	20.0	22.7		ug/L		113	25 - 132	1	35
Dibromochloromethane	1.0	U	10.0	10.8		ug/L		108	60 - 140	6	35
1,2-Dibromoethane (EDB)	1.0	U F1	10.0	12.9	F1	ug/L		129	74 - 123	8	35
Chlorobenzene	1.0	U	10.0	11.0		ug/L		110	80 - 120	7	29
1,1,1,2-Tetrachloroethane	1.0	U	10.0	10.0		ug/L		100	63 - 140	8	34
Ethylbenzene	1.0	U	10.0	9.92		ug/L		99	72 - 126	7	33
Xylenes, Total	3.0	U	20.0	19.7		ug/L		98	76 - 128	4	32
Styrene	1.0	U	10.0	11.0		ug/L		110	71 - 127	5	34
Bromoform	1.0	U	10.0	11.4		ug/L		114	46 - 150	6	35
1,1,2,2-Tetrachloroethane	1.0	U F1 *	10.0	14.6	F1	ug/L		146	62 - 125	6	35
1,4-Dioxane	200	U	200	300		ug/L		150	10 - 160	8	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	124		64 - 135
Toluene-d8 (Surr)	108		71 - 118
4-Bromofluorobenzene (Surr)	107		70 - 118
Dibromofluoromethane (Surr)	103		70 - 128

QC Association Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-42389-1

GC/MS VOA

Analysis Batch: 136799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-42389-1	HD-MW-175-0/1-0	Total/NA	Water	8260C	
180-42389-2	HD-MW-174-0/1-0	Total/NA	Water	8260C	
LCS 180-136799/8	Lab Control Sample	Total/NA	Water	8260C	
MB 180-136799/6	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 136938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-42389-3	HD-MW-170-0/1-0	Total/NA	Water	8260C	
180-42389-3 MS	HD-MW-170-0/1-0	Total/NA	Water	8260C	
180-42389-3 MSD	HD-MW-170-0/1-0	Total/NA	Water	8260C	
180-42389-4	HD-MW-171-0/1-0	Total/NA	Water	8260C	
180-42389-5	HD-MW-168-0/1-0	Total/NA	Water	8260C	
180-42389-6	HD-MW-173-0/1-0	Total/NA	Water	8260C	
180-42389-7	HD-MW-166-0/1-0	Total/NA	Water	8260C	
180-42389-8	HD-MW-172-0/1-0	Total/NA	Water	8260C	
180-42389-9	HD-QC4-0/1-2	Total/NA	Water	8260C	
LCS 180-136938/8	Lab Control Sample	Total/NA	Water	8260C	
MB 180-136938/5	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-42389-1

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

Date Collected: 03/25/15 08:35

Date Received: 03/26/15 09:10

Lab Sample ID: 180-42389-1

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	136799	03/27/15 17:54	DLF	TAL PIT
Instrument ID: CHHP6										

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

Date Collected: 03/25/15 08:58

Date Received: 03/26/15 09:10

Lab Sample ID: 180-42389-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	136799	03/27/15 18:18	DLF	TAL PIT
Instrument ID: CHHP6										

Client Sample ID: HD-MW-170-0/1-0

Date Collected: 03/25/15 09:18

Date Received: 03/26/15 09:10

Lab Sample ID: 180-42389-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	136938	03/30/15 12:14	DLF	TAL PIT
Instrument ID: CHHP6										

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

Date Collected: 03/25/15 11:50

Date Received: 03/26/15 09:10

Lab Sample ID: 180-42389-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	136938	03/30/15 14:39	DLF	TAL PIT
Instrument ID: CHHP6										

Client Sample ID: HD-MW-168-0/1-0

Date Collected: 03/25/15 12:18

Date Received: 03/26/15 09:10

Lab Sample ID: 180-42389-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	136938	03/30/15 15:03	DLF	TAL PIT
Instrument ID: CHHP6										

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

Date Collected: 03/25/15 12:32

Date Received: 03/26/15 09:10

Lab Sample ID: 180-42389-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	136938	03/30/15 15:27	DLF	TAL PIT
Instrument ID: CHHP6										

TestAmerica Pittsburgh

Lab Chronicle

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-42389-1

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

Date Collected: 03/25/15 12:58

Date Received: 03/26/15 09:10

Lab Sample ID: 180-42389-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	136938	03/30/15 15:51	DLF	TAL PIT
Instrument ID: CHHP6										

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

Date Collected: 03/25/15 13:28

Date Received: 03/26/15 09:10

Lab Sample ID: 180-42389-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	136938	03/30/15 16:15	DLF	TAL PIT
Instrument ID: CHHP6										

Client Sample ID: HD-QC4-0/1-2

Date Collected: 03/25/15 12:00

Date Received: 03/26/15 09:10

Lab Sample ID: 180-42389-9

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	136938	03/30/15 12:38	DLF	TAL PIT
Instrument ID: CHHP6										

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: 180-42389-1

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: 180-42389-1

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: 180-42389-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-42389-1	HD-MW-175-0/1-0	Water	03/25/15 08:35	03/26/15 09:10
180-42389-2	HD-MW-174-0/1-0	Water	03/25/15 08:58	03/26/15 09:10
180-42389-3	HD-MW-170-0/1-0	Water	03/25/15 09:18	03/26/15 09:10
180-42389-4	HD-MW-171-0/1-0	Water	03/25/15 11:50	03/26/15 09:10
180-42389-5	HD-MW-168-0/1-0	Water	03/25/15 12:18	03/26/15 09:10
180-42389-6	HD-MW-173-0/1-0	Water	03/25/15 12:32	03/26/15 09:10
180-42389-7	HD-MW-166-0/1-0	Water	03/25/15 12:58	03/26/15 09:10
180-42389-8	HD-MW-172-0/1-0	Water	03/25/15 13:28	03/26/15 09:10
180-42389-9	HD-QC4-0/1-2	Water	03/25/15 12:00	03/26/15 09:10

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1

SDG No.: _____

Instrument ID: CHHP6 Analysis Batch Number: 131929Lab Sample ID: IC 180-131929/6 Client Sample ID: _____Date Analyzed: 01/28/15 13:58 Lab File ID: 60128006.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.25	Poor chromatography	fergusond	01/29/15 10:25
Chloroethane	2.39	Poor chromatography	fergusond	01/29/15 10:25
Acrylonitrile	4.55	Poor chromatography	fergusond	01/29/15 10:25
Methyl tert-butyl ether	4.61	Split Peak	fergusond	01/29/15 10:25
1,1-Dichloroethane	5.25	Split Peak	fergusond	01/29/15 10:25
1,1,1,2-Tetrachloroethane	10.56	Poor chromatography	fergusond	01/29/15 10:25

Lab Sample ID: IC 180-131929/7 Client Sample ID: _____Date Analyzed: 01/28/15 14:21 Lab File ID: 60128007.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorofluoromethane	2.68	Baseline	fergusond	01/29/15 10:28
1,4-Dioxane	8.08	Peak Tail	fergusond	01/29/15 10:31
2-Hexanone	9.70	Baseline	fergusond	01/29/15 10:31

Lab Sample ID: ICIS 180-131929/8 Client Sample ID: _____Date Analyzed: 01/28/15 14:45 Lab File ID: 60128008.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	01/29/15 11:08

Lab Sample ID: IC 180-131929/9 Client Sample ID: _____Date Analyzed: 01/28/15 15:09 Lab File ID: 60128009.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.24	Peak Tail	fergusond	01/29/15 10:51
1,4-Dioxane	8.07	Poor chromatography	fergusond	01/29/15 10:54

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1

SDG No.: _____

Instrument ID: CHHP6 Analysis Batch Number: 131929

Lab Sample ID: IC 180-131929/10 Client Sample ID: _____

Date Analyzed: 01/28/15 15:33 Lab File ID: 60128010.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.08	Peak Tail	fergusond	01/29/15 10:53

Lab Sample ID: IC 180-131929/11 Client Sample ID: _____

Date Analyzed: 01/28/15 15:57 Lab File ID: 60128011.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.08	Poor chromatography	fergusond	01/29/15 10:59

Lab Sample ID: IC 180-131929/12 Client Sample ID: _____

Date Analyzed: 01/28/15 16:21 Lab File ID: 60128012.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	01/29/15 11:12

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1

SDG No.: _____

Instrument ID: CHHP6 Analysis Batch Number: 136799Lab Sample ID: CCVIS 180-136799/2 Client Sample ID: _____Date Analyzed: 03/27/15 12:48 Lab File ID: 60327002.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.77	Peak Tail	fergusond	03/27/15 13:16
1,4-Dioxane	8.07	Peak Tail	fergusond	03/27/15 13:16

Lab Sample ID: LCS 180-136799/8 Client Sample ID: _____Date Analyzed: 03/27/15 15:30 Lab File ID: 60327008.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.07	Poor chromatography	fergusond	03/27/15 15:55

Lab Sample ID: 180-42389-1 Client Sample ID: HD-MW-175-0/1-0Date Analyzed: 03/27/15 17:54 Lab File ID: 60327014.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toluene	9.05	Split Peak	fergusond	03/30/15 07:28

Lab Sample ID: 180-42389-2 Client Sample ID: HD-MW-174-0/1-0Date Analyzed: 03/27/15 18:18 Lab File ID: 60327015.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toluene	9.05	Split Peak	fergusond	03/30/15 07:30

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1

SDG No.: _____

Instrument ID: CHHP6 Analysis Batch Number: 136938Lab Sample ID: 180-42389-9 Client Sample ID: HD-QC4-0/1-2Date Analyzed: 03/30/15 12:38 Lab File ID: 60330007.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroform	6.41	Split Peak	fergusond	03/30/15 13:59

Lab Sample ID: 180-42389-3 MS Client Sample ID: HD-MW-170-0/1-0 MSDate Analyzed: 03/30/15 13:27 Lab File ID: 60330009.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.07	Peak Tail	fergusond	03/30/15 15:40

Lab Sample ID: 180-42389-4 Client Sample ID: HD-MW-171-0/1-0Date Analyzed: 03/30/15 14:39 Lab File ID: 60330012.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.69	Split Peak	fergusond	03/30/15 15:42
Trichloroethene	7.73	Split Peak	fergusond	03/30/15 15:42

Lab Sample ID: 180-42389-6 Client Sample ID: HD-MW-173-0/1-0Date Analyzed: 03/30/15 15:27 Lab File ID: 60330014.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.48	Split Peak	fergusond	03/30/15 16:00

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-42389-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VOA8260INT_00027	01/30/15	12/30/14	Methanol, Lot 85233	10 mL	VOA8260INTRES_00051	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_00051	02/01/18		Restek, Lot A093504		(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_00029	01/30/15	12/30/14	Methanol, Lot 85233	100 mL	VOA8260SURRES_00075	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_00075	01/31/19		Restek, Lot A0101000		(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_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
VOA8260VOA2ND_00109	04/06/15	03/30/15	Methanol, Lot 85233	10 mL	VOA8260GAS2ND_00090	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.: 180-42389-1

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_00090	11/30/15		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-Dichloroethene	200 ug/mL
							1,2-Dibromoethane (EDB)	200 ug/mL
							1,2-Dichloroethane	200 ug/mL
							1,2-Dichloropropane	200 ug/mL
							1,4-Dioxane	4000 ug/mL
							Acrylonitrile	2000 ug/mL
							Benzene	200 ug/mL
							Bromochloromethane	200 ug/mL
							Bromodichloromethane	200 ug/mL
							Bromoform	200 ug/mL
							Carbon disulfide	200 ug/mL
							Carbon tetrachloride	200 ug/mL
							Chlorobenzene	200 ug/mL
							Chloroform	200 ug/mL
							cis-1,2-Dichloroethene	200 ug/mL
							cis-1,3-Dichloropropene	200 ug/mL
							Dibromochloromethane	200 ug/mL
							Ethylbenzene	200 ug/mL
							Methyl tert-butyl ether	200 ug/mL
							Methylene Chloride	200 ug/mL
							Styrene	200 ug/mL
							Tetrachloroethene	200 ug/mL
							Toluene	200 ug/mL
							trans-1,2-Dichloroethene	200 ug/mL
							trans-1,3-Dichloropropene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-42389-1

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_00097	01/28/15	01/21/15	Methanol, Lot 85233	8 mL	VOA8260GAS1ST_00081	0.1 mL	Bromomethane	25 ug/mL
							Butadiene	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Dichlorodifluoromethane	25 ug/mL
							Dichlorofluoromethane	25 ug/mL
							Trichlorofluoromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					VOA8260VOAPRI_00094	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.: 180-42389-1

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-Dichloropropene	25 ug/mL
							Cyclohexane	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Dibromomethane	25 ug/mL
							Ethyl ether	25 ug/mL
							Ethyl methacrylate	25 ug/mL
							Ethylbenzene	25 ug/mL
							Hexachlorobutadiene	25 ug/mL
							Hexane	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-42389-1

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_00081	09/30/16		Restek, Lot A0105755			(Purchased Reagent)	Bromomethane	2000 ug/mL
							Butadiene	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
.VOA8260VOAPRI_00094	01/31/15	12/31/14	Methanol, Lot 85233	10 mL	VOA8260KET1ST_00030	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_00025	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.: 180-42389-1

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.: 180-42389-1

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_00030	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_00025	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.: 180-42389-1

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_00108	04/06/15	03/30/15	Methanol, Lot 85233	10 mL	VOA8260GAS1ST_00092	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.: 180-42389-1

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_00092	09/30/16		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.: 180-42389-1

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-Dichloropropene	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.: 180-42389-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration				
					Reagent ID	Volume Added						
VOAKETONEPRI_00003	02/20/15	01/20/15	Methanol, Lot 85233	50 mL	VOA8260KET1ST_00034	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_00034	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				
voaW8260voa2n_00005	03/28/15	03/21/15	Methanol, Lot 85233	10 mL	VOA8260GAS2ND_00089	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
											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_00089	11/30/15		Restek, Lot A0108226		(Purchased Reagent)		Bromomethane	2500 ug/mL				
							Chloroethane	2500 ug/mL				
							Chloromethane	2500 ug/mL				

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-42389-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
.VOA8260VOA2ND_00107	04/19/15	03/19/15	Methanol, Lot 85233	10 mL	VOA8260MEGA2_00011	1 mL	Vinyl chloride	2500 ug/mL	
							1,1,1,2-Tetrachloroethane	200 ug/mL	
							1,1,1-Trichloroethane	200 ug/mL	
							1,1,2,2-Tetrachloroethane	200 ug/mL	
							1,1,2-Trichloroethane	200 ug/mL	
							1,1-Dichloroethane	200 ug/mL	
							1,1-Dichloroethene	200 ug/mL	
							1,2-Dibromoethane (EDB)	200 ug/mL	
							1,2-Dichloroethane	200 ug/mL	
							1,2-Dichloropropane	200 ug/mL	
							1,4-Dioxane	4000 ug/mL	
							Acrylonitrile	2000 ug/mL	
							Benzene	200 ug/mL	
							Bromochloromethane	200 ug/mL	
							Bromodichloromethane	200 ug/mL	
							Bromoform	200 ug/mL	
							Carbon disulfide	200 ug/mL	
							Carbon tetrachloride	200 ug/mL	
							Chlorobenzene	200 ug/mL	
							Chloroform	200 ug/mL	
							cis-1,2-Dichloroethene	200 ug/mL	
							cis-1,3-Dichloropropene	200 ug/mL	
							Dibromochloromethane	200 ug/mL	
							Ethylbenzene	200 ug/mL	
							Methyl tert-butyl ether	200 ug/mL	
							Methylene Chloride	200 ug/mL	
Styrene	200 ug/mL								
Tetrachloroethene	200 ug/mL								
Toluene	200 ug/mL								
trans-1,2-Dichloroethene	200 ug/mL								
trans-1,3-Dichloropropene	200 ug/mL								
Trichloroethene	200 ug/mL								
Xylenes, Total	400 ug/mL								
..VOA8260MEGA2_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-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	

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-42389-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
voaW8260voaPr_00005	03/28/15	03/21/15	Methanol, Lot 85233	10 mL	VOA8260GAS1ST_00090	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-42389-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00090	09/30/16		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	4000 ug/mL
							Acrylonitrile	2000 ug/mL
							Benzene	200 ug/mL
							Bromochloromethane	200 ug/mL
							Bromodichloromethane	200 ug/mL
							Bromoform	200 ug/mL
							Carbon disulfide	200 ug/mL
							Carbon tetrachloride	200 ug/mL
							Chlorobenzene	200 ug/mL
							Chloroform	200 ug/mL
							cis-1,2-Dichloroethene	200 ug/mL
							cis-1,3-Dichloropropene	200 ug/mL
							Dibromochloromethane	200 ug/mL
							Ethylbenzene	200 ug/mL
							Methyl tert-butyl ether	200 ug/mL
							Methylene Chloride	200 ug/mL
							Styrene	200 ug/mL
							Tetrachloroethene	200 ug/mL
							Toluene	200 ug/mL
							trans-1,2-Dichloroethene	200 ug/mL
							trans-1,3-Dichloropropene	200 ug/mL
							Trichloroethene	200 ug/mL
							Xylenes, Total	400 ug/mL
..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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromoethane (EDB)	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
voaWAcropri_R_00006	02/02/15	01/02/15	Methanol, Lot 85233	50 mL	VOAACRORES_00062	0.0625 mL	Acrolein	25 ug/mL
.VOAACRORES_00062	02/28/15		Restek, Lot A0106504		(Purchased Reagent)		Acrolein	20000 ug/mL
voaWeemixpri_00001	01/29/15	12/29/14	Methanol, Lot 85233	25 mL	VOARESEE1ST_00017	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_00017	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Chlorobenzotrifluoride	5000 ug/mL
							3-Chlorotoluene	5000 ug/mL
							4-Chlorobenzotrifluoride	5000 ug/mL
voaWKet2 Rest_00002	04/16/15	03/16/15	Methanol, Lot 85233	50 mL	VOA8260KET2ND_00042	0.1 mL	2-Butanone (MEK)	25 ug/mL
							2-Hexanone	25 ug/mL
							4-Methyl-2-pentanone (MIBK)	25 ug/mL
							Acetone	25 ug/mL
.VOA8260KET2ND_00042	01/31/18		Restek, Lot A0108157		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
voaWVApri Res_00001	02/06/15	01/06/15	Methanol, Lot 85233	20 mL	VOA8260VARES_00049	0.125 mL	Vinyl acetate	25 ug/mL
.VOA8260VARES_00049	04/30/15		Restek, Lot A0106957		(Purchased Reagent)		Vinyl acetate	4000 ug/mL

Reagent

VOA8260GAS1ST_00081

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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

CERTIFIED VALUES

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

Reagent

VOA8260GAS1ST_00090



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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:

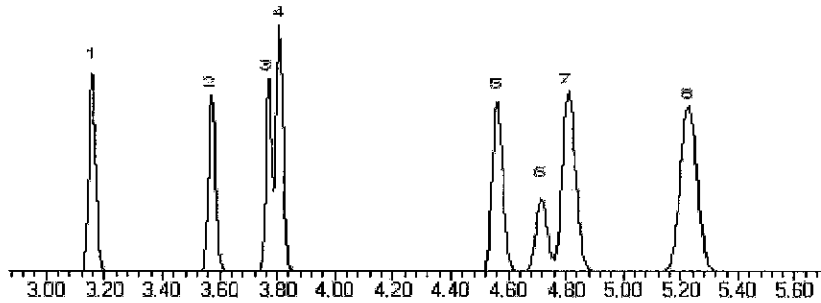
200°C

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_00092



CERTIFIED REFERENCE MATERIAL

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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 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:

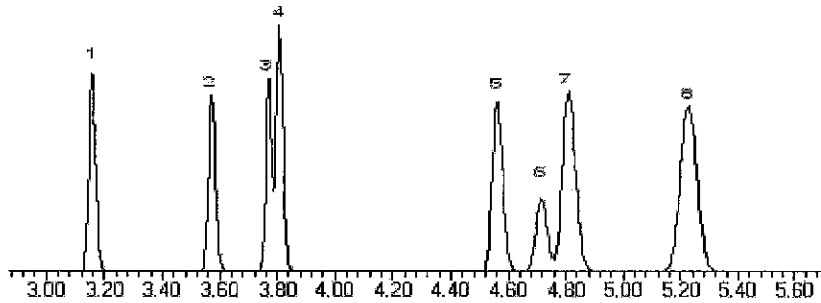
200°C

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_00089

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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:

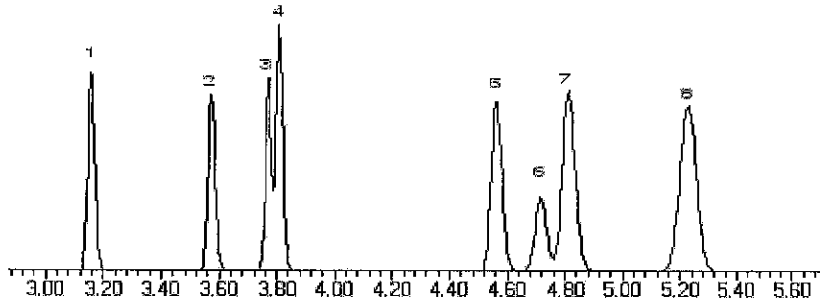
200°C

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

VOA8260GAS2ND_00090

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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:

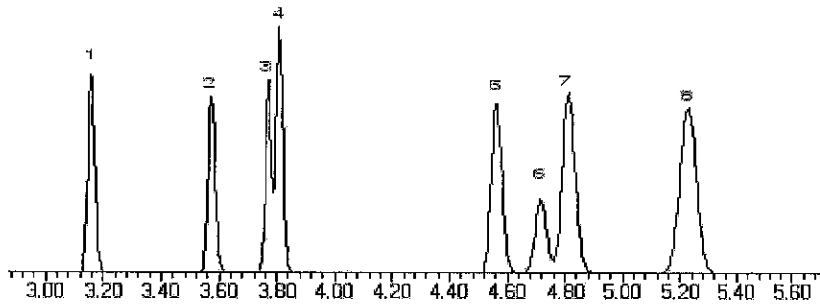
200°C

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 Registered Quality System Certificate #FM 80397

Reagent

VOA8260INTRES_00051



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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. : 567649 Lot No.: A093504
 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 : February 2018 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	5,000.0 µg/mL	+/-	29.0689	µg/mL	Gravimetric
	CAS # 25725-11-5		+/-	110.6323	µg/mL	Unstressed
	Purity 99%		+/-	111.0833	µg/mL	Stressed
2	Fluorobenzene	250.0 µg/mL	+/-	1.4535	µg/mL	Gravimetric
	CAS # 462-06-6		+/-	5.5316	µg/mL	Unstressed
	Purity 99%		+/-	5.5542	µg/mL	Stressed
3	1,4-Dioxane-d8	5,000.0 µg/mL	+/-	29.0689	µg/mL	Gravimetric
	CAS # 17647-74-4		+/-	110.6323	µg/mL	Unstressed
	Purity 99%		+/-	111.0833	µg/mL	Stressed
4	Chlorobenzene-d5	250.0 µg/mL	+/-	1.4535	µg/mL	Gravimetric
	CAS # 3114-55-4		+/-	5.5316	µg/mL	Unstressed
	Purity 99%		+/-	5.5542	µg/mL	Stressed
5	1,4-Dichlorobenzene-d4	250.0 µg/mL	+/-	1.4535	µg/mL	Gravimetric
	CAS # 3855-82-1		+/-	5.5316	µg/mL	Unstressed
	Purity 99%		+/-	5.5542	µg/mL	Stressed

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

Reagent

VOA8260KET1ST_00030



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

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

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

CERTIFIED VALUES

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

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

Reagent

VOA8260KET1ST_00034



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

CERTIFIED VALUES

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

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

Reagent

VOA8260KET2ND_00042

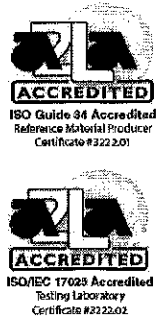


CERTIFIED REFERENCE MATERIAL

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

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

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

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

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

CERTIFIED VALUES

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

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

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

Purity 99%

Reagent

VOA8260MEGA1_00014



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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 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	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric	
	CAS # 95-50-1			+/-	44.2531		$\mu\text{g/mL}$	Unstressed
	Purity 99%			+/-	44.4335		$\mu\text{g/mL}$	Stressed
68	1,2-Dibromo-3-chloropropane	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric	
	CAS # 96-12-8			+/-	44.2531		$\mu\text{g/mL}$	Unstressed
	Purity 99%			+/-	44.4335		$\mu\text{g/mL}$	Stressed
69	1,2,4-Trichlorobenzene	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric	
	CAS # 120-82-1			+/-	44.2531		$\mu\text{g/mL}$	Unstressed
	Purity 99%			+/-	44.4335		$\mu\text{g/mL}$	Stressed
70	Hexachlorobutadiene	2,000.0	$\mu\text{g/mL}$	+/-	11.6284	$\mu\text{g/mL}$	Gravimetric	
	CAS # 87-68-3			+/-	44.2540		$\mu\text{g/mL}$	Unstressed
	Purity 97%			+/-	44.4344		$\mu\text{g/mL}$	Stressed
71	Naphthalene	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric	
	CAS # 91-20-3			+/-	44.2531		$\mu\text{g/mL}$	Unstressed
	Purity 99%			+/-	44.4335		$\mu\text{g/mL}$	Stressed
72	1,2,3-Trichlorobenzene	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric	
	CAS # 87-61-6			+/-	44.2531		$\mu\text{g/mL}$	Unstressed
	Purity 99%			+/-	44.4335		$\mu\text{g/mL}$	Stressed
Solvent:	P&T Methanol							
	CAS # 67-56-1							
	Purity 99%							

Column:

60m x .25mm x 1.4 μm
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:

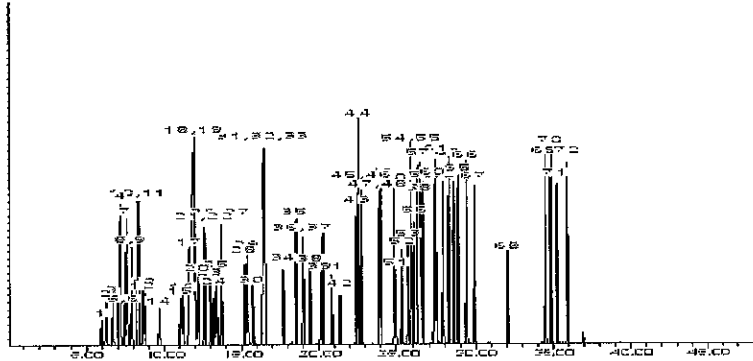
200°C

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_00025



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)

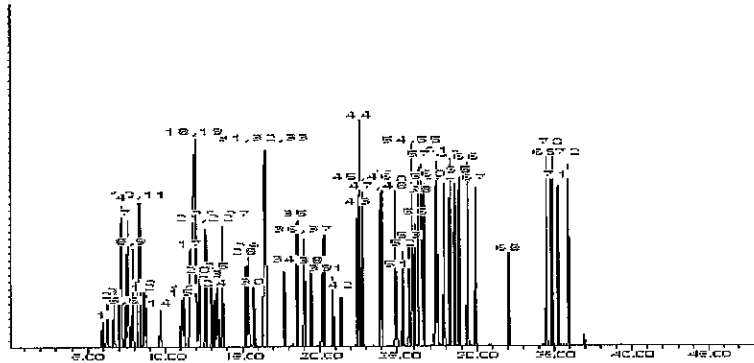
Carrier Gas:
helium-constant pressure 30 psi

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

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 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	$\mu\text{g/mL}$	+/-	116.2756	$\mu\text{g/mL}$	Gravimetric
	CAS # 107-13-1.SEC			+/-	442.5291		Unstressed
	Purity 99%			+/-	444.3332		Stressed
11	Methyl-tert-butyl ether (MTBE)	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric
	CAS # 1634-04-4.SEC			+/-	44.2531		Unstressed
	Purity 99%			+/-	44.4335		Stressed
12	cis-1,2-Dichloroethene	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric
	CAS # 156-59-2.SEC			+/-	44.2531		Unstressed
	Purity 99%			+/-	44.4335		Stressed
13	n-Hexane (C6)	2,000.1	$\mu\text{g/mL}$	+/-	11.6286	$\mu\text{g/mL}$	Gravimetric
	CAS # 110-54-3.SEC			+/-	44.2549		Unstressed
	Purity 98%			+/-	44.4353		Stressed
14	1,1-Dichloroethane	2,000.0	$\mu\text{g/mL}$	+/-	11.6284	$\mu\text{g/mL}$	Gravimetric
	CAS # 75-34-3.SEC			+/-	44.2540		Unstressed
	Purity 97%			+/-	44.4344		Stressed
15	2,2-Dichloropropane	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric
	CAS # 594-20-7.SEC			+/-	44.2531		Unstressed
	Purity 99%			+/-	44.4335		Stressed
16	trans-1,2-Dichloroethene	2,000.0	$\mu\text{g/mL}$	+/-	11.6284	$\mu\text{g/mL}$	Gravimetric
	CAS # 156-60-5.SEC			+/-	44.2540		Unstressed
	Purity 97%			+/-	44.4344		Stressed
17	Chloroform	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric
	CAS # 67-66-3.SEC			+/-	44.2531		Unstressed
	Purity 99%			+/-	44.4335		Stressed
18	Isobutanol (2-Methyl-1-propanol)	50,000.0	$\mu\text{g/mL}$	+/-	290.6891	$\mu\text{g/mL}$	Gravimetric
	CAS # 78-83-1.SEC			+/-	1,106.3228		Unstressed
	Purity 99%			+/-	1,110.8331		Stressed
19	Bromochloromethane	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric
	CAS # 74-97-5.SEC			+/-	44.2531		Unstressed
	Purity 99%			+/-	44.4335		Stressed
20	Tetrahydrofuran	4,000.0	$\mu\text{g/mL}$	+/-	23.2563	$\mu\text{g/mL}$	Gravimetric
	CAS # 109-99-9.SEC			+/-	88.5061		Unstressed
	Purity 99%			+/-	88.8670		Stressed
21	1,1,1-Trichloroethane	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric
	CAS # 71-55-6.SEC			+/-	44.2531		Unstressed
	Purity 99%			+/-	44.4335		Stressed
22	Cyclohexane	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric
	CAS # 110-82-7.SEC			+/-	44.2531		Unstressed
	Purity 99%			+/-	44.4335		Stressed
23	1,1-Dichloropropene	2,010.5	$\mu\text{g/mL}$	+/-	11.6890	$\mu\text{g/mL}$	Gravimetric
	CAS # 563-58-6.SEC			+/-	44.4847		Unstressed
	Purity 98%			+/-	44.6661		Stressed
24	Carbon tetrachloride	2,000.1	$\mu\text{g/mL}$	+/-	11.6286	$\mu\text{g/mL}$	Gravimetric
	CAS # 56-23-5.SEC			+/-	44.2549		Unstressed
	Purity 98%			+/-	44.4353		Stressed
25	n-Heptane (C7)	2,000.1	$\mu\text{g/mL}$	+/-	11.6288	$\mu\text{g/mL}$	Gravimetric
	CAS # 142-82-5.SEC			+/-	44.2553		Unstressed
	Purity 99%			+/-	44.4357		Stressed
26	Benzene	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric
	CAS # 71-43-2.SEC			+/-	44.2531		Unstressed
	Purity 99%			+/-	44.4335		Stressed
27	1,2-Dichloroethane	2,000.0	$\mu\text{g/mL}$	+/-	11.6282	$\mu\text{g/mL}$	Gravimetric
	CAS # 107-06-2.SEC			+/-	44.2531		Unstressed
	Purity 99%			+/-	44.4335		Stressed
28	Trichloroethene	2,000.1	$\mu\text{g/mL}$	+/-	11.6286	$\mu\text{g/mL}$	Gravimetric
	CAS # 79-01-6.SEC			+/-	44.2549		Unstressed
	Purity 98%			+/-	44.4353		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:

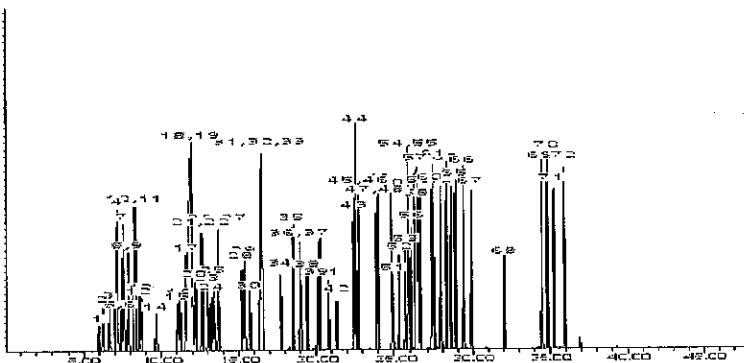
200°C

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

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

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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567650 **Lot No.:** A0100424

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

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

Expiration Date : January 31, 2019 **Storage:** 0°C or colder

CERTIFIED VALUES

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

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

Reagent

VOA8260SURRES_00075

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.:** A0101000
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	2,509.6 µg/mL	+/-	14.5910	µg/mL	Gravimetric
	CAS # 1868-53-7 (Lot 022012)		+/-	28.2993	µg/mL	Unstressed
	Purity 99%		+/-	32.5644	µg/mL	Stressed
2	1,2-Dichloroethane-d4	2,508.2 µg/mL	+/-	14.5829	µg/mL	Gravimetric
	CAS # 17060-07-0 (Lot 12K-027)		+/-	28.2836	µg/mL	Unstressed
	Purity 99%		+/-	32.5462	µg/mL	Stressed
3	Toluene-d8	2,508.8 µg/mL	+/-	14.5864	µg/mL	Gravimetric
	CAS # 2037-26-5 (Lot 13I-050)		+/-	28.2903	µg/mL	Unstressed
	Purity 99%		+/-	32.5540	µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)	2,509.8 µg/mL	+/-	14.5922	µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 01127COV)		+/-	28.3016	µg/mL	Unstressed
	Purity 99%		+/-	32.5670	µg/mL	Stressed

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

Reagent

VOA8260VARES_00049



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

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

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

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

CERTIFIED VALUES

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

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

Tech Tips:

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

Reagent

VOAACRORES_00062



CERTIFIED REFERENCE MATERIAL

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

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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 568720 **Lot No.:** A0106504

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 : February 28, 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%	19,767.0 µg/mL (Lot 140903JLM)	+/- 115.7401 µg/mL Gravimetric +/- 633.7922 µg/mL Unstressed +/- 736.7140 µg/mL Stressed

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

Reagent

VOARESEE1ST_00017

RESTEK CERTIFIED REFERENCE MATERIAL

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

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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

CERTIFIED VALUES

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

9	2,5-Dichlorotoluene		5,000.0	µg/mL	+/-	29.3428	µg/mL	Gravimetric
	CAS # 19398-61-9	(Lot 10119CU)			+/-	53.0716	µg/mL	Unstressed
	Purity 99%				+/-	61.7158	µg/mL	Stressed
10	2,6-Dichlorotoluene		5,001.0	µg/mL	+/-	29.3487	µg/mL	Gravimetric
	CAS # 118-69-4	(Lot 16921JS)			+/-	53.0822	µg/mL	Unstressed
	Purity 99%				+/-	61.7282	µg/mL	Stressed
11	3,4-Dichlorotoluene		5,003.0	µg/mL	+/-	29.3604	µg/mL	Gravimetric
	CAS # 95-75-0	(Lot 09419AS)			+/-	53.1034	µg/mL	Unstressed
	Purity 99%				+/-	61.7529	µg/mL	Stressed
12	2,3-Dichlorotoluene		5,008.0	µg/mL	+/-	29.3897	µg/mL	Gravimetric
	CAS # 32768-54-0	(Lot 00317)			+/-	53.1565	µg/mL	Unstressed
	Purity 99%				+/-	61.8146	µg/mL	Stressed
13	2,4,5-Trichlorotoluene		5,001.0	µg/mL	+/-	29.3487	µg/mL	Gravimetric
	CAS # 6639-30-1	(Lot 1767300)			+/-	53.0822	µg/mL	Unstressed
	Purity 99%				+/-	61.7282	µg/mL	Stressed
14	2,3,6-Trichlorotoluene		5,001.0	µg/mL	+/-	29.3487	µg/mL	Gravimetric
	CAS # 2077-46-5	(Lot RM01250)			+/-	53.0822	µg/mL	Unstressed
	Purity 99%				+/-	61.7282	µg/mL	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.: 180-42389-1

SDG No.: _____

Matrix: Water Level: Low

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

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
HD-MW-175-0/1-0	180-42389-1	109	119	105	92
HD-MW-174-0/1-0	180-42389-2	105	122	110	106
HD-MW-170-0/1-0	180-42389-3	108	125	104	96
HD-MW-171-0/1-0	180-42389-4	105	116	103	103
HD-MW-168-0/1-0	180-42389-5	106	122	110	98
HD-MW-173-0/1-0	180-42389-6	104	122	107	100
HD-MW-166-0/1-0	180-42389-7	107	125	107	97
HD-MW-172-0/1-0	180-42389-8	107	121	102	96
HD-QC4-0/1-2	180-42389-9	107	121	111	101
	MB 180-136799/6	105	120	110	101
	MB 180-136938/5	104	121	106	98
	LCS 180-136799/8	102	113	105	102
	LCS 180-136938/8	100	121	100	101
HD-MW-170-0/1-0 MS	180-42389-3 MS	100	111	99	98
HD-MW-170-0/1-0 MSD	180-42389-3 MSD	103	124	108	107

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

QC LIMITS
70-128
64-135
71-118
70-118

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 60327008.D
 Lab ID: LCS 180-136799/8 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloromethane	10.0	7.58	76	50-139	
Vinyl chloride	10.0	8.58	86	53-138	
Bromomethane	10.0	10.3	103	33-150	
Chloroethane	10.0	8.57	86	36-142	
1,1-Dichloroethene	10.0	9.57	96	65-136	
Acetone	20.0	21.7	109	22-150	
Carbon disulfide	10.0	7.51	75	54-132	
Methylene Chloride	10.0	7.93	79	63-129	
trans-1,2-Dichloroethene	10.0	8.52	85	73-126	
Methyl tert-butyl ether	10.0	9.32	93	64-123	
1,1-Dichloroethane	10.0	8.34	83	73-126	
cis-1,2-Dichloroethene	10.0	8.47	85	70-120	
Bromochloromethane	10.0	8.72	87	70-127	
2-Butanone (MEK)	20.0	18.5	92	39-138	
Chloroform	10.0	9.10	91	72-127	
1,1,1-Trichloroethane	10.0	7.97	80	63-133	
Carbon tetrachloride	10.0	7.98	80	55-150	
Benzene	10.0	9.51	95	80-120	
1,2-Dichloroethane	10.0	11.1	111	68-132	
Trichloroethene	10.0	8.19	82	73-120	
1,2-Dichloropropane	10.0	8.43	84	76-124	
Bromodichloromethane	10.0	8.72	87	66-130	
cis-1,3-Dichloropropene	10.0	7.92	79	66-120	
4-Methyl-2-pentanone (MIBK)	20.0	19.8	99	45-145	
Toluene	10.0	10.2	102	80-123	
trans-1,3-Dichloropropene	10.0	8.92	89	65-125	
1,1,2-Trichloroethane	10.0	11.1	111	77-127	
Tetrachloroethene	10.0	9.76	98	70-135	
2-Hexanone	20.0	22.2	111	25-132	
Dibromochloromethane	10.0	8.68	87	60-140	
1,2-Dibromoethane (EDB)	10.0	10.6	106	74-123	
Chlorobenzene	10.0	9.61	96	80-120	
1,1,1,2-Tetrachloroethane	10.0	8.06	81	63-140	
Ethylbenzene	10.0	8.97	90	72-126	
Xylenes, Total	20.0	17.6	88	76-128	
Styrene	10.0	9.98	100	71-127	
Bromoform	10.0	9.32	93	46-150	
1,1,2,2-Tetrachloroethane	10.0	12.3	123	62-125	
1,4-Dioxane	200	244	122	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.: 180-42389-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 60330008.D
 Lab ID: LCS 180-136938/8 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloromethane	10.0	8.62	86	50-139	
Vinyl chloride	10.0	9.46	95	53-138	
Bromomethane	10.0	11.2	112	33-150	
Chloroethane	10.0	8.96	90	36-142	
1,1-Dichloroethene	10.0	9.02	90	65-136	
Acetone	20.0	25.3	126	22-150	
Carbon disulfide	10.0	7.01	70	54-132	
Methylene Chloride	10.0	8.28	83	63-129	
trans-1,2-Dichloroethene	10.0	9.06	91	73-126	
Methyl tert-butyl ether	10.0	9.88	99	64-123	
1,1-Dichloroethane	10.0	8.96	90	73-126	
cis-1,2-Dichloroethene	10.0	9.00	90	70-120	
Bromochloromethane	10.0	9.63	96	70-127	
2-Butanone (MEK)	20.0	22.2	111	39-138	
Chloroform	10.0	9.75	97	72-127	
1,1,1-Trichloroethane	10.0	8.59	86	63-133	
Carbon tetrachloride	10.0	8.23	82	55-150	
Benzene	10.0	10.1	101	80-120	
1,2-Dichloroethane	10.0	11.9	119	68-132	
Trichloroethene	10.0	9.14	91	73-120	
1,2-Dichloropropane	10.0	9.50	95	76-124	
Bromodichloromethane	10.0	9.93	99	66-130	
cis-1,3-Dichloropropene	10.0	9.21	92	66-120	
4-Methyl-2-pentanone (MIBK)	20.0	19.2	96	45-145	
Toluene	10.0	10.7	107	80-123	
trans-1,3-Dichloropropene	10.0	10.8	108	65-125	
1,1,2-Trichloroethane	10.0	11.9	119	77-127	
Tetrachloroethene	10.0	9.91	99	70-135	
2-Hexanone	20.0	21.7	108	25-132	
Dibromochloromethane	10.0	10.2	102	60-140	
1,2-Dibromoethane (EDB)	10.0	12.2	122	74-123	
Chlorobenzene	10.0	10.8	108	80-120	
1,1,1,2-Tetrachloroethane	10.0	9.51	95	63-140	
Ethylbenzene	10.0	9.37	94	72-126	
Xylenes, Total	20.0	18.6	93	76-128	
Styrene	10.0	10.8	108	71-127	
Bromoform	10.0	11.5	115	46-150	
1,1,2,2-Tetrachloroethane	10.0	13.6	136	62-125	*
1,4-Dioxane	200	286	143	10-160	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-42389-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: 60330009.D

Lab ID: 180-42389-3 MS

Client ID: HD-MW-170-0/1-0 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Chloromethane	10.0	1.0 U	8.20	82	50-139	
Vinyl chloride	10.0	1.0 U	8.92	89	53-138	
Bromomethane	10.0	1.0 U	10.6	106	33-150	
Chloroethane	10.0	1.0 U	8.89	89	36-142	
1,1-Dichloroethene	10.0	1.0 U	8.45	85	65-136	
Acetone	20.0	5.0 U	22.7	114	22-150	
Carbon disulfide	10.0	1.0 U	6.42	64	54-132	
Methylene Chloride	10.0	1.0 U	7.92	79	63-129	
trans-1,2-Dichloroethene	10.0	1.0 U	8.50	85	73-126	
Methyl tert-butyl ether	10.0	1.0 U	10.2	102	64-123	
1,1-Dichloroethane	10.0	1.0 U	8.53	85	73-126	
cis-1,2-Dichloroethene	10.0	1.0 U	8.88	89	70-120	
Bromochloromethane	10.0	1.0 U	9.06	91	70-127	
2-Butanone (MEK)	20.0	5.0 U	23.8	119	39-138	
Chloroform	10.0	0.27 J	9.66	94	72-127	
1,1,1-Trichloroethane	10.0	1.0 U	8.22	82	63-133	
Carbon tetrachloride	10.0	1.0 U	7.67	77	55-150	
Benzene	10.0	1.0 U	9.53	95	80-120	
1,2-Dichloroethane	10.0	1.0 U	12.2	122	68-132	
Trichloroethene	10.0	1.0 U	8.61	86	73-120	
1,2-Dichloropropane	10.0	1.0 U	9.17	92	76-124	
Bromodichloromethane	10.0	1.0 U	9.49	95	66-130	
cis-1,3-Dichloropropene	10.0	1.0 U	9.02	90	66-120	
4-Methyl-2-pentanone (MIBK)	20.0	5.0 U	20.7	104	45-145	
Toluene	10.0	1.0 U	10.4	104	80-123	
trans-1,3-Dichloropropene	10.0	1.0 U	10.8	108	65-125	
1,1,2-Trichloroethane	10.0	1.0 U	11.5	115	77-127	
Tetrachloroethene	10.0	1.0 U	9.56	96	70-135	
2-Hexanone	20.0	5.0 U	23.0	115	25-132	
Dibromochloromethane	10.0	1.0 U	10.1	101	60-140	
1,2-Dibromoethane (EDB)	10.0	1.0 U	12.0	120	74-123	
Chlorobenzene	10.0	1.0 U	10.3	103	80-120	
1,1,1,2-Tetrachloroethane	10.0	1.0 U	9.25	93	63-140	
Ethylbenzene	10.0	1.0 U	9.24	92	72-126	
Xylenes, Total	20.0	3.0 U	18.9	94	76-128	
Styrene	10.0	1.0 U	10.4	104	71-127	
Bromoform	10.0	1.0 U	10.7	107	46-150	
1,1,2,2-Tetrachloroethane	10.0	1.0 U	13.7	137	62-125	F1
1,4-Dioxane	200	200 U	276	138	10-160	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-42389-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: 60330010.D

Lab ID: 180-42389-3 MSD

Client ID: HD-MW-170-0/1-0 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Chloromethane	10.0	8.71	87	6	35	50-139	
Vinyl chloride	10.0	9.42	94	5	35	53-138	
Bromomethane	10.0	10.6	106	0	35	33-150	
Chloroethane	10.0	9.19	92	3	35	36-142	
1,1-Dichloroethene	10.0	8.72	87	3	35	65-136	
Acetone	20.0	23.9	120	5	35	22-150	
Carbon disulfide	10.0	6.47	65	1	35	54-132	
Methylene Chloride	10.0	7.85	78	1	35	63-129	
trans-1,2-Dichloroethene	10.0	9.08	91	7	35	73-126	
Methyl tert-butyl ether	10.0	10.5	105	3	35	64-123	
1,1-Dichloroethane	10.0	8.91	89	4	35	73-126	
cis-1,2-Dichloroethene	10.0	8.89	89	0	35	70-120	
Bromochloromethane	10.0	9.23	92	2	35	70-127	
2-Butanone (MEK)	20.0	21.4	107	10	35	39-138	
Chloroform	10.0	9.75	95	1	35	72-127	
1,1,1-Trichloroethane	10.0	8.27	83	1	35	63-133	
Carbon tetrachloride	10.0	7.84	78	2	35	55-150	
Benzene	10.0	9.50	95	0	32	80-120	
1,2-Dichloroethane	10.0	11.9	119	2	32	68-132	
Trichloroethene	10.0	8.80	88	2	35	73-120	
1,2-Dichloropropane	10.0	9.36	94	2	34	76-124	
Bromodichloromethane	10.0	9.78	98	3	35	66-130	
cis-1,3-Dichloropropene	10.0	8.98	90	0	35	66-120	
4-Methyl-2-pentanone (MIBK)	20.0	21.1	105	2	35	45-145	
Toluene	10.0	11.1	111	6	35	80-123	
trans-1,3-Dichloropropene	10.0	11.1	111	3	35	65-125	
1,1,2-Trichloroethane	10.0	13.1	131	13	35	77-127	F1
Tetrachloroethene	10.0	10.7	107	11	35	70-135	
2-Hexanone	20.0	22.7	113	1	35	25-132	
Dibromochloromethane	10.0	10.8	108	6	35	60-140	
1,2-Dibromoethane (EDB)	10.0	12.9	129	8	35	74-123	F1
Chlorobenzene	10.0	11.0	110	7	29	80-120	
1,1,1,2-Tetrachloroethane	10.0	10.0	100	8	34	63-140	
Ethylbenzene	10.0	9.92	99	7	33	72-126	
Xylenes, Total	20.0	19.7	98	4	32	76-128	
Styrene	10.0	11.0	110	5	34	71-127	
Bromoform	10.0	11.4	114	6	35	46-150	
1,1,2,2-Tetrachloroethane	10.0	14.6	146	6	35	62-125	F1
1,4-Dioxane	200	300	150	8	35	10-160	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1
 SDG No.: _____
 Lab File ID: 60327006.D Lab Sample ID: MB 180-136799/6
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: CHHP6 Date Analyzed: 03/27/2015 14:21
 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 180-136799/8	60327008.D	03/27/2015 15:30
HD-MW-175-0/1-0	180-42389-1	60327014.D	03/27/2015 17:54
HD-MW-174-0/1-0	180-42389-2	60327015.D	03/27/2015 18:18

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1
 SDG No.: _____
 Lab File ID: 60330005.D Lab Sample ID: MB 180-136938/5
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: CHHP6 Date Analyzed: 03/30/2015 11:37
 GC Column: DB-624 ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
HD-MW-170-0/1-0	180-42389-3	60330006.D	03/30/2015 12:14
HD-QC4-0/1-2	180-42389-9	60330007.D	03/30/2015 12:38
	LCS 180-136938/8	60330008.D	03/30/2015 13:03
HD-MW-170-0/1-0 MS	180-42389-3 MS	60330009.D	03/30/2015 13:27
HD-MW-170-0/1-0 MSD	180-42389-3 MSD	60330010.D	03/30/2015 13:51
HD-MW-171-0/1-0	180-42389-4	60330012.D	03/30/2015 14:39
HD-MW-168-0/1-0	180-42389-5	60330013.D	03/30/2015 15:03
HD-MW-173-0/1-0	180-42389-6	60330014.D	03/30/2015 15:27
HD-MW-166-0/1-0	180-42389-7	60330015.D	03/30/2015 15:51
HD-MW-172-0/1-0	180-42389-8	60330016.D	03/30/2015 16:15

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1
 SDG No.: _____
 Lab File ID: 60128004.D BFB Injection Date: 01/28/2015
 Instrument ID: CHHP6 BFB Injection Time: 11:55
 Analysis Batch No.: 131929

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	20.1
75	30.0 - 60.0 % of mass 95	48.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.0
173	Less than 2.0 % of mass 174	0.5 (0.7)1
174	50.0 - 120.00 % of mass 95	64.3
175	5.0 - 9.0 % of mass 174	4.8 (7.4)1
176	95.0 - 101.0 % of mass 174	64.5 (100.3)1
177	5.0 - 9.0 % of mass 176	4.6 (7.1)2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 180-131929/6	60128006.D	01/28/2015	13:58
	IC 180-131929/7	60128007.D	01/28/2015	14:21
	ICIS 180-131929/8	60128008.D	01/28/2015	14:45
	IC 180-131929/9	60128009.D	01/28/2015	15:09
	IC 180-131929/10	60128010.D	01/28/2015	15:33
	IC 180-131929/11	60128011.D	01/28/2015	15:57
	IC 180-131929/12	60128012.D	01/28/2015	16:21
	IC 180-131929/13	60128013.D	01/28/2015	16:44

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1
 SDG No.: _____
 Lab File ID: 60327004.D BFB Injection Date: 03/27/2015
 Instrument ID: CHHP6 BFB Injection Time: 12:07
 Analysis Batch No.: 136799

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	19.8
75	30.0 - 60.0 % of mass 95	51.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	5.3
173	Less than 2.0 % of mass 174	0.1 (0.2)1
174	50.0 - 120.00 % of mass 95	63.9
175	5.0 - 9.0 % of mass 174	5.4 (8.5)1
176	95.0 - 101.0 % of mass 174	61.6 (96.4)1
177	5.0 - 9.0 % of mass 176	3.2 (5.2)2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 180-136799/2	60327002.D	03/27/2015	12:48
	MB 180-136799/6	60327006.D	03/27/2015	14:21
	LCS 180-136799/8	60327008.D	03/27/2015	15:30
HD-MW-175-0/1-0	180-42389-1	60327014.D	03/27/2015	17:54
HD-MW-174-0/1-0	180-42389-2	60327015.D	03/27/2015	18:18

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1
 SDG No.: _____
 Lab File ID: 60330001.D BFB Injection Date: 03/30/2015
 Instrument ID: CHHP6 BFB Injection Time: 09:31
 Analysis Batch No.: 136938

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	19.2
75	30.0 - 60.0 % of mass 95	55.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.8
173	Less than 2.0 % of mass 174	0.5 (0.8)1
174	50.0 - 120.00 % of mass 95	64.4
175	5.0 - 9.0 % of mass 174	5.4 (8.3)1
176	95.0 - 101.0 % of mass 174	64.5 (100.1)1
177	5.0 - 9.0 % of mass 176	4.2 (6.5)2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 180-136938/2	60330002.D	03/30/2015	10:12
	MB 180-136938/5	60330005.D	03/30/2015	11:37
HD-MW-170-0/1-0	180-42389-3	60330006.D	03/30/2015	12:14
HD-QC4-0/1-2	180-42389-9	60330007.D	03/30/2015	12:38
	LCS 180-136938/8	60330008.D	03/30/2015	13:03
HD-MW-170-0/1-0 MS	180-42389-3 MS	60330009.D	03/30/2015	13:27
HD-MW-170-0/1-0 MSD	180-42389-3 MSD	60330010.D	03/30/2015	13:51
HD-MW-171-0/1-0	180-42389-4	60330012.D	03/30/2015	14:39
HD-MW-168-0/1-0	180-42389-5	60330013.D	03/30/2015	15:03
HD-MW-173-0/1-0	180-42389-6	60330014.D	03/30/2015	15:27
HD-MW-166-0/1-0	180-42389-7	60330015.D	03/30/2015	15:51
HD-MW-172-0/1-0	180-42389-8	60330016.D	03/30/2015	16:15

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1
 SDG No.: _____
 Sample No.: CCVIS 180-136799/2 Date Analyzed: 03/27/2015 12:48
 Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): 60327002.D Heated Purge: (Y/N) N
 Calibration ID: 21588

	TBA		FB		CBZ		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	246816	4.29	568599	7.33	117115	10.44	
UPPER LIMIT	493632	4.79	1137198	7.83	234230	10.94	
LOWER LIMIT	123408	3.79	284300	6.83	58558	9.94	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-136799/6	276155	4.27	619804	7.33	116617	10.44	
LCS 180-136799/8	249779	4.29	575635	7.33	117534	10.44	
180-42389-1	HD-MW-175-0/1-0	258711	4.26	593619	7.34	115120	10.44
180-42389-2	HD-MW-174-0/1-0	258882	4.27	591987	7.33	108850	10.44

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.: 180-42389-1
 SDG No.: _____
 Sample No.: CCVIS 180-136799/2 Date Analyzed: 03/27/2015 12:48
 Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): 60327002.D Heated Purge: (Y/N) N
 Calibration ID: 21588

	DCB					
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	176682	12.79				
UPPER LIMIT	353364	13.29				
LOWER LIMIT	88341	12.29				
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 180-136799/6		187055	12.79			
LCS 180-136799/8		186408	12.79			
180-42389-1	HD-MW-175-0/1-0	178450	12.79			
180-42389-2	HD-MW-174-0/1-0	182605	12.79			

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.: 180-42389-1
 SDG No.: _____
 Sample No.: CCVIS 180-136938/2 Date Analyzed: 03/30/2015 10:12
 Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): 60330002.D Heated Purge: (Y/N) N
 Calibration ID: 21588

	TBA		FB		CBZ		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	229623	4.28	505716	7.33	107308	10.44	
UPPER LIMIT	459246	4.78	1011432	7.83	214616	10.94	
LOWER LIMIT	114812	3.78	252858	6.83	53654	9.94	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-136938/5	271835	4.27	594166	7.33	117363	10.43	
180-42389-3	HD-MW-170-0/1-0	258124	4.26	570748	7.33	120383	10.44
180-42389-9	HD-QC4-0/1-2	274770	4.27	568006	7.33	105061	10.44
LCS 180-136938/8		253324	4.28	529801	7.33	113057	10.44
180-42389-3 MS	HD-MW-170-0/1-0 MS	271626	4.29	533097	7.33	112576	10.44
180-42389-3 MSD	HD-MW-170-0/1-0 MSD	285335	4.29	540785	7.33	105494	10.44
180-42389-4	HD-MW-171-0/1-0	299539	4.27	621949	7.33	123709	10.44
180-42389-5	HD-MW-168-0/1-0	245466	4.27	592210	7.33	116969	10.44
180-42389-6	HD-MW-173-0/1-0	262442	4.28	598117	7.33	122616	10.44
180-42389-7	HD-MW-166-0/1-0	260623	4.27	570389	7.33	118146	10.44
180-42389-8	HD-MW-172-0/1-0	253516	4.28	583049	7.34	116348	10.44

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.: 180-42389-1
 SDG No.: _____
 Sample No.: CCVIS 180-136938/2 Date Analyzed: 03/30/2015 10:12
 Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): 60330002.D Heated Purge: (Y/N) N
 Calibration ID: 21588

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		167539	12.80				
UPPER LIMIT		335078	13.30				
LOWER LIMIT		83770	12.30				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-136938/5		187859	12.79				
180-42389-3	HD-MW-170-0/1-0	187379	12.79				
180-42389-9	HD-QC4-0/1-2	170367	12.79				
LCS 180-136938/8		175872	12.79				
180-42389-3 MS	HD-MW-170-0/1-0 MS	171684	12.79				
180-42389-3 MSD	HD-MW-170-0/1-0 MSD	171126	12.79				
180-42389-4	HD-MW-171-0/1-0	191434	12.79				
180-42389-5	HD-MW-168-0/1-0	179834	12.79				
180-42389-6	HD-MW-173-0/1-0	194987	12.79				
180-42389-7	HD-MW-166-0/1-0	189646	12.79				
180-42389-8	HD-MW-172-0/1-0	173450	12.79				

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.: 180-42389-1
 SDG No.: _____
 Client Sample ID: HD-MW-175-0/1-0 Lab Sample ID: 180-42389-1
 Matrix: Water Lab File ID: 60327014.D
 Analysis Method: 8260C Date Collected: 03/25/2015 08:35
 Sample wt/vol: 5 (mL) Date Analyzed: 03/27/2015 17:54
 Soil Aliquot Vol: 5 (mL) Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 136799 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.28
75-01-4	Vinyl chloride	1.0	U	1.0	0.23
74-83-9	Bromomethane	1.0	U	1.0	0.31
75-00-3	Chloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.30
67-64-1	Acetone	5.0	U	5.0	2.5
75-15-0	Carbon disulfide	1.0	U	1.0	0.21
75-09-2	Methylene Chloride	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.17
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.18
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.12
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.24
74-97-5	Bromochloromethane	1.0	U	1.0	0.18
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.55
67-66-3	Chloroform	0.74	J	1.0	0.17
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.29
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.14
71-43-2	Benzene	1.0	U	1.0	0.11
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
79-01-6	Trichloroethene	1.0	U	1.0	0.14
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.095
75-27-4	Bromodichloromethane	0.16	J	1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53
108-88-3	Toluene	1.0	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.15
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.20
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.16
124-48-1	Dibromochloromethane	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.: 180-42389-1
 SDG No.: _____
 Client Sample ID: HD-MW-175-0/1-0 Lab Sample ID: 180-42389-1
 Matrix: Water Lab File ID: 60327014.D
 Analysis Method: 8260C Date Collected: 03/25/2015 08:35
 Sample wt/vol: 5 (mL) Date Analyzed: 03/27/2015 17:54
 Soil Aliquot Vol: 5 (mL) Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 136799 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)	119		64-135
2037-26-5	Toluene-d8 (Surr)	105		71-118
460-00-4	4-Bromofluorobenzene (Surr)	92		70-118
1868-53-7	Dibromofluoromethane (Surr)	109		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\60327014.D
 Lims ID: 180-42389-A-1 Lab Sample ID: 180-42389-1
 Client ID: HD-MW-175-0/1-0
 Sample Type: Client
 Inject. Date: 27-Mar-2015 17:54:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-42389-A-1
 Misc. Info.: 180-0006216-014
 Operator ID: 001562 Instrument ID: CHHP6
 Method: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\MMSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 30-Mar-2015 07:28:51 Calib Date: 28-Jan-2015 16:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK036

First Level Reviewer: fergusond

Date: 30-Mar-2015 07:28:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.264	4.285	-0.021	89	258711	1000.0	
* 2 Fluorobenzene (IS)	96	7.336	7.327	0.009	98	593619	50.0	
* 3 Chlorobenzene-d5	119	10.438	10.436	0.002	92	115120	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.793	12.790	0.003	97	178450	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.606	6.597	0.009	93	145705	54.3	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.983	6.974	0.009	70	228005	59.3	
\$ 7 Toluene-d8 (Surr)	98	8.984	8.982	0.002	94	477070	52.6	
\$ 8 4-Bromofluorobenzene (Surr	95	11.631	11.628	0.003	82	177819	46.1	
12 Chloromethane	50		1.767				ND	
13 Vinyl chloride	62		1.900				ND	
15 Bromomethane	94		2.235				ND	
16 Chloroethane	64		2.387				ND	
22 1,1-Dichloroethene	96		3.373				ND	
24 Acetone	43		3.458				ND	
26 Carbon disulfide	76		3.683				ND	
31 Methylene Chloride	84		4.170				ND	
33 Acrylonitrile	53		4.541				ND	
35 Methyl tert-butyl ether	73		4.608				ND	
34 trans-1,2-Dichloroethene	96		4.608				ND	
37 1,1-Dichloroethane	63		5.240				ND	
44 2-Butanone (MEK)	43		5.982				ND	
43 cis-1,2-Dichloroethene	96		5.982				ND	
48 Chlorobromomethane	128		6.274				ND	
50 Chloroform	83	6.417	6.420	-0.003	93	24631	3.69	
51 1,1,1-Trichloroethane	97		6.579				ND	
53 Carbon tetrachloride	117		6.761				ND	
56 Benzene	78		6.980				ND	
57 1,2-Dichloroethane	62		7.059				ND	
61 Trichloroethene	130		7.716				ND	
64 1,2-Dichloropropane	63		7.990				ND	
65 1,4-Dioxane	88		8.069				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83	8.279	8.276	0.003	22	3199	0.7824	
71 cis-1,3-Dichloropropene	75		8.714				ND	
72 4-Methyl-2-pentanone (MIBK)	43		8.854				ND	
73 Toluene	91	9.045	9.049	-0.004	1	4565	0.3879	M
74 trans-1,3-Dichloropropene	75		9.292				ND	
76 1,1,2-Trichloroethane	97		9.487				ND	
77 Tetrachloroethene	164		9.566				ND	
79 2-Hexanone	43		9.693				ND	
81 Chlorodibromomethane	129		9.870				ND	
82 Ethylene Dibromide	107		9.985				ND	
84 Chlorobenzene	112		10.466				ND	
86 1,1,1,2-Tetrachloroethane	131		10.563				ND	
87 Ethylbenzene	106		10.569				ND	
88 m-Xylene & p-Xylene	106		10.697				ND	
89 o-Xylene	106		11.080				ND	
90 Styrene	104		11.099				ND	
91 Bromoform	173		11.287				ND	
96 1,1,2,2-Tetrachloroethane	83		11.756				ND	
S 131 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00030

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00032

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\60327014.D

Injection Date: 27-Mar-2015 17:54:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: 180-42389-A-1

Lab Sample ID: 180-42389-1

Worklist Smp#: 14

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

Purge Vol: 5.000 mL

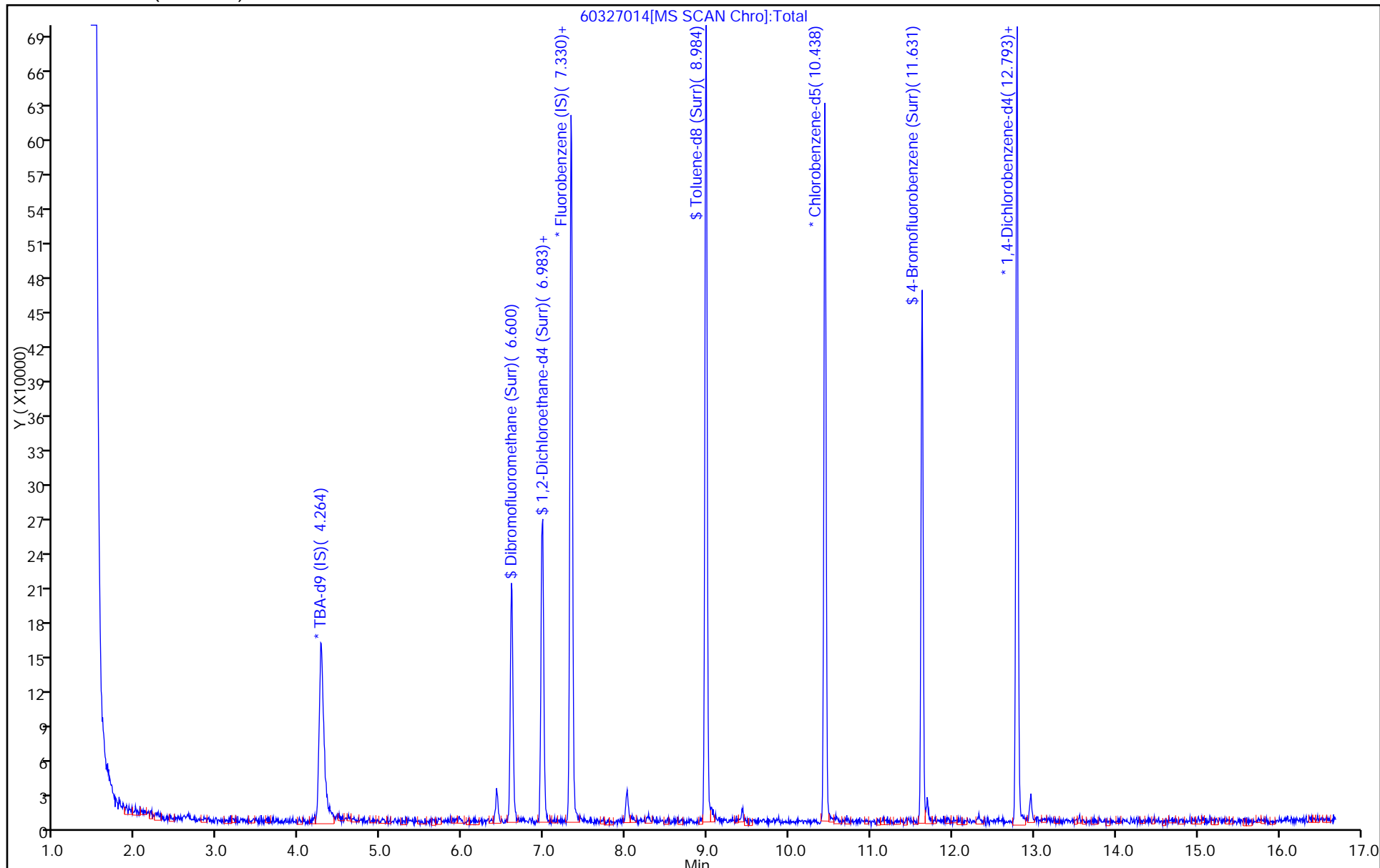
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\60327014.D

Injection Date: 27-Mar-2015 17:54:30

Instrument ID: CHHP6

Lims ID: 180-42389-A-1

Lab Sample ID: 180-42389-1

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

Operator ID: 001562

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

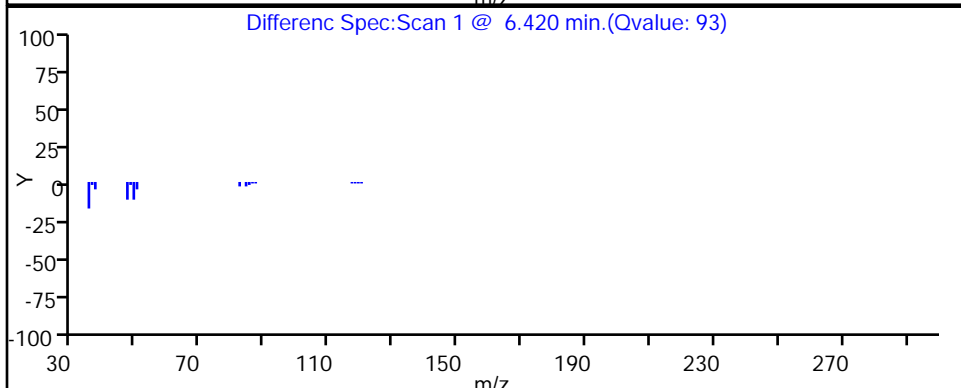
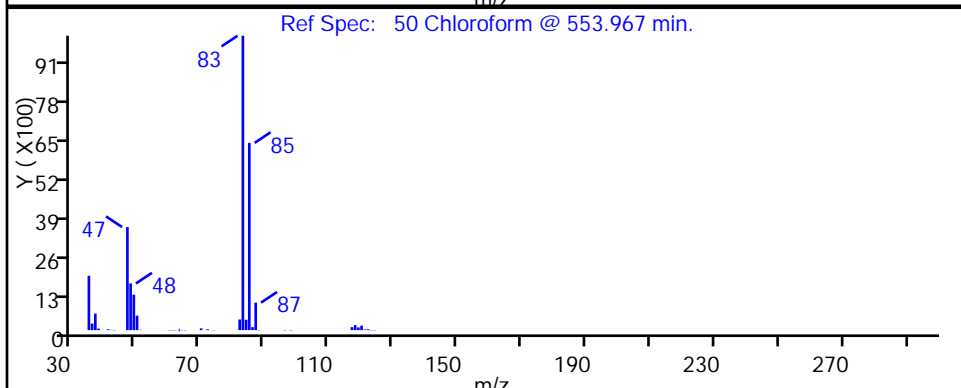
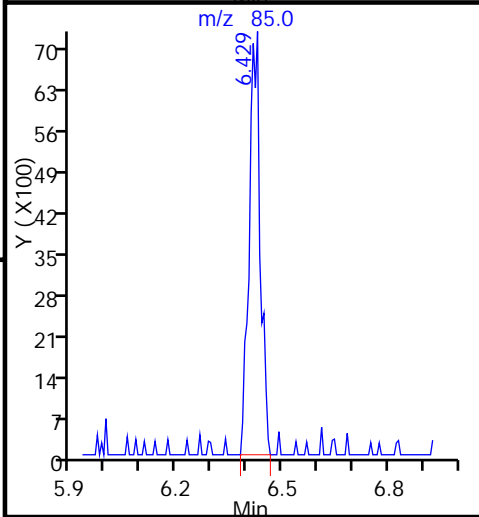
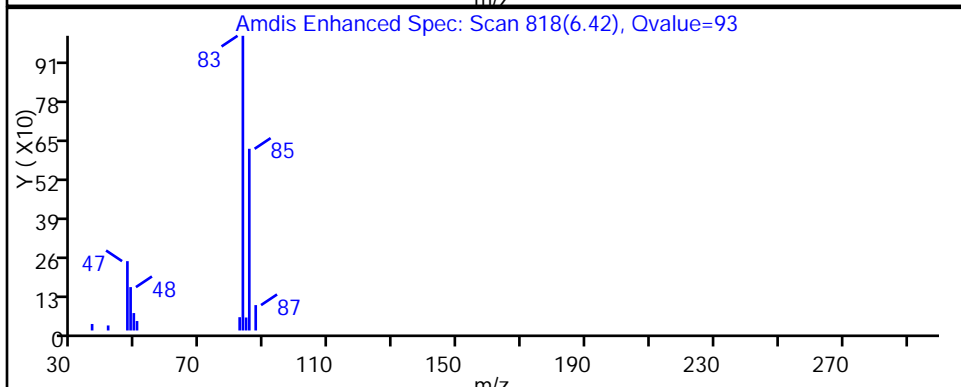
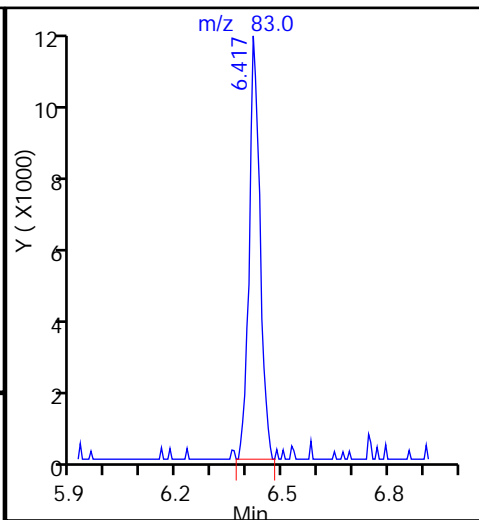
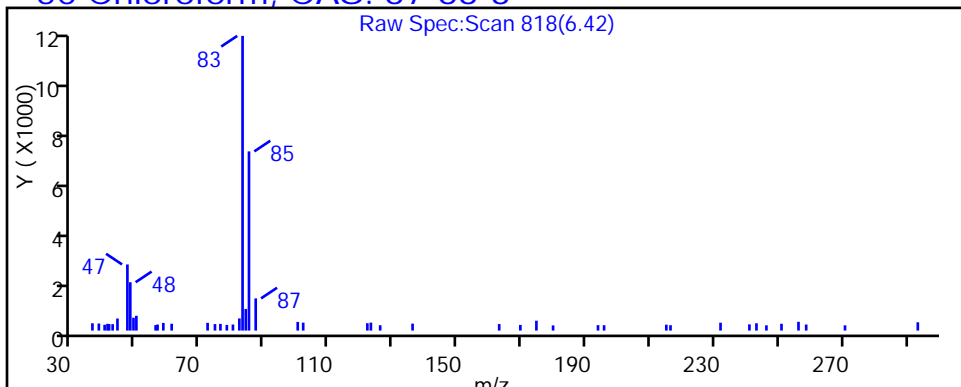
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

50 Chloroform, CAS: 67-66-3



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\60327014.D

Injection Date: 27-Mar-2015 17:54:30

Instrument ID: CHHP6

Lims ID: 180-42389-A-1

Lab Sample ID: 180-42389-1

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

Operator ID: 001562

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

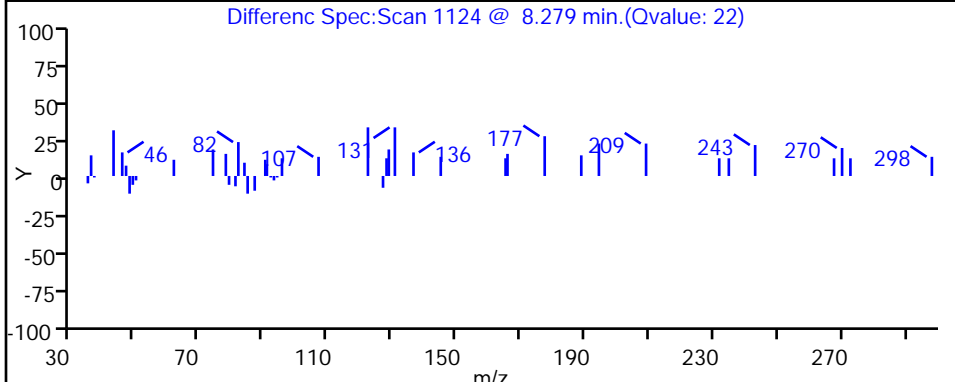
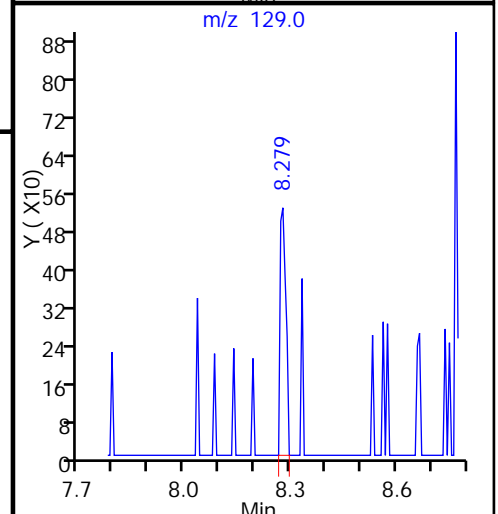
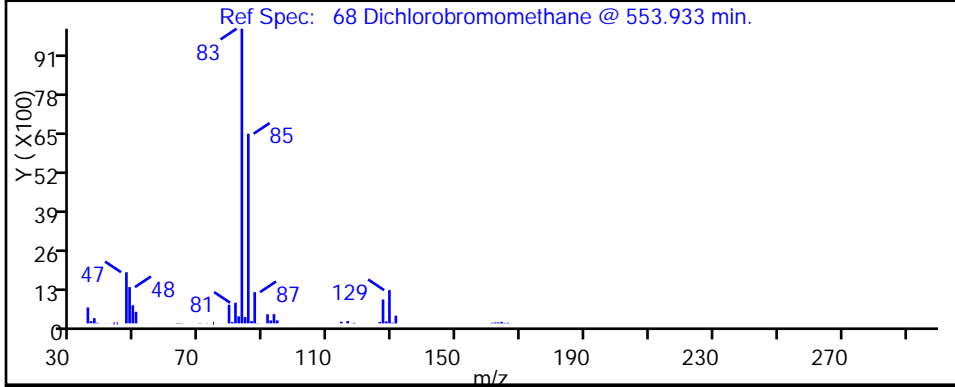
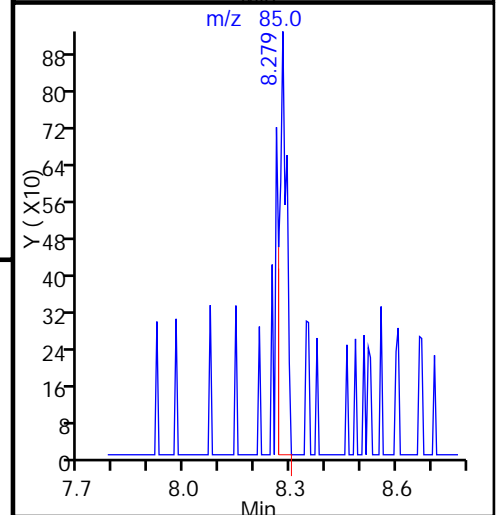
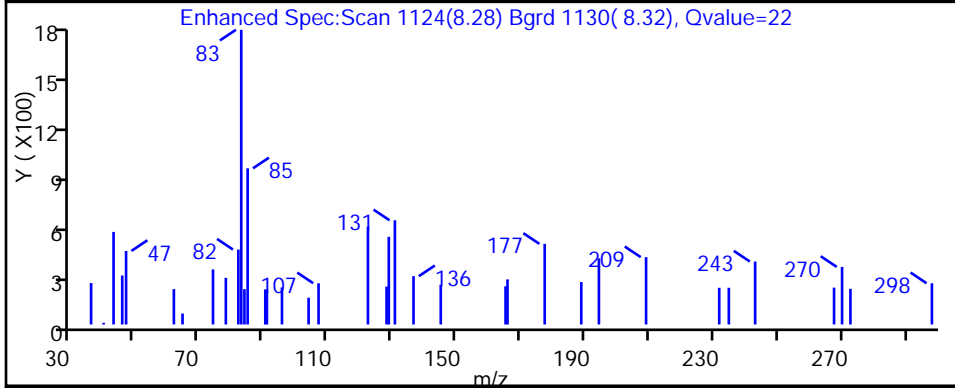
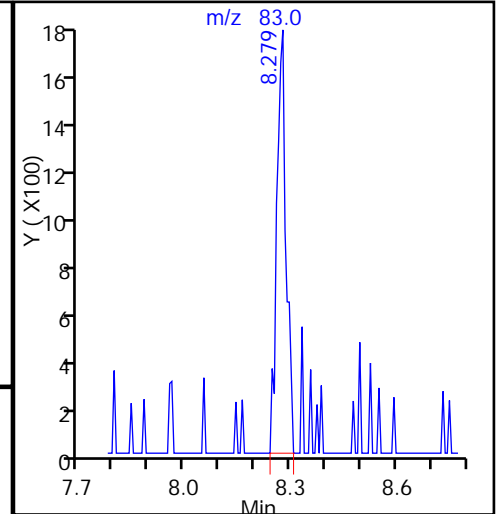
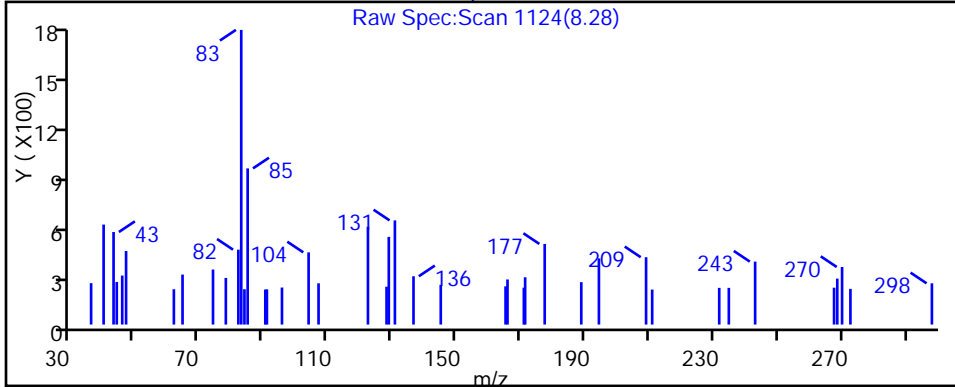
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

68 Dichlorobromomethane, CAS: 75-27-4



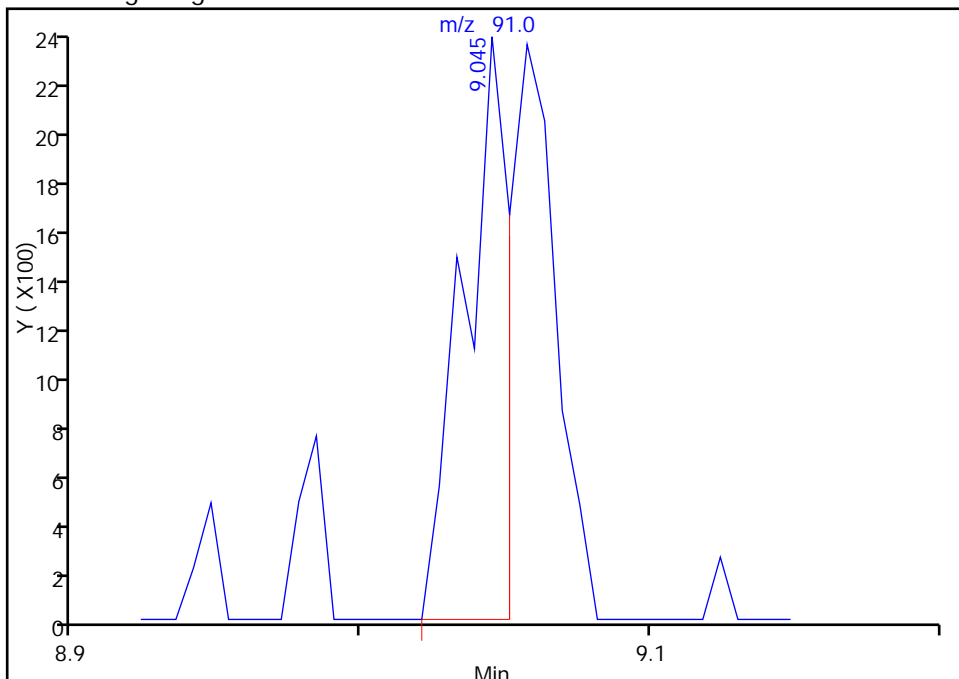
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\60327014.D
Injection Date: 27-Mar-2015 17:54:30 Instrument ID: CHHP6
Lims ID: 180-42389-A-1 Lab Sample ID: 180-42389-1
Client ID: HD-MW-175-0/1-0
Operator ID: 001562 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

73 Toluene, CAS: 108-88-3

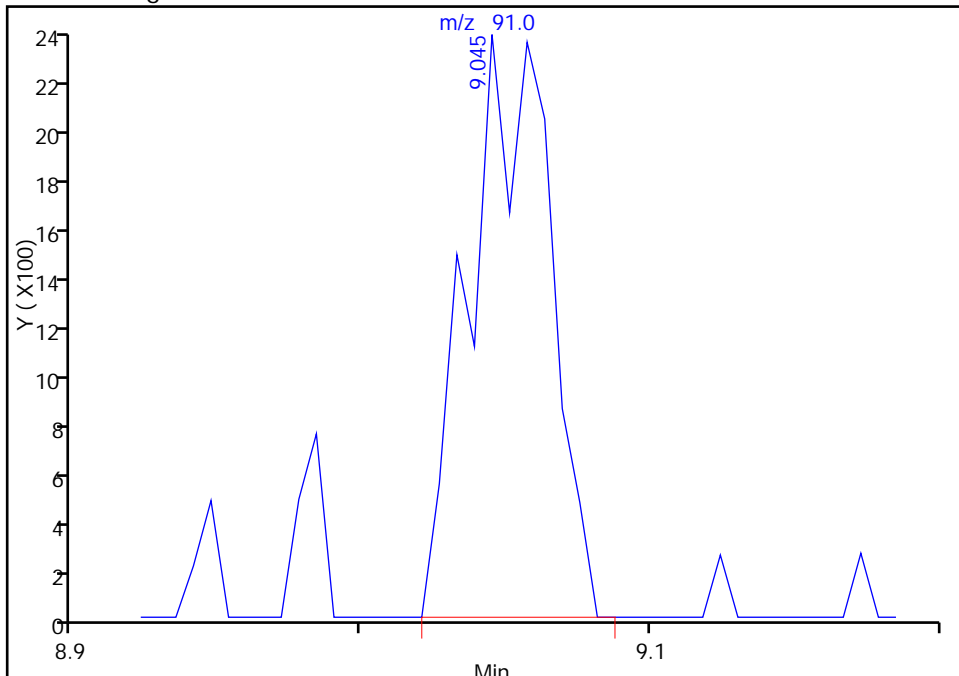
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Area: 2541
Amount: 0.215901
Amount Units: ng

Processing Integration Results



RT: 9.05
Area: 4565
Amount: 0.387875
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 30-Mar-2015 07:28:51
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1
 SDG No.: _____
 Client Sample ID: HD-MW-174-0/1-0 Lab Sample ID: 180-42389-2
 Matrix: Water Lab File ID: 60327015.D
 Analysis Method: 8260C Date Collected: 03/25/2015 08:58
 Sample wt/vol: 5(mL) Date Analyzed: 03/27/2015 18:18
 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.: 136799 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.28
75-01-4	Vinyl chloride	1.0	U	1.0	0.23
74-83-9	Bromomethane	1.0	U	1.0	0.31
75-00-3	Chloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.30
67-64-1	Acetone	5.0	U	5.0	2.5
75-15-0	Carbon disulfide	1.0	U	1.0	0.21
75-09-2	Methylene Chloride	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.17
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.18
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.12
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.24
74-97-5	Bromochloromethane	1.0	U	1.0	0.18
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.55
67-66-3	Chloroform	0.50	J	1.0	0.17
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.29
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.14
71-43-2	Benzene	1.0	U	1.0	0.11
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
79-01-6	Trichloroethene	0.89	J	1.0	0.14
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.095
75-27-4	Bromodichloromethane	1.0	U	1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	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	5.6		1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.16
124-48-1	Dibromochloromethane	1.0	U	1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
100-41-4	Ethylbenzene	1.0	U	1.0	0.23
1330-20-7	Xylenes, Total	3.0	U	3.0	0.49
100-42-5	Styrene	1.0	U	1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1
 SDG No.: _____
 Client Sample ID: HD-MW-174-0/1-0 Lab Sample ID: 180-42389-2
 Matrix: Water Lab File ID: 60327015.D
 Analysis Method: 8260C Date Collected: 03/25/2015 08:58
 Sample wt/vol: 5(mL) Date Analyzed: 03/27/2015 18:18
 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.: 136799 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)	122		64-135
2037-26-5	Toluene-d8 (Surr)	110		71-118
460-00-4	4-Bromofluorobenzene (Surr)	106		70-118
1868-53-7	Dibromofluoromethane (Surr)	105		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\60327015.D
 Lims ID: 180-42389-A-2 Lab Sample ID: 180-42389-2
 Client ID: HD-MW-174-0/1-0
 Sample Type: Client
 Inject. Date: 27-Mar-2015 18:18:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-42389-A-2
 Misc. Info.: 180-0006216-015
 Operator ID: 001562 Instrument ID: CHHP6
 Method: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\MMSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 30-Mar-2015 07:30:28 Calib Date: 28-Jan-2015 16:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK036

First Level Reviewer: fergusond

Date: 30-Mar-2015 07:30:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.266	4.285	-0.019	92	258882	1000.0	
* 2 Fluorobenzene (IS)	96	7.332	7.327	0.005	98	591987	50.0	
* 3 Chlorobenzene-d5	119	10.440	10.436	0.004	92	108850	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.789	12.790	-0.001	97	182605	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.602	6.597	0.005	93	141238	52.7	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.979	6.974	0.005	71	233410	60.9	
\$ 7 Toluene-d8 (Surr)	98	8.980	8.982	-0.002	94	472914	55.1	
\$ 8 4-Bromofluorobenzene (Surr	95	11.627	11.628	-0.001	80	193112	52.9	
12 Chloromethane	50		1.767				ND	
13 Vinyl chloride	62		1.900				ND	
15 Bromomethane	94		2.235				ND	
16 Chloroethane	64		2.387				ND	
22 1,1-Dichloroethene	96		3.373				ND	
24 Acetone	43		3.458				ND	
26 Carbon disulfide	76		3.683				ND	
31 Methylene Chloride	84		4.170				ND	
33 Acrylonitrile	53		4.541				ND	
35 Methyl tert-butyl ether	73		4.608				ND	
34 trans-1,2-Dichloroethene	96		4.608				ND	
37 1,1-Dichloroethane	63		5.240				ND	
43 cis-1,2-Dichloroethene	96		5.982				ND	
44 2-Butanone (MEK)	43		5.982				ND	
48 Chlorobromomethane	128		6.274				ND	
50 Chloroform	83	6.419	6.420	-0.001	93	16640	2.50	
51 1,1,1-Trichloroethane	97		6.579				ND	
53 Carbon tetrachloride	117		6.761				ND	
56 Benzene	78		6.980				ND	
57 1,2-Dichloroethane	62		7.059				ND	
61 Trichloroethene	130	7.721	7.716	0.005	88	14887	4.45	
64 1,2-Dichloropropane	63		7.990				ND	
65 1,4-Dioxane	88		8.069				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83		8.276				ND	
71 cis-1,3-Dichloropropene	75		8.714				ND	
72 4-Methyl-2-pentanone (MIBK)	43		8.854				ND	
73 Toluene	91	9.047	9.049	-0.002	43	5313	0.4774	M
74 trans-1,3-Dichloropropene	75		9.292				ND	
76 1,1,2-Trichloroethane	97		9.487				ND	
77 Tetrachloroethene	164	9.564	9.566	-0.002	94	55263	27.8	
79 2-Hexanone	43		9.693				ND	
81 Chlorodibromomethane	129		9.870				ND	
82 Ethylene Dibromide	107		9.985				ND	
84 Chlorobenzene	112		10.466				ND	
86 1,1,1,2-Tetrachloroethane	131		10.563				ND	
87 Ethylbenzene	106		10.569				ND	
88 m-Xylene & p-Xylene	106		10.697				ND	
89 o-Xylene	106		11.080				ND	
90 Styrene	104		11.099				ND	
91 Bromoform	173		11.287				ND	
96 1,1,2,2-Tetrachloroethane	83		11.756				ND	
S 131 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00030

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00032

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\60327015.D

Injection Date: 27-Mar-2015 18:18:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: 180-42389-A-2

Lab Sample ID: 180-42389-2

Worklist Smp#: 15

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

Purge Vol: 5.000 mL

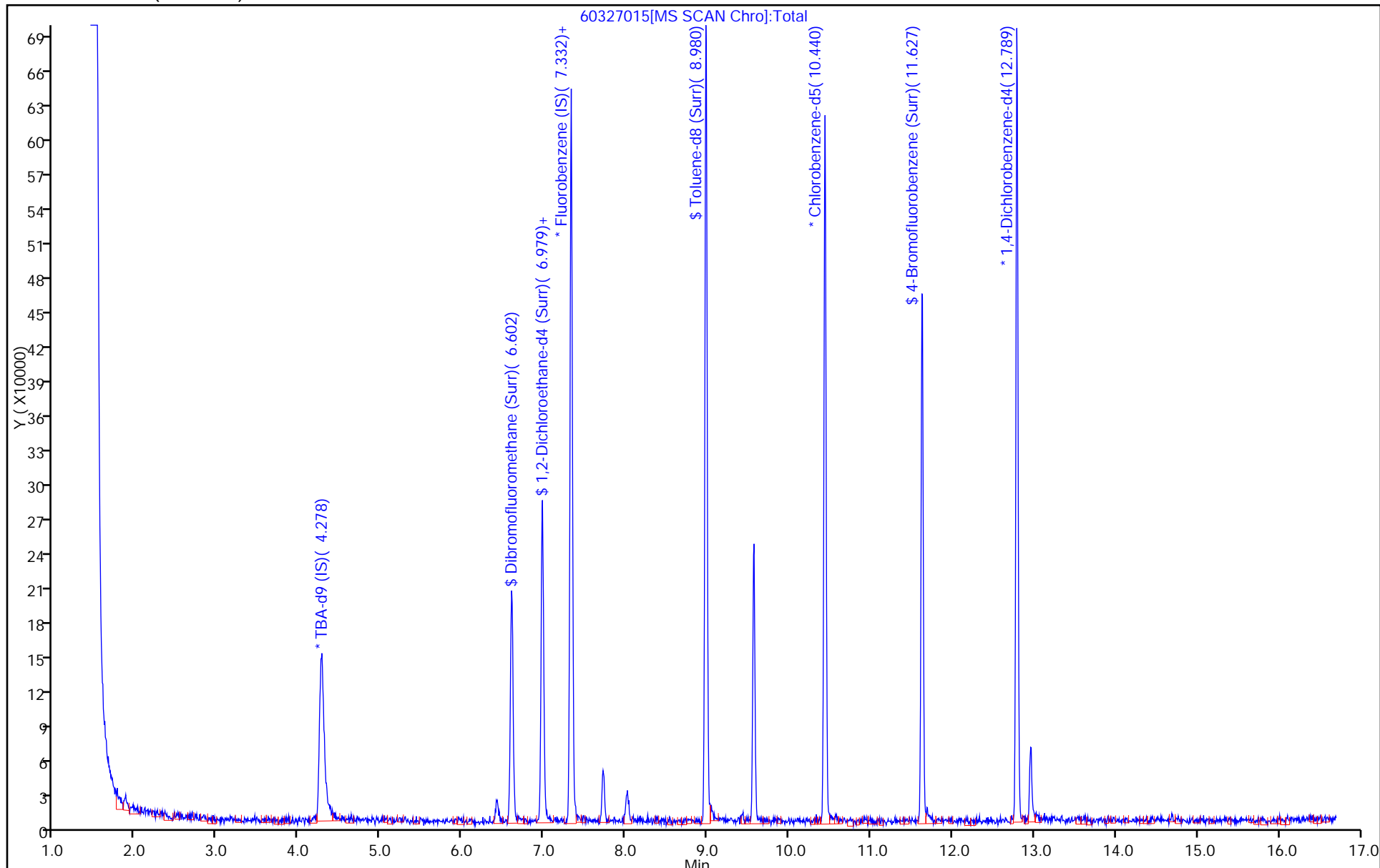
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\60327015.D

Injection Date: 27-Mar-2015 18:18:30

Instrument ID: CHHP6

Lims ID: 180-42389-A-2

Lab Sample ID: 180-42389-2

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

Operator ID: 001562

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

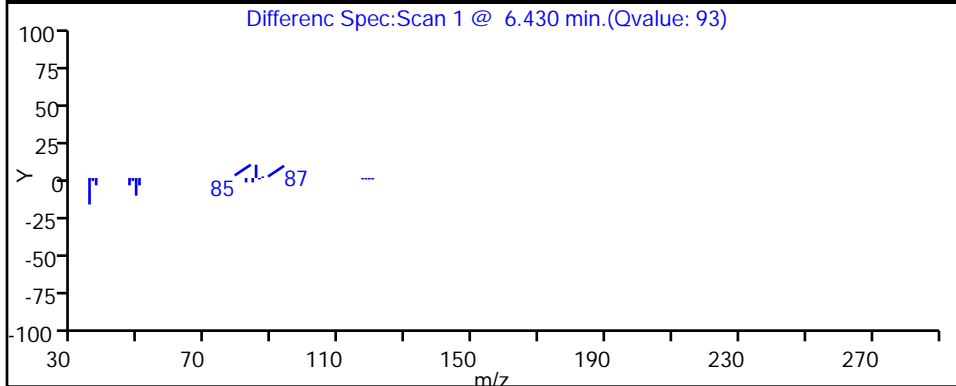
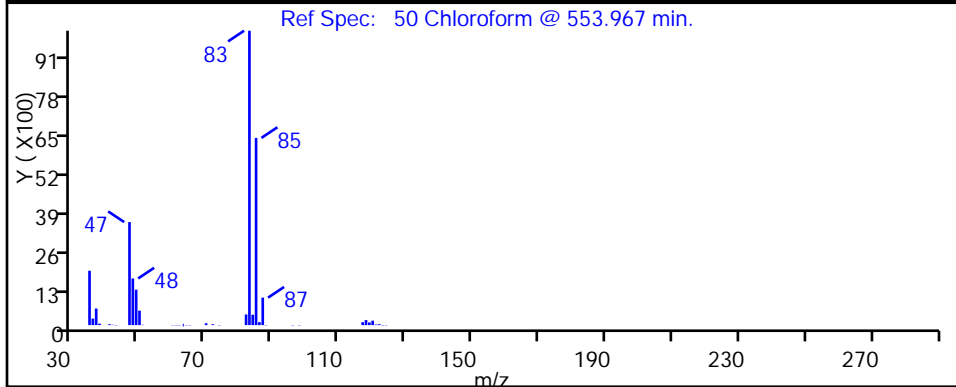
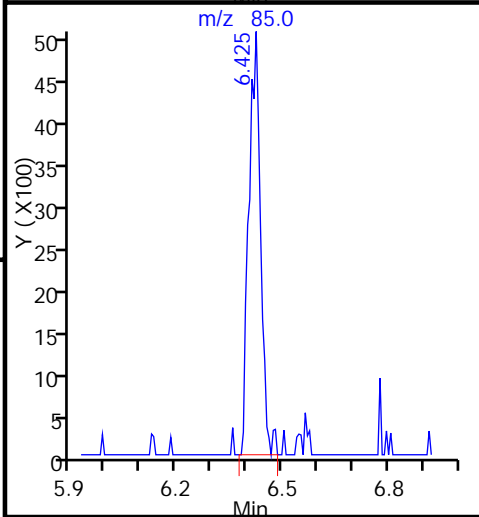
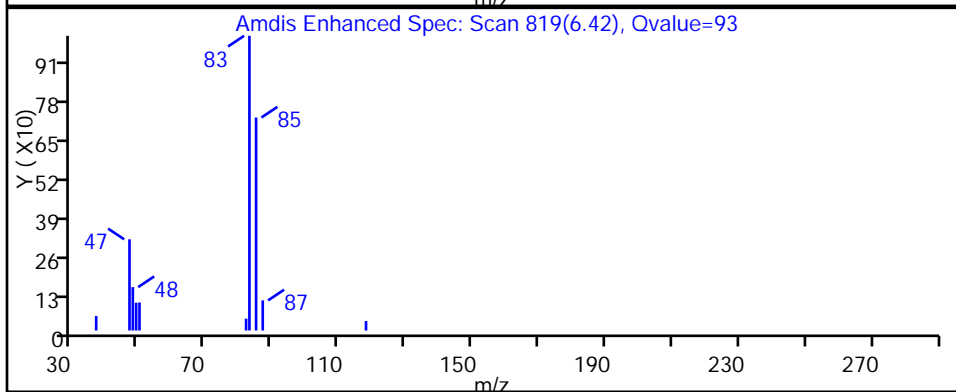
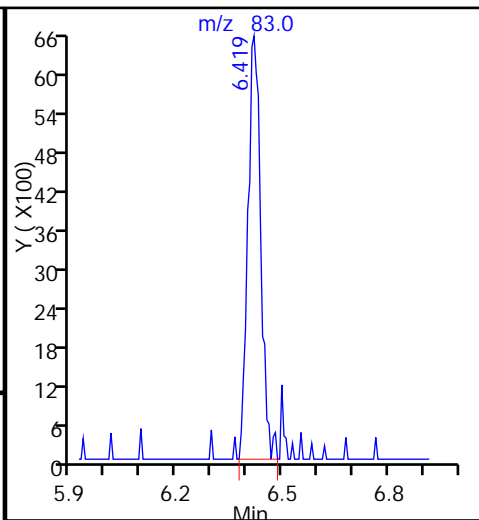
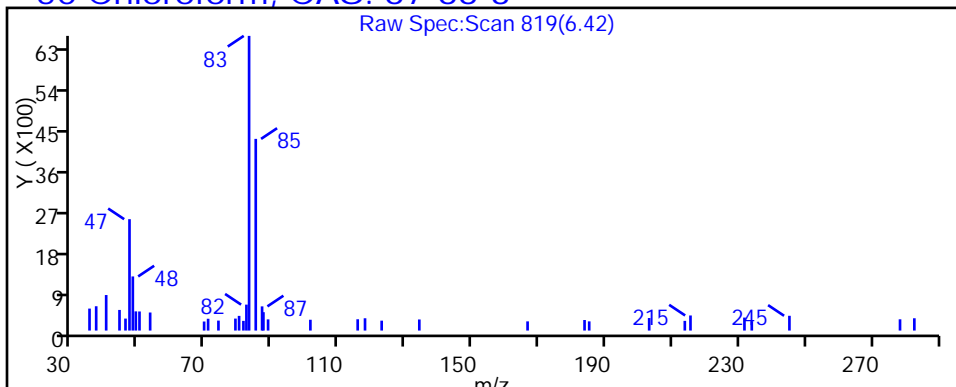
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

50 Chloroform, CAS: 67-66-3



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\60327015.D

Injection Date: 27-Mar-2015 18:18:30

Instrument ID: CHHP6

Lims ID: 180-42389-A-2

Lab Sample ID: 180-42389-2

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

Operator ID: 001562

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

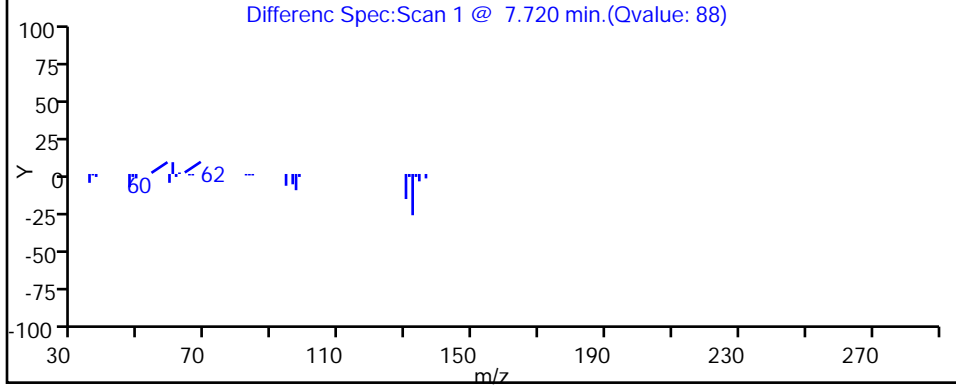
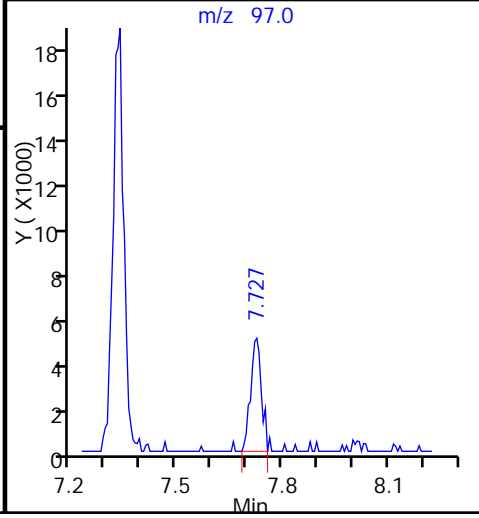
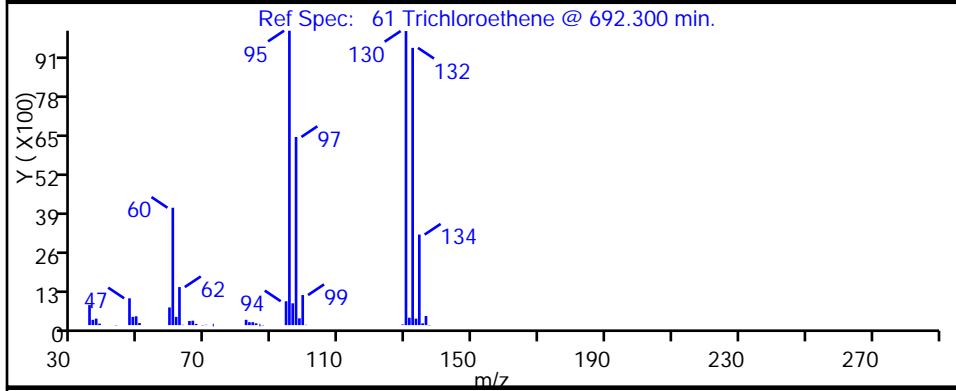
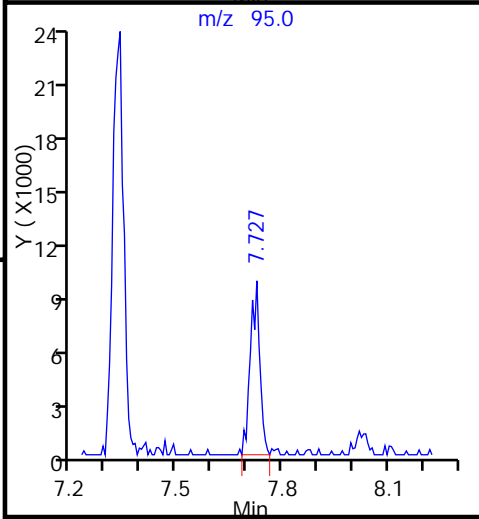
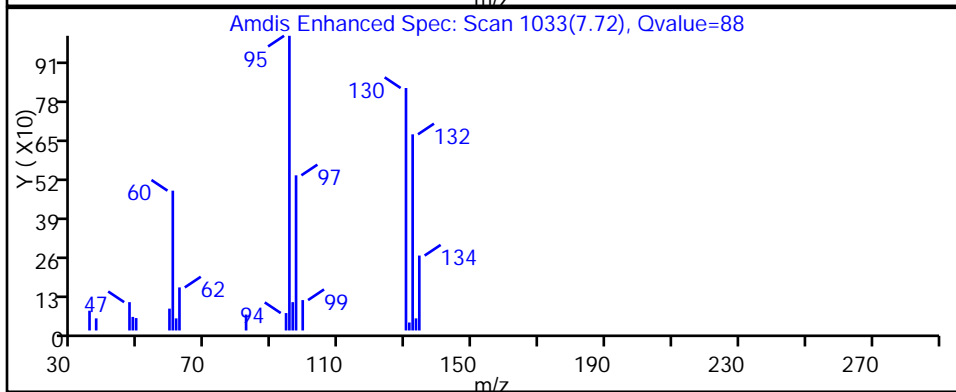
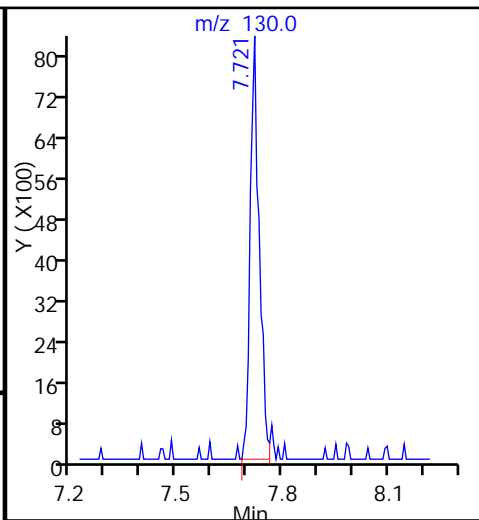
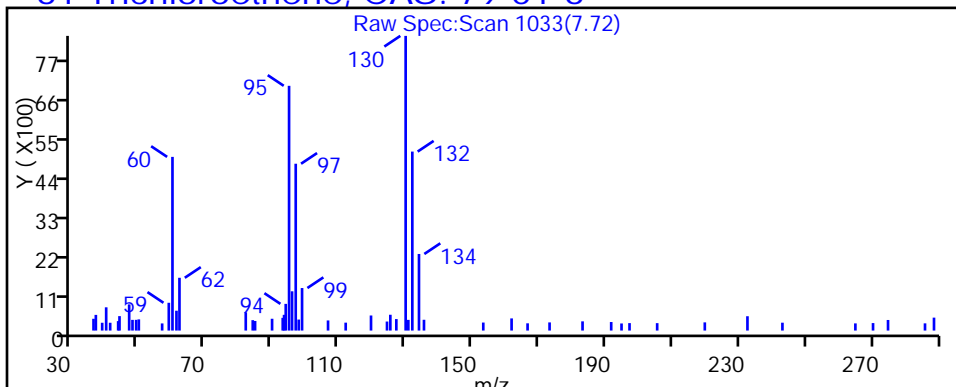
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

61 Trichloroethene, CAS: 79-01-6



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\60327015.D

Injection Date: 27-Mar-2015 18:18:30

Instrument ID: CHHP6

Lims ID: 180-42389-A-2

Lab Sample ID: 180-42389-2

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

Operator ID: 001562

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

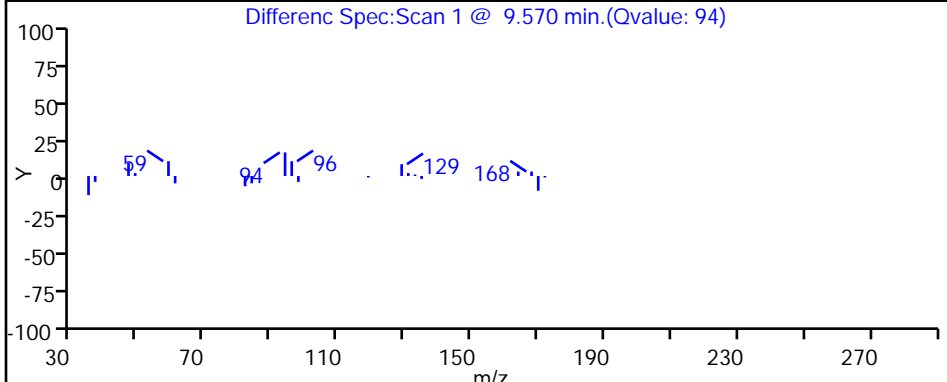
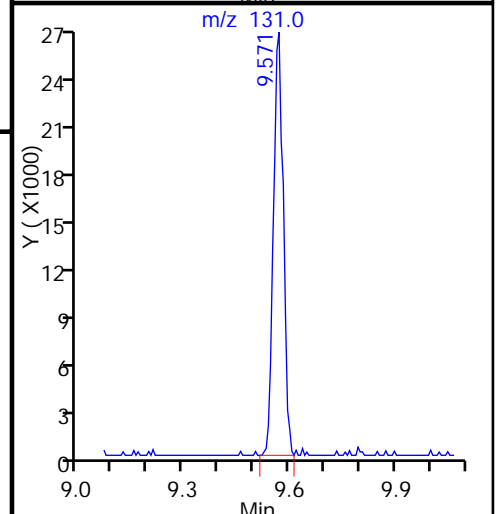
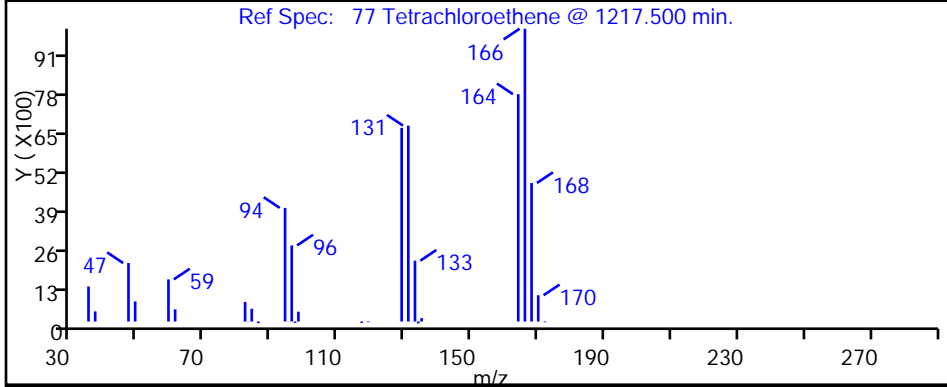
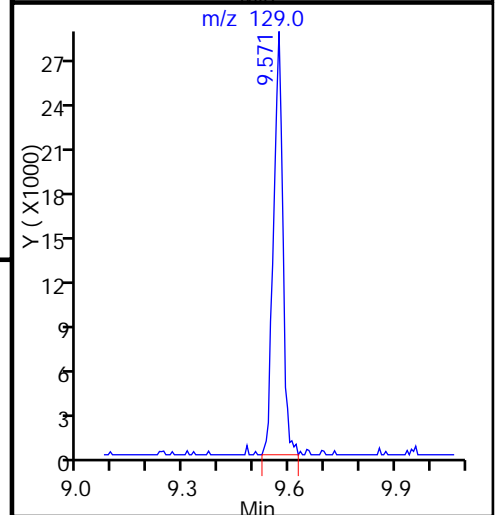
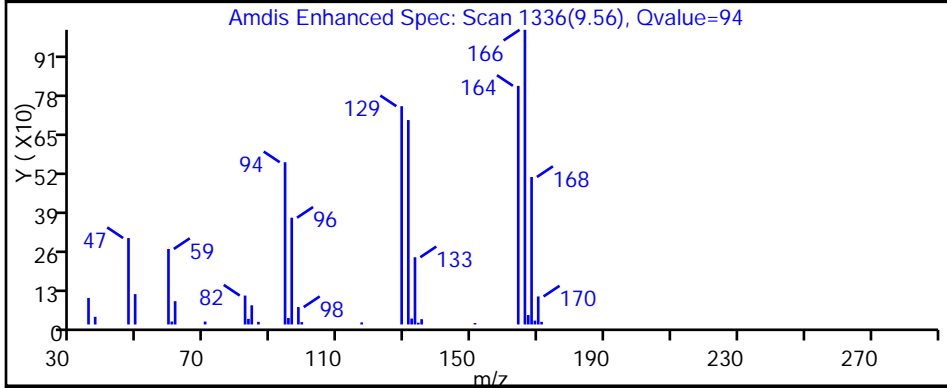
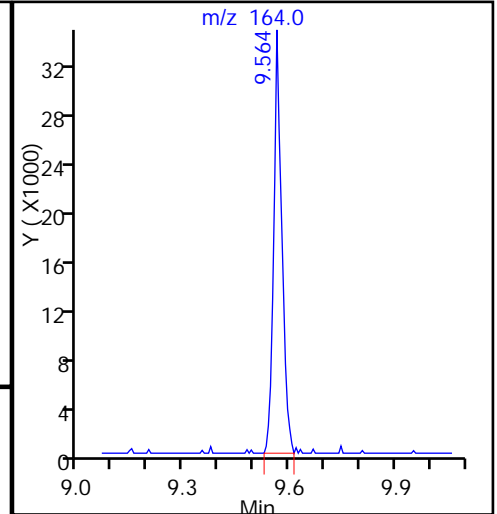
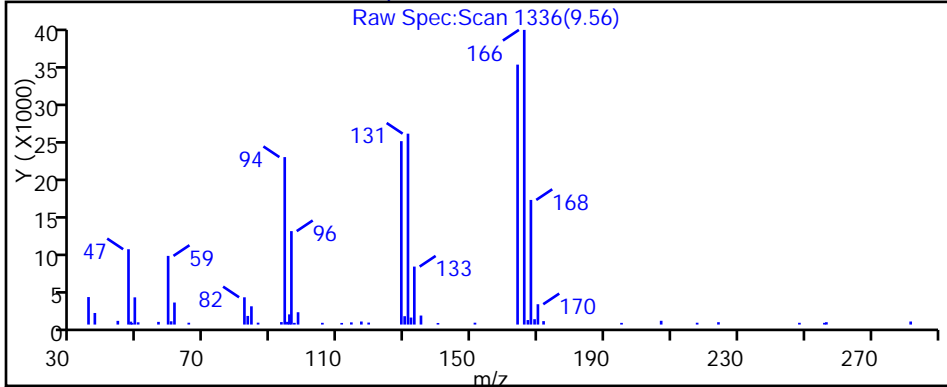
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

77 Tetrachloroethene, CAS: 127-18-4



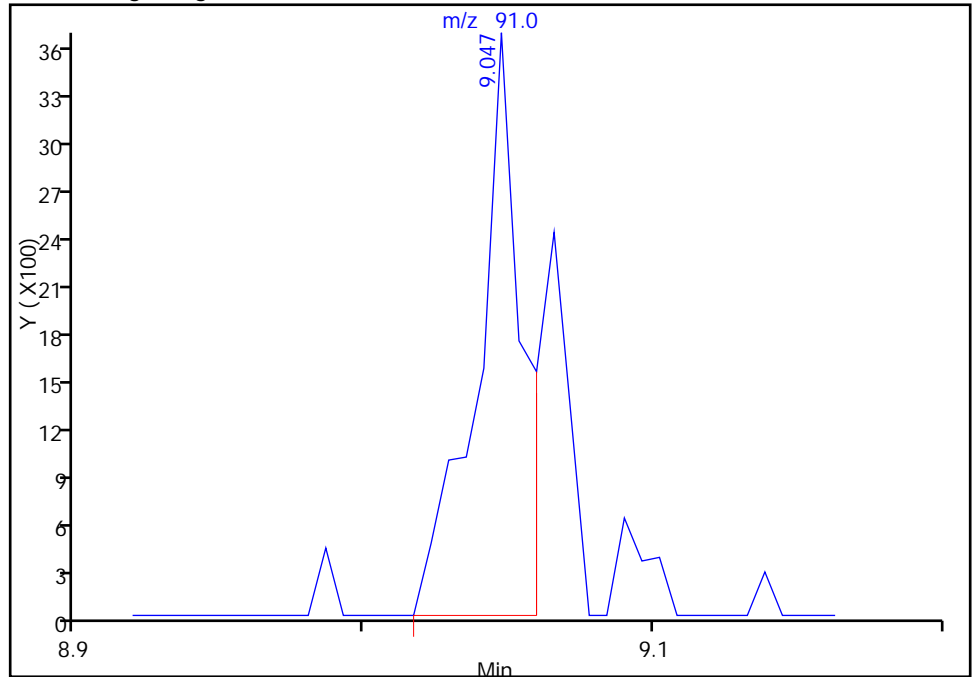
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\60327015.D
Injection Date: 27-Mar-2015 18:18:30 Instrument ID: CHHP6
Lims ID: 180-42389-A-2 Lab Sample ID: 180-42389-2
Client ID: HD-MW-174-0/1-0
Operator ID: 001562 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

73 Toluene, CAS: 108-88-3

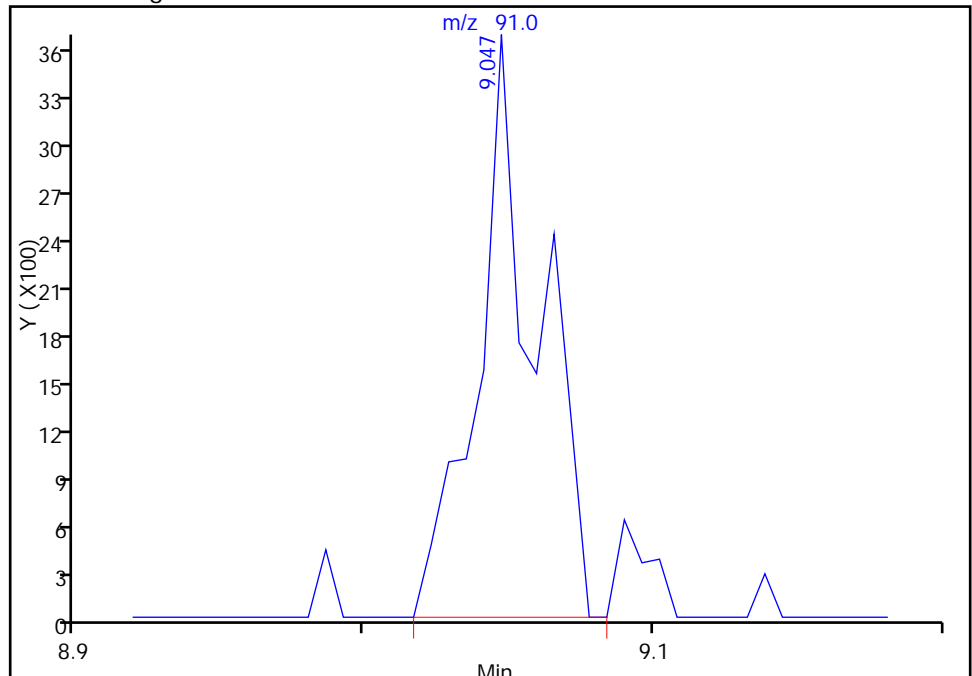
RT: 9.05
Area: 3989
Amount: 0.358457
Amount Units: ng

Processing Integration Results



RT: 9.05
Area: 5313
Amount: 0.477433
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 30-Mar-2015 07:30:48
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1
 SDG No.: _____
 Client Sample ID: HD-MW-170-0/1-0 Lab Sample ID: 180-42389-3
 Matrix: Water Lab File ID: 60330006.D
 Analysis Method: 8260C Date Collected: 03/25/2015 09:18
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 12:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 136938 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.28
75-01-4	Vinyl chloride	1.0	U	1.0	0.23
74-83-9	Bromomethane	1.0	U	1.0	0.31
75-00-3	Chloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.30
67-64-1	Acetone	5.0	U	5.0	2.5
75-15-0	Carbon disulfide	1.0	U	1.0	0.21
75-09-2	Methylene Chloride	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.17
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.18
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.12
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.24
74-97-5	Bromochloromethane	1.0	U	1.0	0.18
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.55
67-66-3	Chloroform	0.27	J	1.0	0.17
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.29
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.14
71-43-2	Benzene	1.0	U	1.0	0.11
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
79-01-6	Trichloroethene	1.0	U	1.0	0.14
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.095
75-27-4	Bromodichloromethane	1.0	U	1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53
108-88-3	Toluene	1.0	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.15
79-00-5	1,1,2-Trichloroethane	1.0	U F1	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 F1	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.: 180-42389-1
 SDG No.: _____
 Client Sample ID: HD-MW-170-0/1-0 Lab Sample ID: 180-42389-3
 Matrix: Water Lab File ID: 60330006.D
 Analysis Method: 8260C Date Collected: 03/25/2015 09:18
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 12:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 136938 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 F1 *	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)	125		64-135
2037-26-5	Toluene-d8 (Surr)	104		71-118
460-00-4	4-Bromofluorobenzene (Surr)	96		70-118
1868-53-7	Dibromofluoromethane (Surr)	108		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330006.D
 Lims ID: 180-42389-C-3 Lab Sample ID: 180-42389-3
 Client ID: HD-MW-170-0/1-0
 Sample Type: Client
 Inject. Date: 30-Mar-2015 12:14:30 ALS Bottle#: 6 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-42389-C-3
 Misc. Info.: 180-0006236-006
 Operator ID: 001562 Instrument ID: CHHP6
 Method: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\MMSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 30-Mar-2015 13:57:53 Calib Date: 28-Jan-2015 16:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: fergusond

Date: 30-Mar-2015 13:58:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.262	4.284	-0.022	91	258124	1000.0	
* 2 Fluorobenzene (IS)	96	7.328	7.332	-0.004	97	570748	50.0	
* 3 Chlorobenzene-d5	119	10.437	10.440	-0.003	93	120383	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.791	12.795	-0.004	98	187379	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.598	6.596	0.002	93	138788	53.8	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.976	6.973	0.003	70	231335	62.6	
\$ 7 Toluene-d8 (Surr)	98	8.977	8.980	-0.003	94	493110	52.0	
\$ 8 4-Bromofluorobenzene (Surr	95	11.629	11.627	0.002	82	193844	48.0	
11 Dichlorodifluoromethane	85		1.632				ND	
12 Chloromethane	50		1.765				ND	
13 Vinyl chloride	62		1.899				ND	
14 Butadiene	39		1.942				ND	
15 Bromomethane	94		2.246				ND	
16 Chloroethane	64		2.392				ND	
17 Dichlorofluoromethane	67		2.672				ND	
18 Trichlorofluoromethane	101		2.714				ND	
19 Ethanol	45		2.949				ND	
20 Ethyl ether	59		3.061				ND	
21 Acrolein	56		3.244				ND	
22 1,1-Dichloroethene	96		3.371				ND	
23 1,1,2-Trichloro-1,2,2-trif	101		3.432				ND	
24 Acetone	43		3.451				ND	
25 Iodomethane	142		3.584				ND	
26 Carbon disulfide	76		3.682				ND	
27 Isopropyl alcohol	45		3.727				ND	
28 Acetonitrile	40		3.879				ND	
29 3-Chloro-1-propene	76		3.962				ND	
30 Methyl acetate	43		3.968				ND	
31 Methylene Chloride	84		4.168				ND	
32 2-Methyl-2-propanol	59		4.412				ND	
33 Acrylonitrile	53		4.539				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
35 Methyl tert-butyl ether	73		4.606				ND	
34 trans-1,2-Dichloroethene	96		4.606				ND	
36 Hexane	57		5.026				ND	
37 1,1-Dichloroethane	63		5.239				ND	
38 Vinyl acetate	43		5.276				ND	
40 Isopropyl ether	45		5.333				ND	
39 2-Chloro-1,3-butadiene	53		5.339				ND	
41 Tert-butyl ethyl ether	59		5.808				ND	
42 2,2-Dichloropropane	77		5.975				ND	
43 cis-1,2-Dichloroethene	96		5.981				ND	
44 2-Butanone (MEK)	43		5.987				ND	
45 Propionitrile	54		6.051				ND	
46 Ethyl acetate	43		6.063				ND	
47 Methacrylonitrile	41		6.234				ND	
48 Chlorobromomethane	128		6.273				ND	
49 Tetrahydrofuran	42		6.285				ND	
50 Chloroform	83	6.416	6.413	0.003	67	8637	1.34	
51 1,1,1-Trichloroethane	97		6.584				ND	
52 Cyclohexane	56		6.663				ND	
53 Carbon tetrachloride	117		6.760				ND	
54 1,1-Dichloropropene	75		6.766				ND	
55 Isobutyl alcohol	41		6.936				ND	
56 Benzene	78		6.985				ND	
57 1,2-Dichloroethane	62		7.058				ND	
58 Tert-amyl methyl ether	73		7.158				ND	
59 n-Heptane	43		7.344				ND	
60 n-Butanol	56		7.639				ND	
61 Trichloroethene	130		7.721				ND	
62 Ethyl acrylate	55		7.828				ND	
63 Methylcyclohexane	83		7.964				ND	
64 1,2-Dichloropropane	63		7.989				ND	
66 Methyl methacrylate	69		8.065				ND	
65 1,4-Dioxane	88		8.074				ND	
67 Dibromomethane	93		8.080				ND	
68 Dichlorobromomethane	83		8.275				ND	
69 2-Nitropropane	41		8.485				ND	
70 2-Chloroethyl vinyl ether	63		8.570				ND	
71 cis-1,3-Dichloropropene	75		8.719				ND	
72 4-Methyl-2-pentanone (MIBK)	43		8.859				ND	
73 Toluene	91	9.050	9.047	0.003	58	4581	0.3722	
74 trans-1,3-Dichloropropene	75		9.297				ND	
75 Ethyl methacrylate	69		9.345				ND	
76 1,1,2-Trichloroethane	97		9.485				ND	
77 Tetrachloroethene	164		9.571				ND	
78 1,3-Dichloropropane	76		9.650				ND	
79 2-Hexanone	43		9.692				ND	
80 n-Butyl acetate	43		9.817				ND	
81 Chlorodibromomethane	129		9.863				ND	
82 Ethylene Dibromide	107		9.984				ND	
83 3-Chlorobenzotrifluoride	180		10.428				ND	
84 Chlorobenzene	112		10.471				ND	
85 4-Chlorobenzotrifluoride	180		10.520				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
86 1,1,1,2-Tetrachloroethane	131		10.562				ND	
87 Ethylbenzene	106		10.568				ND	
88 m-Xylene & p-Xylene	106		10.696				ND	
89 o-Xylene	106		11.079				ND	
90 Styrene	104		11.104				ND	
129 Cyclohexanol	57		11.289				ND	
91 Bromoform	173		11.292				ND	
92 2-Chlorobenzotrifluoride	180		11.341				ND	
93 Isopropylbenzene	105		11.444				ND	
94 Cyclohexanone	55		11.526				ND	
96 1,1,2,2-Tetrachloroethane	83		11.754				ND	
95 Bromobenzene	156		11.767				ND	
97 trans-1,4-Dichloro-2-buten	53		11.797				ND	
98 1,2,3-Trichloropropane	110		11.815				ND	
99 N-Propylbenzene	120		11.864				ND	
100 2-Chlorotoluene	126		11.955				ND	
101 3-Chlorotoluene	126		12.016				ND	
102 1,3,5-Trimethylbenzene	105		12.046				ND	
103 4-Chlorotoluene	126		12.077				ND	
104 tert-Butylbenzene	119		12.363				ND	
105 Pentachloroethane	167		12.402				ND	
106 1,2,4-Trimethylbenzene	105		12.424				ND	
107 1,2-dichloro-4-(trifluorom	214		12.454				ND	
108 sec-Butylbenzene	105		12.588				ND	
109 1,3-Dichlorobenzene	146		12.710				ND	
110 4-Isopropyltoluene	119		12.746				ND	
111 1,4-Dichlorobenzene	146		12.819				ND	
113 2,4-Dichloro-1-(triflourom	214		12.831				ND	
112 1,2,3-Trimethylbenzene	105		12.834				ND	
114 2,5-Dichlorobenzotrifluori	214		12.868				ND	
115 Benzyl chloride	91		12.926				ND	
116 n-Butylbenzene	91		13.154				ND	
117 1,2-Dichlorobenzene	146		13.166				ND	
118 1,2-Dibromo-3-Chloropropan	75		13.957				ND	
119 2,4- & 2,5- & 2,6- Dichlor	125		14.103				ND	
120 1,3,5-Trichlorobenzene	180		14.154				ND	
121 2,3- & 3,4- Dichlorotoluen	125		14.516				ND	
122 1,2,4-Trichlorobenzene	180		14.784				ND	
123 Hexachlorobutadiene	225		14.930				ND	
124 Naphthalene	128		15.052				ND	
125 1,2,3-Trichlorobenzene	180		15.277				ND	
126 2,4,5-Trichlorotoluene	159		16.049				ND	
127 2,3,6-Trichlorotoluene	159		16.147				ND	
128 2-Methylnaphthalene	142		16.186				ND	
144 2,4-Dichlorotoluene	1		0.000				ND	
152 Formaldehyde TIC	1		0.000				ND	
147 2,6-Dichlorotoluene	1		0.000				ND	
143 2,5-Dichlorotoluene	1		0.000				ND	
153 1,2 Epoxybutane TIC	1		0.000				ND	
149 Isopropyl ether TIC	1		0.000				ND	
151 Tert-amyl methyl ether (TI	1		0.000				ND	
148 Isooctane	57		0.000				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ng	Flags
146 3,4-Dichlorotoluene	1		0.000				ND	
150 Tert-butyl ethyl ether (TI	1		0.000				ND	
145 2,3-Dichlorotoluene	1		0.000				ND	
S 130 1,2-Dichloroethene, Total	96		1.000				ND	
S 131 Xylenes, Total	106		1.000				ND	
S 132 1,3-Dichloropropene, Total	1		0.000				ND	
T 133 Tetrahydrofuran TIC	42		0.000				ND	
T 134 Methyl n-amyl ketone TIC	43		0.000				ND	
T 135 Mesityl oxide TIC	83		0.000				ND	

Reagents:

VOA8260INT_00030

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00032

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330006.D

Injection Date: 30-Mar-2015 12:14:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: 180-42389-C-3

Lab Sample ID: 180-42389-3

Worklist Smp#: 6

Client ID: HD-MW-170-0/1-0

Purge Vol: 5.000 mL

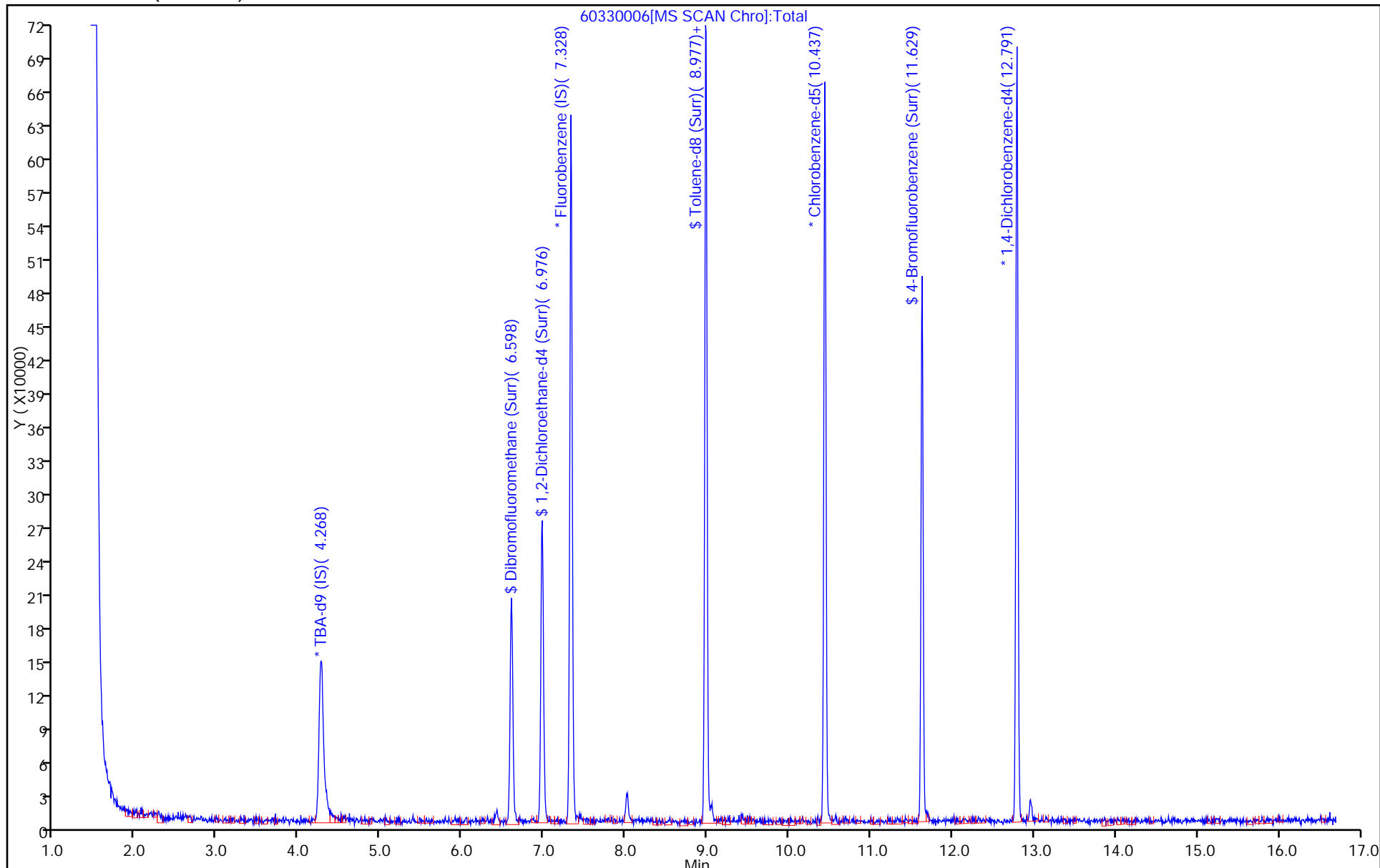
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330006.D

Injection Date: 30-Mar-2015 12:14:30

Instrument ID: CHHP6

Lims ID: 180-42389-C-3

Lab Sample ID: 180-42389-3

Client ID: HD-MW-170-0/1-0

Operator ID: 001562

ALS Bottle#: 6

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

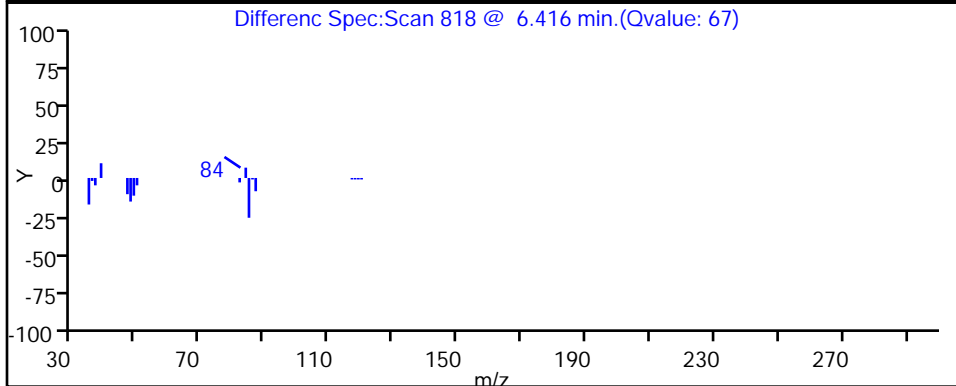
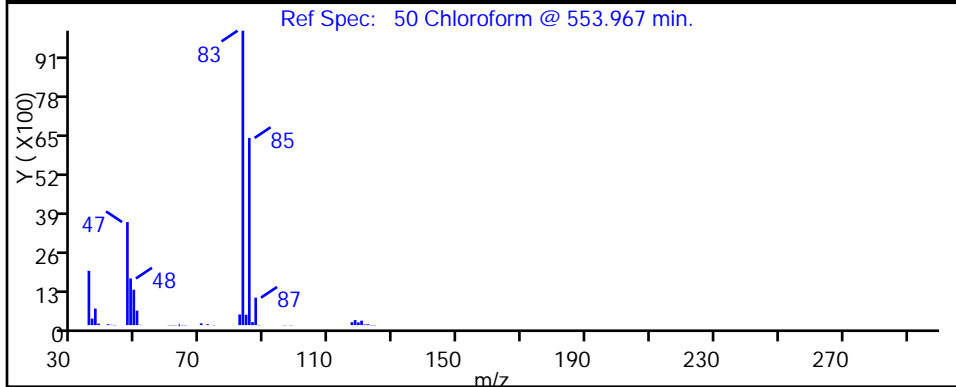
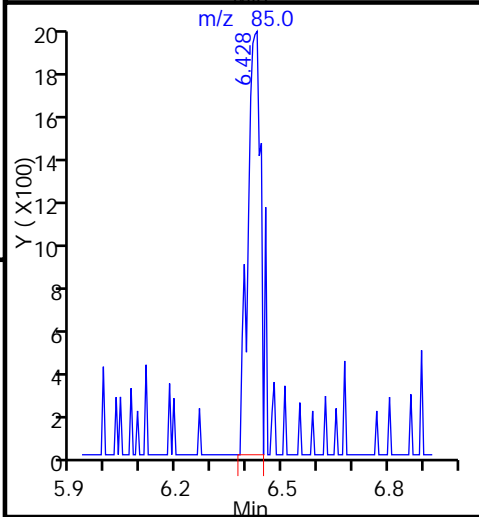
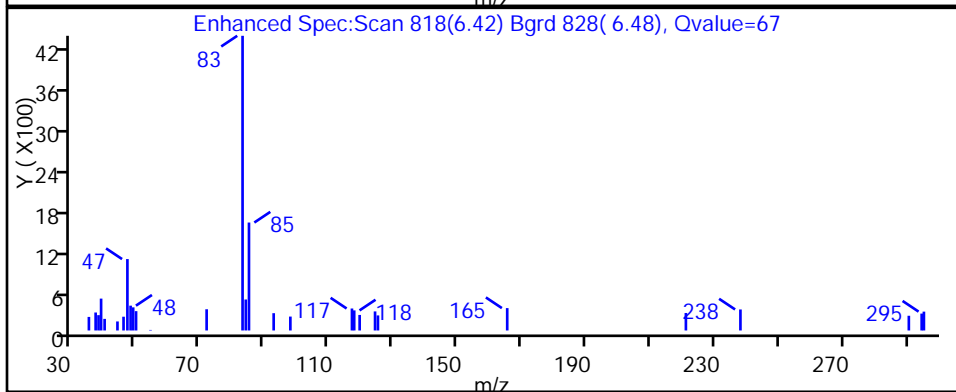
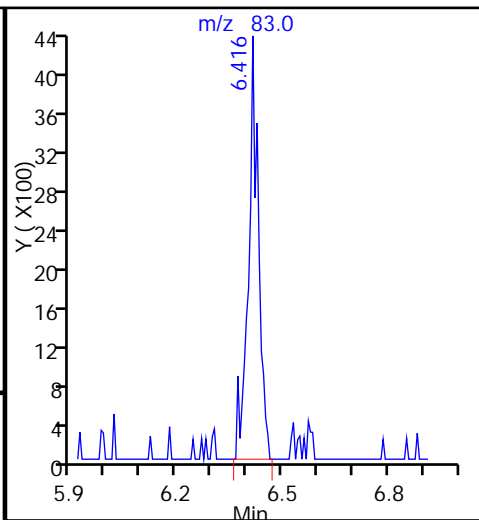
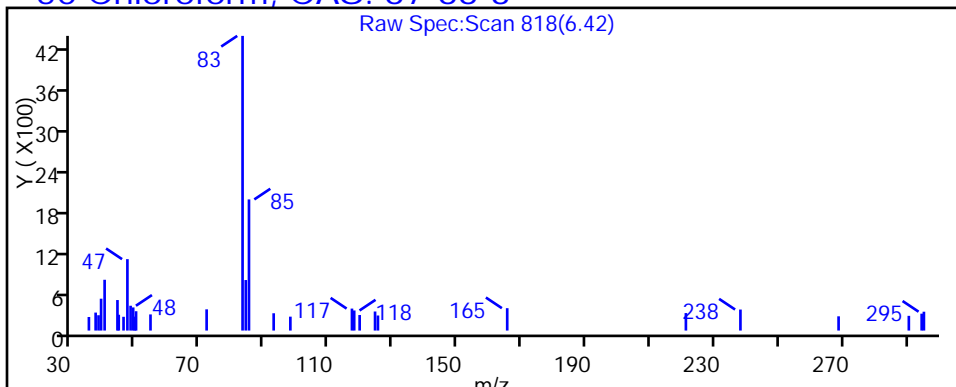
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

50 Chloroform, CAS: 67-66-3



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1
 SDG No.: _____
 Client Sample ID: HD-MW-171-0/1-0 Lab Sample ID: 180-42389-4
 Matrix: Water Lab File ID: 60330012.D
 Analysis Method: 8260C Date Collected: 03/25/2015 11:50
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 14:39
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 136938 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	10		5.0	2.5
75-15-0	Carbon disulfide	0.31	J	1.0	0.21
75-09-2	Methylene Chloride	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.17
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.18
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.12
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.24
74-97-5	Bromochloromethane	1.0	U	1.0	0.18
78-93-3	2-Butanone (MEK)	32		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	0.17	J	1.0	0.11
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
79-01-6	Trichloroethene	0.36	J	1.0	0.14
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.095
75-27-4	Bromodichloromethane	1.0	U	1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53
108-88-3	Toluene	0.29	J	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	2.4		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.: 180-42389-1
 SDG No.: _____
 Client Sample ID: HD-MW-171-0/1-0 Lab Sample ID: 180-42389-4
 Matrix: Water Lab File ID: 60330012.D
 Analysis Method: 8260C Date Collected: 03/25/2015 11:50
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 14:39
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 136938 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)	103		71-118
460-00-4	4-Bromofluorobenzene (Surr)	103		70-118
1868-53-7	Dibromofluoromethane (Surr)	105		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330012.D
 Lims ID: 180-42389-C-4 Lab Sample ID: 180-42389-4
 Client ID: HD-MW-171-0/1-0
 Sample Type: Client
 Inject. Date: 30-Mar-2015 14:39:30 ALS Bottle#: 12 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-42389-C-4
 Misc. Info.: 180-0006236-012
 Operator ID: 001562 Instrument ID: CHHP6
 Method: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\MMSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 30-Mar-2015 15:42:30 Calib Date: 28-Jan-2015 16:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: fergusond

Date: 30-Mar-2015 15:42:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.272	4.284	-0.012	91	299539	1000.0	
* 2 Fluorobenzene (IS)	96	7.332	7.332	0.000	98	621949	50.0	
* 3 Chlorobenzene-d5	119	10.441	10.440	0.001	92	123709	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.789	12.795	-0.006	97	191434	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.602	6.596	0.006	93	147325	52.4	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.973	6.973	0.000	71	234080	58.1	
\$ 7 Toluene-d8 (Surr)	98	8.981	8.980	0.001	93	503892	51.7	
\$ 8 4-Bromofluorobenzene (Surr	95	11.627	11.627	0.000	82	212694	51.3	
12 Chloromethane	50		1.765				ND	
13 Vinyl chloride	62		1.899				ND	
15 Bromomethane	94		2.246				ND	
16 Chloroethane	64		2.392				ND	
22 1,1-Dichloroethene	96		3.371				ND	
24 Acetone	43	3.457	3.451	0.006	99	56571	51.4	
26 Carbon disulfide	76	3.694	3.682	0.012	61	15865	1.53	M
31 Methylene Chloride	84		4.168				ND	
33 Acrylonitrile	53		4.539				ND	
35 Methyl tert-butyl ether	73		4.606				ND	
34 trans-1,2-Dichloroethene	96		4.606				ND	
37 1,1-Dichloroethane	63		5.239				ND	
43 cis-1,2-Dichloroethene	96		5.981				ND	
44 2-Butanone (MEK)	43	5.982	5.987	-0.005	100	228216	161.8	
48 Chlorobromomethane	128		6.273				ND	
50 Chloroform	83		6.413				ND	
51 1,1,1-Trichloroethane	97		6.584				ND	
53 Carbon tetrachloride	117		6.760				ND	
56 Benzene	78	6.979	6.985	-0.006	44	13132	0.8503	
57 1,2-Dichloroethane	62		7.058				ND	
61 Trichloroethene	130	7.728	7.721	0.007	94	6294	1.79	M
64 1,2-Dichloropropane	63		7.989				ND	
65 1,4-Dioxane	88		8.074				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83		8.275				ND	
71 cis-1,3-Dichloropropene	75		8.719				ND	
72 4-Methyl-2-pentanone (MIBK)	43	8.853	8.859	-0.006	65	6634	2.38	
73 Toluene	91	9.048	9.047	0.001	85	18031	1.43	
74 trans-1,3-Dichloropropene	75		9.297				ND	
76 1,1,2-Trichloroethane	97		9.485				ND	
77 Tetrachloroethene	164	9.571	9.571	0.000	93	26862	11.9	
79 2-Hexanone	43		9.692				ND	
81 Chlorodibromomethane	129		9.863				ND	
82 Ethylene Dibromide	107		9.984				ND	
84 Chlorobenzene	112		10.471				ND	
86 1,1,1,2-Tetrachloroethane	131		10.562				ND	
87 Ethylbenzene	106		10.568				ND	
88 m-Xylene & p-Xylene	106		10.696				ND	
89 o-Xylene	106		11.079				ND	
90 Styrene	104		11.104				ND	
91 Bromoform	173		11.292				ND	
96 1,1,2,2-Tetrachloroethane	83		11.754				ND	
S 131 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00030

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00032

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330012.D

Injection Date: 30-Mar-2015 14:39:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: 180-42389-C-4

Lab Sample ID: 180-42389-4

Worklist Smp#: 12

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

Purge Vol: 5.000 mL

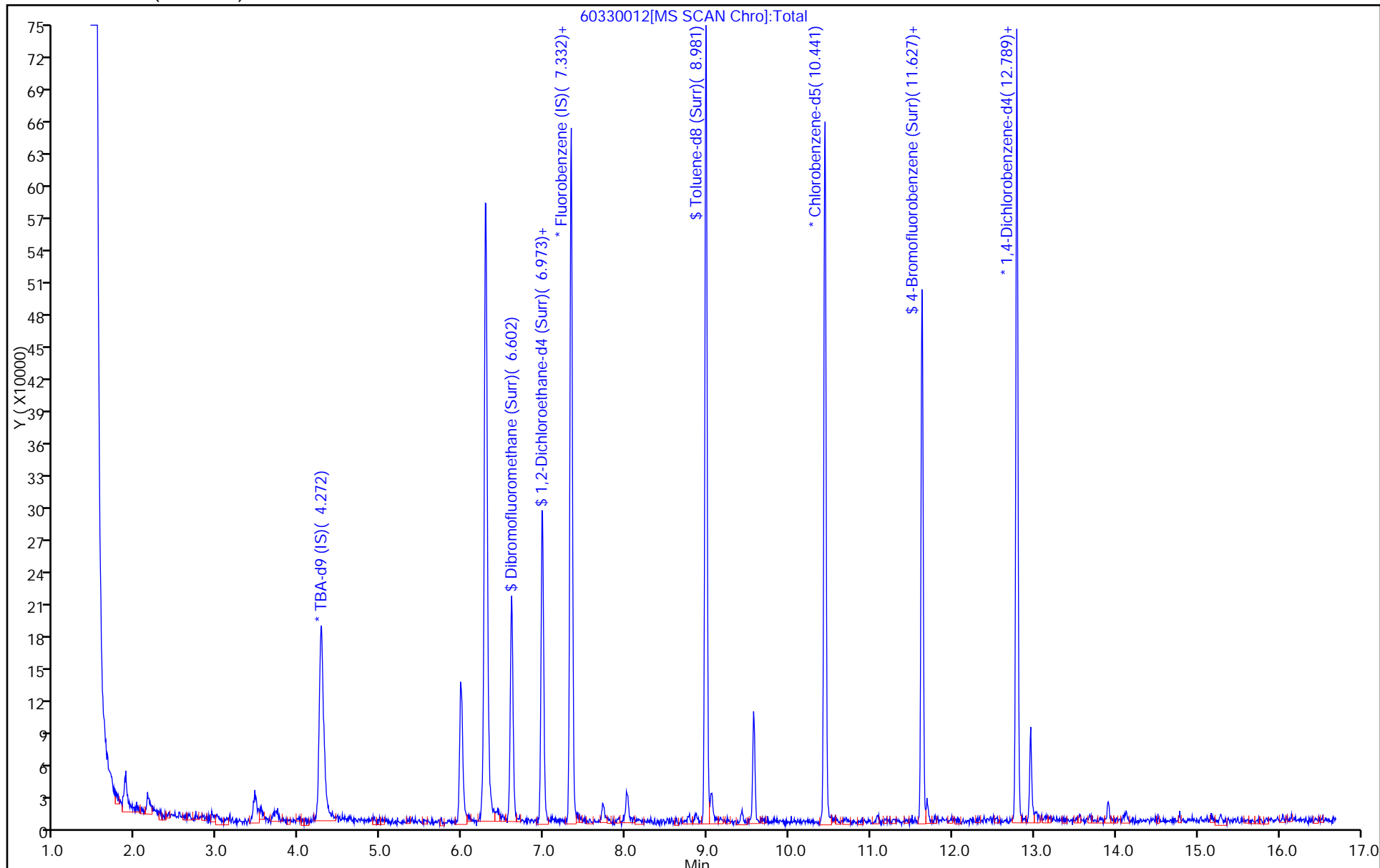
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330012.D

Injection Date: 30-Mar-2015 14:39:30

Instrument ID: CHHP6

Lims ID: 180-42389-C-4

Lab Sample ID: 180-42389-4

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

Operator ID: 001562

ALS Bottle#: 12

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

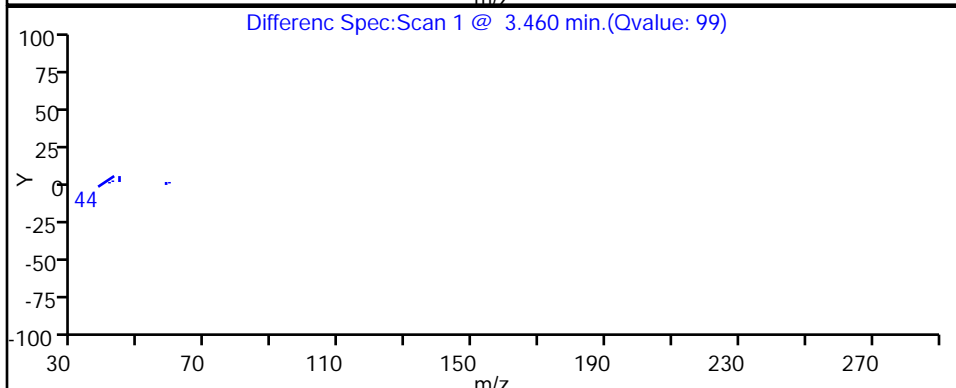
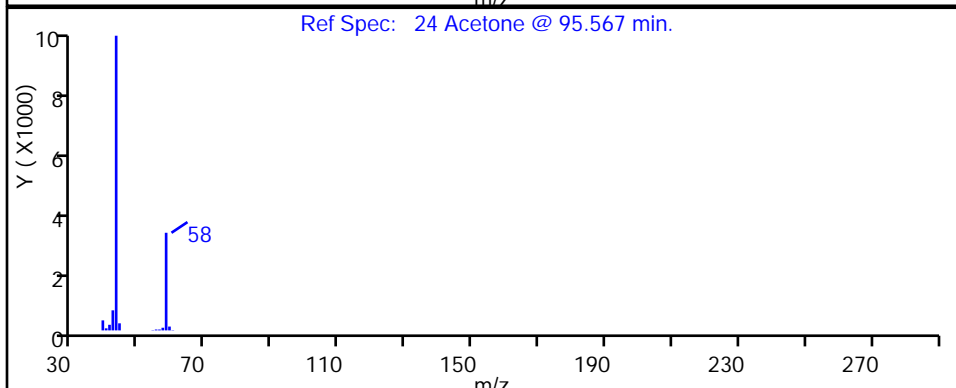
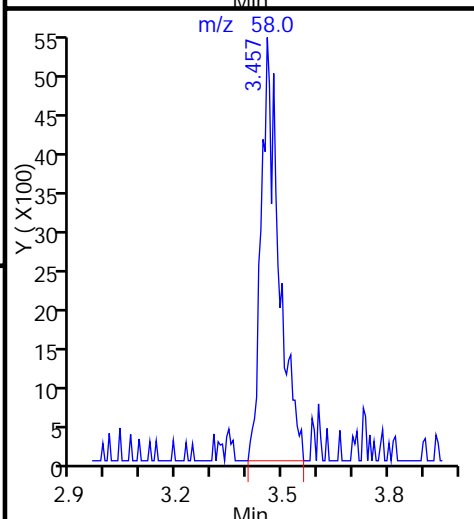
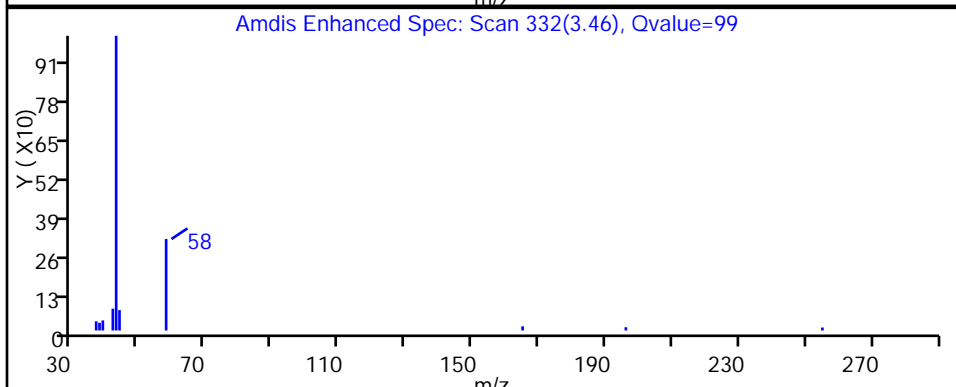
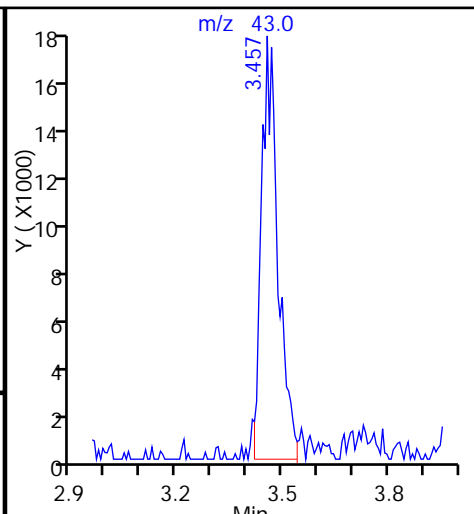
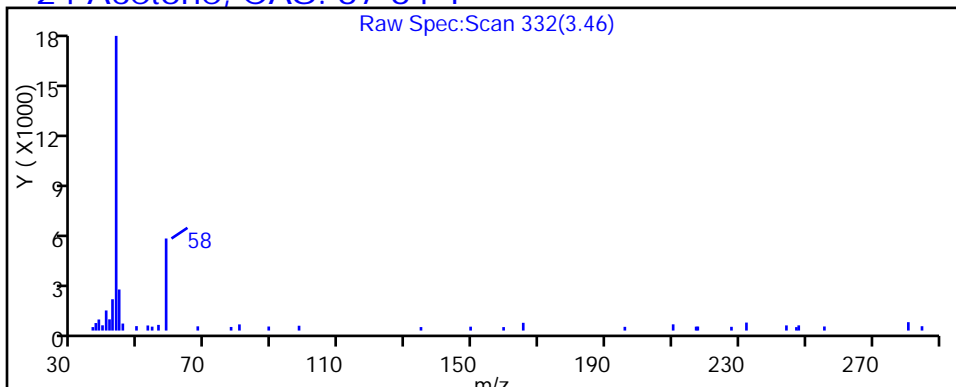
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

24 Acetone, CAS: 67-64-1



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330012.D

Injection Date: 30-Mar-2015 14:39:30

Instrument ID: CHHP6

Lims ID: 180-42389-C-4

Lab Sample ID: 180-42389-4

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

Operator ID: 001562

ALS Bottle#: 12

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

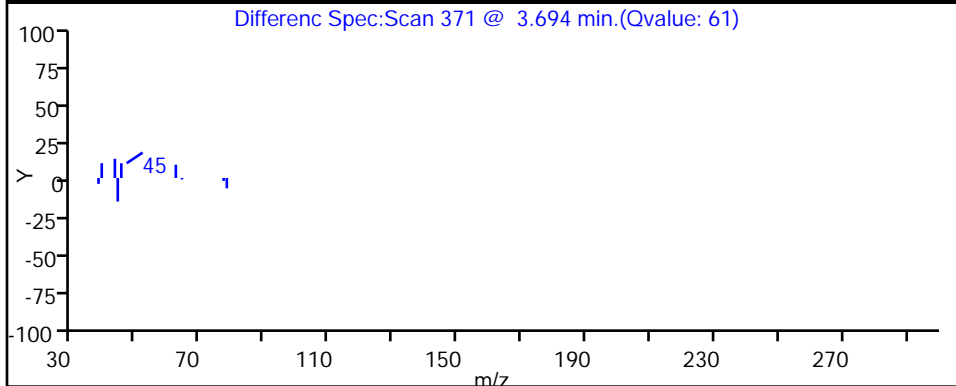
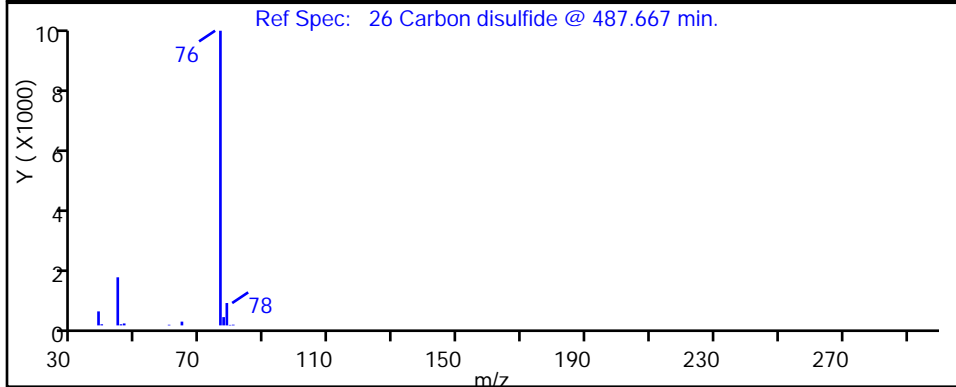
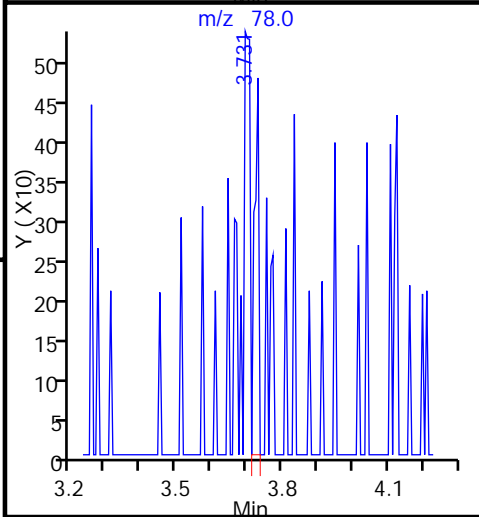
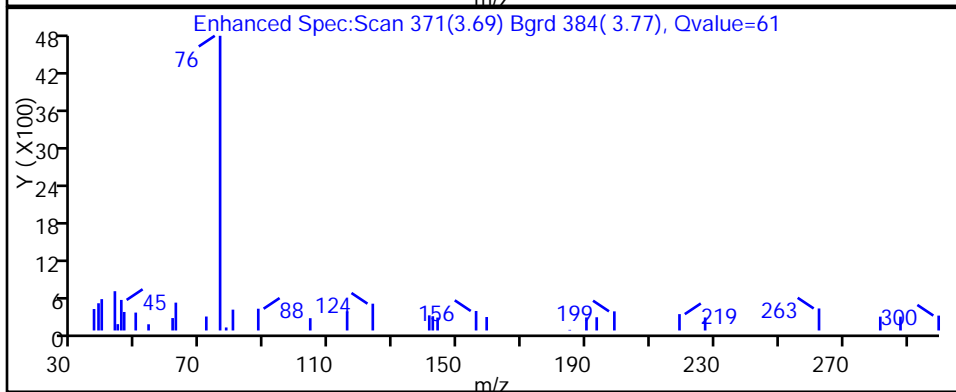
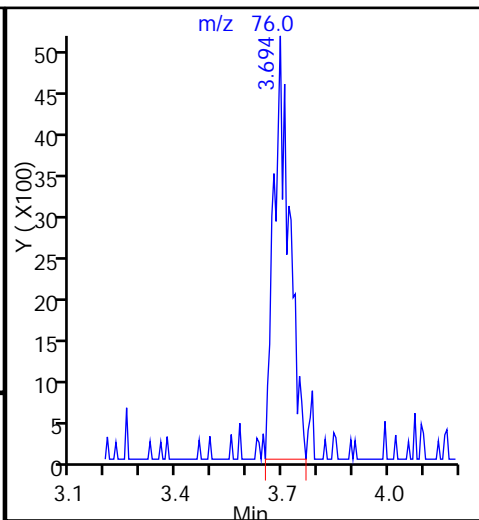
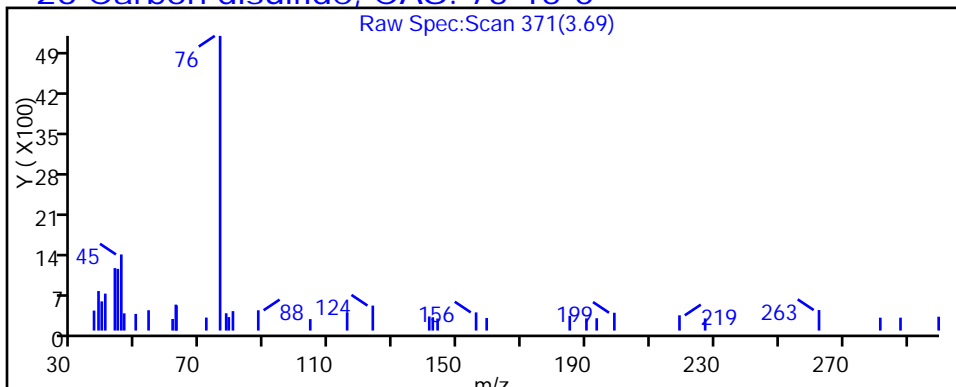
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

26 Carbon disulfide, CAS: 75-15-0



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330012.D

Injection Date: 30-Mar-2015 14:39:30

Instrument ID: CHHP6

Lims ID: 180-42389-C-4

Lab Sample ID: 180-42389-4

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

Operator ID: 001562

ALS Bottle#: 12

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

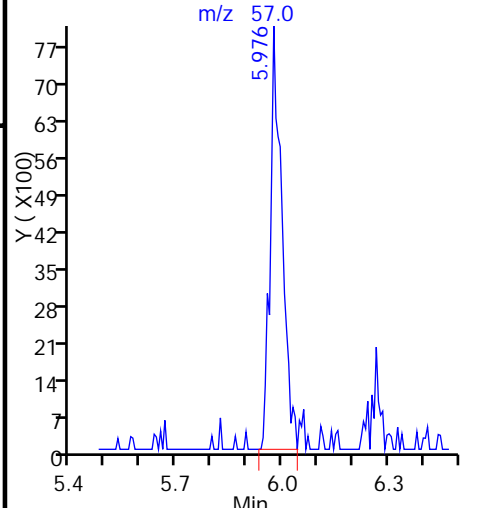
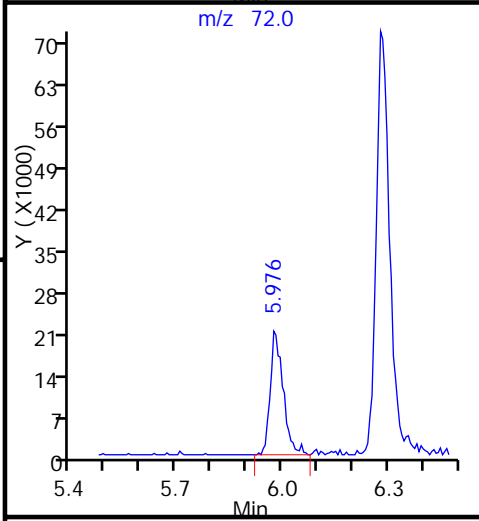
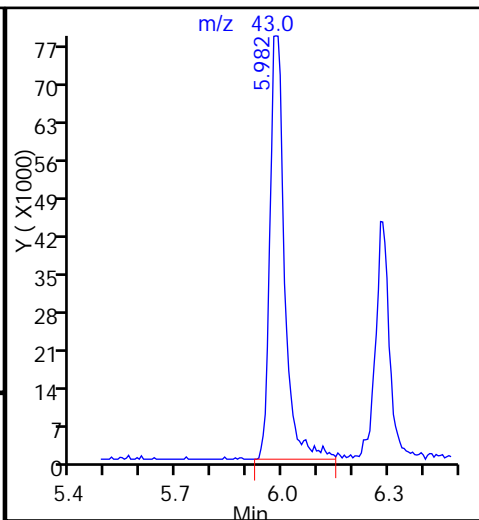
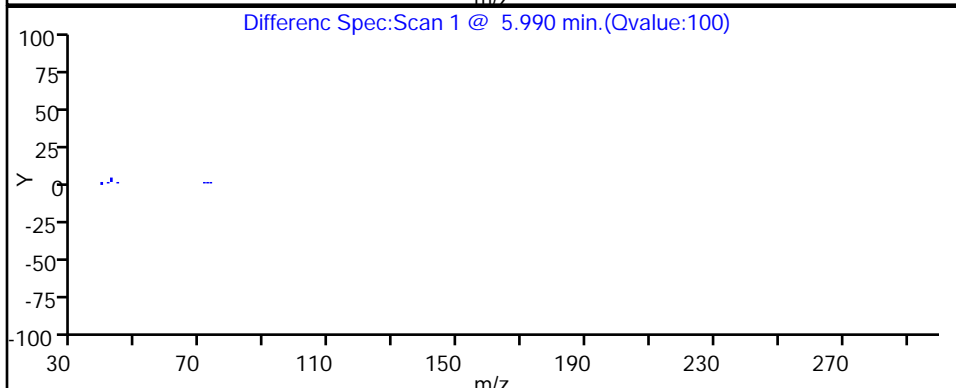
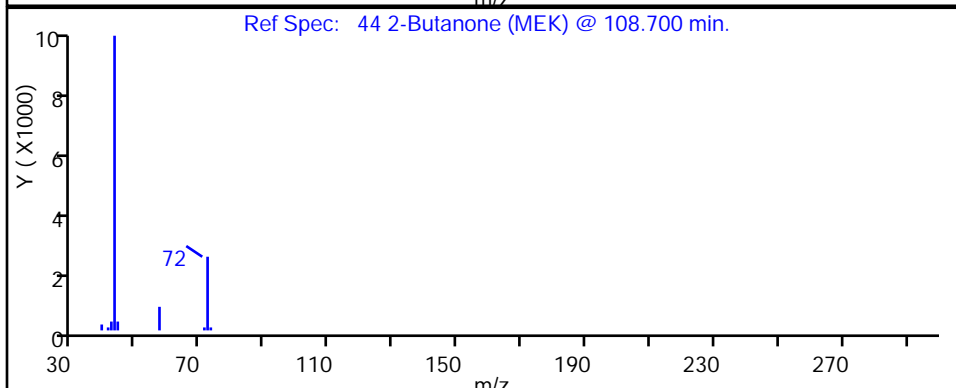
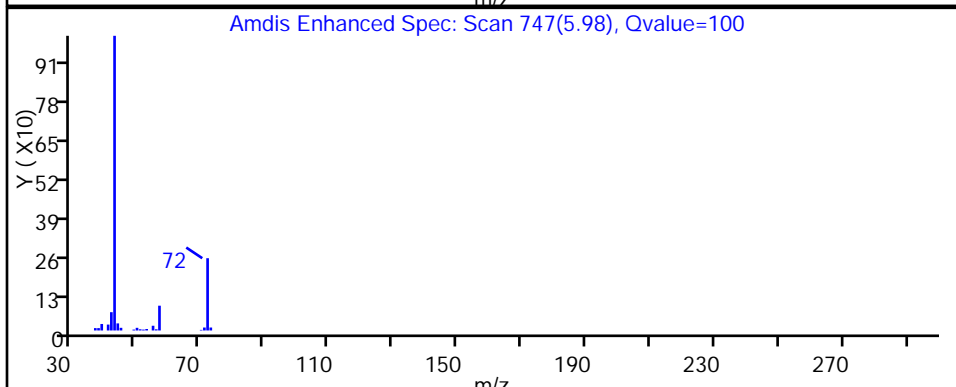
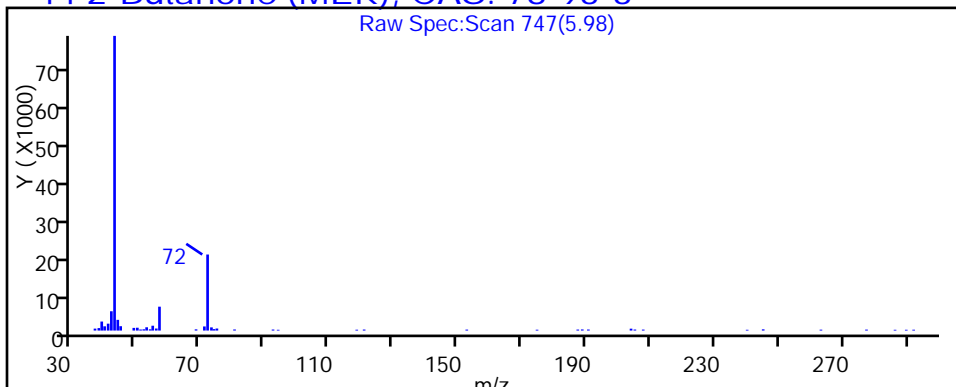
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

44 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330012.D

Injection Date: 30-Mar-2015 14:39:30

Instrument ID: CHHP6

Lims ID: 180-42389-C-4

Lab Sample ID: 180-42389-4

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

Operator ID: 001562

ALS Bottle#: 12

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

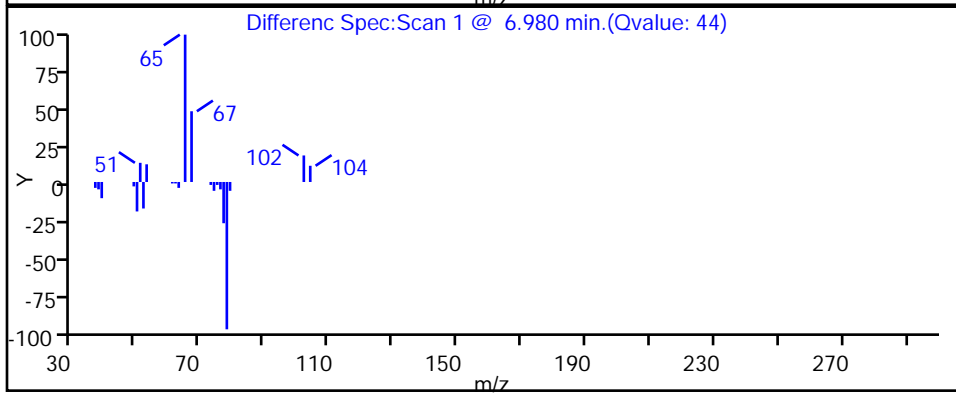
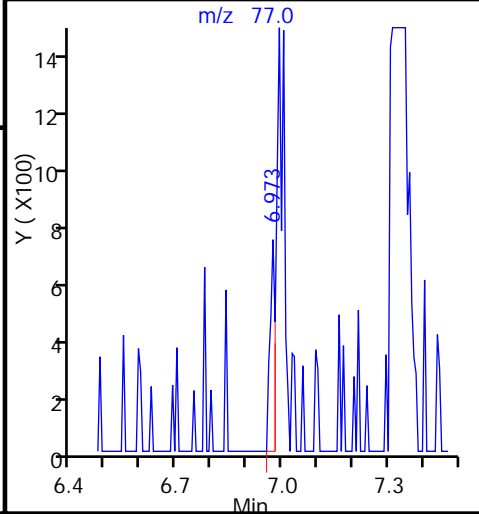
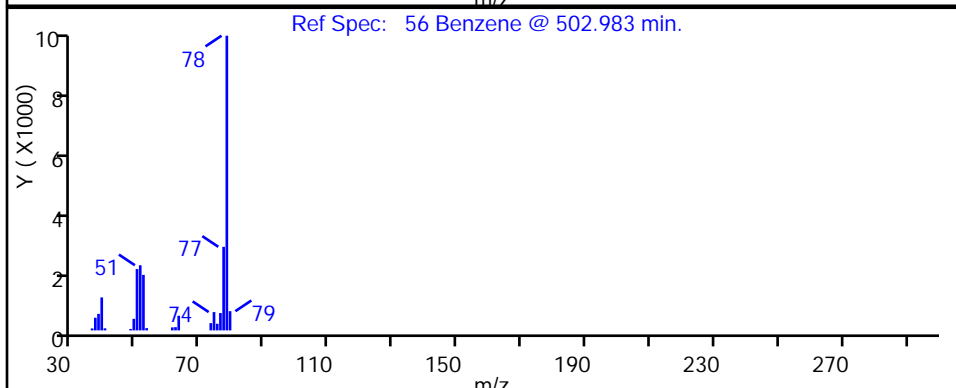
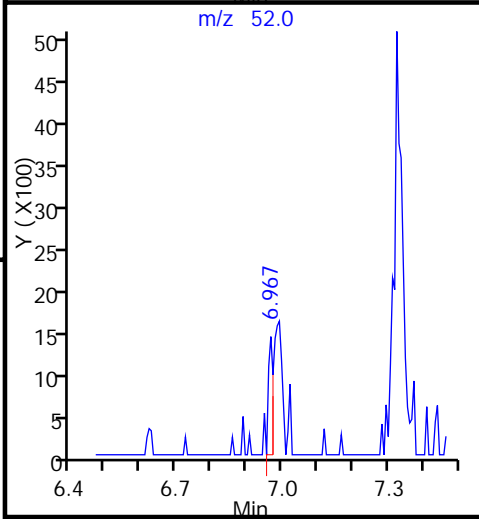
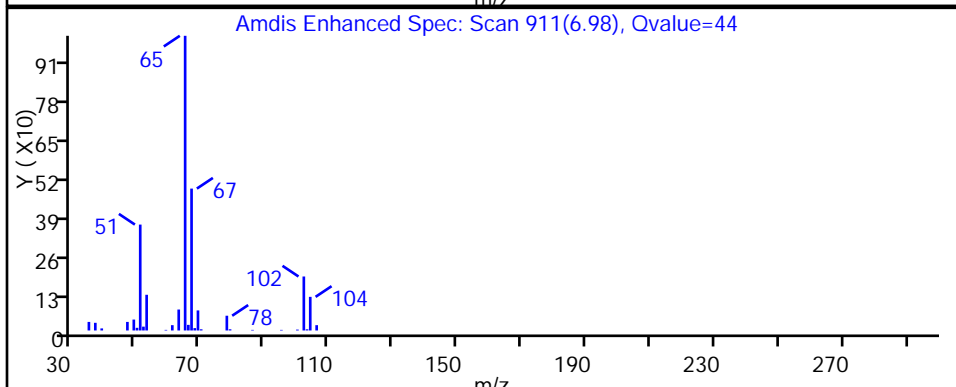
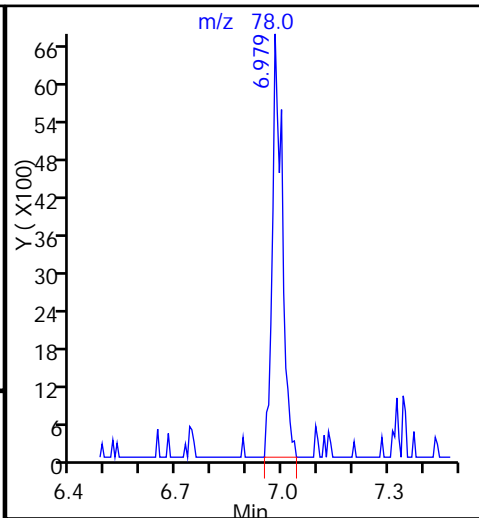
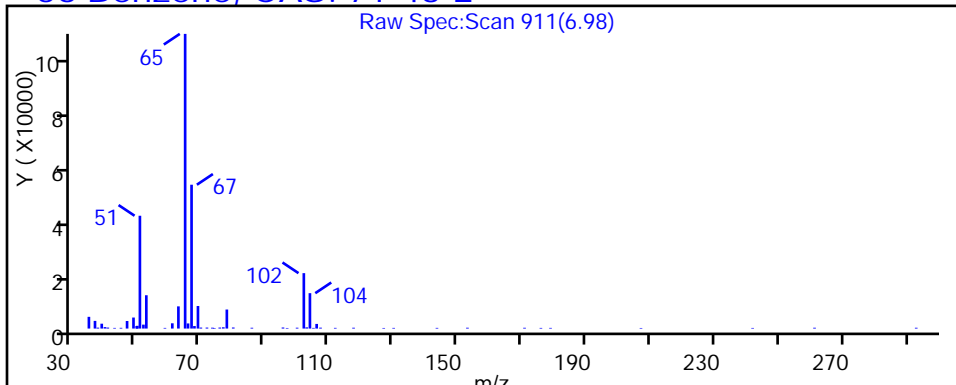
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

56 Benzene, CAS: 71-43-2



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330012.D

Injection Date: 30-Mar-2015 14:39:30

Instrument ID: CHHP6

Lims ID: 180-42389-C-4

Lab Sample ID: 180-42389-4

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

Operator ID: 001562

ALS Bottle#: 12

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

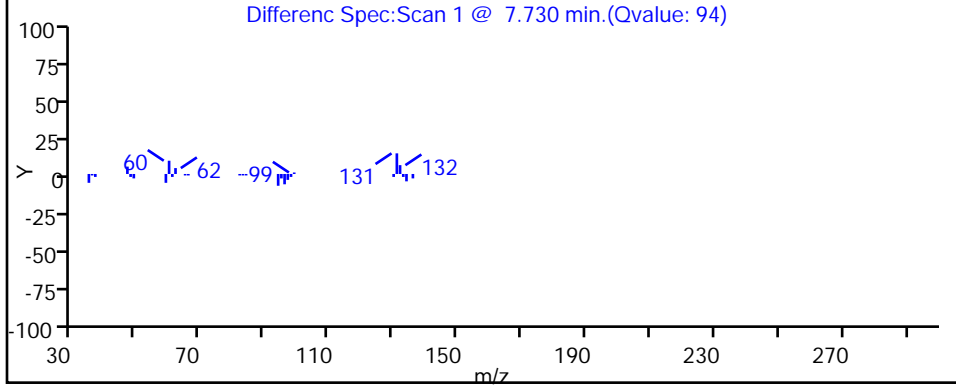
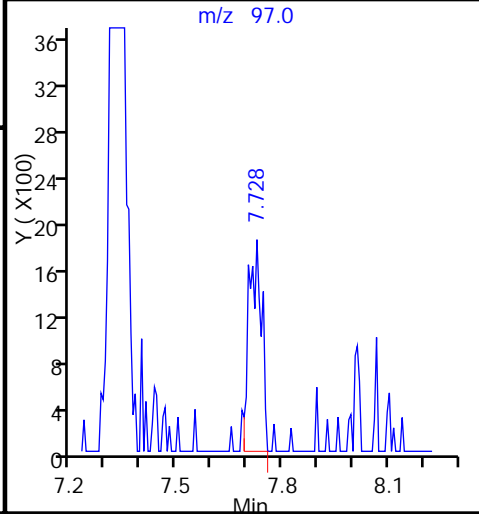
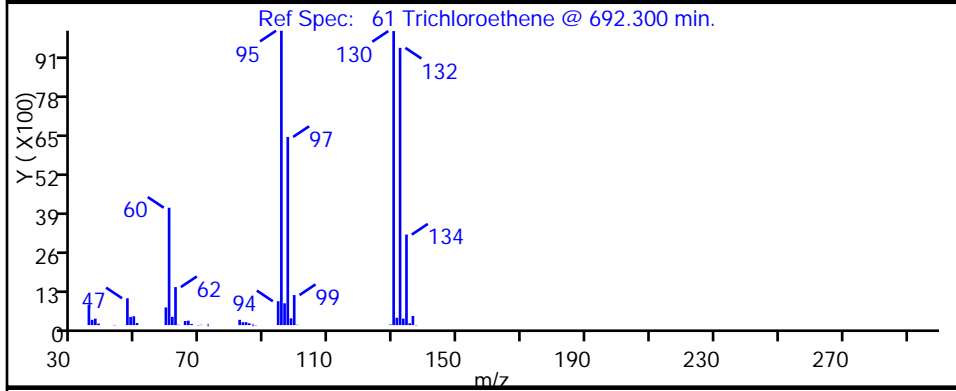
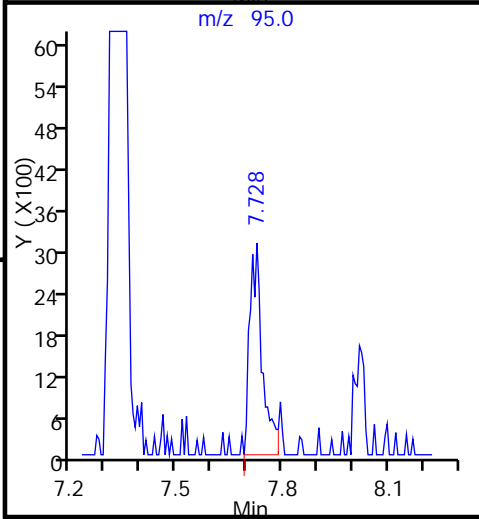
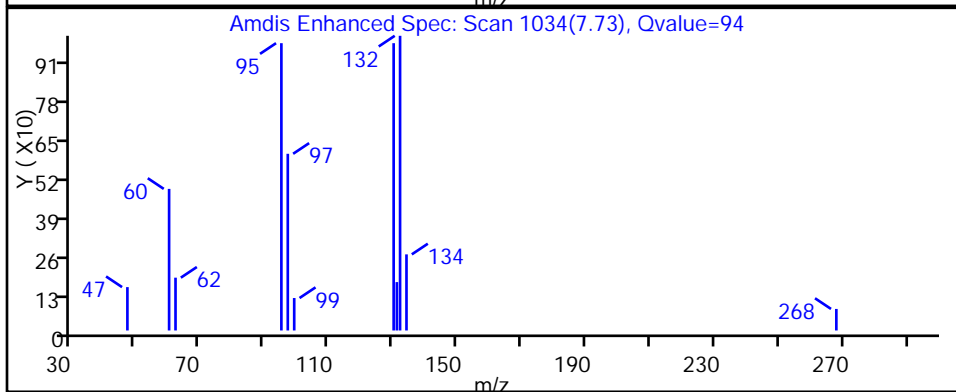
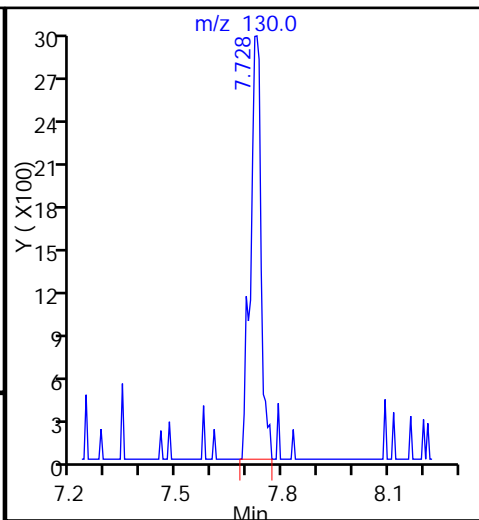
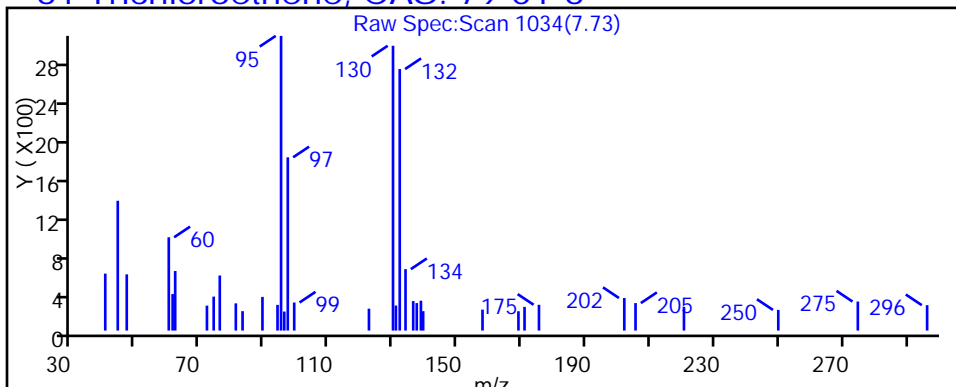
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

61 Trichloroethene, CAS: 79-01-6



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330012.D

Injection Date: 30-Mar-2015 14:39:30

Instrument ID: CHHP6

Lims ID: 180-42389-C-4

Lab Sample ID: 180-42389-4

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

Operator ID: 001562

ALS Bottle#: 12

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

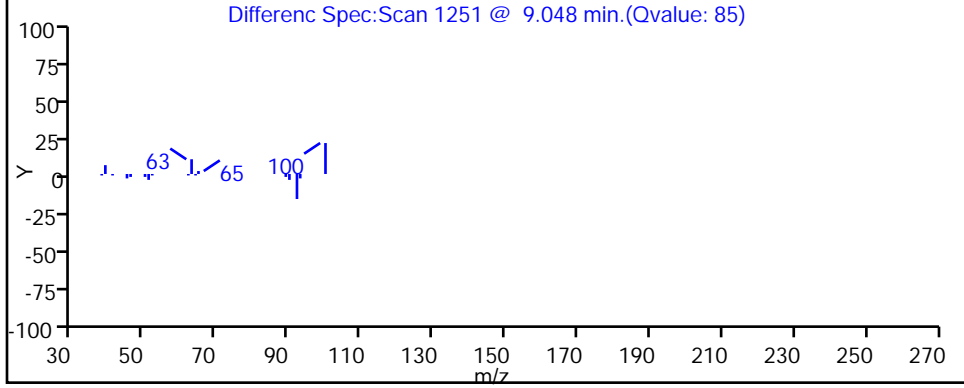
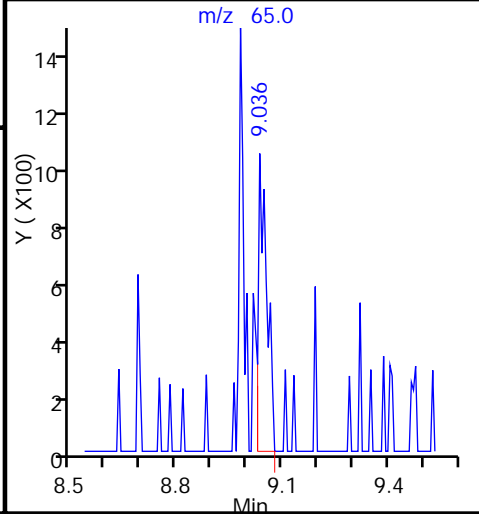
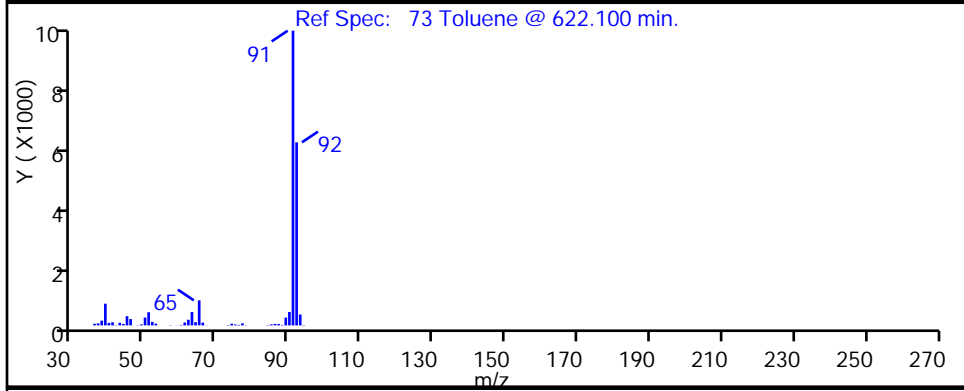
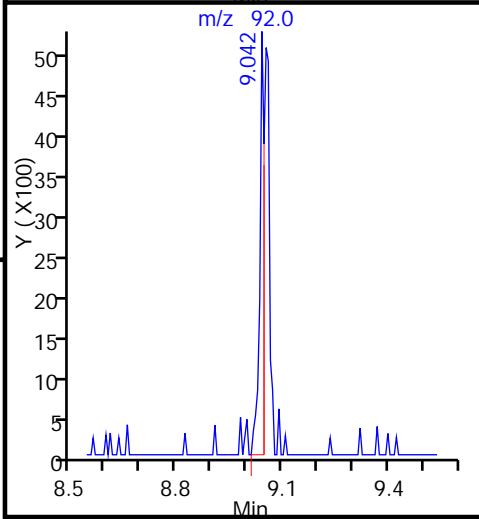
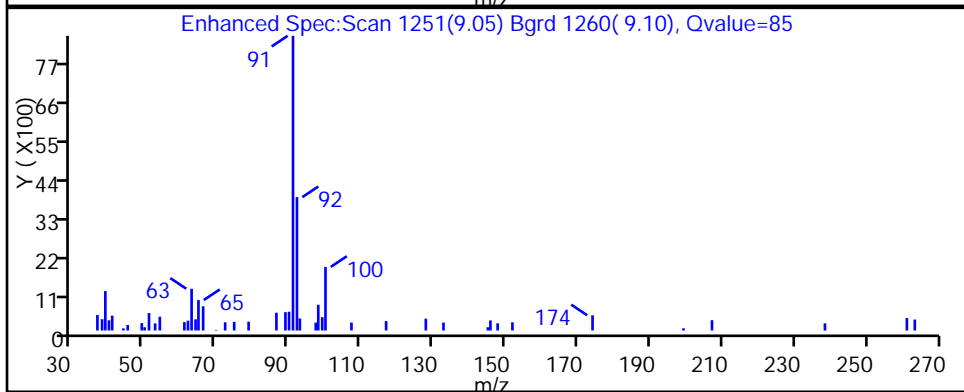
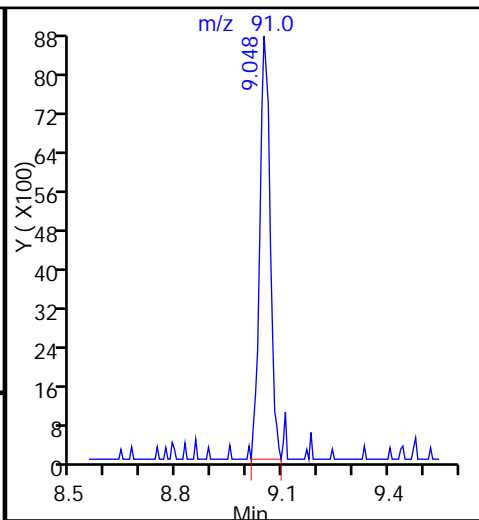
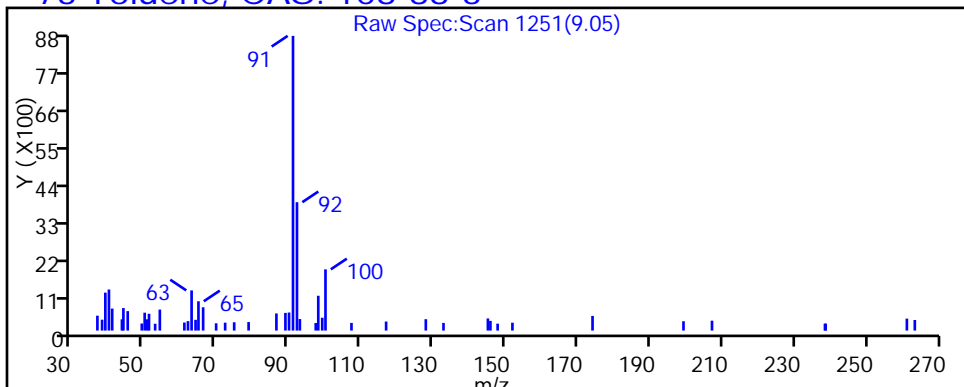
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

73 Toluene, CAS: 108-88-3



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330012.D

Injection Date: 30-Mar-2015 14:39:30

Instrument ID: CHHP6

Lims ID: 180-42389-C-4

Lab Sample ID: 180-42389-4

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

Operator ID: 001562

ALS Bottle#: 12

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

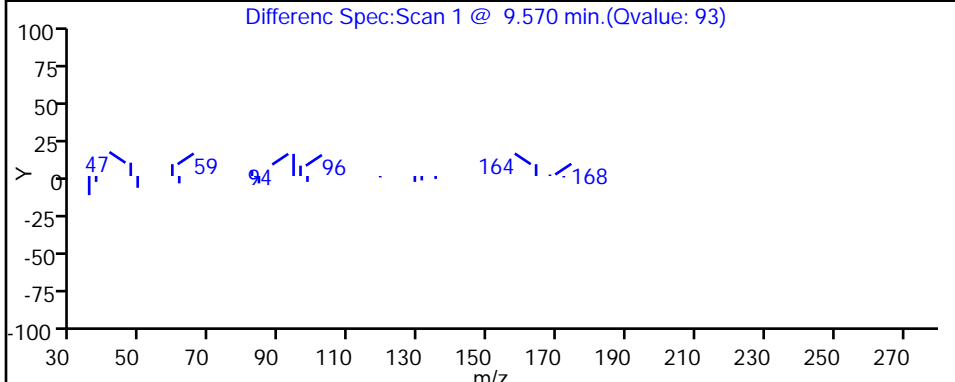
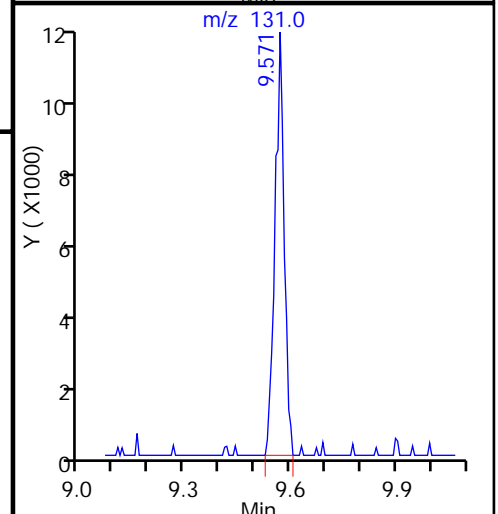
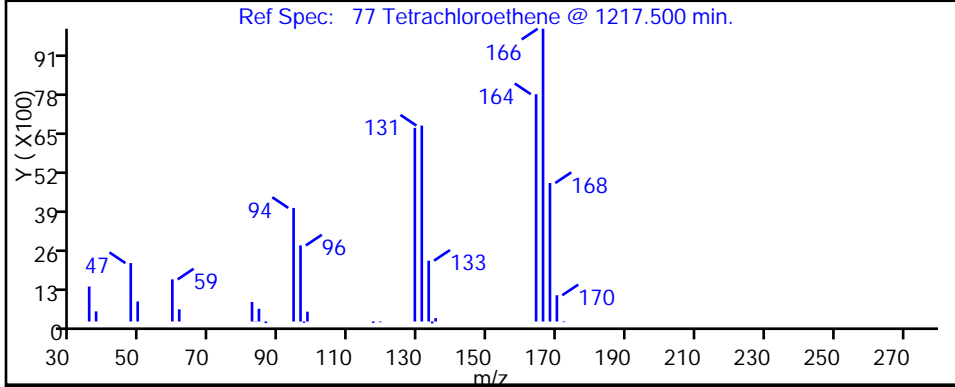
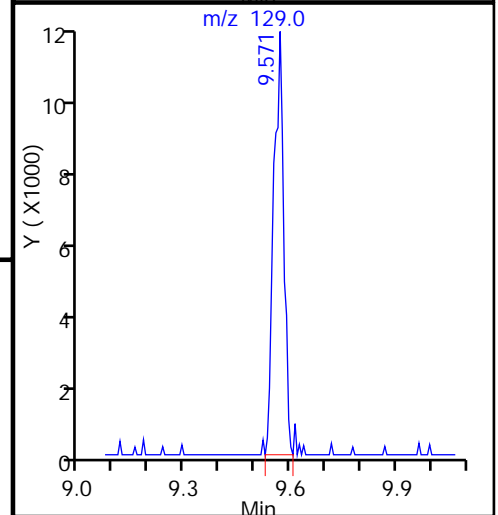
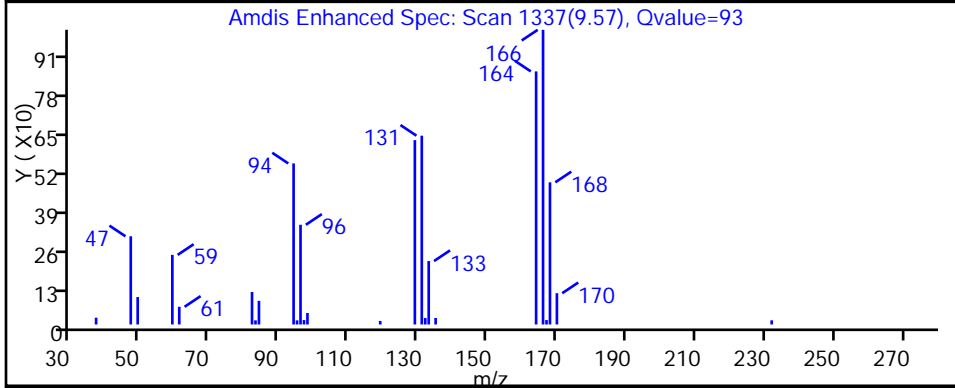
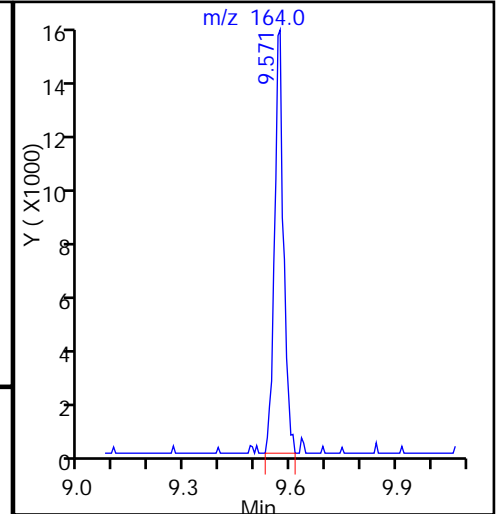
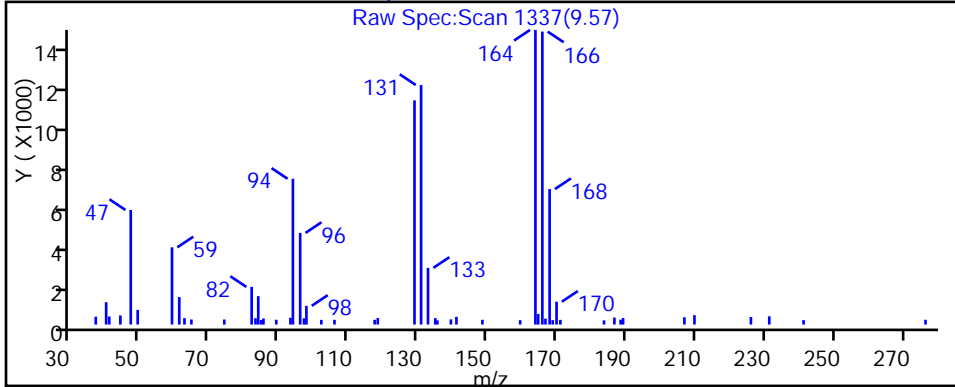
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

77 Tetrachloroethene, CAS: 127-18-4



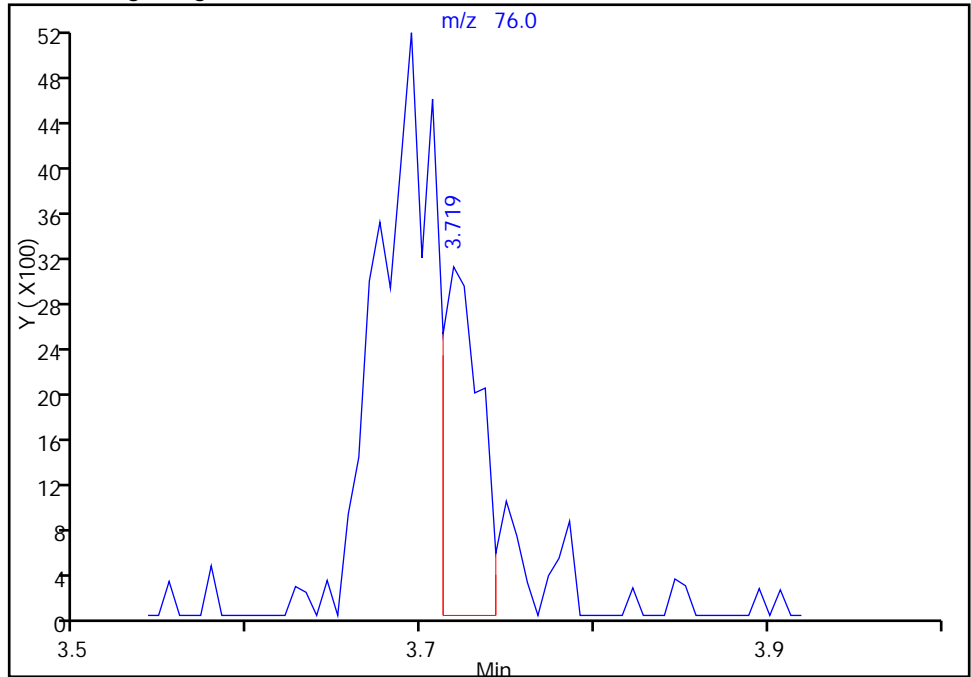
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330012.D
Injection Date: 30-Mar-2015 14:39:30 Instrument ID: CHHP6
Lims ID: 180-42389-C-4 Lab Sample ID: 180-42389-4
Client ID: HD-MW-171-0/1-0
Operator ID: 001562 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

26 Carbon disulfide, CAS: 75-15-0

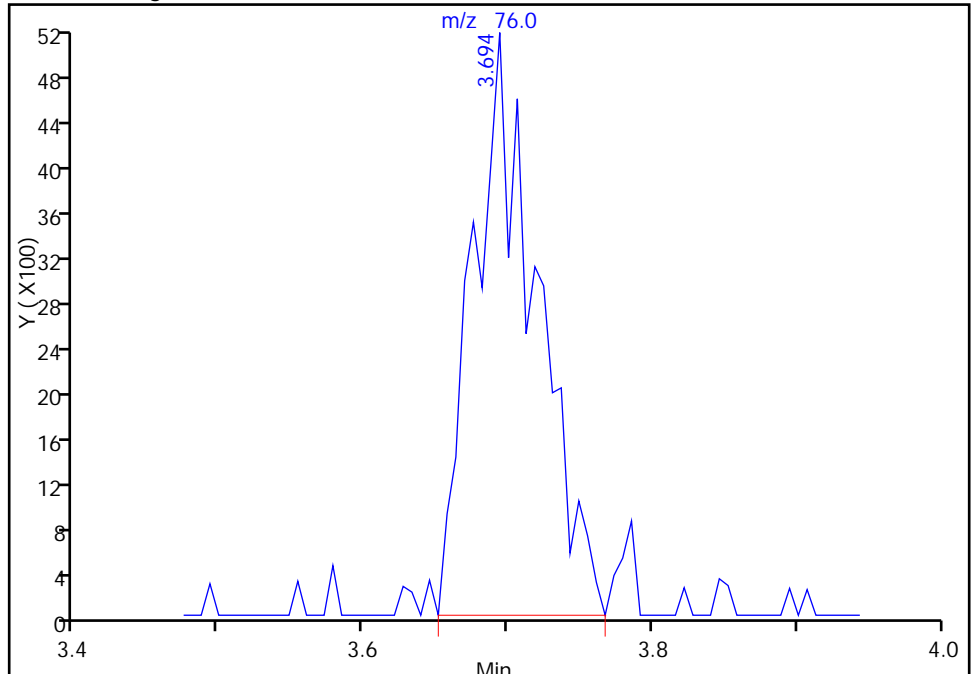
RT: 3.72
Area: 4743
Amount: 0.458585
Amount Units: ng

Processing Integration Results



RT: 3.69
Area: 15865
Amount: 1.533935
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 30-Mar-2015 15:42:30
Audit Action: Manually Integrated
Audit Reason: Split Peak

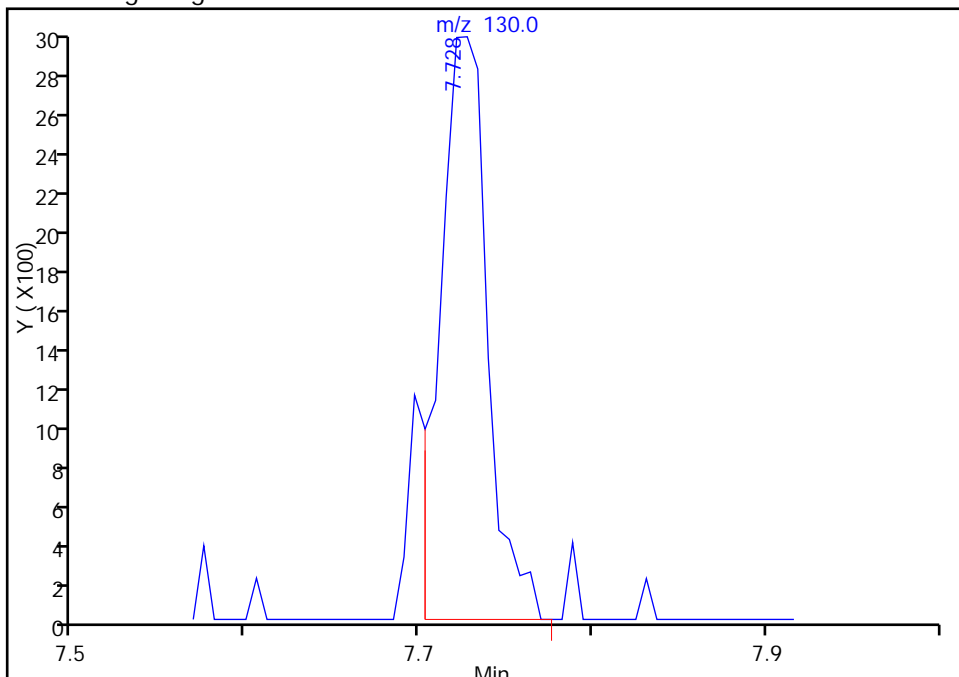
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330012.D
Injection Date: 30-Mar-2015 14:39:30 Instrument ID: CHHP6
Lims ID: 180-42389-C-4 Lab Sample ID: 180-42389-4
Client ID: HD-MW-171-0/1-0
Operator ID: 001562 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

61 Trichloroethene, CAS: 79-01-6

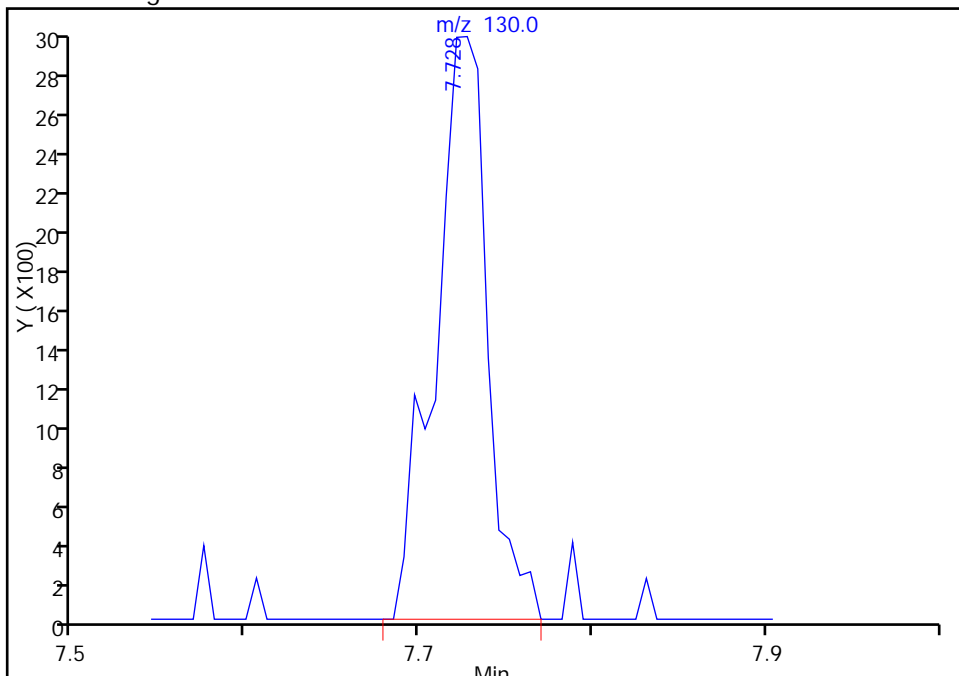
RT: 7.73
Area: 5756
Amount: 1.636455
Amount Units: ng

Processing Integration Results



RT: 7.73
Area: 6294
Amount: 1.789410
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 30-Mar-2015 15:42:30
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1
 SDG No.: _____
 Client Sample ID: HD-MW-168-0/1-0 Lab Sample ID: 180-42389-5
 Matrix: Water Lab File ID: 60330013.D
 Analysis Method: 8260C Date Collected: 03/25/2015 12:18
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 15:03
 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.: 136938 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.: 180-42389-1
 SDG No.: _____
 Client Sample ID: HD-MW-168-0/1-0 Lab Sample ID: 180-42389-5
 Matrix: Water Lab File ID: 60330013.D
 Analysis Method: 8260C Date Collected: 03/25/2015 12:18
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 15:03
 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.: 136938 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)	122		64-135
2037-26-5	Toluene-d8 (Surr)	110		71-118
460-00-4	4-Bromofluorobenzene (Surr)	98		70-118
1868-53-7	Dibromofluoromethane (Surr)	106		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330013.D
 Lims ID: 180-42389-C-5 Lab Sample ID: 180-42389-5
 Client ID: HD-MW-168-0/1-0
 Sample Type: Client
 Inject. Date: 30-Mar-2015 15:03:30 ALS Bottle#: 13 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-42389-C-5
 Misc. Info.: 180-0006236-013
 Operator ID: 001562 Instrument ID: CHHP6
 Method: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\MMSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 30-Mar-2015 15:43:45 Calib Date: 28-Jan-2015 16:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: fergusond

Date: 30-Mar-2015 15:43:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.267	4.284	-0.017	92	245466	1000.0	
* 2 Fluorobenzene (IS)	96	7.333	7.332	0.001	97	592210	50.0	
* 3 Chlorobenzene-d5	119	10.442	10.440	0.002	92	116969	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.790	12.795	-0.005	99	179834	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.603	6.596	0.007	93	141955	53.0	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.980	6.973	0.007	70	233931	61.0	
\$ 7 Toluene-d8 (Surr)	98	8.981	8.980	0.001	95	507070	55.0	
\$ 8 4-Bromofluorobenzene (Surr	95	11.628	11.627	0.001	80	192094	49.0	
12 Chloromethane	50		1.765				ND	
13 Vinyl chloride	62		1.899				ND	
15 Bromomethane	94		2.246				ND	
16 Chloroethane	64		2.392				ND	
22 1,1-Dichloroethene	96		3.371				ND	
24 Acetone	43		3.451				ND	
26 Carbon disulfide	76		3.682				ND	
31 Methylene Chloride	84		4.168				ND	
33 Acrylonitrile	53		4.539				ND	
34 trans-1,2-Dichloroethene	96		4.606				ND	
35 Methyl tert-butyl ether	73		4.606				ND	
37 1,1-Dichloroethane	63		5.239				ND	
43 cis-1,2-Dichloroethene	96		5.981				ND	
44 2-Butanone (MEK)	43		5.987				ND	
48 Chlorobromomethane	128		6.273				ND	
50 Chloroform	83		6.413				ND	
51 1,1,1-Trichloroethane	97		6.584				ND	
53 Carbon tetrachloride	117		6.760				ND	
56 Benzene	78		6.985				ND	
57 1,2-Dichloroethane	62		7.058				ND	
61 Trichloroethene	130		7.721				ND	
64 1,2-Dichloropropane	63		7.989				ND	
65 1,4-Dioxane	88		8.074				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83		8.275				ND	
71 cis-1,3-Dichloropropene	75		8.719				ND	
72 4-Methyl-2-pentanone (MIBK)	43		8.859				ND	
73 Toluene	91	9.048	9.047	0.001	56	4894	0.4093	
74 trans-1,3-Dichloropropene	75		9.297				ND	
76 1,1,2-Trichloroethane	97		9.485				ND	
77 Tetrachloroethene	164		9.571				ND	
79 2-Hexanone	43		9.692				ND	
81 Chlorodibromomethane	129		9.863				ND	
82 Ethylene Dibromide	107		9.984				ND	
84 Chlorobenzene	112		10.471				ND	
86 1,1,1,2-Tetrachloroethane	131		10.562				ND	
87 Ethylbenzene	106		10.568				ND	
88 m-Xylene & p-Xylene	106		10.696				ND	
89 o-Xylene	106		11.079				ND	
90 Styrene	104		11.104				ND	
91 Bromoform	173		11.292				ND	
96 1,1,2,2-Tetrachloroethane	83		11.754				ND	
S 131 Xylenes, Total	106		1.000				ND	

Reagents:

VOA8260INT_00030

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00032

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330013.D

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

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: 180-42389-C-5

Lab Sample ID: 180-42389-5

Worklist Smp#: 13

Client ID: HD-MW-168-0/1-0

Purge Vol: 5.000 mL

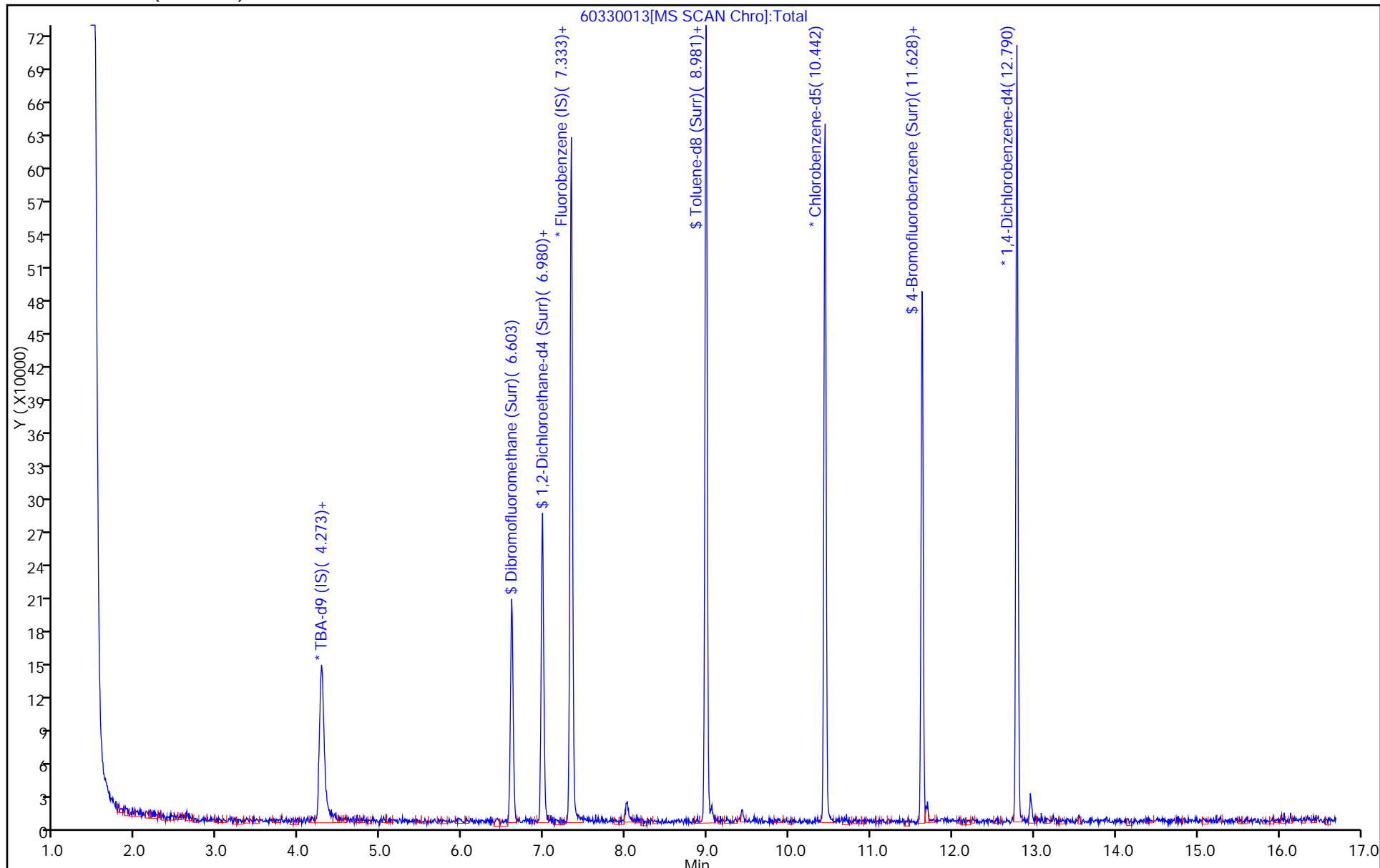
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: MSVOA_LL_CHHP6

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.: 180-42389-1
 SDG No.: _____
 Client Sample ID: HD-MW-173-0/1-0 Lab Sample ID: 180-42389-6
 Matrix: Water Lab File ID: 60330014.D
 Analysis Method: 8260C Date Collected: 03/25/2015 12:32
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 15:27
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 136938 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.: 180-42389-1
 SDG No.: _____
 Client Sample ID: HD-MW-173-0/1-0 Lab Sample ID: 180-42389-6
 Matrix: Water Lab File ID: 60330014.D
 Analysis Method: 8260C Date Collected: 03/25/2015 12:32
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 15:27
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 136938 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)	122		64-135
2037-26-5	Toluene-d8 (Surr)	107		71-118
460-00-4	4-Bromofluorobenzene (Surr)	100		70-118
1868-53-7	Dibromofluoromethane (Surr)	104		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330014.D
 Lims ID: 180-42389-B-6 Lab Sample ID: 180-42389-6
 Client ID: HD-MW-173-0/1-0
 Sample Type: Client
 Inject. Date: 30-Mar-2015 15:27:30 ALS Bottle#: 14 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-42389-B-6
 Misc. Info.: 180-0006236-014
 Operator ID: 001562 Instrument ID: CHHP6
 Method: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\MMSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 30-Mar-2015 16:00:25 Calib Date: 28-Jan-2015 16:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: fergusond

Date: 30-Mar-2015 16:00:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.280	4.284	-0.004	90	262442	1000.0	
* 2 Fluorobenzene (IS)	96	7.334	7.332	0.002	97	598117	50.0	
* 3 Chlorobenzene-d5	119	10.443	10.440	0.003	93	122616	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.791	12.795	-0.004	97	194987	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.604	6.596	0.008	92	141244	52.2	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.975	6.973	0.002	70	236077	61.0	
\$ 7 Toluene-d8 (Surr)	98	8.983	8.980	0.003	93	515158	53.3	
\$ 8 4-Bromofluorobenzene (Surr	95	11.629	11.627	0.002	81	206242	50.2	
12 Chloromethane	50		1.765				ND	
13 Vinyl chloride	62		1.899				ND	
15 Bromomethane	94		2.246				ND	
16 Chloroethane	64		2.392				ND	
22 1,1-Dichloroethene	96		3.371				ND	
24 Acetone	43	3.477	3.451	0.026	75	6462	6.11	M
26 Carbon disulfide	76		3.682				ND	
31 Methylene Chloride	84		4.168				ND	
33 Acrylonitrile	53		4.539				ND	
35 Methyl tert-butyl ether	73		4.606				ND	
34 trans-1,2-Dichloroethene	96		4.606				ND	
37 1,1-Dichloroethane	63		5.239				ND	
43 cis-1,2-Dichloroethene	96		5.981				ND	
44 2-Butanone (MEK)	43		5.987				ND	
48 Chlorobromomethane	128		6.273				ND	
50 Chloroform	83		6.413				ND	
51 1,1,1-Trichloroethane	97		6.584				ND	
53 Carbon tetrachloride	117		6.760				ND	
56 Benzene	78		6.985				ND	
57 1,2-Dichloroethane	62		7.058				ND	
61 Trichloroethene	130		7.721				ND	
64 1,2-Dichloropropane	63		7.989				ND	
65 1,4-Dioxane	88		8.074				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83		8.275				ND	
71 cis-1,3-Dichloropropene	75		8.719				ND	
72 4-Methyl-2-pentanone (MIBK)	43		8.859				ND	
73 Toluene	91	9.044	9.047	-0.003	47	4983	0.3975	
74 trans-1,3-Dichloropropene	75		9.297				ND	
76 1,1,2-Trichloroethane	97		9.485				ND	
77 Tetrachloroethene	164		9.571				ND	
79 2-Hexanone	43		9.692				ND	
81 Chlorodibromomethane	129		9.863				ND	
82 Ethylene Dibromide	107		9.984				ND	
84 Chlorobenzene	112		10.471				ND	
86 1,1,1,2-Tetrachloroethane	131		10.562				ND	
87 Ethylbenzene	106		10.568				ND	
88 m-Xylene & p-Xylene	106		10.696				ND	
89 o-Xylene	106		11.079				ND	
90 Styrene	104		11.104				ND	
91 Bromoform	173		11.292				ND	
96 1,1,2,2-Tetrachloroethane	83		11.754				ND	
S 131 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00030

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00032

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330014.D

Injection Date: 30-Mar-2015 15:27:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: 180-42389-B-6

Lab Sample ID: 180-42389-6

Worklist Smp#: 14

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

Purge Vol: 5.000 mL

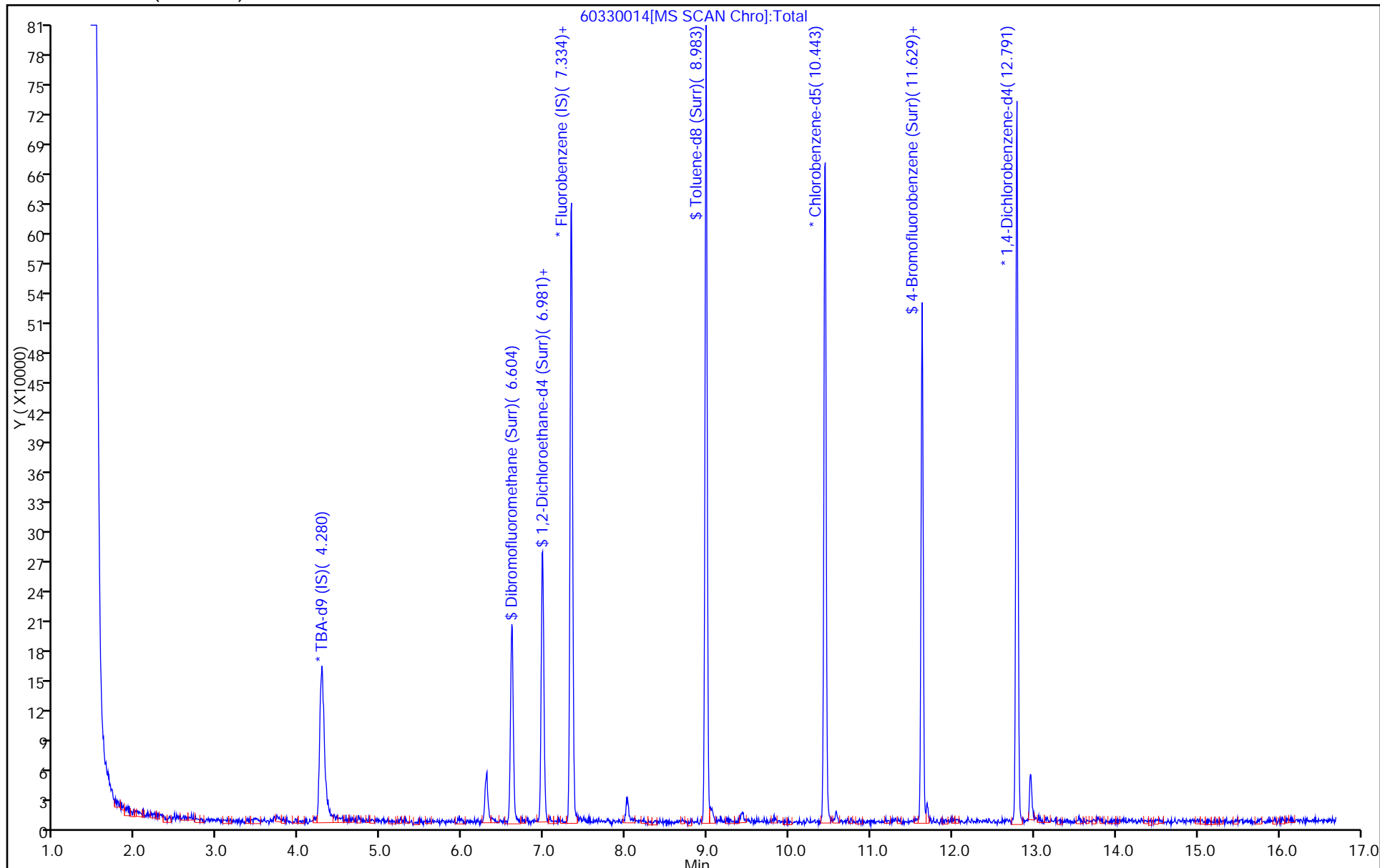
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



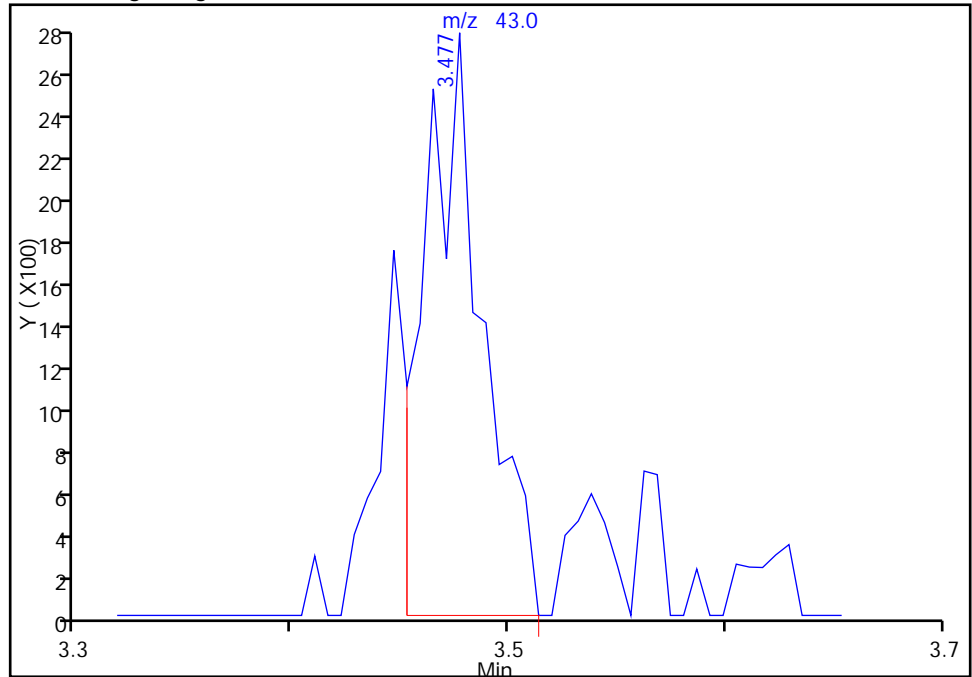
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330014.D
Injection Date: 30-Mar-2015 15:27:30 Instrument ID: CHHP6
Lims ID: 180-42389-B-6 Lab Sample ID: 180-42389-6
Client ID: HD-MW-173-0/1-0
Operator ID: 001562 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

24 Acetone, CAS: 67-64-1

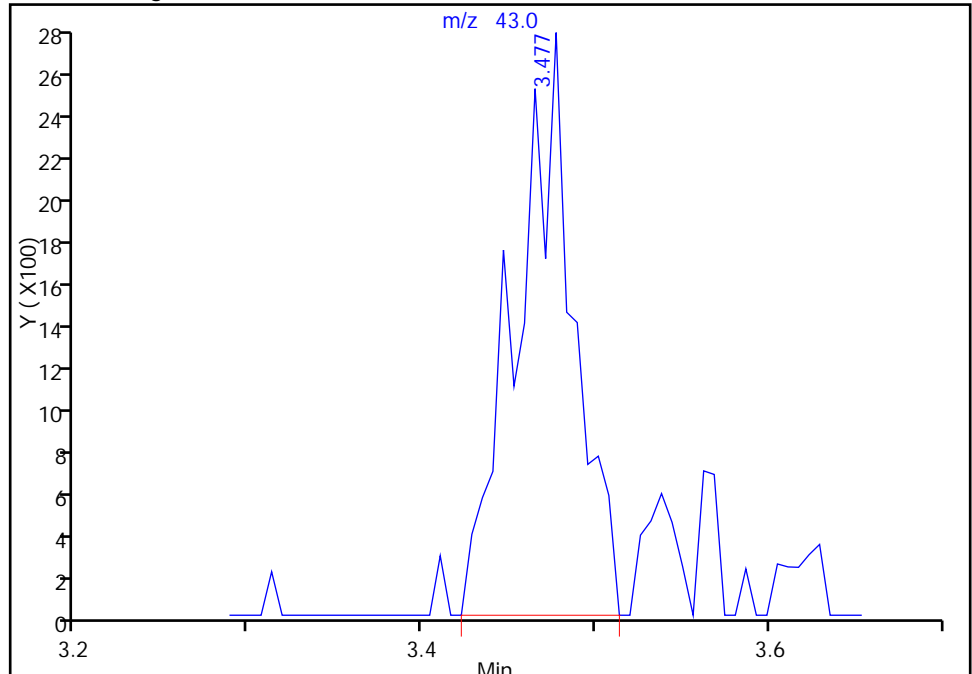
RT: 3.48
Area: 5233
Amount: 4.945876
Amount Units: ng

Processing Integration Results



RT: 3.48
Area: 6462
Amount: 6.107444
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 30-Mar-2015 16:00:25
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1
 SDG No.: _____
 Client Sample ID: HD-MW-166-0/1-0 Lab Sample ID: 180-42389-7
 Matrix: Water Lab File ID: 60330015.D
 Analysis Method: 8260C Date Collected: 03/25/2015 12:58
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 15:51
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 136938 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.28
75-01-4	Vinyl chloride	1.0	U	1.0	0.23
74-83-9	Bromomethane	1.0	U	1.0	0.31
75-00-3	Chloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.30
67-64-1	Acetone	5.0	U	5.0	2.5
75-15-0	Carbon disulfide	1.0	U	1.0	0.21
75-09-2	Methylene Chloride	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.17
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.18
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.12
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.24
74-97-5	Bromochloromethane	1.0	U	1.0	0.18
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.55
67-66-3	Chloroform	2.0		1.0	0.17
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.29
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.14
71-43-2	Benzene	1.0	U	1.0	0.11
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
79-01-6	Trichloroethene	0.96	J	1.0	0.14
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.095
75-27-4	Bromodichloromethane	0.38	J	1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53
108-88-3	Toluene	1.0	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.15
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.20
127-18-4	Tetrachloroethene	0.85	J	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.16
124-48-1	Dibromochloromethane	1.0	U	1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
100-41-4	Ethylbenzene	1.0	U	1.0	0.23
1330-20-7	Xylenes, Total	3.0	U	3.0	0.49
100-42-5	Styrene	1.0	U	1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1
 SDG No.: _____
 Client Sample ID: HD-MW-166-0/1-0 Lab Sample ID: 180-42389-7
 Matrix: Water Lab File ID: 60330015.D
 Analysis Method: 8260C Date Collected: 03/25/2015 12:58
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 15:51
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 136938 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)	125		64-135
2037-26-5	Toluene-d8 (Surr)	107		71-118
460-00-4	4-Bromofluorobenzene (Surr)	97		70-118
1868-53-7	Dibromofluoromethane (Surr)	107		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330015.D
 Lims ID: 180-42389-C-7 Lab Sample ID: 180-42389-7
 Client ID: HD-MW-166-0/1-0
 Sample Type: Client
 Inject. Date: 30-Mar-2015 15:51:30 ALS Bottle#: 15 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-42389-C-7
 Misc. Info.: 180-0006236-015
 Operator ID: 001562 Instrument ID: CHHP6
 Method: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\MMSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 30-Mar-2015 16:17:33 Calib Date: 28-Jan-2015 16:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: fergusond

Date: 30-Mar-2015 16:17:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.265	4.284	-0.019	91	260623	1000.0	
* 2 Fluorobenzene (IS)	96	7.331	7.332	-0.001	98	570389	50.0	
* 3 Chlorobenzene-d5	119	10.440	10.440	0.000	91	118146	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.794	12.795	-0.001	96	189646	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.601	6.596	0.005	92	137407	53.3	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.978	6.973	0.005	70	230376	62.4	
\$ 7 Toluene-d8 (Surr)	98	8.986	8.980	0.006	94	496012	53.3	
\$ 8 4-Bromofluorobenzene (Surr	95	11.632	11.627	0.005	83	192434	48.6	
12 Chloromethane	50		1.765				ND	
13 Vinyl chloride	62		1.899				ND	
15 Bromomethane	94		2.246				ND	
16 Chloroethane	64		2.392				ND	
22 1,1-Dichloroethene	96		3.371				ND	
24 Acetone	43	3.450	3.451	-0.001	70	2476	2.45	
26 Carbon disulfide	76		3.682				ND	
31 Methylene Chloride	84		4.168				ND	
33 Acrylonitrile	53		4.539				ND	
34 trans-1,2-Dichloroethene	96		4.606				ND	
35 Methyl tert-butyl ether	73		4.606				ND	
37 1,1-Dichloroethane	63		5.239				ND	
43 cis-1,2-Dichloroethene	96		5.981				ND	
44 2-Butanone (MEK)	43		5.987				ND	
48 Chlorobromomethane	128		6.273				ND	
50 Chloroform	83	6.413	6.413	0.000	93	63997	9.97	
51 1,1,1-Trichloroethane	97		6.584				ND	
53 Carbon tetrachloride	117		6.760				ND	
56 Benzene	78		6.985				ND	
57 1,2-Dichloroethane	62		7.058				ND	
61 Trichloroethene	130	7.715	7.721	-0.006	89	15561	4.82	
64 1,2-Dichloropropane	63		7.989				ND	
65 1,4-Dioxane	88		8.074				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83	8.286	8.275	0.011	42	7372	1.88	
71 cis-1,3-Dichloropropene	75		8.719				ND	
72 4-Methyl-2-pentanone (MIBK)	43		8.859				ND	
73 Toluene	91	9.053	9.047	0.006	91	5579	0.4619	
74 trans-1,3-Dichloropropene	75		9.297				ND	
76 1,1,2-Trichloroethane	97		9.485				ND	
77 Tetrachloroethene	164	9.576	9.571	0.005	93	9134	4.23	
79 2-Hexanone	43		9.692				ND	
81 Chlorodibromomethane	129		9.863				ND	
82 Ethylene Dibromide	107		9.984				ND	
84 Chlorobenzene	112		10.471				ND	
86 1,1,1,2-Tetrachloroethane	131		10.562				ND	
87 Ethylbenzene	106		10.568				ND	
88 m-Xylene & p-Xylene	106		10.696				ND	
89 o-Xylene	106		11.079				ND	
90 Styrene	104		11.104				ND	
91 Bromoform	173		11.292				ND	
96 1,1,2,2-Tetrachloroethane	83		11.754				ND	
S 131 Xylenes, Total	106		1.000				ND	

Reagents:

VOA8260INT_00030

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00032

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330015.D

Injection Date: 30-Mar-2015 15:51:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: 180-42389-C-7

Lab Sample ID: 180-42389-7

Worklist Smp#: 15

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

Purge Vol: 5.000 mL

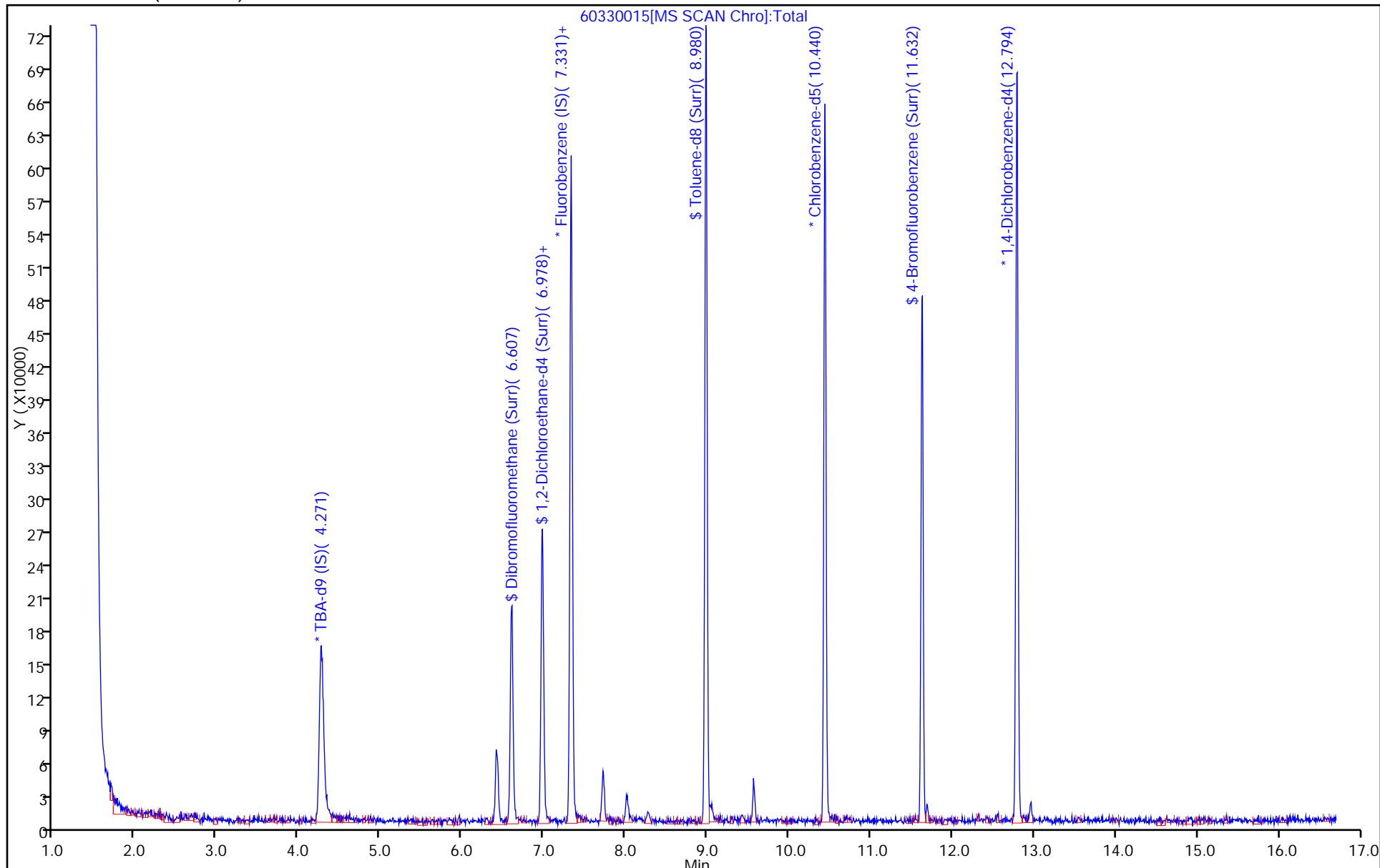
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330015.D

Injection Date: 30-Mar-2015 15:51:30

Instrument ID: CHHP6

Lims ID: 180-42389-C-7

Lab Sample ID: 180-42389-7

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

Operator ID: 001562

ALS Bottle#: 15

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

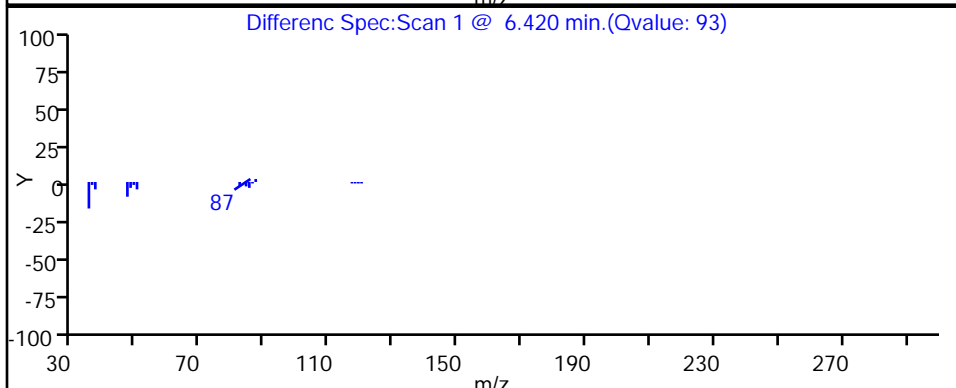
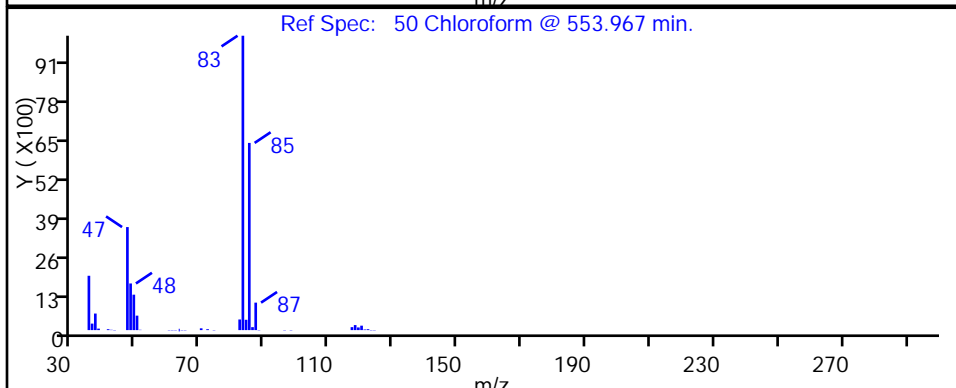
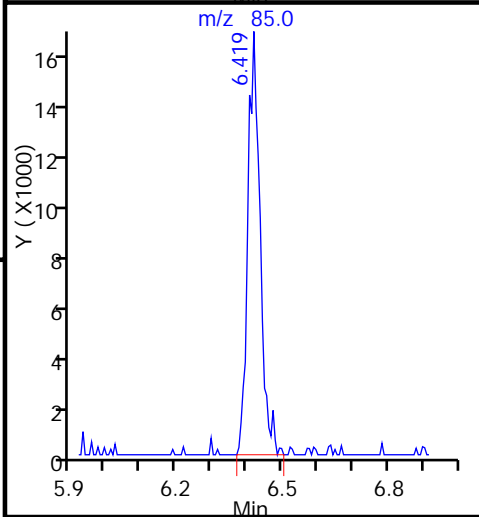
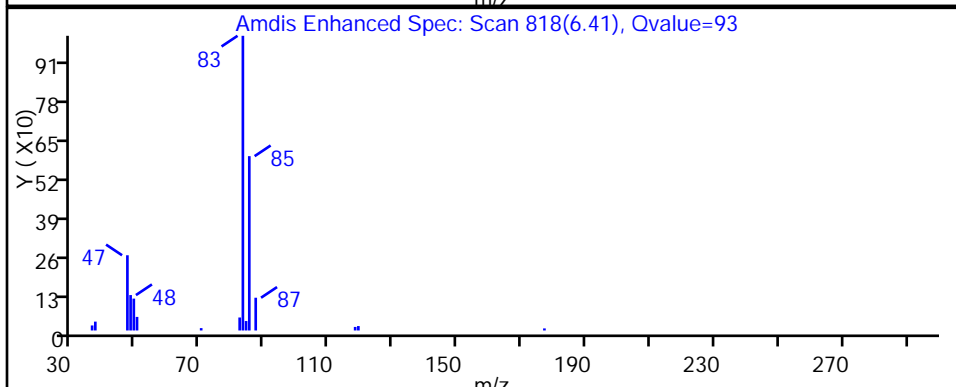
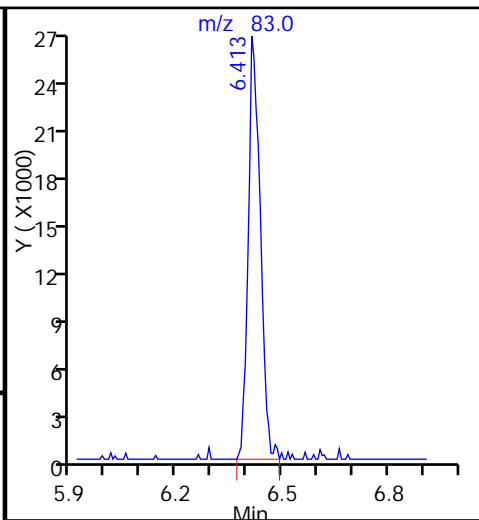
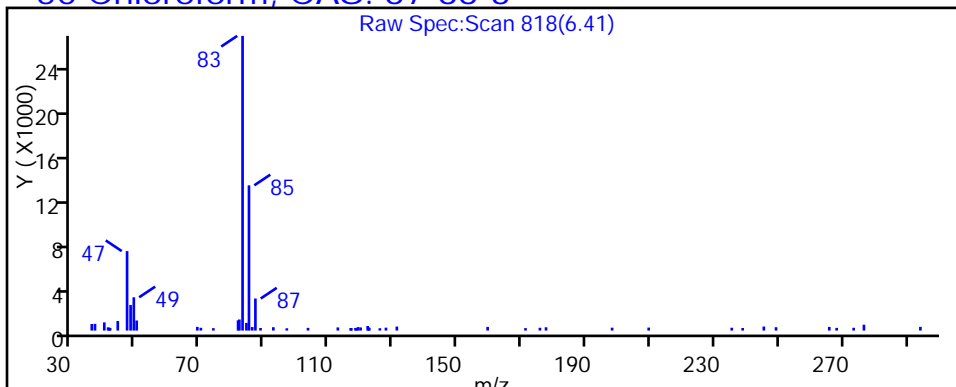
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

50 Chloroform, CAS: 67-66-3



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330015.D

Injection Date: 30-Mar-2015 15:51:30

Instrument ID: CHHP6

Lims ID: 180-42389-C-7

Lab Sample ID: 180-42389-7

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

Operator ID: 001562

ALS Bottle#: 15

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

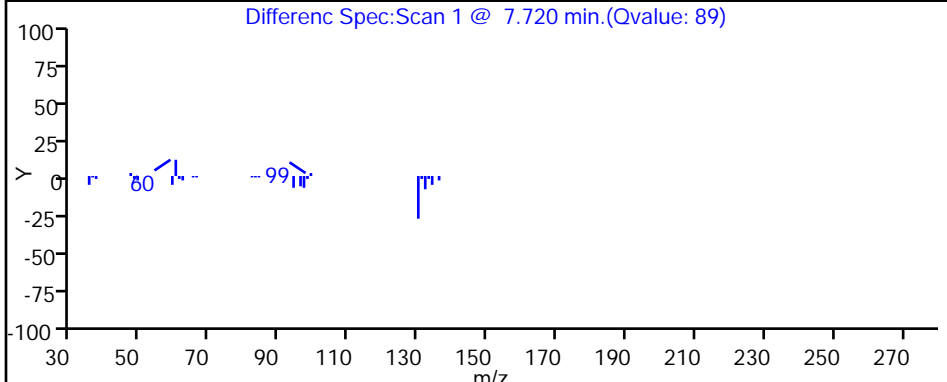
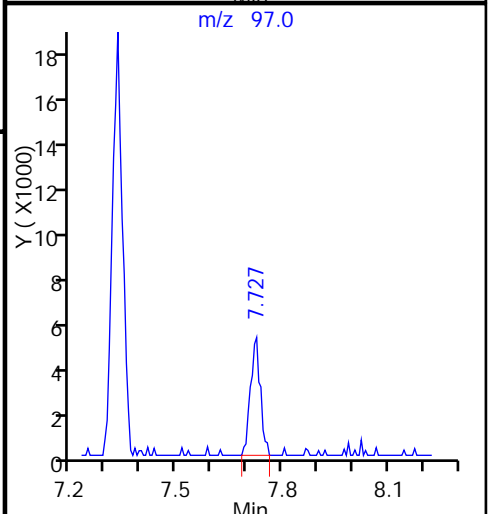
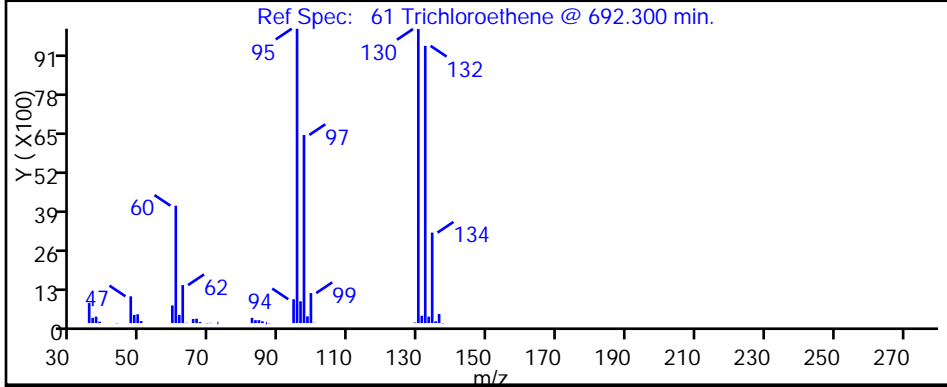
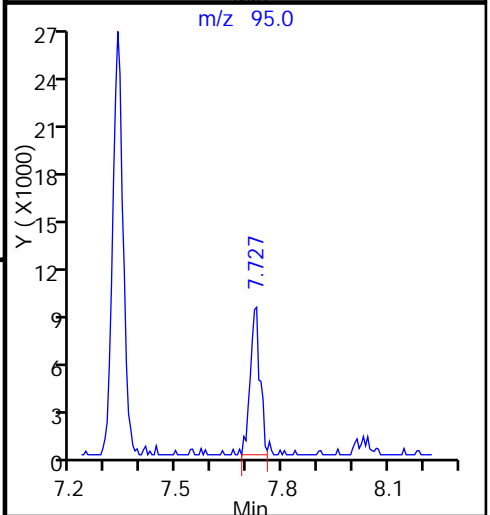
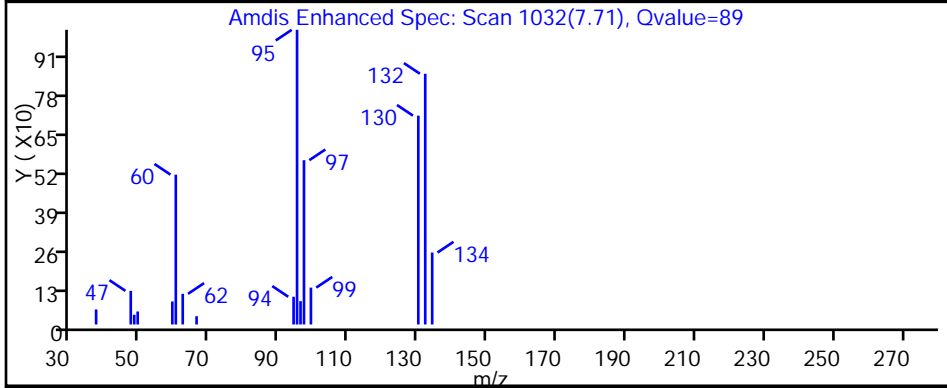
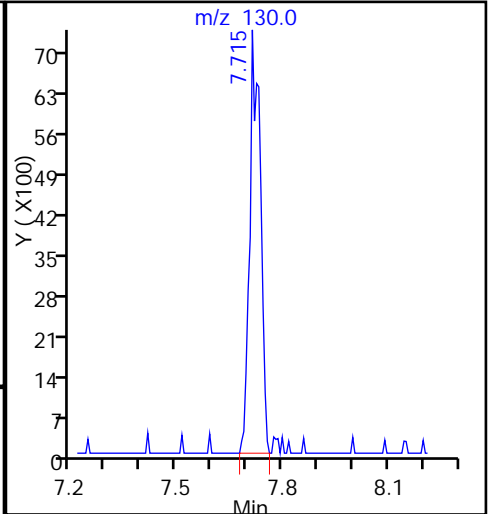
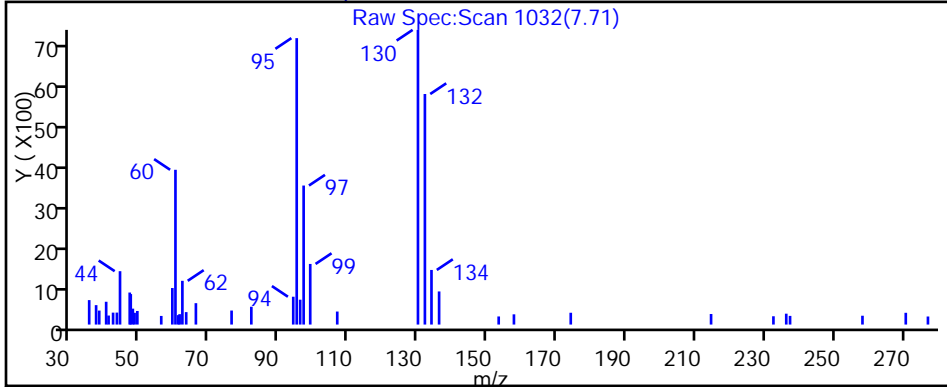
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

61 Trichloroethene, CAS: 79-01-6



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330015.D

Injection Date: 30-Mar-2015 15:51:30

Instrument ID: CHHP6

Lims ID: 180-42389-C-7

Lab Sample ID: 180-42389-7

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

Operator ID: 001562

ALS Bottle#: 15

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

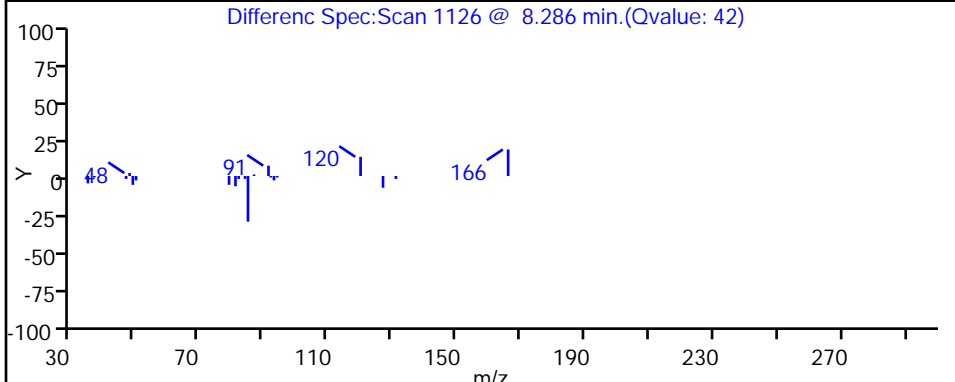
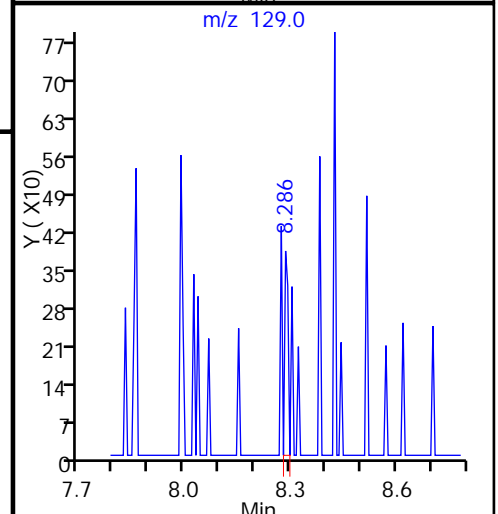
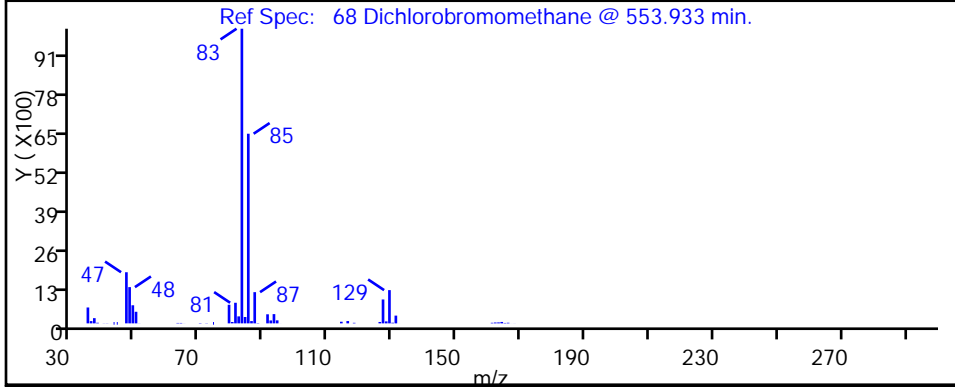
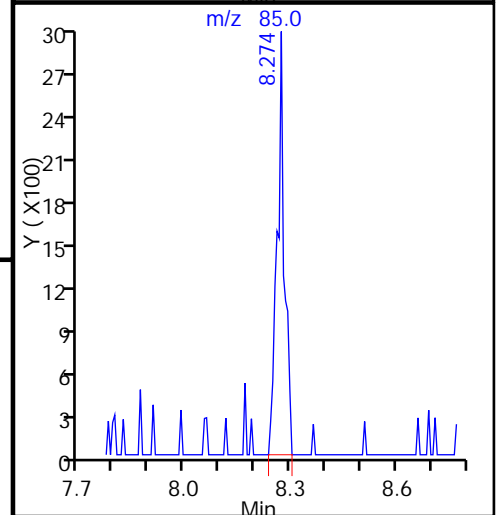
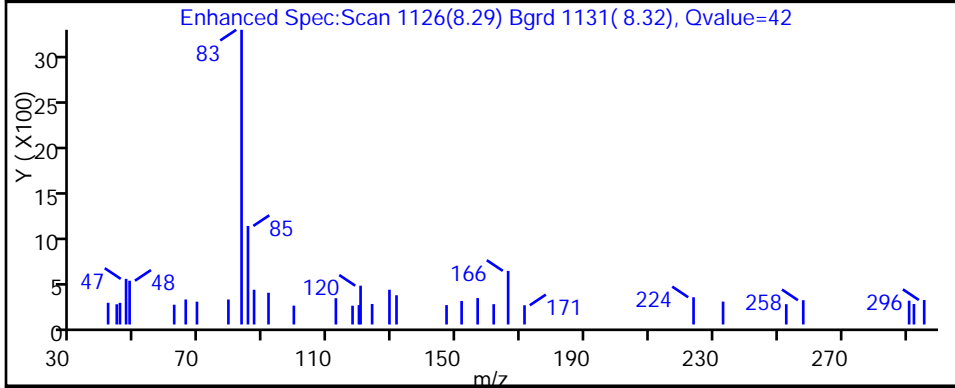
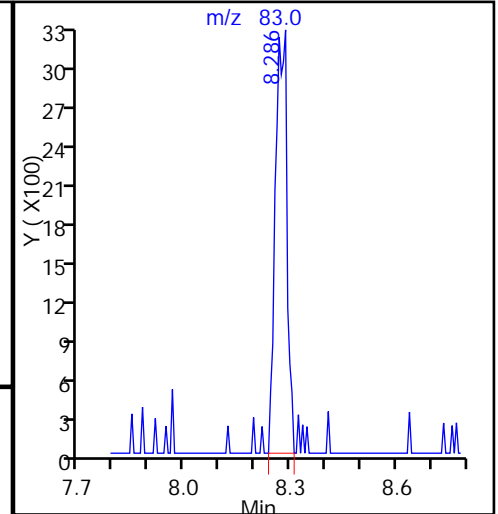
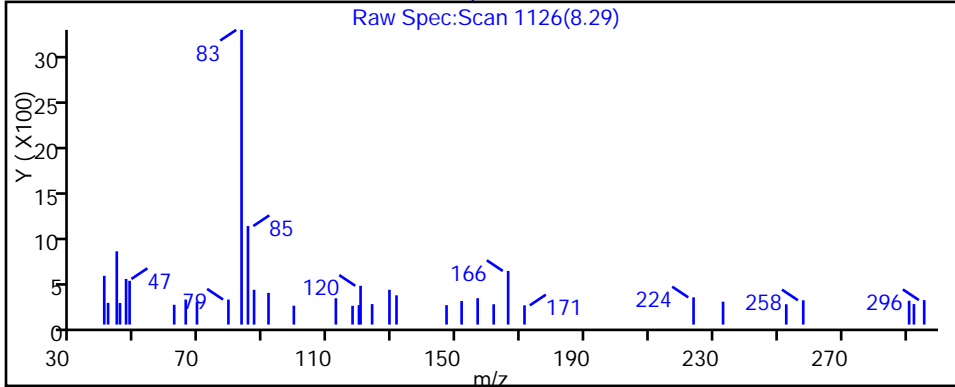
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

68 Dichlorobromomethane, CAS: 75-27-4



TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330015.D

Injection Date: 30-Mar-2015 15:51:30

Instrument ID: CHHP6

Lims ID: 180-42389-C-7

Lab Sample ID: 180-42389-7

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

Operator ID: 001562

ALS Bottle#: 15

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

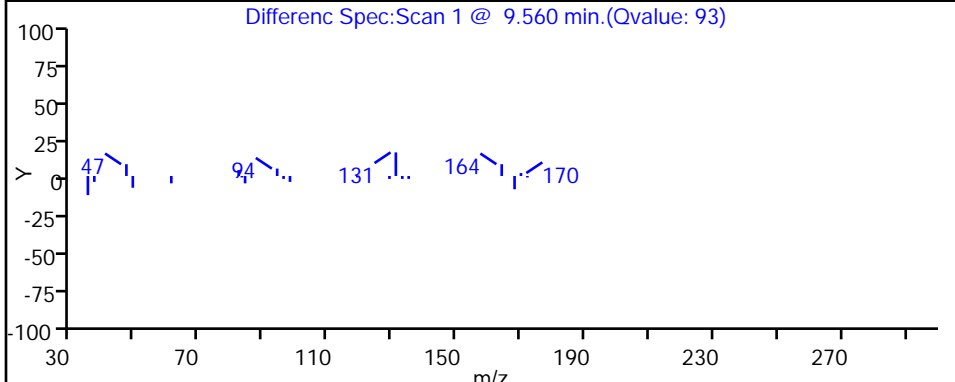
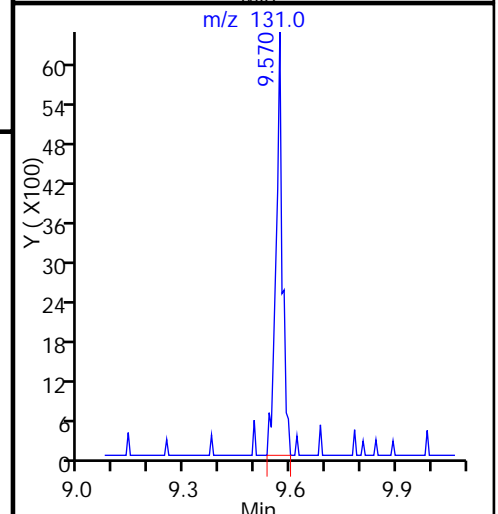
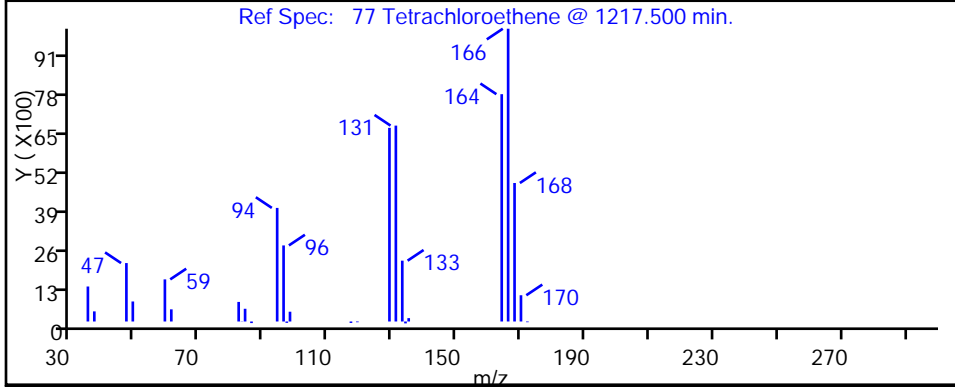
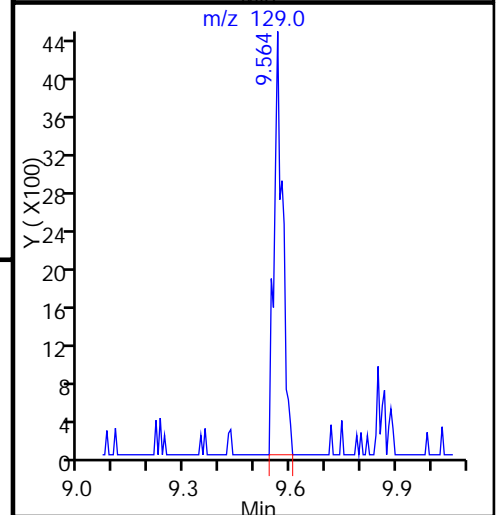
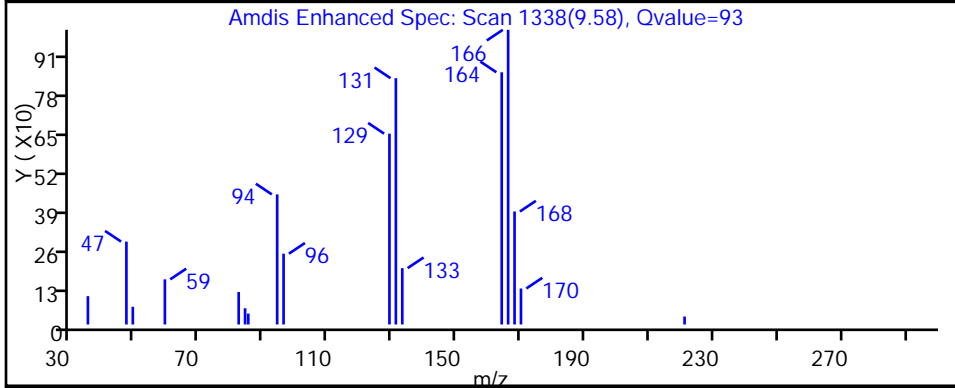
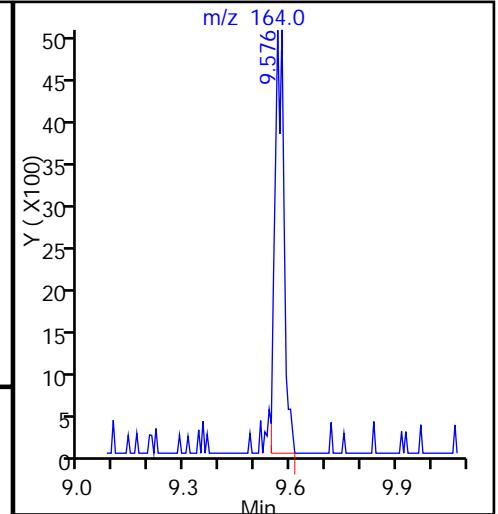
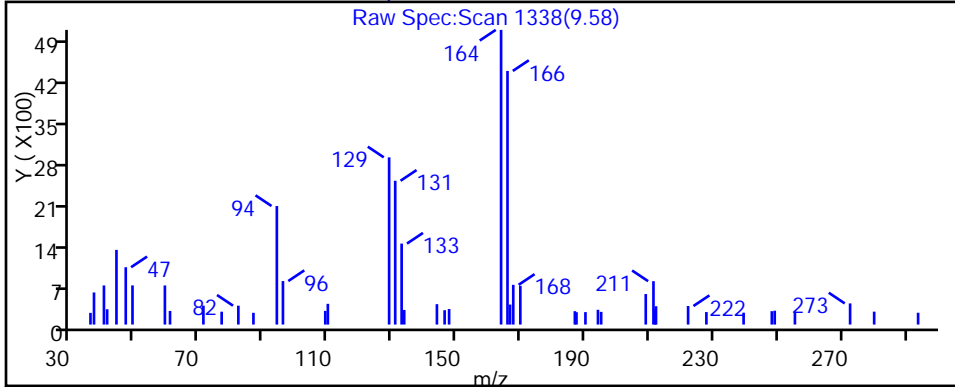
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

77 Tetrachloroethene, CAS: 127-18-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1
 SDG No.: _____
 Client Sample ID: HD-MW-172-0/1-0 Lab Sample ID: 180-42389-8
 Matrix: Water Lab File ID: 60330016.D
 Analysis Method: 8260C Date Collected: 03/25/2015 13:28
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 16:15
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 136938 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.: 180-42389-1
 SDG No.: _____
 Client Sample ID: HD-MW-172-0/1-0 Lab Sample ID: 180-42389-8
 Matrix: Water Lab File ID: 60330016.D
 Analysis Method: 8260C Date Collected: 03/25/2015 13:28
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 16:15
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 136938 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)	121		64-135
2037-26-5	Toluene-d8 (Surr)	102		71-118
460-00-4	4-Bromofluorobenzene (Surr)	96		70-118
1868-53-7	Dibromofluoromethane (Surr)	107		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330016.D
 Lims ID: 180-42389-C-8 Lab Sample ID: 180-42389-8
 Client ID: HD-MW-172-0/1-0
 Sample Type: Client
 Inject. Date: 30-Mar-2015 16:15:30 ALS Bottle#: 16 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-42389-C-8
 Misc. Info.: 180-0006236-016
 Operator ID: 001562 Instrument ID: CHHP6
 Method: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\MMSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 31-Mar-2015 10:15:02 Calib Date: 28-Jan-2015 16:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: fergusond

Date: 31-Mar-2015 10:15:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.275	4.284	-0.009	92	253516	1000.0	
* 2 Fluorobenzene (IS)	96	7.335	7.332	0.003	98	583049	50.0	
* 3 Chlorobenzene-d5	119	10.437	10.440	-0.003	91	116348	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.786	12.795	-0.009	97	173450	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.605	6.596	0.009	93	141365	53.6	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.982	6.973	0.009	71	227432	60.3	
\$ 7 Toluene-d8 (Surr)	98	8.983	8.980	0.003	95	468568	51.1	
\$ 8 4-Bromofluorobenzene (Surr	95	11.630	11.627	0.003	80	188088	48.2	
12 Chloromethane	50		1.765				ND	
13 Vinyl chloride	62		1.899				ND	
15 Bromomethane	94		2.246				ND	
16 Chloroethane	64		2.392				ND	
22 1,1-Dichloroethene	96		3.371				ND	
24 Acetone	43	3.466	3.451	0.015	69	1472	1.43	
26 Carbon disulfide	76		3.682				ND	
31 Methylene Chloride	84		4.168				ND	
33 Acrylonitrile	53		4.539				ND	
34 trans-1,2-Dichloroethene	96		4.606				ND	
35 Methyl tert-butyl ether	73		4.606				ND	
37 1,1-Dichloroethane	63		5.239				ND	
43 cis-1,2-Dichloroethene	96		5.981				ND	
44 2-Butanone (MEK)	43		5.987				ND	
48 Chlorobromomethane	128		6.273				ND	
50 Chloroform	83	6.416	6.413	0.003	41	4932	0.7514	
51 1,1,1-Trichloroethane	97		6.584				ND	
53 Carbon tetrachloride	117		6.760				ND	
56 Benzene	78		6.985				ND	
57 1,2-Dichloroethane	62		7.058				ND	
61 Trichloroethene	130		7.721				ND	
64 1,2-Dichloropropane	63		7.989				ND	
65 1,4-Dioxane	88		8.074				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83		8.275				ND	
71 cis-1,3-Dichloropropene	75		8.719				ND	
72 4-Methyl-2-pentanone (MIBK)	43		8.859				ND	
73 Toluene	91	9.050	9.047	0.003	41	4918	0.4135	
74 trans-1,3-Dichloropropene	75		9.297				ND	
76 1,1,2-Trichloroethane	97		9.485				ND	
77 Tetrachloroethene	164		9.571				ND	
79 2-Hexanone	43		9.692				ND	
81 Chlorodibromomethane	129		9.863				ND	
82 Ethylene Dibromide	107		9.984				ND	
84 Chlorobenzene	112		10.471				ND	
86 1,1,1,2-Tetrachloroethane	131		10.562				ND	
87 Ethylbenzene	106		10.568				ND	
88 m-Xylene & p-Xylene	106		10.696				ND	
89 o-Xylene	106		11.079				ND	
90 Styrene	104		11.104				ND	
91 Bromoform	173		11.292				ND	
96 1,1,2,2-Tetrachloroethane	83		11.754				ND	
S 131 Xylenes, Total	106		1.000				ND	

Reagents:

VOA8260INT_00030

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00032

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330016.D

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

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: 180-42389-C-8

Lab Sample ID: 180-42389-8

Worklist Smp#: 16

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

Purge Vol: 5.000 mL

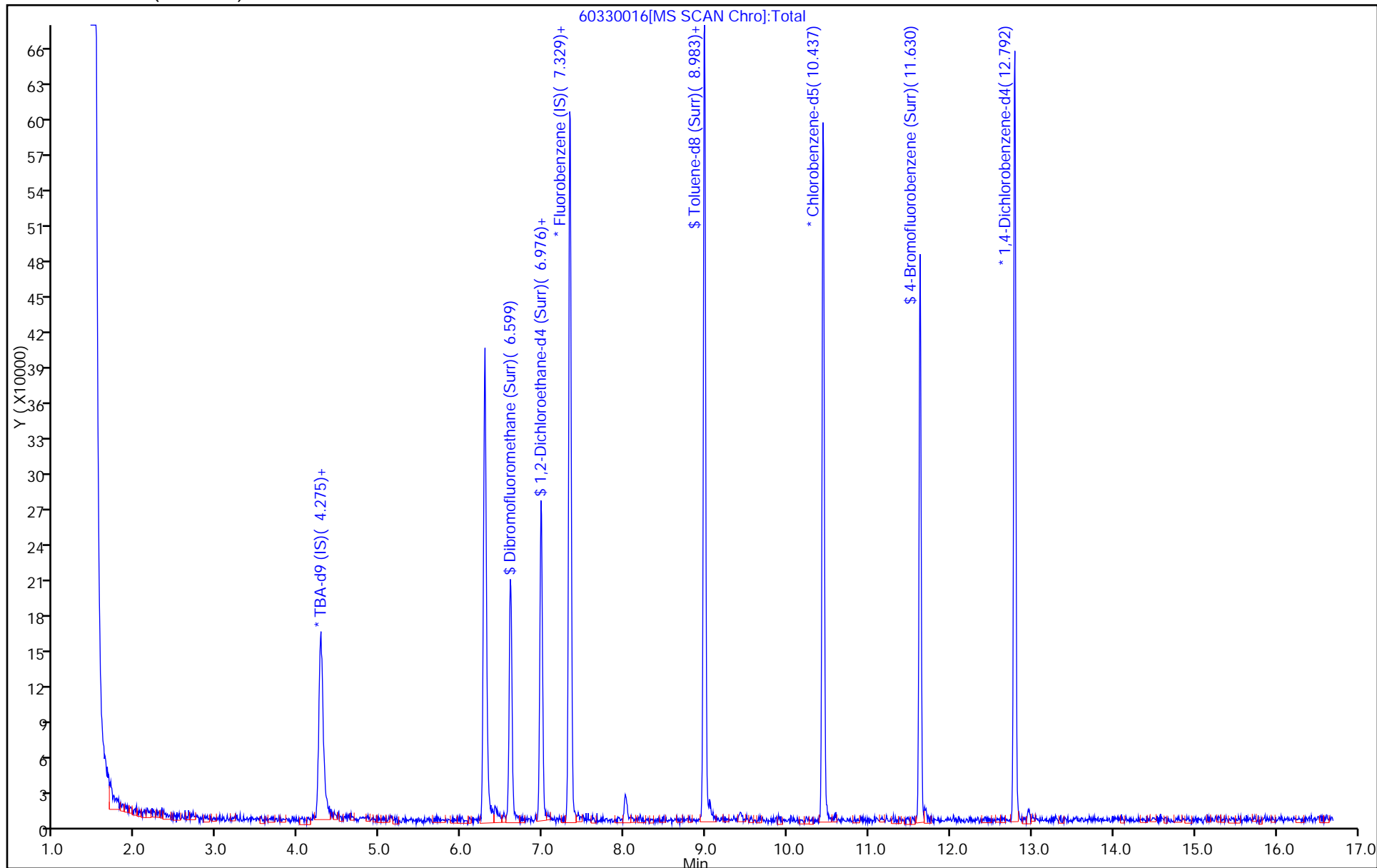
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: MSVOA_LL_CHHP6

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.: 180-42389-1
 SDG No.: _____
 Client Sample ID: HD-QC4-0/1-2 Lab Sample ID: 180-42389-9
 Matrix: Water Lab File ID: 60330007.D
 Analysis Method: 8260C Date Collected: 03/25/2015 12:00
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 12:38
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 136938 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.: 180-42389-1
 SDG No.: _____
 Client Sample ID: HD-QC4-0/1-2 Lab Sample ID: 180-42389-9
 Matrix: Water Lab File ID: 60330007.D
 Analysis Method: 8260C Date Collected: 03/25/2015 12:00
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 12:38
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 136938 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)	121		64-135
2037-26-5	Toluene-d8 (Surr)	111		71-118
460-00-4	4-Bromofluorobenzene (Surr)	101		70-118
1868-53-7	Dibromofluoromethane (Surr)	107		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330007.D
 Lims ID: 180-42389-B-9 Lab Sample ID: 180-42389-9
 Client ID: HD-QC4-0/1-2
 Sample Type: Client
 Inject. Date: 30-Mar-2015 12:38:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-42389-B-9
 Misc. Info.: 180-0006236-007
 Operator ID: 001562 Instrument ID: CHHP6
 Method: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\MMSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 30-Mar-2015 13:59:34 Calib Date: 28-Jan-2015 16:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: fergusond

Date: 30-Mar-2015 13:59:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.268	4.284	-0.016	93	274770	1000.0	
* 2 Fluorobenzene (IS)	96	7.334	7.332	0.002	97	568006	50.0	
* 3 Chlorobenzene-d5	119	10.437	10.440	-0.003	92	105061	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.791	12.795	-0.004	98	170367	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.604	6.596	0.008	93	138082	53.7	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.975	6.973	0.002	71	223265	60.7	
\$ 7 Toluene-d8 (Surr)	98	8.983	8.980	0.003	94	460911	55.7	
\$ 8 4-Bromofluorobenzene (Surr	95	11.629	11.627	0.002	81	177262	50.3	
12 Chloromethane	50		1.765				ND	
13 Vinyl chloride	62		1.899				ND	
15 Bromomethane	94		2.246				ND	
16 Chloroethane	64		2.392				ND	
22 1,1-Dichloroethene	96		3.371				ND	
24 Acetone	43		3.451				ND	
26 Carbon disulfide	76		3.682				ND	
31 Methylene Chloride	84		4.168				ND	
33 Acrylonitrile	53		4.539				ND	
35 Methyl tert-butyl ether	73		4.606				ND	
34 trans-1,2-Dichloroethene	96		4.606				ND	
37 1,1-Dichloroethane	63		5.239				ND	
43 cis-1,2-Dichloroethene	96		5.981				ND	
44 2-Butanone (MEK)	43		5.987				ND	
48 Chlorobromomethane	128		6.273				ND	
50 Chloroform	83	6.410	6.413	-0.003	1	2003	0.3132	M
51 1,1,1-Trichloroethane	97		6.584				ND	
53 Carbon tetrachloride	117		6.760				ND	
56 Benzene	78		6.985				ND	
57 1,2-Dichloroethane	62		7.058				ND	
61 Trichloroethene	130		7.721				ND	
64 1,2-Dichloropropane	63		7.989				ND	
65 1,4-Dioxane	88		8.074				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83		8.275				ND	
71 cis-1,3-Dichloropropene	75		8.719				ND	
72 4-Methyl-2-pentanone (MIBK)	43		8.859				ND	
73 Toluene	91	9.050	9.047	0.003	59	4027	0.3749	
74 trans-1,3-Dichloropropene	75		9.297				ND	
76 1,1,2-Trichloroethane	97		9.485				ND	
77 Tetrachloroethene	164		9.571				ND	
79 2-Hexanone	43		9.692				ND	
81 Chlorodibromomethane	129		9.863				ND	
82 Ethylene Dibromide	107		9.984				ND	
84 Chlorobenzene	112		10.471				ND	
86 1,1,1,2-Tetrachloroethane	131		10.562				ND	
87 Ethylbenzene	106		10.568				ND	
88 m-Xylene & p-Xylene	106		10.696				ND	
89 o-Xylene	106		11.079				ND	
90 Styrene	104		11.104				ND	
91 Bromoform	173		11.292				ND	
96 1,1,2,2-Tetrachloroethane	83		11.754				ND	
S 131 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00030

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00032

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330007.D

Injection Date: 30-Mar-2015 12:38:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: 180-42389-B-9

Lab Sample ID: 180-42389-9

Worklist Smp#: 7

Client ID: HD-QC4-0/1-2

Purge Vol: 5.000 mL

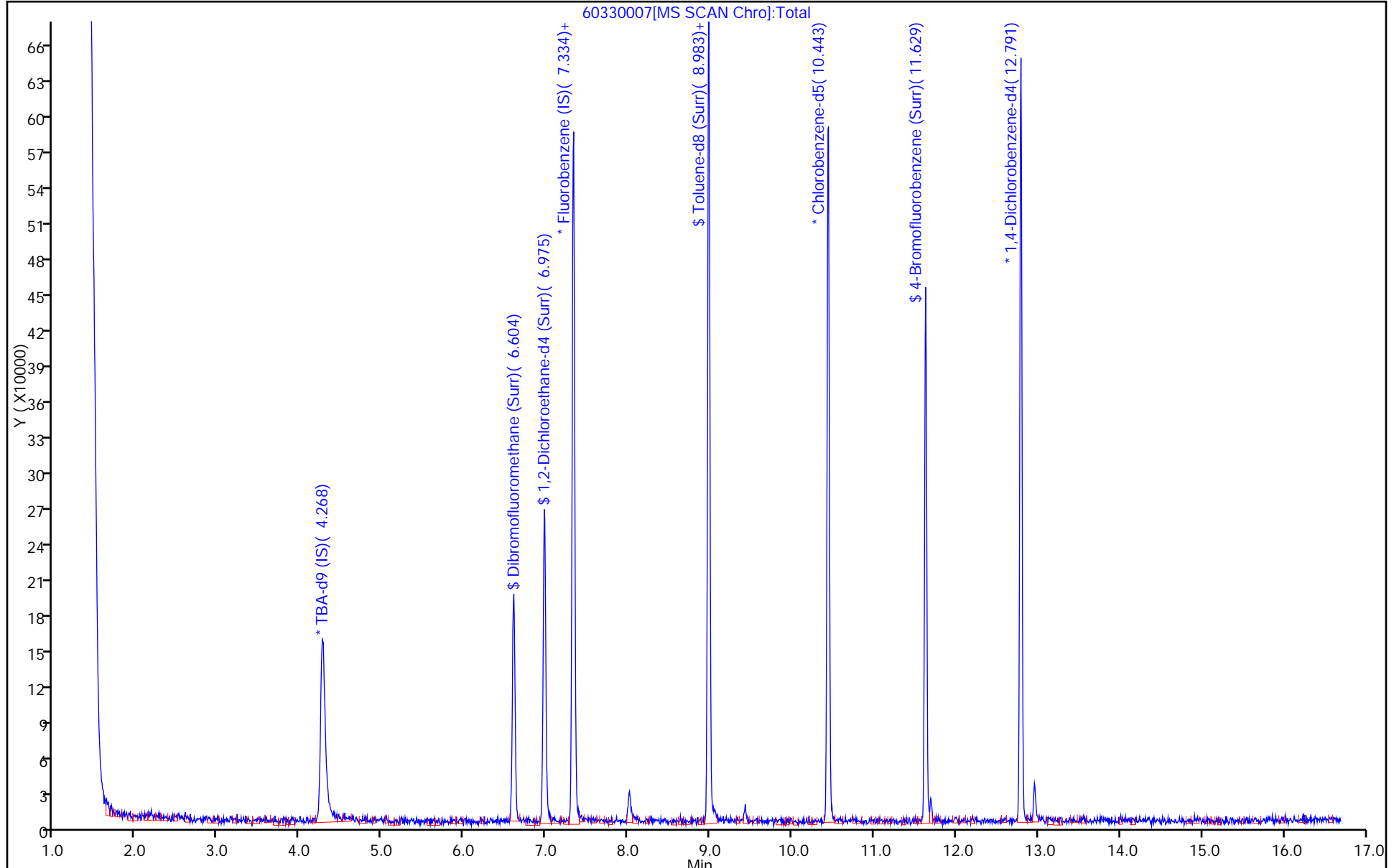
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



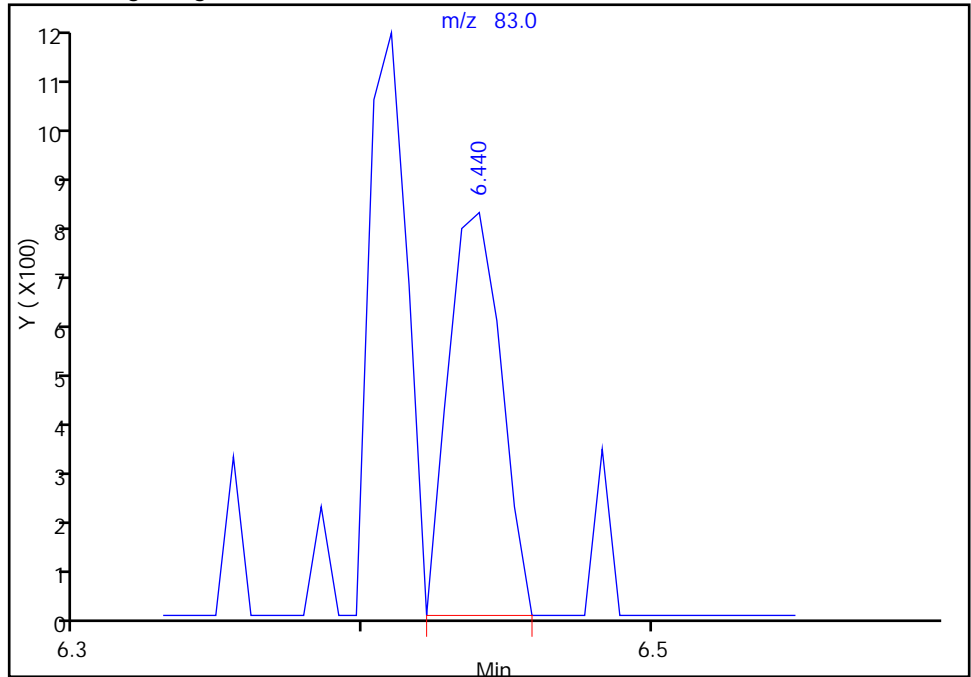
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330007.D
Injection Date: 30-Mar-2015 12:38:30 Instrument ID: CHHP6
Lims ID: 180-42389-B-9 Lab Sample ID: 180-42389-9
Client ID: HD-QC4-0/1-2
Operator ID: 001562 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

50 Chloroform, CAS: 67-66-3

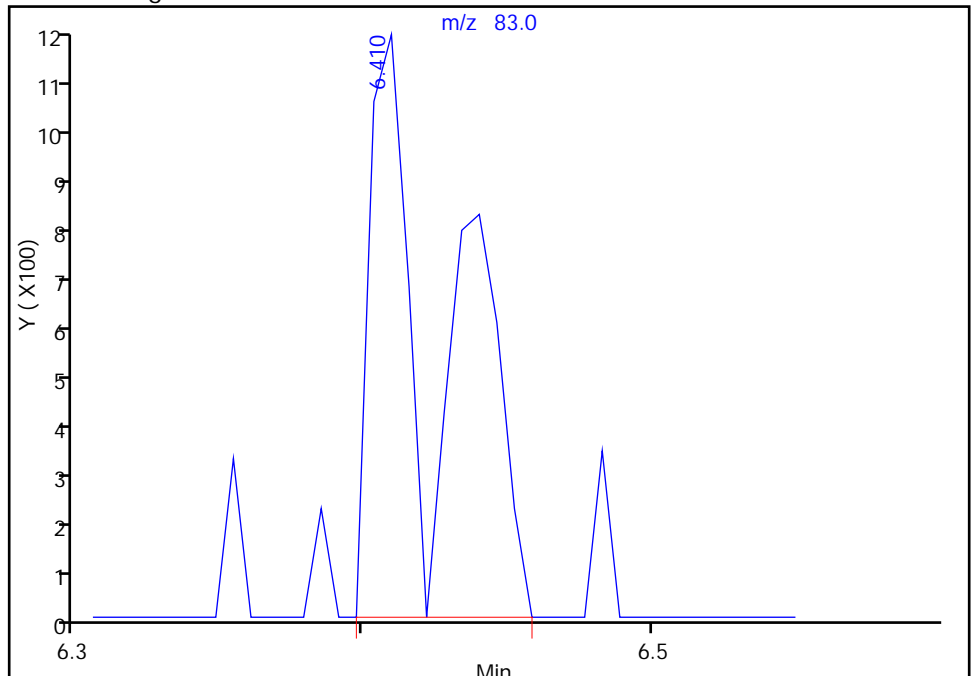
RT: 6.44
Area: 990
Amount: 0.154814
Amount Units: ng

Processing Integration Results



RT: 6.41
Area: 2003
Amount: 0.313224
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 30-Mar-2015 13:59:34
Audit Action: Manually Integrated
Audit Reason: Split Peak

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1 Analy Batch No.: 131929

SDG No.: _____

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2015 13:58 Calibration End Date: 01/28/2015 16:44 Calibration ID: 21588

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-131929/6	60128006.D
Level 2	IC 180-131929/7	60128007.D
Level 3	ICIS 180-131929/8	60128008.D
Level 4	IC 180-131929/9	60128009.D
Level 5	IC 180-131929/10	60128010.D
Level 6	IC 180-131929/11	60128011.D
Level 7	IC 180-131929/12	60128012.D
Level 8	IC 180-131929/13	60128013.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	0.2515 0.2570	0.3026 0.2707	0.2756 0.2444	0.2408	0.2772	Ave		0.2650			0.1000	7.8	20.0				
Chloromethane	0.3999 0.4010	0.4495 0.4049	0.4034 0.3807	0.3828	0.4377	Ave		0.4075			0.1000	6.0	20.0				
Vinyl chloride	0.3422 0.3550	0.3985 0.3659	0.3669 0.3370	0.3364	0.3870	Ave		0.3611			0.1000	6.4	20.0				
1,3-Butadiene	0.3856 0.3575	0.4506 0.3848	0.3871 0.3581	0.3471	0.4135	Ave		0.3855			0.0100	8.8	20.0				
Bromomethane	0.1467 0.1381	0.1750 0.1385	0.1535 0.1204	0.1356	0.1518	Ave		0.1449			0.0500	11.0	20.0				
Chloroethane	0.2246 0.2156	0.2378 0.2212	0.2308 0.2039	0.2024	0.2350	Ave		0.2214			0.0500	6.0	20.0				
Dichlorofluoromethane	0.5042 0.5028	0.6157 0.5326	0.5347 0.4962	0.4839	0.5527	Ave		0.5279			0.0100	8.0	20.0				
Trichlorofluoromethane	0.3860 0.3913	0.5126 0.4251	0.4168 0.3840	0.3562	0.4323	Ave		0.4130			0.1000	11.0	20.0				
Ethyl ether	0.3086 0.3102	0.3235 0.3233	0.3137 0.3151	0.2963	0.3289	Ave		0.3150			0.0100	3.3	20.0				
Acrolein	0.0396 0.0517	0.0543 0.0531	0.0483 0.0514	0.0494	0.0523	Ave		0.0500			0.0100	9.2	20.0				
1,1-Dichloroethene	0.2617 0.2769	0.3126 0.2902	0.2929 0.2710	0.2438	0.2966	Ave		0.2807			0.1000	7.8	20.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2784 0.2816	0.3066 0.2868	0.2842 0.2700	0.2572	0.3066	Ave		0.2839			0.1000	5.9	20.0				
Acetone	0.0798 0.0903	0.1021 0.0898	0.0810 0.0901	0.0853	0.0894	Ave		0.0884			0.0500	7.8	20.0				
Iodomethane	0.3845 0.4194	0.4548 0.4293	0.4169 0.4189	0.3736	0.4299	Ave		0.4159			0.0100	6.2	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.: 180-42389-1

Analy Batch No.: 131929

SDG No.: _____

Instrument ID: CHHP6

GC Column: DB-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2015 13:58

Calibration End Date: 01/28/2015 16:44

Calibration ID: 21588

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	0.7487 0.8423	0.8906 0.8871	0.8183 0.8610	0.7260	0.8778	Ave		0.8315			0.1000	7.6	20.0				
Allyl chloride	0.1478 0.1884	0.2053 0.1953	0.1824 0.1875	0.1614	0.1907	Ave		0.1823			0.0100	10.0	20.0				
Methyl acetate	0.1939 0.2192	0.2296 0.2217	0.2129 0.2109	0.2145	0.2292	Ave		0.2165			0.1000	5.3	20.0				
Methylene Chloride	0.5663 0.3764	0.4406 0.3812	0.3942 0.3763	0.3452	0.4033	Ave		0.4104			0.1000	17.0	20.0				
tert-Butyl alcohol	0.9048 1.1531	1.2046 1.1953	1.1245 1.1486	1.1865	1.1233	Ave		1.1301			0.0100	8.5	20.0				
Acrylonitrile	0.0986 0.1135	0.1174 0.1174	0.1124 0.1105	0.1114	0.1219	Ave		0.1129			0.0100	6.1	20.0				
trans-1,2-Dichloroethene	0.3049 0.3368	0.3676 0.3502	0.3416 0.3352	0.3064	0.3612	Ave		0.3380			0.1000	6.8	20.0				
Methyl tert-butyl ether	0.7928 0.9305	0.9167 0.9185	0.8812 0.8985	0.8253	0.9438	Ave		0.8884			0.1000	6.0	20.0				
Hexane	0.4629 0.4758	0.5115 0.4938	0.4880 0.4752	0.4742	0.5094	Ave		0.4863			0.0100	3.6	20.0				
1,1-Dichloroethane	0.6073 0.6486	0.7152 0.6711	0.6594 0.6387	0.5982	0.6916	Ave		0.6538			0.2000	6.1	20.0				
Vinyl acetate	0.3314 0.3275	0.3270 0.3665	0.3192 0.3491	0.3563	0.3424	Ave		0.3399			0.0100	4.8	20.0				
2-Butanone (MEK)	0.0981 0.1170	0.1045 0.1174	0.1091 0.1130	0.1341	0.1140	Ave		0.1134			0.0500	9.4	20.0				
cis-1,2-Dichloroethene	0.3245 0.3584	0.3872 0.3703	0.3585 0.3605	0.3251	0.3832	Ave		0.3585			0.1000	6.5	20.0				
2,2-Dichloropropane	0.3199 0.3750	0.4095 0.3953	0.3658 0.3787	0.3260	0.3957	Ave		0.3707			0.0100	8.8	20.0				
Bromochloromethane	0.1350 0.1448	0.1446 0.1494	0.1365 0.1459	0.1362	0.1490	Ave		0.1427			0.0100	4.1	20.0				
Tetrahydrofuran	0.0903 0.0790	0.0922 0.0786	0.0695 0.0777	0.0808	0.0836	Ave		0.0815			0.0100	8.9	20.0				
Chloroform	0.5289 0.5736	0.5990 0.5775	0.5675 0.5500	0.5145	0.5923	Ave		0.5629			0.2000	5.3	20.0				
1,1,1-Trichloroethane	0.3563 0.4446	0.4657 0.4553	0.4238 0.4340	0.3968	0.4543	Ave		0.4288			0.1000	8.5	20.0				
Cyclohexane	0.6359 0.6708	0.7886 0.6979	0.7167 0.6628	0.6153	0.7383	Ave		0.6908			0.1000	8.2	20.0				
Carbon tetrachloride	0.3118 0.3436	0.3285 0.3563	0.3441 0.3446	0.2948	0.3616	Ave		0.3357			0.1000	6.8	20.0				

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

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

Lab Name: TestAmerica Pittsburgh

Job No.: 180-42389-1

Analy Batch No.: 131929

SDG No.: _____

Instrument ID: CHHP6

GC Column: DB-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2015 13:58

Calibration End Date: 01/28/2015 16:44

Calibration ID: 21588

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	0.4003 0.4186	0.4561 0.4404	0.4219 0.4179	0.4152	0.4528	Ave		0.4279			0.0100	4.6	20.0				
Isobutyl alcohol	0.0043 0.0072	0.0064 0.0072	0.0064 0.0068	0.0074	0.0076	Ave		0.0067	*		0.0100	16.0	20.0				
Benzene	1.1307 1.1958	1.3767 1.2342	1.2896 1.1539	1.2476	1.3035	Ave		1.2415			0.5000	6.6	20.0				
1,2-Dichloroethane	0.4007 0.3996	0.4089 0.4174	0.3990 0.4021	0.4078	0.4253	Ave		0.4076			0.1000	2.3	20.0				
n-Heptane	0.3920 0.3756	0.4175 0.3951	0.4074 0.3772	0.3914	0.4078	Ave		0.3955			0.0100	3.8	20.0				
Trichloroethene	0.2891 0.2677	0.3005 0.2889	0.2760 0.2665	0.2817	0.2919	Ave		0.2828			0.2000	4.3	20.0				
Methylcyclohexane	0.5102 0.5411	0.6090 0.5779	0.5854 0.5414	0.5070	0.5852	Ave		0.5572			0.1000	6.8	20.0				
1,2-Dichloropropane	0.3166 0.3290	0.3285 0.3343	0.3184 0.3303	0.3331	0.3380	Ave		0.3285			0.1000	2.3	20.0				
1,4-Dioxane	0.0014 0.0021	0.0019 0.0021	0.0020 0.0019	0.0023	0.0026	Ave		0.0021	*		0.0100	16.0	20.0				
Dibromomethane	0.1216 0.1521	0.1431 0.1598	0.1502 0.1505	0.1442	0.1532	Ave		0.1468			0.0100	7.8	20.0				
Bromodichloromethane	0.2993 0.3553	0.3290 0.3756	0.3325 0.3612	0.3451	0.3571	Ave		0.3444			0.2000	6.9	20.0				
cis-1,3-Dichloropropene	0.3353 0.4110	0.3503 0.4405	0.3634 0.4227	0.4129	0.4256	Ave		0.3952			0.2000	10.0	20.0				
4-Methyl-2-pentanone (MIBK)	0.9540 1.1151	1.1043 1.1718	1.1815 1.0384	1.2050	1.2539	Ave		1.1280			0.1000	8.6	20.0				
Toluene	5.4914 4.5310	5.7208 4.7401	5.6426 4.1615	5.1921	5.4144	Ave		5.1117			0.4000	11.0	20.0				
trans-1,3-Dichloropropene	1.2695 1.3907	1.2955 1.4928	1.3784 1.3478	1.5487	1.4918	Ave		1.4019			0.1000	7.2	20.0				
Ethyl methacrylate	1.1291 1.2563	1.2172 1.3586	1.3093 1.2529	1.3664	1.4291	Ave		1.2899			0.0100	7.4	20.0				
1,1,2-Trichloroethane	1.0185 0.8514	1.0026 0.9021	0.9486 0.8143	0.9248	0.9635	Ave		0.9282			0.1000	7.6	20.0				
Tetrachloroethene	0.9955 0.7962	1.0058 0.8828	0.9677 0.7835	0.9124	0.9591	Ave		0.9129			0.2000	9.4	20.0				
1,3-Dichloropropane	1.7663 1.5809	1.8062 1.6986	1.7615 1.5218	1.8579	1.8132	Ave		1.7258			0.0100	6.8	20.0				
2-Hexanone	0.5452 0.6314	0.6409 0.6677	0.6587 0.6084	0.6924	0.7040	Ave		0.6436			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.: 180-42389-1

Analy Batch No.: 131929

SDG No.: _____

Instrument ID: CHHP6

GC Column: DB-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2015 13:58

Calibration End Date: 01/28/2015 16:44

Calibration ID: 21588

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	0.6719 0.7933	0.7287 0.8651	0.8081 0.7828	0.8040	0.8498	Ave		0.7880			0.1000	7.9	20.0				
1,2-Dibromoethane (EDB)	0.7702 0.8091	0.8566 0.8695	0.8717 0.7825	0.8987	0.8965	Ave		0.8444			0.1000	6.0	20.0				
3-Chlorobenzotrifluoride	2.1092 1.5798	1.9444 1.6709	2.0206 1.4750	1.6511	1.7758	Ave		1.7784			0.0100	13.0	20.0				
Chlorobenzene	3.4601 2.8835	3.3914 3.0356	3.4154 2.7518	3.2008	3.3854	Ave		3.1905			0.5000	8.5	20.0				
4-Chlorobenzotrifluoride	1.8212 1.5037	1.8756 1.5784	1.8254 1.4071	1.5671	1.6615	Ave		1.6550			0.0100	10.0	20.0				
1,1,1,2-Tetrachloroethane	0.8739 1.1196	1.1217 1.1535	1.1594 1.0827	1.0702	1.2192	Ave		1.1000			0.0100	9.3	20.0				
Ethylbenzene	2.0615 1.7563	2.0184 1.8372	2.0638 1.6858	1.8579	2.0338	Ave		1.9143			0.1000	7.8	20.0				
m-Xylene & p-Xylene	2.2289 2.2454	2.6070 2.2936	2.5188 2.0897	2.3575	2.5596	Ave		2.3626			0.1000	7.7	20.0				
o-Xylene	2.3535 2.3021	2.6114 2.3512	2.6901 2.1211	2.3725	2.6243	Ave		2.4283			0.3000	8.0	20.0				
Styrene	3.4711 3.4069	3.6753 3.5670	3.8725 3.1901	3.5790	3.8420	Ave		3.5755			0.3000	6.3	20.0				
Bromoform	0.3456 0.4498	0.4023 0.4747	0.4231 0.4455	0.3941	0.4408	Ave		0.4220			0.1000	9.6	20.0				
2-Chlorobenzotrifluoride	2.0831 1.6651	2.0073 1.7788	2.0600 1.5739	1.7397	1.9308	Ave		1.8549			0.0100	10.0	20.0				
Isopropylbenzene	6.1322 5.3578	7.0417 5.5217	6.7733 4.8040	5.7294	6.5255	Ave		5.9857			0.1000	13.0	20.0				
1,1,2,2-Tetrachloroethane	1.2405 1.1782	1.3514 1.2324	1.3065 1.1416	1.2206	1.3137	Ave		1.2481			0.3000	5.7	20.0				
Bromobenzene	0.8075 0.8703	0.8805 0.8822	0.8751 0.8614	0.9099	0.9143	Ave		0.8752			0.0100	3.8	20.0				
trans-1,4-Dichloro-2-butene	0.2451 0.2511	0.2240 0.2674	0.2263 0.2510	0.2496	0.2545	Ave		0.2461			0.0100	5.9	20.0				
1,2,3-Trichloropropane	0.2160 0.2538	0.2689 0.2524	0.2612 0.2534	0.2761	0.2673	Ave		0.2561			0.0100	7.1	20.0				
N-Propylbenzene	0.9508 1.0270	1.1121 1.0371	1.0896 0.9935	1.0682	1.0870	Ave		1.0457			0.0100	5.2	20.0				
2-Chlorotoluene	0.9024 0.8995	0.9760 0.9205	0.9138 0.8970	0.9017	0.9611	Ave		0.9215			0.0100	3.3	20.0				
3-Chlorotoluene	1.0017 0.9586	0.9692 0.9307	1.0137 0.9112	0.9609	0.9611	Ave		0.9634			0.0100	3.5	20.0				

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

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

Lab Name: TestAmerica Pittsburgh

Job No.: 180-42389-1

Analy Batch No.: 131929

SDG No.: _____

Instrument ID: CHHP6

GC Column: DB-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2015 13:58

Calibration End Date: 01/28/2015 16:44

Calibration ID: 21588

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	3.0768 3.2530	3.7359 3.2181	3.5555 3.0192	3.4050	3.6257	Ave		3.3612			0.0100	7.8	20.0				
4-Chlorotoluene	0.9577 0.8968	0.9866 0.9558	0.9331 0.9061	0.9440	0.9865	Ave		0.9458			0.0100	3.5	20.0				
tert-Butylbenzene	2.5600 2.5478	2.7508 2.5597	2.6532 2.3924	2.6993	2.7650	Ave		2.6160			0.0100	4.8	20.0				
1,2,4-Trimethylbenzene	3.3035 3.3532	3.8322 3.3235	3.7005 3.1044	3.4799	3.7246	Ave		3.4777			0.0100	7.3	20.0				
3,4-Dichlorobenzotrifluoride	0.9887 0.9504	1.0234 0.9539	1.0268 0.9051	0.9364	0.9894	Ave		0.9718			0.0100	4.4	20.0				
sec-Butylbenzene	3.9016 3.7982	4.5866 3.7545	4.3726 3.4441	4.1591	4.3402	Ave		4.0445			0.0100	9.5	20.0				
1,3-Dichlorobenzene	1.7518 1.6682	1.8502 1.6495	1.7633 1.5971	1.6478	1.7893	Ave		1.7146			0.6000	5.0	20.0				
4-Isopropyltoluene	3.1932 3.1803	3.5244 3.1617	3.4397 2.9124	3.3244	3.5095	Ave		3.2807			0.0100	6.4	20.0				
1,4-Dichlorobenzene	1.8921 1.7229	1.8544 1.7172	1.7634 1.6486	1.7582	1.8323	Ave		1.7736			0.5000	4.6	20.0				
2,4-Dichlorobenzotrifluoride	0.8418 0.9115	1.1643 0.9139	1.0936 0.9451	0.9618	0.9706	Ave		0.9753			0.0100	11.0	20.0				
2,5-Dichlorobenzotrifluoride	1.0277 1.1282	1.0948 1.1145	1.0804 0.9872	1.0256	1.1409	Ave		1.0749			0.0100	5.2	20.0				
n-Butylbenzene	2.8749 3.0408	3.5216 3.0472	3.3346 2.8083	3.1859	3.4281	Ave		3.1552			0.0100	8.2	20.0				
1,2-Dichlorobenzene	1.7178 1.6847	1.8218 1.6615	1.7626 1.6068	1.6829	1.7742	Ave		1.7140			0.4000	4.0	20.0				
1,2-Dibromo-3-Chloropropane	0.1196 0.1498	0.1418 0.1456	0.1302 0.1391	0.1296	0.1389	Ave		0.1368			0.0500	7.2	20.0				
1,2,4-Trichlorobenzene	1.2077 1.3259	1.4506 1.3099	1.3159 1.2520	1.3543	1.4062	Ave		1.3278			0.2000	5.9	20.0				
Hexachlorobutadiene	0.4827 0.5151	0.5622 0.5136	0.5273 0.4845	0.5177	0.5517	Ave		0.5193			0.0100	5.4	20.0				
Naphthalene	1.8023 2.3658	2.4053 2.3151	2.3140 2.1769	2.4289	2.4476	Ave		2.2820			0.0100	9.3	20.0				
1,2,3-Trichlorobenzene	0.9869 1.1121	1.2131 1.1031	1.0884 1.0649	1.1361	1.1802	Ave		1.1106			0.0100	6.3	20.0				
2,4,5-Trichlorotoluene	0.8654 0.8230	0.8306 0.8086	0.8131 0.7852	0.7828	0.8314	Ave		0.8175			0.0100	3.3	20.0				
2,3,6-Trichlorotoluene	0.7105 0.7303	0.7883 0.7307	0.7351 0.7070	0.6935	0.7334	Ave		0.7286			0.0100	3.9	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.: 180-42389-1 Analy Batch No.: 131929

SDG No.: _____

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2015 13:58 Calibration End Date: 01/28/2015 16:44 Calibration ID: 21588

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)	0.2174 0.2296	0.2406 0.2250	0.2312 0.2238	0.2125	0.2294	Ave		0.2262			3.8		20.0				
1,2-Dichloroethane-d4 (Surr)	0.3069 0.3169	0.3462 0.3188	0.3353 0.3175	0.3254	0.3226	Ave		0.3237			3.8		20.0				
Toluene-d8 (Surr)	4.7309 3.4535	4.2834 3.3788	4.5099 3.1748	3.9656	4.0301	Ave		3.9409			14.0		20.0				
4-Bromofluorobenzene (Surr)	2.0381 1.5065	1.7519 1.5176	1.8406 1.4336	1.6178	1.7074	Ave		1.6767			12.0		20.0				

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1 Analy Batch No.: 131929

SDG No.: _____

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2015 13:58 Calibration End Date: 01/28/2015 16:44 Calibration ID: 21588

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-131929/6	60128006.D
Level 2	IC 180-131929/7	60128007.D
Level 3	ICIS 180-131929/8	60128008.D
Level 4	IC 180-131929/9	60128009.D
Level 5	IC 180-131929/10	60128010.D
Level 6	IC 180-131929/11	60128011.D
Level 7	IC 180-131929/12	60128012.D
Level 8	IC 180-131929/13	60128013.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	12441 399376	61413 466774	123370 543864	178504	243452	5.00 175	25.0 200	50.0 250	75.0	100
Chloromethane	FB	Ave	19782 623186	91222 698118	180612 847288	283765	384421	5.00 175	25.0 200	50.0 250	75.0	100
Vinyl chloride	FB	Ave	16929 551705	80864 630878	164249 750079	249364	339939	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Butadiene	FB	Ave	19072 555574	91449 663356	173303 797079	257326	363197	5.00 175	25.0 200	50.0 250	75.0	100
Bromomethane	FB	Ave	7254 214591	35506 238802	68708 267917	100551	133368	5.00 175	25.0 200	50.0 250	75.0	100
Chloroethane	FB	Ave	11109 335043	48264 381411	103324 453830	150069	206434	5.00 175	25.0 200	50.0 250	75.0	100
Dichlorofluoromethane	FB	Ave	24939 781500	124955 918274	239388 1104334	358712	485448	5.00 175	25.0 200	50.0 250	75.0	100
Trichlorofluoromethane	FB	Ave	19093 608185	104021 732912	186613 854688	264073	379709	5.00 175	25.0 200	50.0 250	75.0	100
Ethyl ether	FB	Ave	15266 482160	65645 557320	140456 701385	219655	288913	5.00 175	25.0 200	50.0 250	75.0	100
Acrolein	FB	Ave	39186 103226	55086 114431	64846 125821	85368	91786	100 225	125 250	150 275	175	200
1,1-Dichloroethene	FB	Ave	12943 430377	63440 500308	131155 603276	180761	260475	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	13773 437728	62215 494476	127227 600973	190645	269318	5.00 175	25.0 200	50.0 250	75.0	100
Acetone	FB	Ave	19736 280558	41421 309648	72525 400973	126400	156961	25.0 350	50.0 400	100 500	150	200
Iodomethane	FB	Ave	19019 651846	92291 740212	186664 932274	276926	377556	5.00 175	25.0 200	50.0 250	75.0	100
Carbon disulfide	FB	Ave	37034 1309070	180744 1529475	366360 1916453	538178	770934	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.: 180-42389-1 Analy Batch No.: 131929

SDG No.: _____

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2015 13:58 Calibration End Date: 01/28/2015 16:44 Calibration ID: 21588

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	7309	41661	81645	119671	167495	5.00	25.0	50.0	75.0	100
			292881	336687	417234			175	200	250		
Methyl acetate	FB	Ave	47953	232955	476543	795107	1006389	25.0	125	250	375	500
			1703104	1911445	2346689			875	1000	1250		
Methylene Chloride	FB	Ave	28011	89407	176505	255870	354231	5.00	25.0	50.0	75.0	100
			585012	657192	837610			175	200	250		
tert-Butyl alcohol	TBA	Ave	5769	44315	82385	157863	196865	50.0	250	500	750	1000
			335472	373469	475572			1750	2000	2500		
Acrylonitrile	FB	Ave	48759	238315	503259	825638	1070950	50.0	250	500	750	1000
			1763284	2023857	2458471			1750	2000	2500		
trans-1,2-Dichloroethene	FB	Ave	15080	74610	152947	227148	317224	5.00	25.0	50.0	75.0	100
			523513	603714	746155			175	200	250		
Methyl tert-butyl ether	FB	Ave	39215	186042	394527	611806	828973	5.00	25.0	50.0	75.0	100
			1446119	1583536	1999816			175	200	250		
Hexane	FB	Ave	22898	103798	218490	351514	447359	5.00	25.0	50.0	75.0	100
			739493	851374	1057585			175	200	250		
1,1-Dichloroethane	FB	Ave	30038	145146	295240	443424	607468	5.00	25.0	50.0	75.0	100
			1008065	1157116	1421566			175	200	250		
Vinyl acetate	FB	Ave	16394	66357	142927	264095	300763	5.00	25.0	50.0	75.0	100
			509076	631938	777050			175	200	250		
2-Butanone (MEK)	FB	Ave	24262	42402	97685	198782	200186	25.0	50.0	100	150	200
			363723	404756	502816			350	400	500		
cis-1,2-Dichloroethene	FB	Ave	16049	78570	160524	240979	336595	5.00	25.0	50.0	75.0	100
			557043	638509	802357			175	200	250		
2,2-Dichloropropane	FB	Ave	15822	83097	163798	241640	347540	5.00	25.0	50.0	75.0	100
			582789	681588	842775			175	200	250		
Bromochloromethane	FB	Ave	6679	29353	61127	100988	130848	5.00	25.0	50.0	75.0	100
			225087	257539	324697			175	200	250		
Tetrahydrofuran	FB	Ave	8931	37414	62273	119820	146874	10.0	50.0	100	150	200
			245422	271171	346093			350	400	500		
Chloroform	FB	Ave	26162	121573	254065	381367	520205	5.00	25.0	50.0	75.0	100
			891515	995734	1224156			175	200	250		
1,1,1-Trichloroethane	FB	Ave	17622	94502	189759	294109	399010	5.00	25.0	50.0	75.0	100
			690974	785027	966056			175	200	250		
Cyclohexane	FB	Ave	31454	160049	320878	456085	648441	5.00	25.0	50.0	75.0	100
			1042561	1203343	1475197			175	200	250		
Carbon tetrachloride	FB	Ave	15423	66664	154066	218554	317552	5.00	25.0	50.0	75.0	100
			533960	614377	766964			175	200	250		
1,1-Dichloropropene	FB	Ave	19800	92563	188906	307766	397719	5.00	25.0	50.0	75.0	100
			650661	759338	930038			175	200	250		
Isobutyl alcohol	FB	Ave	5333	32224	71829	137058	166021	125	625	1250	1875	2500
			280190	309707	377064			4375	5000	6250		

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1 Analy Batch No.: 131929

SDG No.: _____

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2015 13:58 Calibration End Date: 01/28/2015 16:44 Calibration ID: 21588

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	55932 1858516	279397 2127915	577373 2568317	924844	1144809	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloroethane	FB	Ave	19819 620987	82990 719730	178647 895039	302310	373539	5.00 175	25.0 200	50.0 250	75.0	100
n-Heptane	FB	Ave	19391 583751	84739 681180	182403 839502	290134	358203	5.00 175	25.0 200	50.0 250	75.0	100
Trichloroethene	FB	Ave	14298 416102	60983 498060	123549 593184	208800	256342	5.00 175	25.0 200	50.0 250	75.0	100
Methylcyclohexane	FB	Ave	25239 840990	123591 996383	262105 1205068	375853	513997	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloropropane	FB	Ave	15660 511401	66666 576307	142558 735181	246898	296893	5.00 175	25.0 200	50.0 250	75.0	100
1,4-Dioxane	FB	Ave	1410 66654	7809 73473	18208 86605	33822	44901	100 3500	500 4000	1000 5000	1500	2000
Dibromomethane	FB	Ave	6013 236358	29036 275521	67249 334892	106863	134511	5.00 175	25.0 200	50.0 250	75.0	100
Bromodichloromethane	FB	Ave	14807 552260	66762 647525	148860 803958	255826	313642	5.00 175	25.0 200	50.0 250	75.0	100
cis-1,3-Dichloropropene	FB	Ave	16586 638776	71082 759439	162719 940779	306111	373776	5.00 175	25.0 200	50.0 250	75.0	100
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	48490 833434	94789 963310	221045 1165825	401820	485147	25.0 350	50.0 400	100 500	150	200
Toluene	CBZ	Ave	55826 1693226	245530 1948278	527825 2335981	865706	1047433	5.00 175	25.0 200	50.0 250	75.0	100
trans-1,3-Dichloropropene	CBZ	Ave	12906 519690	55603 613591	128942 756557	258221	288597	5.00 175	25.0 200	50.0 250	75.0	100
Ethyl methacrylate	CBZ	Ave	11478 469489	52242 558436	122480 703298	227823	276463	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2-Trichloroethane	CBZ	Ave	10354 318177	43032 370798	88732 457078	154194	186391	5.00 175	25.0 200	50.0 250	75.0	100
Tetrachloroethene	CBZ	Ave	10120 297552	43168 362836	90521 439818	152121	185546	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Dichloropropane	CBZ	Ave	17956 590770	77521 698175	164779 854230	309767	350761	5.00 175	25.0 200	50.0 250	75.0	100
2-Hexanone	CBZ	Ave	27710 471926	55014 548903	123231 682982	230885	272392	25.0 350	50.0 400	100 500	150	200
Dibromochloromethane	CBZ	Ave	6831 296438	31276 355583	75589 439418	134047	164399	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dibromoethane (EDB)	CBZ	Ave	7830 302375	36764 357378	81540 439262	149846	173425	5.00 175	25.0 200	50.0 250	75.0	100
3-Chlorobenzotrifluoride	CBZ	Ave	21442 590382	83450 686787	189015 827969	275294	343534	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.: 180-42389-1 Analy Batch No.: 131929

SDG No.: _____

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2015 13:58 Calibration End Date: 01/28/2015 16:44 Calibration ID: 21588

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorobenzene	CBZ	Ave	35175 1077548	145556 1247688	319491 1544665	533675	654919	5.00 175	25.0 200	50.0 250	75.0	100
4-Chlorobenzotrifluoride	CBZ	Ave	18514 561945	80499 648765	170754 789851	261287	321428	5.00 175	25.0 200	50.0 250	75.0	100
1,1,1,2-Tetrachloroethane	CBZ	Ave	8884 418399	48143 474135	108450 607735	178444	235848	5.00 175	25.0 200	50.0 250	75.0	100
Ethylbenzene	CBZ	Ave	20957 656339	86627 755113	193055 946322	309783	393435	5.00 175	25.0 200	50.0 250	75.0	100
m-Xylene & p-Xylene	CBZ	Ave	22659 839112	111891 942705	235617 1173036	393071	495166	5.00 175	25.0 200	50.0 250	75.0	100
o-Xylene	CBZ	Ave	23926 860280	112080 966416	251637 1190653	395578	507675	5.00 175	25.0 200	50.0 250	75.0	100
Styrene	CBZ	Ave	35287 1273143	157741 1466119	362245 1790733	596747	743239	5.00 175	25.0 200	50.0 250	75.0	100
Bromoform	CBZ	Ave	3513 168078	17267 195103	39579 250089	65704	85273	5.00 175	25.0 200	50.0 250	75.0	100
2-Chlorobenzotrifluoride	CBZ	Ave	21177 622262	86153 731138	192703 883499	290061	373509	5.00 175	25.0 200	50.0 250	75.0	100
Isopropylbenzene	CBZ	Ave	62340 2002206	302221 2269536	633598 2696635	955292	1262379	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2,2-Tetrachloroethane	CBZ	Ave	12611 440302	58000 506563	122215 640819	203512	254135	5.00 175	25.0 200	50.0 250	75.0	100
Bromobenzene	DCB	Ave	13104 477179	60469 550534	135116 690860	223525	278729	5.00 175	25.0 200	50.0 250	75.0	100
trans-1,4-Dichloro-2-butene	DCB	Ave	3977 137653	15381 166844	34948 201266	61317	77586	5.00 175	25.0 200	50.0 250	75.0	100
1,2,3-Trichloropropane	DCB	Ave	3506 139161	18469 157512	40329 203260	67823	81476	5.00 175	25.0 200	50.0 250	75.0	100
N-Propylbenzene	DCB	Ave	15430 563113	76375 647166	168244 796757	262417	331379	5.00 175	25.0 200	50.0 250	75.0	100
2-Chlorotoluene	DCB	Ave	14645 493158	67028 574430	141092 719388	221515	293005	5.00 175	25.0 200	50.0 250	75.0	100
3-Chlorotoluene	DCB	Ave	16255 525597	66559 580756	156510 730727	236047	292985	5.00 175	25.0 200	50.0 250	75.0	100
1,3,5-Trimethylbenzene	DCB	Ave	49931 1783600	256568 2008176	548969 2421330	836492	1105314	5.00 175	25.0 200	50.0 250	75.0	100
4-Chlorotoluene	DCB	Ave	15542 491693	67753 596461	144067 726677	231900	300726	5.00 175	25.0 200	50.0 250	75.0	100
tert-Butylbenzene	DCB	Ave	41544 1396912	188912 1597317	409657 1918630	663124	842934	5.00 175	25.0 200	50.0 250	75.0	100
1,2,4-Trimethylbenzene	DCB	Ave	53610 1838518	263177 2073941	571367 2489630	854880	1135474	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.: 180-42389-1 Analy Batch No.: 131929

SDG No.: _____

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2015 13:58 Calibration End Date: 01/28/2015 16:44 Calibration ID: 21588

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
3,4-Dichlorobenzotrifluoride	DCB	Ave	16045 521070	70285 595281	158534 725838	230038	301633	5.00 175	25.0 200	50.0 250	75.0	100
sec-Butylbenzene	DCB	Ave	63316 2082501	314946 2342860	675141 2762118	1021731	1323132	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Dichlorobenzene	DCB	Ave	28428 914665	127066 1029314	272251 1280853	404796	545480	5.00 175	25.0 200	50.0 250	75.0	100
4-Isopropyltoluene	DCB	Ave	51820 1743713	242039 1972986	531099 2335695	816686	1069888	5.00 175	25.0 200	50.0 250	75.0	100
1,4-Dichlorobenzene	DCB	Ave	30705 944630	127353 1071549	272272 1322179	431926	558588	5.00 175	25.0 200	50.0 250	75.0	100
2,4-Dichlorobenzotrifluoride	DCB	Ave	13661 499776	79958 570286	168861 757959	236290	295903	5.00 175	25.0 200	50.0 250	75.0	100
2,5-Dichlorobenzotrifluoride	DCB	Ave	16677 618602	75184 695499	166815 791743	251951	347814	5.00 175	25.0 200	50.0 250	75.0	100
n-Butylbenzene	DCB	Ave	46654 1667227	241849 1901534	514864 2252239	782657	1045083	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichlorobenzene	DCB	Ave	27877 923690	125111 1036802	272148 1288639	413439	540869	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dibromo-3-Chloropropane	DCB	Ave	1941 82124	9741 90830	20104 111534	31840	42357	5.00 175	25.0 200	50.0 250	75.0	100
1,2,4-Trichlorobenzene	DCB	Ave	19598 726984	99622 817434	203185 1004110	332715	428696	5.00 175	25.0 200	50.0 250	75.0	100
Hexachlorobutadiene	DCB	Ave	7834 282422	38609 320466	81412 388561	127169	168186	5.00 175	25.0 200	50.0 250	75.0	100
Naphthalene	DCB	Ave	29248 1297115	165187 1444669	357281 1745866	596683	746148	5.00 175	25.0 200	50.0 250	75.0	100
1,2,3-Trichlorobenzene	DCB	Ave	16016 609774	83313 688354	168045 854020	279103	359783	5.00 175	25.0 200	50.0 250	75.0	100
2,4,5-Trichlorotoluene	DCB	Ave	14043 451216	57044 504552	125544 629698	192318	253456	5.00 175	25.0 200	50.0 250	75.0	100
2,3,6-Trichlorotoluene	DCB	Ave	11530 400428	54138 455993	113503 566962	170378	223585	5.00 175	25.0 200	50.0 250	75.0	100
Dibromofluoromethane (Surr)	FB	Ave	10756 356892	48823 387858	103502 498125	157502	201508	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloroethane-d4 (Surr)	FB	Ave	15181 492507	70258 549644	150111 706731	241234	283354	5.00 175	25.0 200	50.0 250	75.0	100
Toluene-d8 (Surr)	CBZ	Ave	48094 1290581	183840 1388779	421866 1782119	661202	779639	5.00 175	25.0 200	50.0 250	75.0	100
4-Bromofluorobenzene (Surr)	CBZ	Ave	20719 562972	75189 623752	172172 804742	269743	330292	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.: 180-42389-1 Analy Batch No.: 131929
SDG No.: _____
Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 01/28/2015 13:58 Calibration End Date: 01/28/2015 16:44 Calibration ID: 21588

Curve Type Legend:

Ave = Average ISTD

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128006.D
 Lims ID: IC VSTD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 28-Jan-2015 13:58:30 ALS Bottle#: 4 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD1
 Misc. Info.: 180-0005450-006
 Operator ID: 001562 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub5
 Method: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 29-Jan-2015 12:59:05 Calib Date: 28-Jan-2015 16:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: fergusond

Date: 29-Jan-2015 10:25:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.261	4.279	-0.018	94	127519	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.327	7.327	0.000	98	494647	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.436	10.442	-0.006	91	101660	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.790	12.790	0.000	98	162281	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.597	6.597	0.000	51	10756	5.00	4.81	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.974	6.974	0.000	51	15181	5.00	4.74	
\$ 7 Toluene-d8 (Surr)	98	8.982	8.982	0.000	94	48094	5.00	6.00	
\$ 8 4-Bromofluorobenzene (Surr	95	11.628	11.628	0.000	79	20719	5.00	6.08	
11 Dichlorodifluoromethane	85	1.608	1.608	0.000	94	12441	5.00	4.75	
12 Chloromethane	50	1.767	1.773	-0.006	97	19782	5.00	4.91	
13 Vinyl chloride	62	1.900	1.907	-0.006	94	16929	5.00	4.74	
14 Butadiene	39	1.931	1.943	-0.012	96	19072	5.00	5.00	
15 Bromomethane	94	2.247	2.253	-0.006	77	7254	5.00	5.06	M
16 Chloroethane	64	2.393	2.393	0.000	58	11109	5.00	5.07	M
17 Dichlorofluoromethane	67	2.673	2.673	0.000	92	24939	5.00	4.78	
18 Trichlorofluoromethane	101	2.697	2.685	0.012	77	19093	5.00	4.67	
20 Ethyl ether	59	3.062	3.075	-0.013	96	15266	5.00	4.90	
21 Acrolein	56	3.251	3.263	-0.012	96	39186	100.0	79.2	
22 1,1-Dichloroethene	96	3.385	3.373	0.012	78	12943	5.00	4.66	
23 1,1,2-Trichloro-1,2,2-trif	101	3.433	3.427	0.006	68	13773	5.00	4.90	
24 Acetone	43	3.452	3.464	-0.012	97	19736	25.0	22.6	
25 Iodomethane	142	3.567	3.579	-0.012	99	19019	5.00	4.62	
26 Carbon disulfide	76	3.677	3.689	-0.012	100	37034	5.00	4.50	
29 3-Chloro-1-propene	76	3.963	3.957	0.006	66	7309	5.00	4.05	
30 Methyl acetate	43	3.969	3.969	0.000	97	47953	25.0	22.4	
31 Methylene Chloride	84	4.182	4.176	0.006	91	28011	5.00	6.90	
32 2-Methyl-2-propanol	59	4.395	4.407	-0.012	54	5769	50.0	40.0	
33 Acrylonitrile	53	4.547	4.547	0.000	91	48759	50.0	43.7	M
34 trans-1,2-Dichloroethene	96	4.602	4.614	-0.012	73	15080	5.00	4.51	
35 Methyl tert-butyl ether	73	4.608	4.614	-0.006	98	39215	5.00	4.46	M

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	5.033	5.033	0.000	96	22898	5.00	4.76	
37 1,1-Dichloroethane	63	5.246	5.246	0.000	55	30038	5.00	4.64	M
38 Vinyl acetate	43	5.283	5.283	0.000	77	16394	5.00	4.87	
44 2-Butanone (MEK)	43	5.982	5.982	0.000	80	24262	25.0	21.6	
43 cis-1,2-Dichloroethene	96	5.989	5.982	0.007	85	16049	5.00	4.53	
42 2,2-Dichloropropane	77	5.982	5.989	-0.006	59	15822	5.00	4.31	
49 Tetrahydrofuran	42	6.287	6.281	0.007	89	8931	10.0	11.1	
48 Chlorobromomethane	128	6.274	6.281	-0.006	94	6679	5.00	4.73	
50 Chloroform	83	6.414	6.414	0.000	94	26162	5.00	4.70	
51 1,1,1-Trichloroethane	97	6.585	6.585	0.000	94	17622	5.00	4.15	
52 Cyclohexane	56	6.658	6.664	-0.006	96	31454	5.00	4.60	
53 Carbon tetrachloride	117	6.755	6.767	-0.012	77	15423	5.00	4.64	
54 1,1-Dichloropropene	75	6.767	6.773	-0.006	90	19800	5.00	4.68	
55 Isobutyl alcohol	41	6.925	6.938	-0.013	43	5333	125.0	81.0	
56 Benzene	78	6.974	6.986	-0.012	97	55932	5.00	4.55	
57 1,2-Dichloroethane	62	7.059	7.065	-0.006	97	19819	5.00	4.91	
59 n-Heptane	43	7.345	7.345	0.000	94	19391	5.00	4.96	
61 Trichloroethene	130	7.722	7.722	0.000	95	14298	5.00	5.11	
63 Methylcyclohexane	83	7.966	7.966	0.000	92	25239	5.00	4.58	
64 1,2-Dichloropropane	63	7.996	7.990	0.006	96	15660	5.00	4.82	
65 1,4-Dioxane	88	8.069	8.075	-0.006	31	1410	100.0	69.4	
67 Dibromomethane	93	8.075	8.081	-0.006	91	6013	5.00	4.14	
68 Dichlorobromomethane	83	8.270	8.270	0.000	93	14807	5.00	4.35	
71 cis-1,3-Dichloropropene	75	8.720	8.720	0.000	92	16586	5.00	4.24	
72 4-Methyl-2-pentanone (MIBK)	43	8.854	8.854	0.000	97	48490	25.0	21.1	
73 Toluene	91	9.049	9.048	0.001	97	55826	5.00	5.37	
74 trans-1,3-Dichloropropene	75	9.298	9.292	0.006	97	12906	5.00	4.53	
75 Ethyl methacrylate	69	9.347	9.347	0.000	88	11478	5.00	4.38	
76 1,1,2-Trichloroethane	97	9.487	9.493	-0.006	84	10354	5.00	5.49	
77 Tetrachloroethene	164	9.572	9.566	0.006	95	10120	5.00	5.45	
78 1,3-Dichloropropane	76	9.651	9.651	0.000	91	17956	5.00	5.12	
79 2-Hexanone	43	9.687	9.687	0.000	98	27710	25.0	21.2	
81 Chlorodibromomethane	129	9.870	9.864	0.006	88	6831	5.00	4.26	
82 Ethylene Dibromide	107	9.979	9.985	-0.006	69	7830	5.00	4.56	
83 3-Chlorobenzotrifluoride	180	10.429	10.429	0.000	91	21442	5.00	5.93	
84 Chlorobenzene	112	10.466	10.472	-0.006	92	35175	5.00	5.42	
85 4-Chlorobenzotrifluoride	180	10.521	10.521	0.000	95	18514	5.00	5.50	
87 Ethylbenzene	106	10.563	10.563	0.000	98	20957	5.00	5.38	
86 1,1,1,2-Tetrachloroethane	131	10.563	10.563	0.000	41	8884	5.00	3.97	M
88 m-Xylene & p-Xylene	106	10.697	10.697	0.000	97	22659	5.00	4.72	
89 o-Xylene	106	11.080	11.080	0.000	97	23926	5.00	4.85	
90 Styrene	104	11.099	11.099	0.000	93	35287	5.00	4.85	
91 Bromoform	173	11.281	11.287	-0.006	20	3513	5.00	4.09	
92 2-Chlorobenzotrifluoride	180	11.342	11.342	0.000	95	21177	5.00	5.62	
93 Isopropylbenzene	105	11.452	11.451	0.001	96	62340	5.00	5.12	
96 1,1,2,2-Tetrachloroethane	83	11.756	11.756	0.000	90	12611	5.00	4.97	
95 Bromobenzene	156	11.768	11.768	0.000	93	13104	5.00	4.61	
97 trans-1,4-Dichloro-2-buten	53	11.792	11.792	0.000	57	3977	5.00	4.98	
98 1,2,3-Trichloropropane	110	11.823	11.810	0.013	79	3506	5.00	4.22	
99 N-Propylbenzene	120	11.871	11.871	0.000	99	15430	5.00	4.55	
100 2-Chlorotoluene	126	11.963	11.956	0.006	94	14645	5.00	4.90	
101 3-Chlorotoluene	126	12.029	12.023	0.006	96	16255	5.00	5.20	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.048	12.048	0.000	92	49931	5.00	4.58	
103 4-Chlorotoluene	126	12.078	12.078	0.000	99	15542	5.00	5.06	
104 tert-Butylbenzene	119	12.364	12.364	0.000	93	41544	5.00	4.89	
106 1,2,4-Trimethylbenzene	105	12.425	12.425	0.000	96	53610	5.00	4.75	
107 1,2-dichloro-4-(trifluorom	214	12.455	12.455	0.000	95	16045	5.00	5.09	
108 sec-Butylbenzene	105	12.583	12.589	-0.006	95	63316	5.00	4.82	
109 1,3-Dichlorobenzene	146	12.711	12.711	0.000	93	28428	5.00	5.11	
110 4-Isopropyltoluene	119	12.747	12.741	0.006	95	51820	5.00	4.87	
111 1,4-Dichlorobenzene	146	12.814	12.814	0.000	89	30705	5.00	5.33	
113 2,4-Dichloro-1-(trifluorom	214	12.826	12.826	0.000	55	13661	5.00	4.32	
114 2,5-Dichlorobenzotrifluori	214	12.869	12.869	0.000	94	16677	5.00	4.78	
116 n-Butylbenzene	91	13.155	13.155	0.000	96	46654	5.00	4.56	
117 1,2-Dichlorobenzene	146	13.167	13.173	-0.006	92	27877	5.00	5.01	
118 1,2-Dibromo-3-Chloropropan	75	13.958	13.964	-0.006	12	1941	5.00	4.37	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.104	14.104	0.000	98	75930	15.0	14.5	
121 2,3- & 3,4- Dichlorotoluen	125	14.524	14.518	0.006	98	55126	10.0	9.66	
122 1,2,4-Trichlorobenzene	180	14.785	14.791	-0.006	91	19598	5.00	4.55	
123 Hexachlorobutadiene	225	14.931	14.931	0.000	93	7834	5.00	4.65	
124 Naphthalene	128	15.053	15.053	0.000	97	29248	5.00	3.95	
125 1,2,3-Trichlorobenzene	180	15.278	15.278	0.000	92	16016	5.00	4.44	
126 2,4,5-Trichlorotoluene	159	16.045	16.044	0.001	0	14043	5.00	5.29	
127 2,3,6-Trichlorotoluene	159	16.148	16.148	0.000	90	11530	5.00	4.88	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		10.0	9.04	
S 131 Xylenes, Total	106				0		10.0	9.56	
S 132 1,3-Dichloropropene, Total	1				0		10.0	8.77	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00029	Amount Added: 0.20	Units: uL	
voaWeemixpri_00001	Amount Added: 0.20	Units: uL	
voaWVApri Res_00001	Amount Added: 0.20	Units: uL	
VOA8260VOAPRI_00097	Amount Added: 0.20	Units: uL	
VOAKETONEPRI_00003	Amount Added: 0.80	Units: uL	
voaWAcropri R_00006	Amount Added: 4.00	Units: uL	
VOA8260INT_00027	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128006.D

Injection Date: 28-Jan-2015 13:58:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: IC VSTD1

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

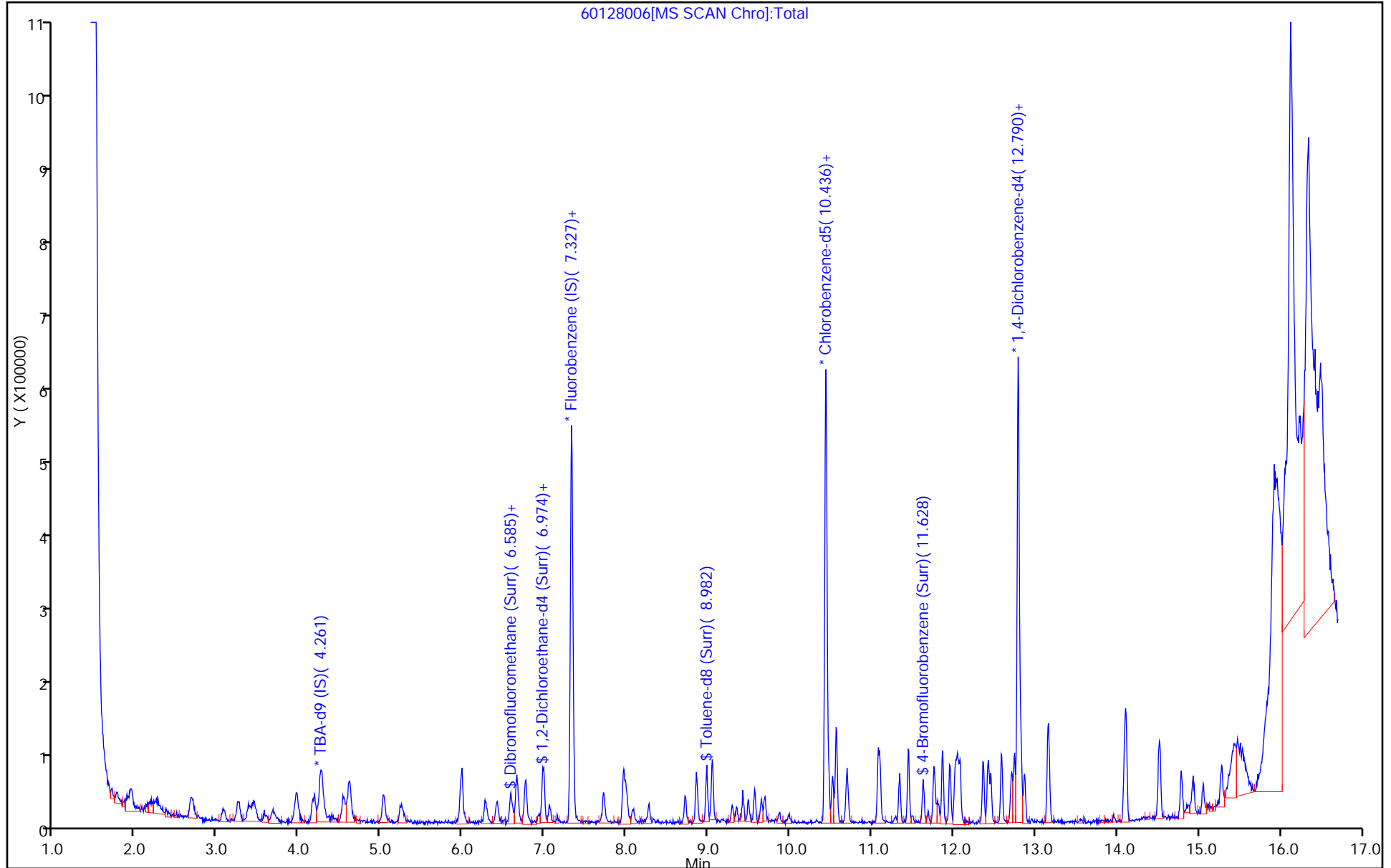
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



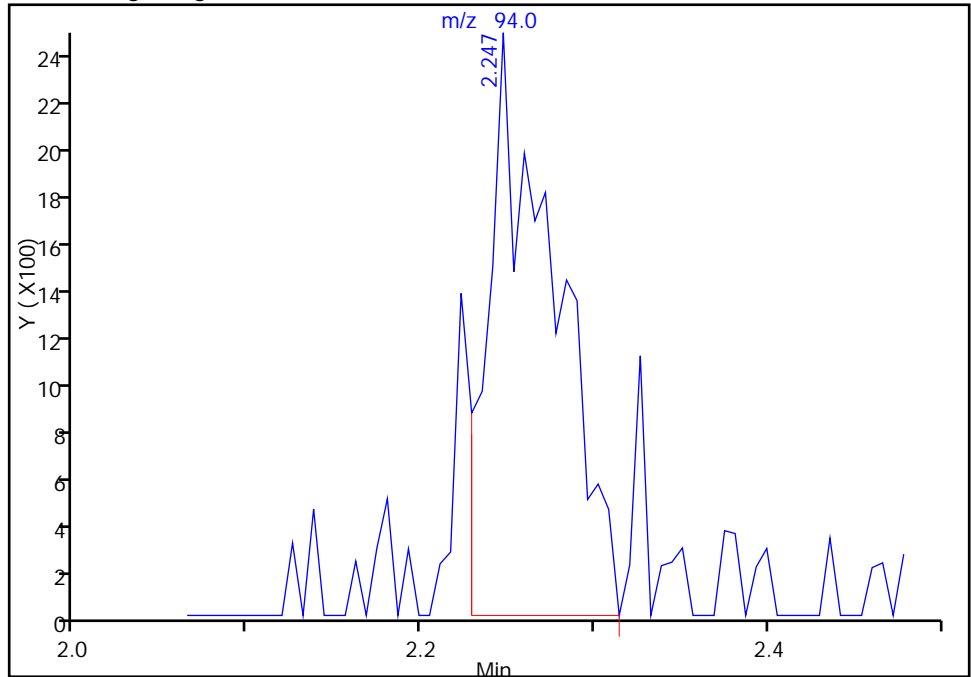
TestAmerica Pittsburgh

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Injection Date: 28-Jan-2015 13:58:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 001562 ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

15 Bromomethane, CAS: 74-83-9

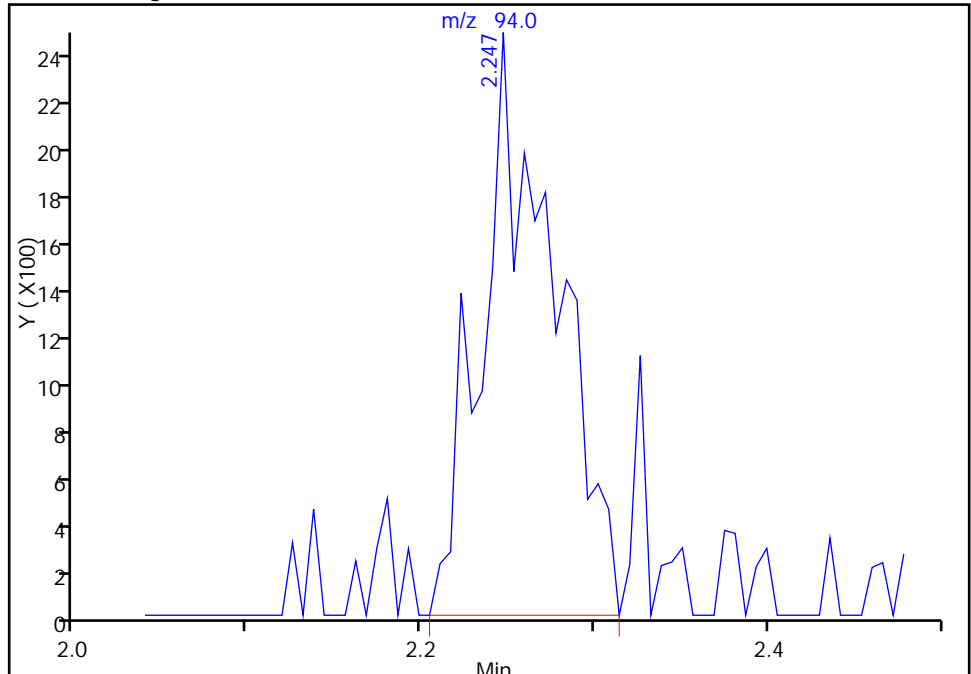
RT: 2.25
Area: 6582
Amount: 4.663707
Amount Units: ng

Processing Integration Results



RT: 2.25
Area: 7254
Amount: 5.059028
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 29-Jan-2015 10:25:48
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

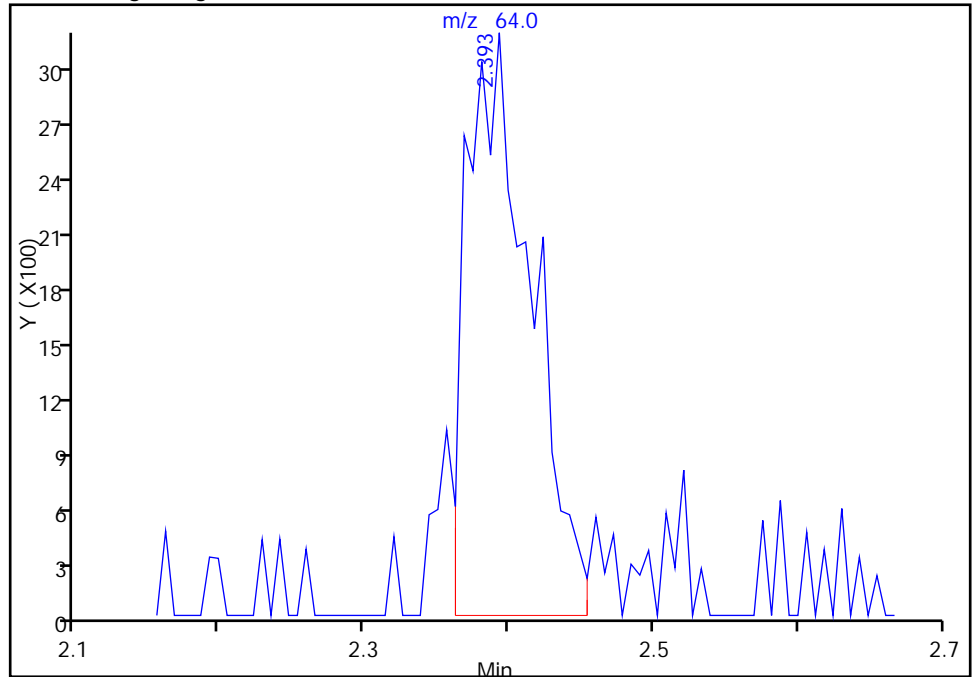
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128006.D
Injection Date: 28-Jan-2015 13:58:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 001562 ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3

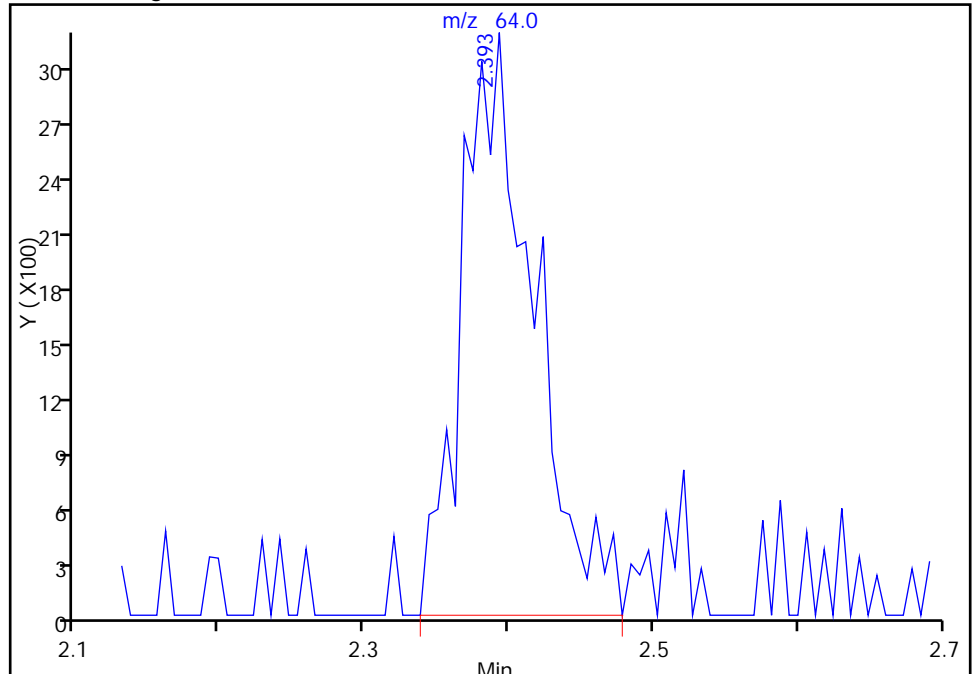
RT: 2.39
Area: 9880
Amount: 4.574556
Amount Units: ng

Processing Integration Results



RT: 2.39
Area: 11109
Amount: 5.071451
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 29-Jan-2015 10:25:48
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

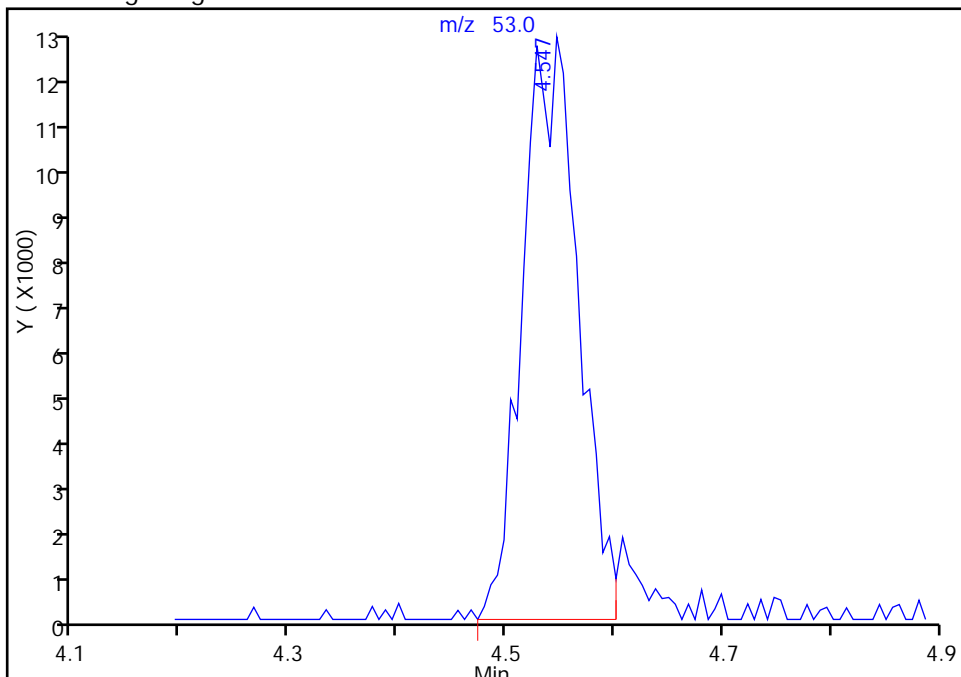
TestAmerica Pittsburgh

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Injection Date: 28-Jan-2015 13:58:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 001562 ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

33 Acrylonitrile, CAS: 107-13-1

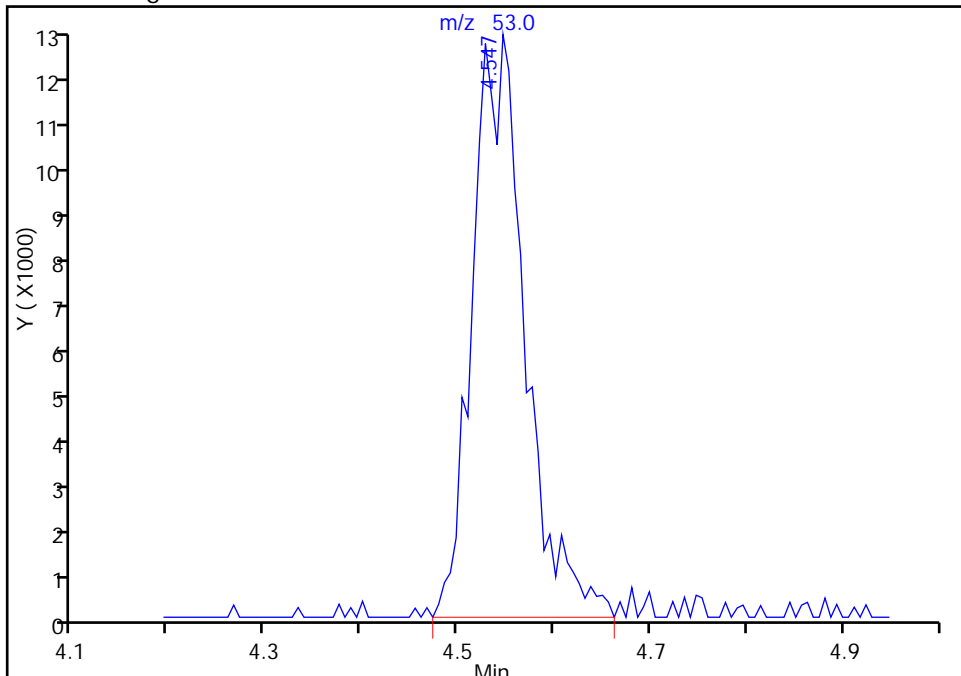
RT: 4.55
Area: 46151
Amount: 41.571241
Amount Units: ng

Processing Integration Results



RT: 4.55
Area: 48759
Amount: 43.664000
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 29-Jan-2015 10:25:48
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

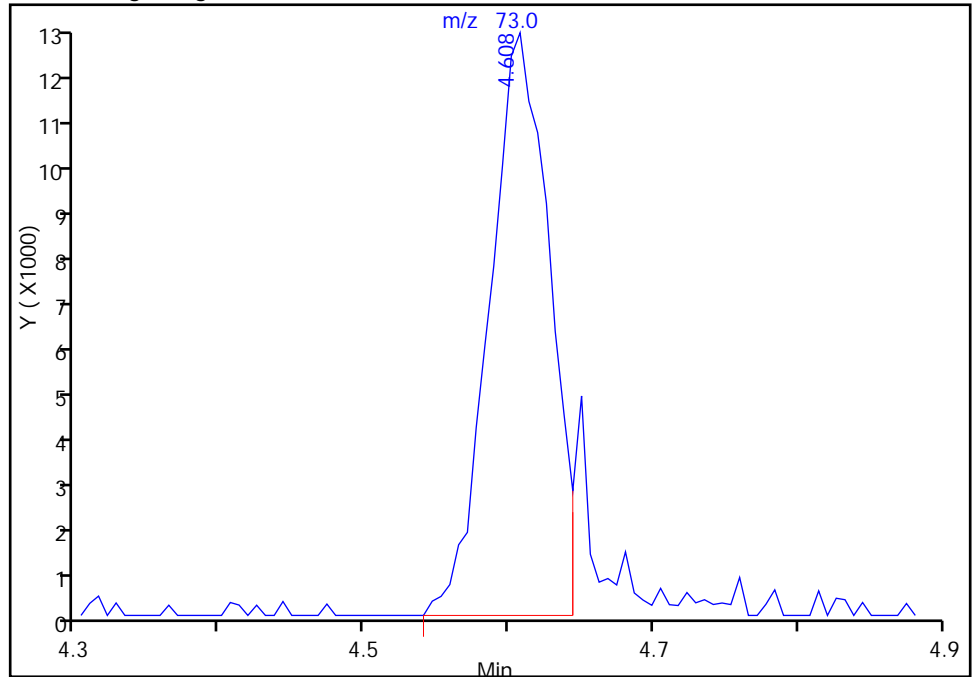
TestAmerica Pittsburgh

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Injection Date: 28-Jan-2015 13:58:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 001562 ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

35 Methyl tert-butyl ether, CAS: 1634-04-4

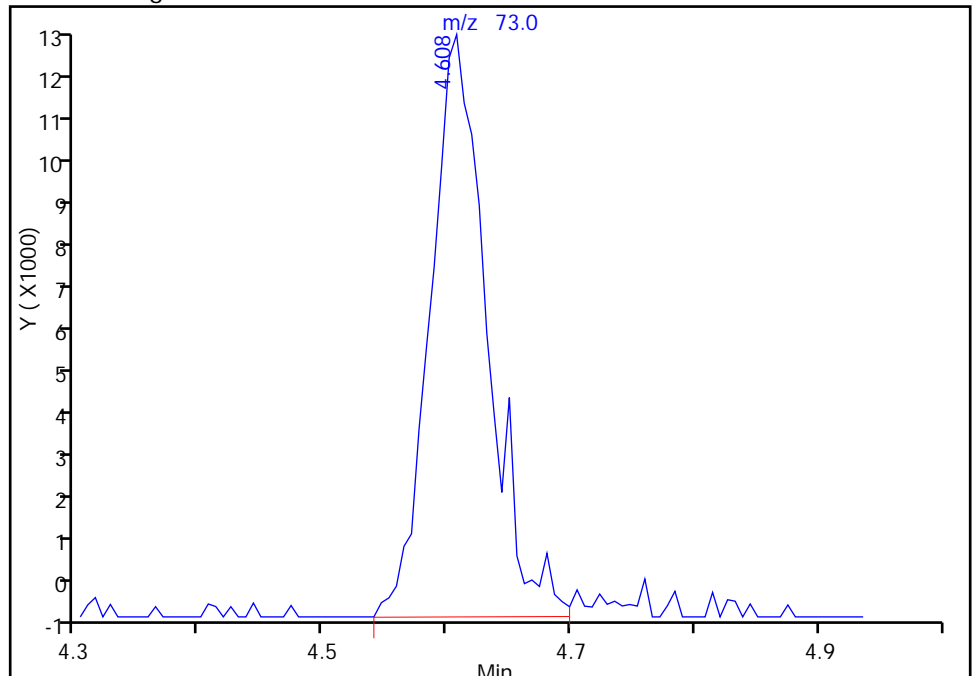
RT: 4.61
Area: 35452
Amount: 4.077319
Amount Units: ng

Processing Integration Results



RT: 4.61
Area: 39215
Amount: 4.461825
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 29-Jan-2015 10:25:48
Audit Action: Manually Integrated
Audit Reason: Split Peak

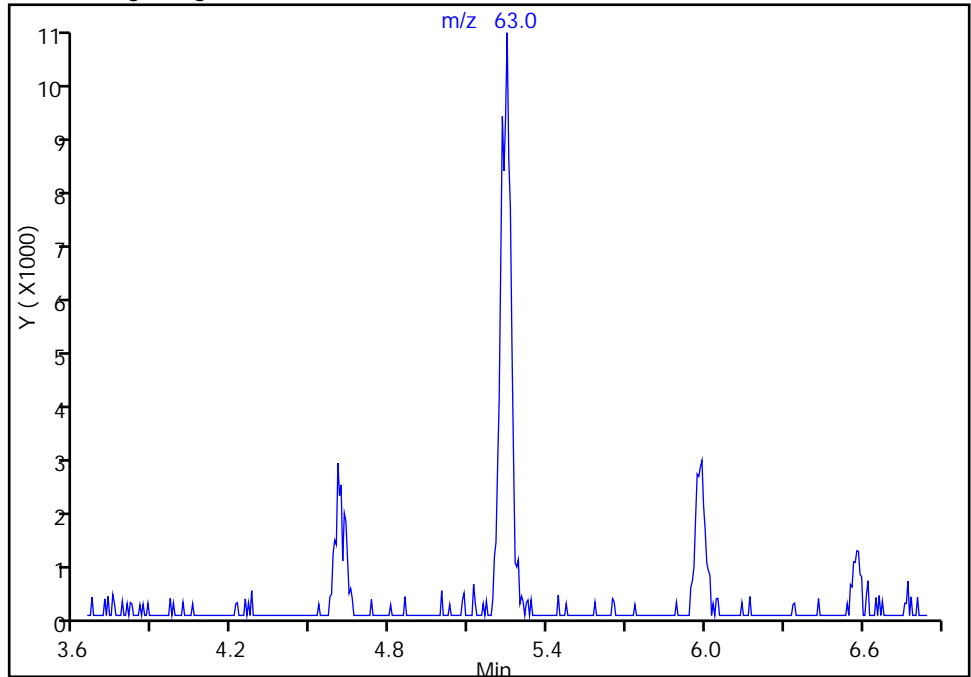
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128006.D
Injection Date: 28-Jan-2015 13:58:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 001562 ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

37 1,1-Dichloroethane, CAS: 75-34-3

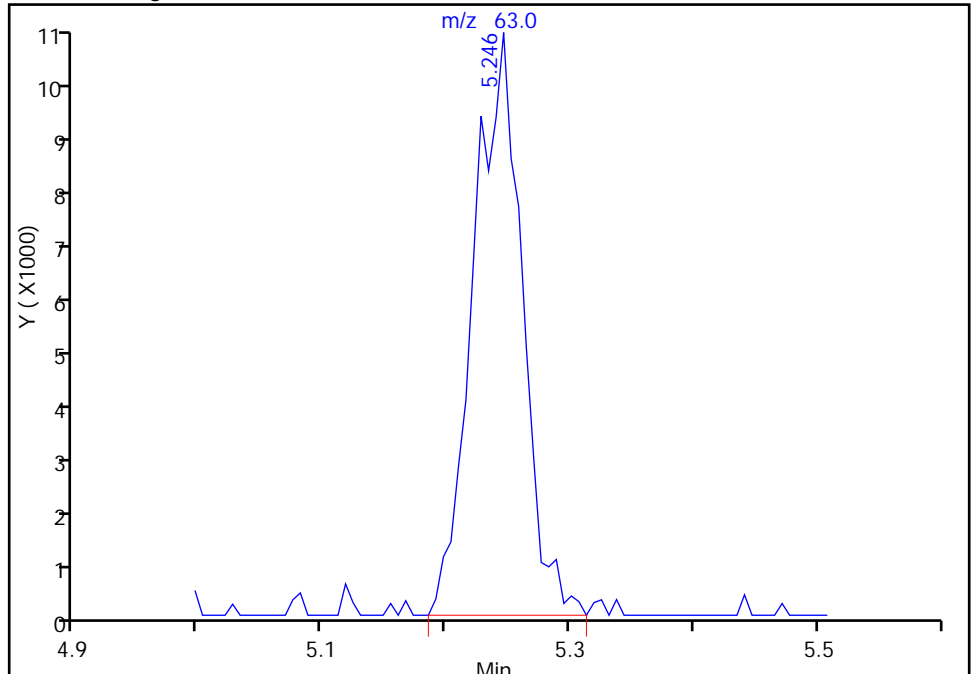
Not Detected
Expected RT: 5.25

Processing Integration Results



RT: 5.25
Area: 30038
Amount: 4.644301
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 29-Jan-2015 10:25:48
Audit Action: Manually Integrated
Audit Reason: Split Peak

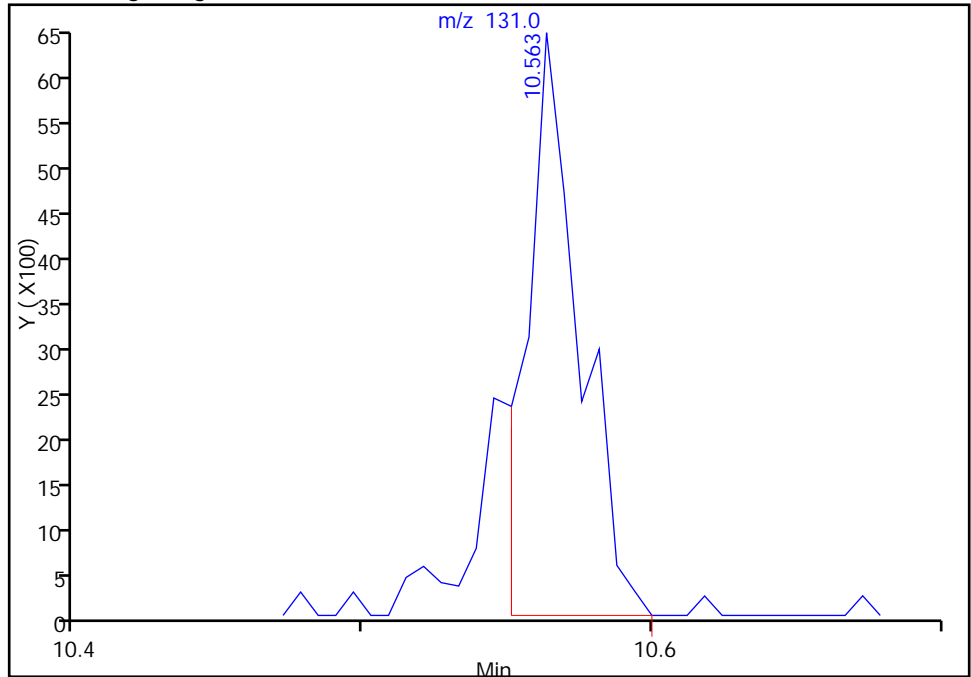
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128006.D
Injection Date: 28-Jan-2015 13:58:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 001562 ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

86 1,1,1,2-Tetrachloroethane, CAS: 630-20-6

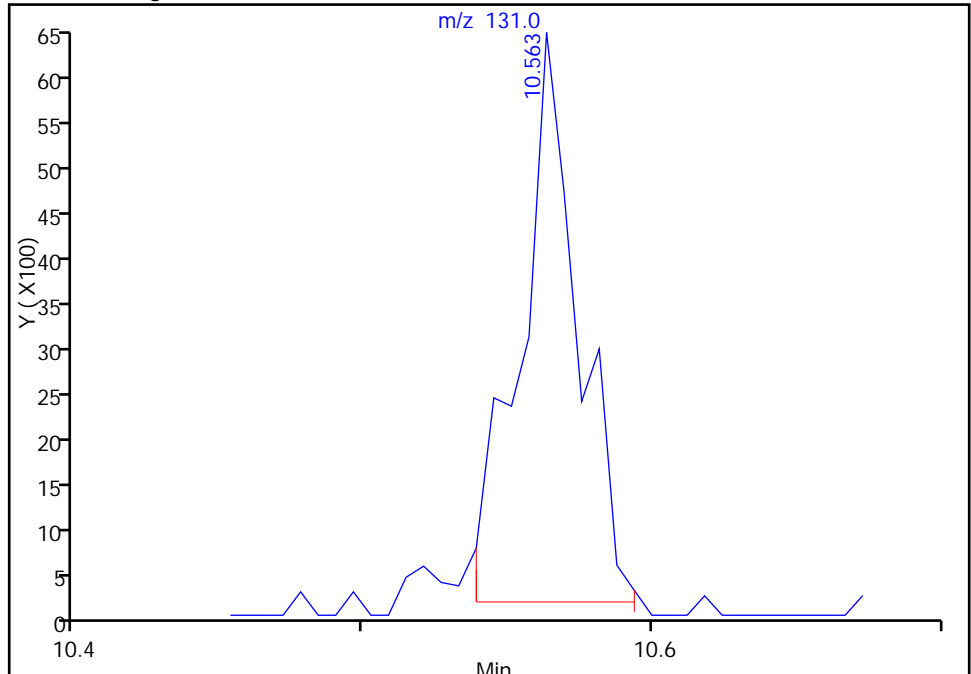
RT: 10.56
Area: 8268
Amount: 3.722370
Amount Units: ng

Processing Integration Results



RT: 10.56
Area: 8884
Amount: 3.972161
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 29-Jan-2015 10:25:48
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128007.D
 Lims ID: IC VSTD5
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 28-Jan-2015 14:21:30 ALS Bottle#: 5 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD5
 Misc. Info.: 180-0005450-007
 Operator ID: 001562 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub5
 Method: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 29-Jan-2015 12:59:07 Calib Date: 28-Jan-2015 16:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: fergusond

Date: 29-Jan-2015 10:28:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.274	4.279	-0.005	94	147158	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.328	7.327	0.001	97	405888	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.437	10.442	-0.005	92	85838	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.791	12.790	0.001	97	137352	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.604	6.597	0.007	90	48823	25.0	26.6	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.976	6.974	0.002	50	70258	25.0	26.7	
\$ 7 Toluene-d8 (Surr)	98	8.983	8.982	0.001	94	183840	25.0	27.2	
\$ 8 4-Bromofluorobenzene (Surr	95	11.629	11.628	0.001	82	75189	25.0	26.1	
11 Dichlorodifluoromethane	85	1.610	1.608	0.002	99	61413	25.0	28.6	
12 Chloromethane	50	1.774	1.773	0.001	98	91222	25.0	27.6	
13 Vinyl chloride	62	1.902	1.907	-0.004	97	80864	25.0	27.6	
14 Butadiene	39	1.945	1.943	0.001	89	91449	25.0	29.2	
15 Bromomethane	94	2.261	2.253	0.008	92	35506	25.0	30.2	
16 Chloroethane	64	2.389	2.393	-0.004	97	48264	25.0	26.9	
17 Dichlorofluoromethane	67	2.675	2.673	0.002	94	124955	25.0	29.2	M
18 Trichlorofluoromethane	101	2.699	2.685	0.014	95	104021	25.0	31.0	
20 Ethyl ether	59	3.076	3.075	0.001	95	65645	25.0	25.7	
21 Acrolein	56	3.252	3.263	-0.011	97	55086	125.0	135.7	
22 1,1-Dichloroethene	96	3.368	3.373	-0.005	92	63440	25.0	27.8	
23 1,1,2-Trichloro-1,2,2-trif	101	3.441	3.427	0.014	94	62215	25.0	27.0	
24 Acetone	43	3.465	3.464	0.001	91	41421	50.0	57.7	
25 Iodomethane	142	3.581	3.579	0.002	99	92291	25.0	27.3	
26 Carbon disulfide	76	3.684	3.689	-0.005	99	180744	25.0	26.8	
29 3-Chloro-1-propene	76	3.958	3.957	0.001	76	41661	25.0	28.1	
30 Methyl acetate	43	3.964	3.969	-0.005	98	232955	125.0	132.6	
31 Methylene Chloride	84	4.183	4.176	0.007	99	89407	25.0	26.8	
32 2-Methyl-2-propanol	59	4.408	4.407	0.001	94	44315	250.0	266.5	
33 Acrylonitrile	53	4.542	4.547	-0.005	100	238315	250.0	260.1	
34 trans-1,2-Dichloroethene	96	4.621	4.614	0.007	77	74610	25.0	27.2	
35 Methyl tert-butyl ether	73	4.615	4.614	0.001	98	186042	25.0	25.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	5.029	5.033	-0.004	93	103798	25.0	26.3	
37 1,1-Dichloroethane	63	5.242	5.246	-0.004	96	145146	25.0	27.3	
38 Vinyl acetate	43	5.278	5.283	-0.005	94	66357	25.0	24.0	
44 2-Butanone (MEK)	43	5.972	5.982	-0.010	49	42402	50.0	46.1	
43 cis-1,2-Dichloroethene	96	5.990	5.982	0.008	85	78570	25.0	27.0	
42 2,2-Dichloropropane	77	5.990	5.989	0.002	66	83097	25.0	27.6	
49 Tetrahydrofuran	42	6.288	6.281	0.008	80	37414	50.0	56.6	
48 Chlorobromomethane	128	6.282	6.281	0.002	89	29353	25.0	25.3	
50 Chloroform	83	6.416	6.414	0.002	95	121573	25.0	26.6	
51 1,1,1-Trichloroethane	97	6.580	6.585	-0.005	97	94502	25.0	27.1	
52 Cyclohexane	56	6.665	6.664	0.001	96	160049	25.0	28.5	
53 Carbon tetrachloride	117	6.757	6.767	-0.010	95	66664	25.0	24.5	
54 1,1-Dichloropropene	75	6.775	6.773	0.002	94	92563	25.0	26.6	
55 Isobutyl alcohol	41	6.933	6.938	-0.005	88	32224	625.0	596.8	
56 Benzene	78	6.982	6.986	-0.004	97	279397	25.0	27.7	
57 1,2-Dichloroethane	62	7.061	7.065	-0.004	96	82990	25.0	25.1	
59 n-Heptane	43	7.353	7.345	0.008	95	84739	25.0	26.4	
61 Trichloroethene	130	7.718	7.722	-0.004	96	60983	25.0	26.6	
63 Methylcyclohexane	83	7.967	7.966	0.001	94	123591	25.0	27.3	
64 1,2-Dichloropropane	63	7.998	7.990	0.008	88	66666	25.0	25.0	
65 1,4-Dioxane	88	8.077	8.075	0.002	40	7809	500.0	468.1	M
67 Dibromomethane	93	8.083	8.081	0.002	93	29036	25.0	24.4	
68 Dichlorobromomethane	83	8.271	8.270	0.001	98	66762	25.0	23.9	
71 cis-1,3-Dichloropropene	75	8.721	8.720	0.001	91	71082	25.0	22.2	
72 4-Methyl-2-pentanone (MIBK)	43	8.855	8.854	0.001	97	94789	50.0	48.9	
73 Toluene	91	9.050	9.048	0.002	99	245530	25.0	28.0	
74 trans-1,3-Dichloropropene	75	9.299	9.292	0.007	98	55603	25.0	23.1	
75 Ethyl methacrylate	69	9.354	9.347	0.007	91	52242	25.0	23.6	
76 1,1,2-Trichloroethane	97	9.488	9.493	-0.005	89	43032	25.0	27.0	
77 Tetrachloroethene	164	9.567	9.566	0.001	96	43168	25.0	27.5	
78 1,3-Dichloropropane	76	9.652	9.651	0.001	92	77521	25.0	26.2	
79 2-Hexanone	43	9.695	9.687	0.008	95	55014	50.0	49.8	M
81 Chlorodibromomethane	129	9.871	9.864	0.007	87	31276	25.0	23.1	
82 Ethylene Dibromide	107	9.981	9.985	-0.004	95	36764	25.0	25.4	
83 3-Chlorobenzotrifluoride	180	10.431	10.429	0.002	93	83450	25.0	27.3	
84 Chlorobenzene	112	10.467	10.472	-0.005	91	145556	25.0	26.6	
85 4-Chlorobenzotrifluoride	180	10.522	10.521	0.001	95	80499	25.0	28.3	
87 Ethylbenzene	106	10.571	10.563	0.008	99	86627	25.0	26.4	
86 1,1,1,2-Tetrachloroethane	131	10.559	10.563	-0.004	42	48143	25.0	25.5	
88 m-Xylene & p-Xylene	106	10.705	10.697	0.008	99	111891	25.0	27.6	
89 o-Xylene	106	11.076	11.080	-0.004	97	112080	25.0	26.9	
90 Styrene	104	11.106	11.099	0.007	95	157741	25.0	25.7	
91 Bromoform	173	11.283	11.287	-0.004	93	17267	25.0	23.8	
92 2-Chlorobenzotrifluoride	180	11.343	11.342	0.001	96	86153	25.0	27.1	
93 Isopropylbenzene	105	11.447	11.451	-0.004	97	302221	25.0	29.4	
96 1,1,2,2-Tetrachloroethane	83	11.757	11.756	0.001	96	58000	25.0	27.1	
95 Bromobenzene	156	11.769	11.768	0.001	97	60469	25.0	25.2	
97 trans-1,4-Dichloro-2-buten	53	11.794	11.792	0.002	60	15381	25.0	22.8	
98 1,2,3-Trichloropropane	110	11.812	11.810	0.002	83	18469	25.0	26.2	
99 N-Propylbenzene	120	11.867	11.871	-0.004	99	76375	25.0	26.6	
100 2-Chlorotoluene	126	11.958	11.956	0.002	95	67028	25.0	26.5	
101 3-Chlorotoluene	126	12.025	12.023	0.002	96	66559	25.0	25.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.049	12.048	0.001	93	256568	25.0	27.8	
103 4-Chlorotoluene	126	12.080	12.078	0.002	99	67753	25.0	26.1	
104 tert-Butylbenzene	119	12.365	12.364	0.001	92	188912	25.0	26.3	
106 1,2,4-Trimethylbenzene	105	12.426	12.425	0.001	97	263177	25.0	27.5	
107 1,2-dichloro-4-(trifluorom	214	12.457	12.455	0.002	97	70285	25.0	26.3	
108 sec-Butylbenzene	105	12.591	12.589	0.002	95	314946	25.0	28.3	
109 1,3-Dichlorobenzene	146	12.712	12.711	0.001	95	127066	25.0	27.0	
110 4-Isopropyltoluene	119	12.743	12.741	0.002	96	242039	25.0	26.9	
111 1,4-Dichlorobenzene	146	12.816	12.814	0.002	89	127353	25.0	26.1	
113 2,4-Dichloro-1-(trifluorom	214	12.834	12.826	0.008	43	79958	25.0	29.8	
114 2,5-Dichlorobenzotrifluori	214	12.870	12.869	0.001	97	75184	25.0	25.5	
116 n-Butylbenzene	91	13.156	13.155	0.001	98	241849	25.0	27.9	
117 1,2-Dichlorobenzene	146	13.169	13.173	-0.005	92	125111	25.0	26.6	
118 1,2-Dibromo-3-Chloropropan	75	13.959	13.964	-0.005	70	9741	25.0	25.9	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.105	14.104	0.001	99	389895	75.0	88.2	
121 2,3- & 3,4- Dichlorotoluen	125	14.519	14.518	0.001	99	285810	50.0	59.2	
122 1,2,4-Trichlorobenzene	180	14.781	14.791	-0.010	93	99622	25.0	27.3	
123 Hexachlorobutadiene	225	14.927	14.931	-0.004	95	38609	25.0	27.1	
124 Naphthalene	128	15.054	15.053	0.001	97	165187	25.0	26.4	
125 1,2,3-Trichlorobenzene	180	15.279	15.278	0.001	94	83313	25.0	27.3	
126 2,4,5-Trichlorotoluene	159	16.046	16.044	0.002	0	57044	25.0	25.4	
127 2,3,6-Trichlorotoluene	159	16.149	16.148	0.001	94	54138	25.0	27.0	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		50.0	54.2	
S 131 Xylenes, Total	106				0		50.0	54.5	
S 132 1,3-Dichloropropene, Total	1				0		50.0	45.3	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00029	Amount Added: 1.00	Units: uL	
voaWAcropri R_00006	Amount Added: 5.00	Units: uL	
voaWeemixpri_00001	Amount Added: 1.00	Units: uL	
VOAKETONEPRI_00003	Amount Added: 1.00	Units: uL	
VOA8260VOAPRI_00097	Amount Added: 1.00	Units: uL	
voaWVApri Res_00001	Amount Added: 1.00	Units: uL	
VOA8260INT_00027	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128007.D

Injection Date: 28-Jan-2015 14:21:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: IC VSTD5

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

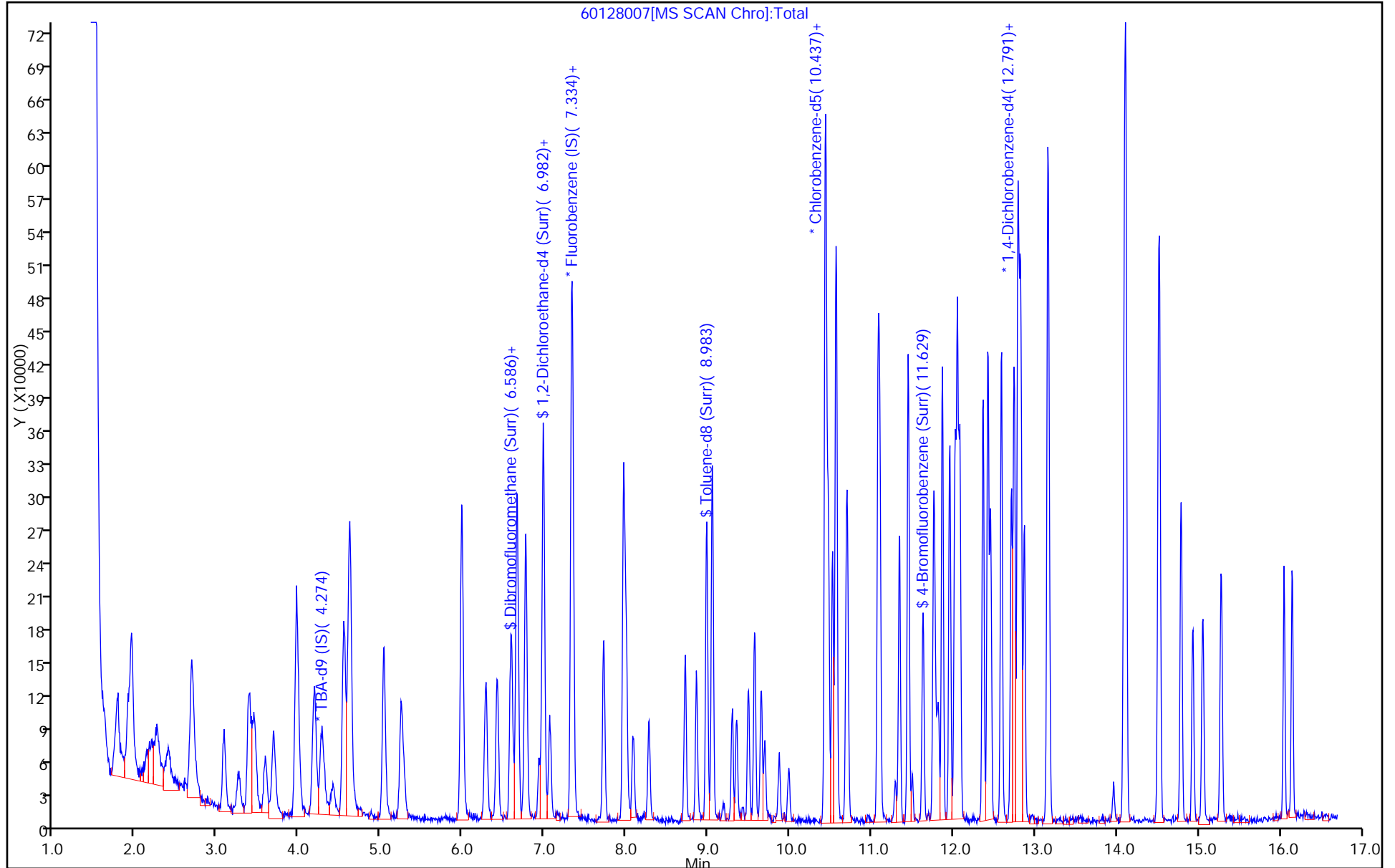
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



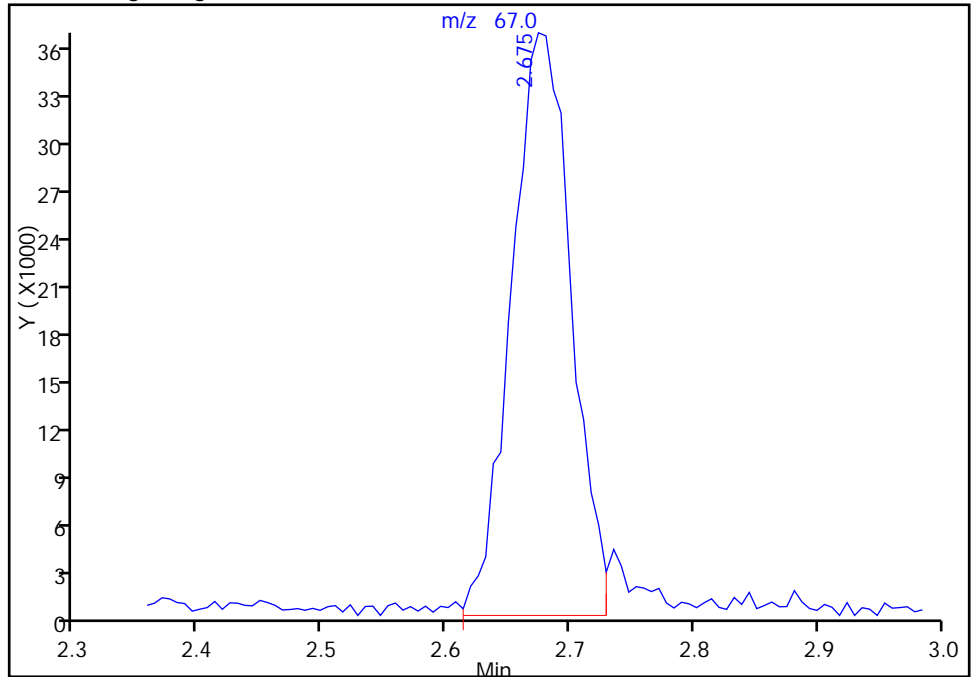
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128007.D
Injection Date: 28-Jan-2015 14:21:30 Instrument ID: CHHP6
Lims ID: IC VSTD5
Client ID:
Operator ID: 001562 ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

17 Dichlorofluoromethane, CAS: 75-43-4

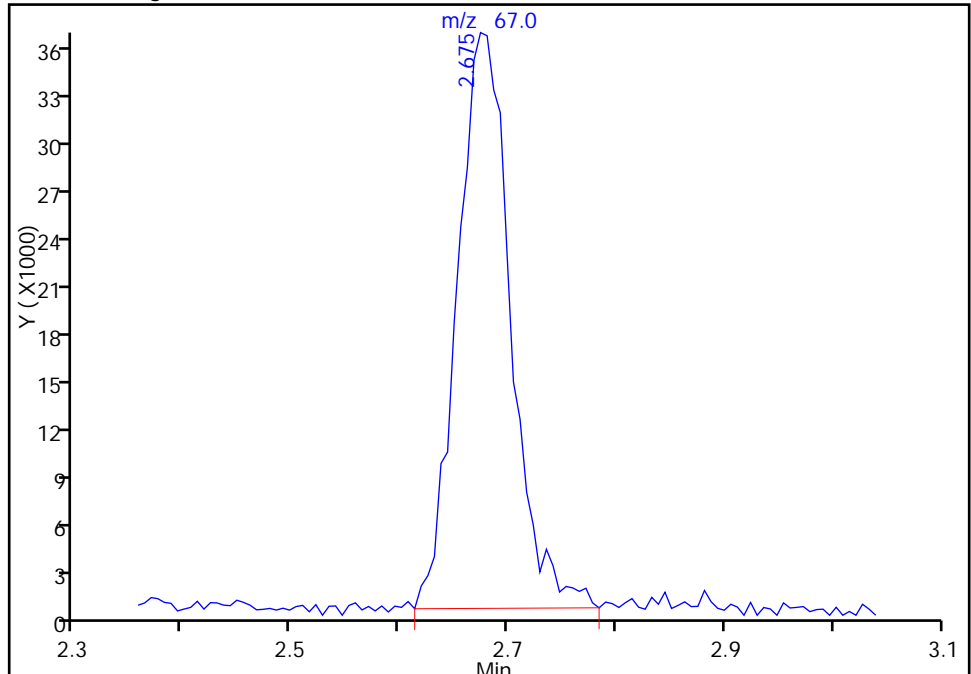
RT: 2.67
Area: 123498
Amount: 28.870358
Amount Units: ng

Processing Integration Results



RT: 2.67
Area: 124955
Amount: 29.161301
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 29-Jan-2015 10:28:06
Audit Action: Manually Integrated
Audit Reason: Baseline

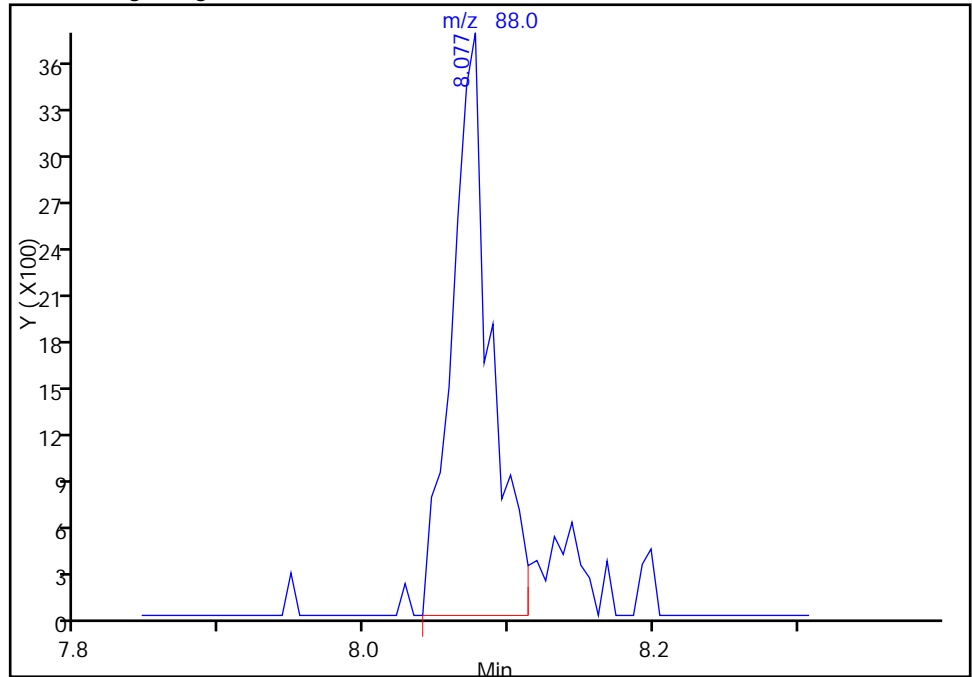
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128007.D
Injection Date: 28-Jan-2015 14:21:30 Instrument ID: CHHP6
Lims ID: IC VSTD5
Client ID:
Operator ID: 001562 ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

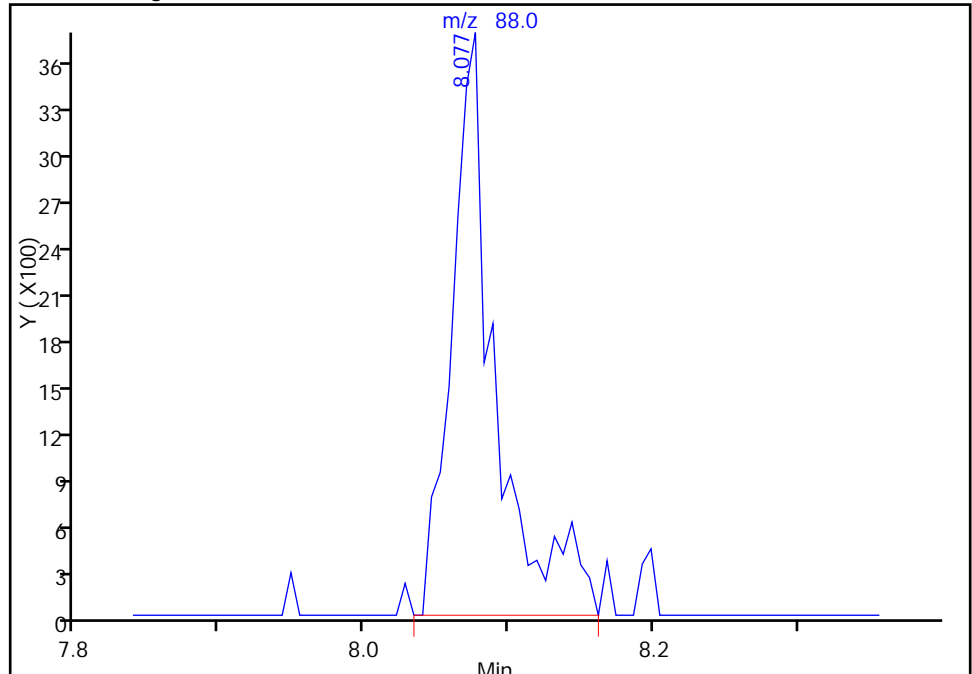
RT: 8.08
Area: 6858
Amount: 429.4537
Amount Units: ng

Processing Integration Results



RT: 8.08
Area: 7809
Amount: 468.0903
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 29-Jan-2015 10:31:00
Audit Action: Manually Integrated
Audit Reason: Peak Tail

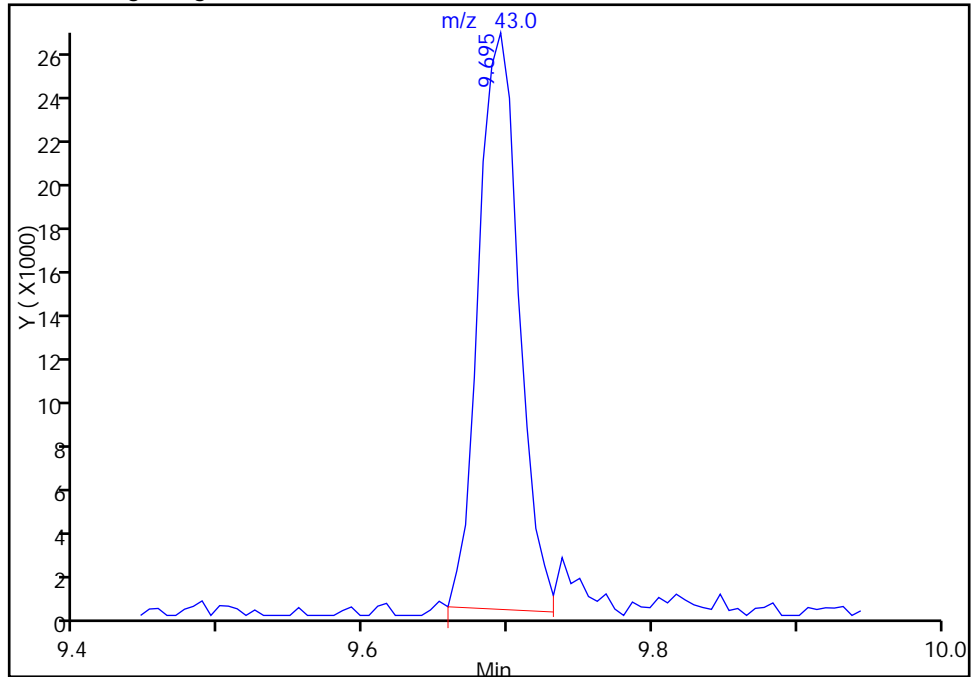
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128007.D
Injection Date: 28-Jan-2015 14:21:30 Instrument ID: CHHP6
Lims ID: IC VSTD5
Client ID:
Operator ID: 001562 ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

79 2-Hexanone, CAS: 591-78-6

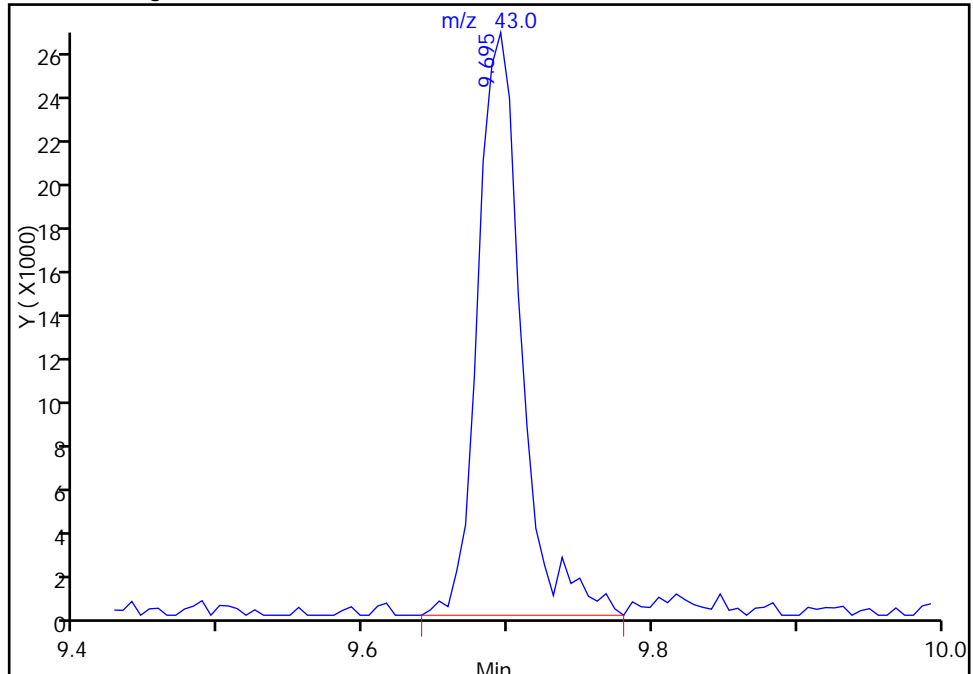
RT: 9.69
Area: 50333
Amount: 46.043032
Amount Units: ng

Processing Integration Results



RT: 9.69
Area: 55014
Amount: 49.792035
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 29-Jan-2015 10:31:00
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128008.D
 Lims ID: ICIS VSTD10
 Client ID:
 Sample Type: ICIS Calib Level: 3
 Inject. Date: 28-Jan-2015 14:45:30 ALS Bottle#: 6 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICIS VSTD10
 Misc. Info.: 180-0005450-008
 Operator ID: 001562 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub5
 Method: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 29-Jan-2015 12:59:09 Calib Date: 28-Jan-2015 16:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: fergusond

Date: 29-Jan-2015 10:09:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.279	4.279	0.000	95	146525	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.327	7.327	0.000	97	447720	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.442	10.442	0.000	93	93543	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.790	12.790	0.000	96	154402	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.597	6.597	0.000	92	103502	50.0	51.1	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.974	6.974	0.000	49	150111	50.0	51.8	
\$ 7 Toluene-d8 (Surr)	98	8.982	8.982	0.000	94	421866	50.0	57.2	
\$ 8 4-Bromofluorobenzene (Surr	95	11.628	11.628	0.000	84	172172	50.0	54.9	
11 Dichlorodifluoromethane	85	1.608	1.608	0.000	100	123370	50.0	52.0	
12 Chloromethane	50	1.773	1.773	0.000	98	180612	50.0	49.5	
13 Vinyl chloride	62	1.907	1.907	0.000	98	164249	50.0	50.8	
14 Butadiene	39	1.943	1.943	0.000	91	173303	50.0	50.2	
15 Bromomethane	94	2.253	2.253	0.000	90	68708	50.0	52.9	
16 Chloroethane	64	2.393	2.393	0.000	98	103324	50.0	52.1	
17 Dichlorofluoromethane	67	2.673	2.673	0.000	96	239388	50.0	50.6	
18 Trichlorofluoromethane	101	2.685	2.685	0.000	74	186613	50.0	50.5	
20 Ethyl ether	59	3.075	3.075	0.000	95	140456	50.0	49.8	
21 Acrolein	56	3.263	3.263	0.000	93	64846	150.0	144.9	
22 1,1-Dichloroethene	96	3.373	3.373	0.000	94	131155	50.0	52.2	
23 1,1,2-Trichloro-1,2,2-trif	101	3.427	3.427	0.000	95	127227	50.0	50.0	
24 Acetone	43	3.464	3.464	0.000	100	72525	100.0	91.6	
25 Iodomethane	142	3.579	3.579	0.000	98	186664	50.0	50.1	
26 Carbon disulfide	76	3.689	3.689	0.000	100	366360	50.0	49.2	
29 3-Chloro-1-propene	76	3.957	3.957	0.000	78	81645	50.0	50.0	
30 Methyl acetate	43	3.969	3.969	0.000	97	476543	250.0	245.8	
31 Methylene Chloride	84	4.176	4.176	0.000	97	176505	50.0	48.0	
32 2-Methyl-2-propanol	59	4.407	4.407	0.000	96	82385	500.0	497.5	
33 Acrylonitrile	53	4.547	4.547	0.000	99	503259	500.0	497.9	
34 trans-1,2-Dichloroethene	96	4.614	4.614	0.000	74	152947	50.0	50.5	
35 Methyl tert-butyl ether	73	4.614	4.614	0.000	98	394527	50.0	49.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	5.033	5.033	0.000	93	218490	50.0	50.2	
37 1,1-Dichloroethane	63	5.246	5.246	0.000	96	295240	50.0	50.4	
38 Vinyl acetate	43	5.283	5.283	0.000	97	142927	50.0	47.0	
44 2-Butanone (MEK)	43	5.982	5.982	0.000	48	97685	100.0	96.2	
43 cis-1,2-Dichloroethene	96	5.982	5.982	0.000	85	160524	50.0	50.0	
42 2,2-Dichloropropane	77	5.989	5.989	0.000	64	163798	50.0	49.3	
49 Tetrahydrofuran	42	6.281	6.281	0.000	68	62273	100.0	85.4	
48 Chlorobromomethane	128	6.281	6.281	0.000	91	61127	50.0	47.8	
50 Chloroform	83	6.414	6.414	0.000	94	254065	50.0	50.4	
51 1,1,1-Trichloroethane	97	6.585	6.585	0.000	98	189759	50.0	49.4	
52 Cyclohexane	56	6.664	6.664	0.000	95	320878	50.0	51.9	
53 Carbon tetrachloride	117	6.767	6.767	0.000	94	154066	50.0	51.3	
54 1,1-Dichloropropene	75	6.773	6.773	0.000	93	188906	50.0	49.3	
55 Isobutyl alcohol	41	6.938	6.938	0.000	89	71829	1250.0	1206.0	M
56 Benzene	78	6.986	6.986	0.000	97	577373	50.0	51.9	
57 1,2-Dichloroethane	62	7.065	7.065	0.000	97	178647	50.0	48.9	
59 n-Heptane	43	7.345	7.345	0.000	95	182403	50.0	51.5	
61 Trichloroethene	130	7.722	7.722	0.000	96	123549	50.0	48.8	
63 Methylcyclohexane	83	7.966	7.966	0.000	94	262105	50.0	52.5	
64 1,2-Dichloropropane	63	7.990	7.990	0.000	86	142558	50.0	48.5	
65 1,4-Dioxane	88	8.075	8.075	0.000	38	18208	1000.0	989.5	
67 Dibromomethane	93	8.081	8.081	0.000	94	67249	50.0	51.2	
68 Dichlorobromomethane	83	8.270	8.270	0.000	98	148860	50.0	48.3	
71 cis-1,3-Dichloropropene	75	8.720	8.720	0.000	92	162719	50.0	46.0	
72 4-Methyl-2-pentanone (MIBK)	43	8.854	8.854	0.000	97	221045	100.0	104.7	
73 Toluene	91	9.048	9.048	0.000	98	527825	50.0	55.2	
74 trans-1,3-Dichloropropene	75	9.292	9.292	0.000	98	128942	50.0	49.2	
75 Ethyl methacrylate	69	9.347	9.347	0.000	92	122480	50.0	50.8	
76 1,1,2-Trichloroethane	97	9.493	9.493	0.000	94	88732	50.0	51.1	
77 Tetrachloroethene	164	9.566	9.566	0.000	94	90521	50.0	53.0	
78 1,3-Dichloropropane	76	9.651	9.651	0.000	94	164779	50.0	51.0	
79 2-Hexanone	43	9.687	9.687	0.000	97	123231	100.0	102.3	
81 Chlorodibromomethane	129	9.864	9.864	0.000	91	75589	50.0	51.3	
82 Ethylene Dibromide	107	9.985	9.985	0.000	98	81540	50.0	51.6	
83 3-Chlorobenzotrifluoride	180	10.429	10.429	0.000	93	189015	50.0	56.8	
84 Chlorobenzene	112	10.472	10.472	0.000	90	319491	50.0	53.5	
85 4-Chlorobenzotrifluoride	180	10.521	10.521	0.000	97	170754	50.0	55.1	
87 Ethylbenzene	106	10.563	10.563	0.000	99	193055	50.0	53.9	
86 1,1,1,2-Tetrachloroethane	131	10.563	10.563	0.000	80	108450	50.0	52.7	
88 m-Xylene & p-Xylene	106	10.697	10.697	0.000	99	235617	50.0	53.3	
89 o-Xylene	106	11.080	11.080	0.000	96	251637	50.0	55.4	
90 Styrene	104	11.099	11.099	0.000	94	362245	50.0	54.2	
91 Bromoform	173	11.287	11.287	0.000	96	39579	50.0	50.1	
92 2-Chlorobenzotrifluoride	180	11.342	11.342	0.000	95	192703	50.0	55.5	
93 Isopropylbenzene	105	11.451	11.451	0.000	97	633598	50.0	56.6	
96 1,1,2,2-Tetrachloroethane	83	11.756	11.756	0.000	96	122215	50.0	52.3	
95 Bromobenzene	156	11.768	11.768	0.000	96	135116	50.0	50.0	
97 trans-1,4-Dichloro-2-buten	53	11.792	11.792	0.000	70	34948	50.0	46.0	
98 1,2,3-Trichloropropane	110	11.810	11.810	0.000	85	40329	50.0	51.0	
99 N-Propylbenzene	120	11.871	11.871	0.000	99	168244	50.0	52.1	
100 2-Chlorotoluene	126	11.956	11.956	0.000	94	141092	50.0	49.6	
101 3-Chlorotoluene	126	12.023	12.023	0.000	96	156510	50.0	52.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.048	12.048	0.000	94	548969	50.0	52.9	
103 4-Chlorotoluene	126	12.078	12.078	0.000	99	144067	50.0	49.3	
104 tert-Butylbenzene	119	12.364	12.364	0.000	92	409657	50.0	50.7	
106 1,2,4-Trimethylbenzene	105	12.425	12.425	0.000	98	571367	50.0	53.2	
107 1,2-dichloro-4-(trifluorom	214	12.455	12.455	0.000	97	158534	50.0	52.8	
108 sec-Butylbenzene	105	12.589	12.589	0.000	95	675141	50.0	54.1	
109 1,3-Dichlorobenzene	146	12.711	12.711	0.000	95	272251	50.0	51.4	
110 4-Isopropyltoluene	119	12.741	12.741	0.000	96	531099	50.0	52.4	
111 1,4-Dichlorobenzene	146	12.814	12.814	0.000	92	272272	50.0	49.7	
113 2,4-Dichloro-1-(trifluorom	214	12.826	12.826	0.000	57	168861	50.0	56.1	
114 2,5-Dichlorobenzotrifluori	214	12.869	12.869	0.000	97	166815	50.0	50.3	
116 n-Butylbenzene	91	13.155	13.155	0.000	98	514864	50.0	52.8	
117 1,2-Dichlorobenzene	146	13.173	13.173	0.000	95	272148	50.0	51.4	
118 1,2-Dibromo-3-Chloropropan	75	13.958	13.964	-0.006	76	20104	50.0	47.6	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.104	14.104	0.000	99	818401	150.0	164.7	
121 2,3- & 3,4- Dichlorotoluen	125	14.518	14.518	0.000	99	576450	100.0	106.2	
122 1,2,4-Trichlorobenzene	180	14.791	14.791	0.000	94	203185	50.0	49.6	
123 Hexachlorobutadiene	225	14.931	14.931	0.000	96	81412	50.0	50.8	
124 Naphthalene	128	15.053	15.053	0.000	98	357281	50.0	50.7	
125 1,2,3-Trichlorobenzene	180	15.278	15.278	0.000	94	168045	50.0	49.0	
126 2,4,5-Trichlorotoluene	159	16.044	16.044	0.000	0	125544	50.0	49.7	
127 2,3,6-Trichlorotoluene	159	16.148	16.148	0.000	95	113503	50.0	50.4	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		100.0	100.5	
S 131 Xylenes, Total	106				0		100.0	108.7	
S 132 1,3-Dichloropropene, Total	1				0		100.0	95.1	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00029	Amount Added: 2.00	Units: uL	
voaWeemixpri_00001	Amount Added: 2.00	Units: uL	
voaWVApri Res_00001	Amount Added: 2.00	Units: uL	
VOAKETONEPRI_00003	Amount Added: 2.00	Units: uL	
VOA8260VOAPRI_00097	Amount Added: 2.00	Units: uL	
voaWAcropri R_00006	Amount Added: 6.00	Units: uL	
VOA8260INT_00027	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128008.D

Injection Date: 28-Jan-2015 14:45:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: ICIS VSTD10

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

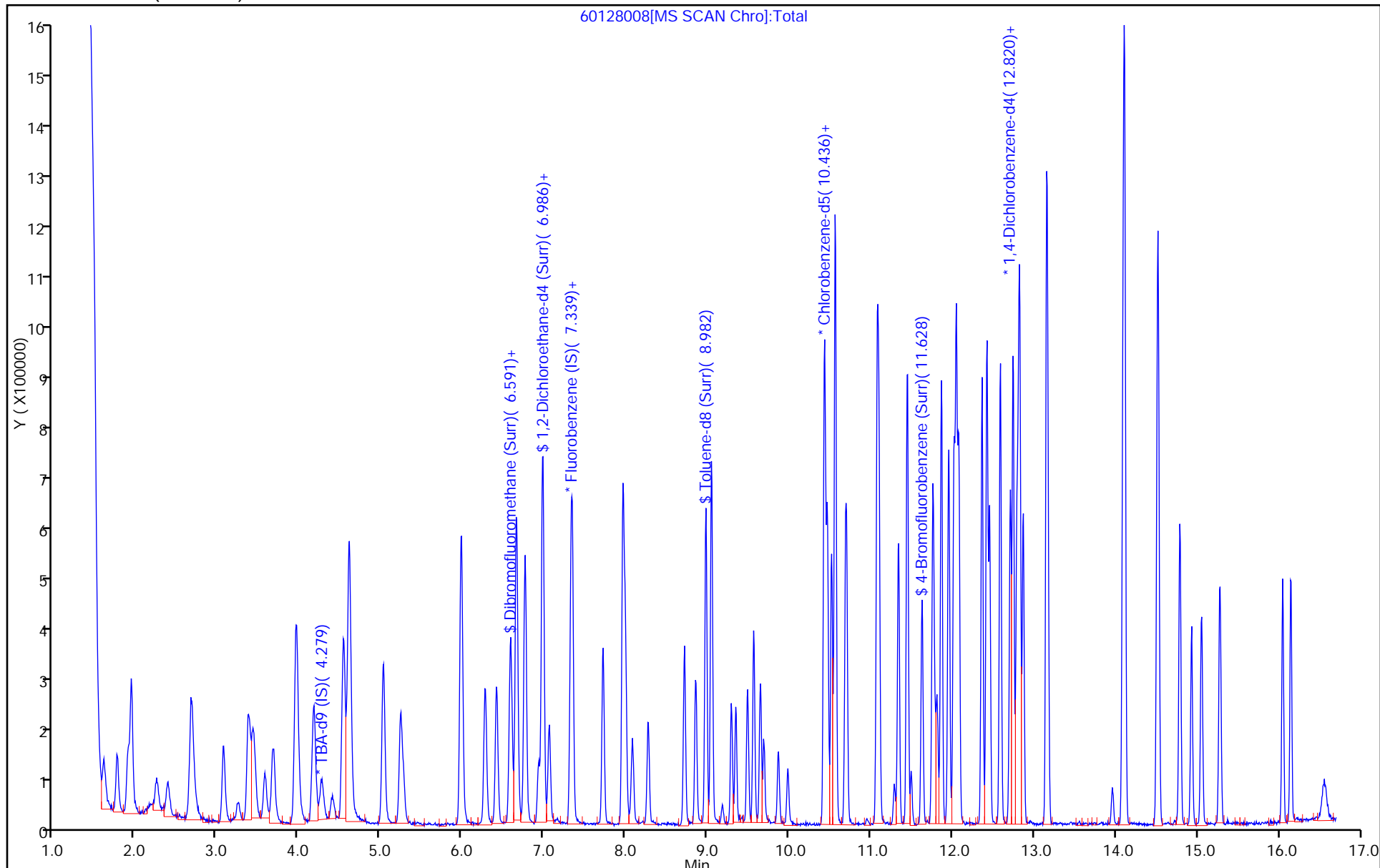
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



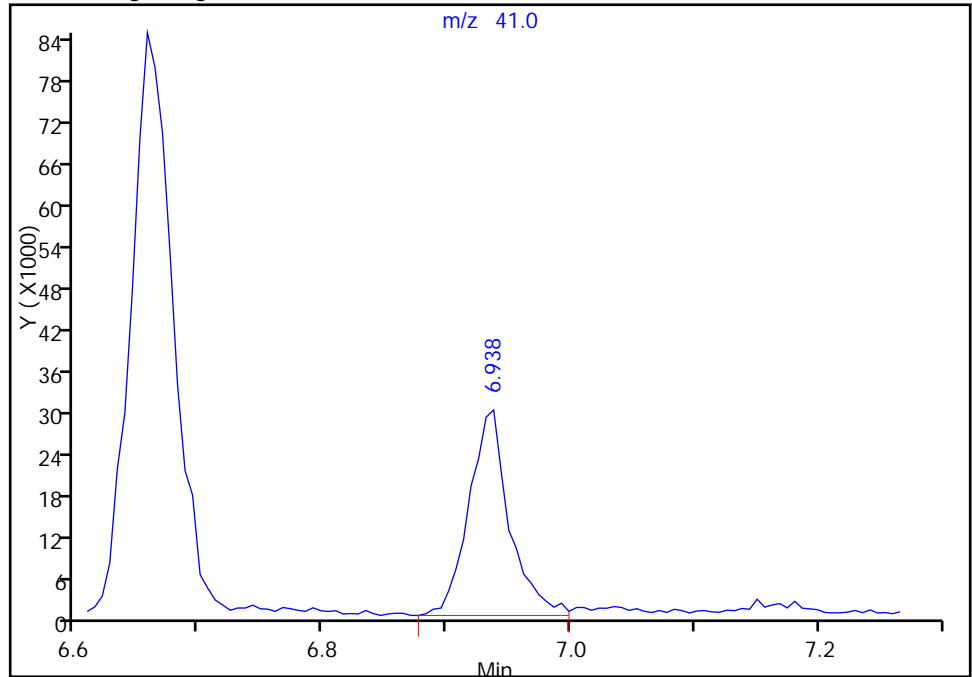
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128008.D
Injection Date: 28-Jan-2015 14:45:30 Instrument ID: CHHP6
Lims ID: ICIS VSTD10
Client ID:
Operator ID: 001562 ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

55 Isobutyl alcohol, CAS: 78-83-1

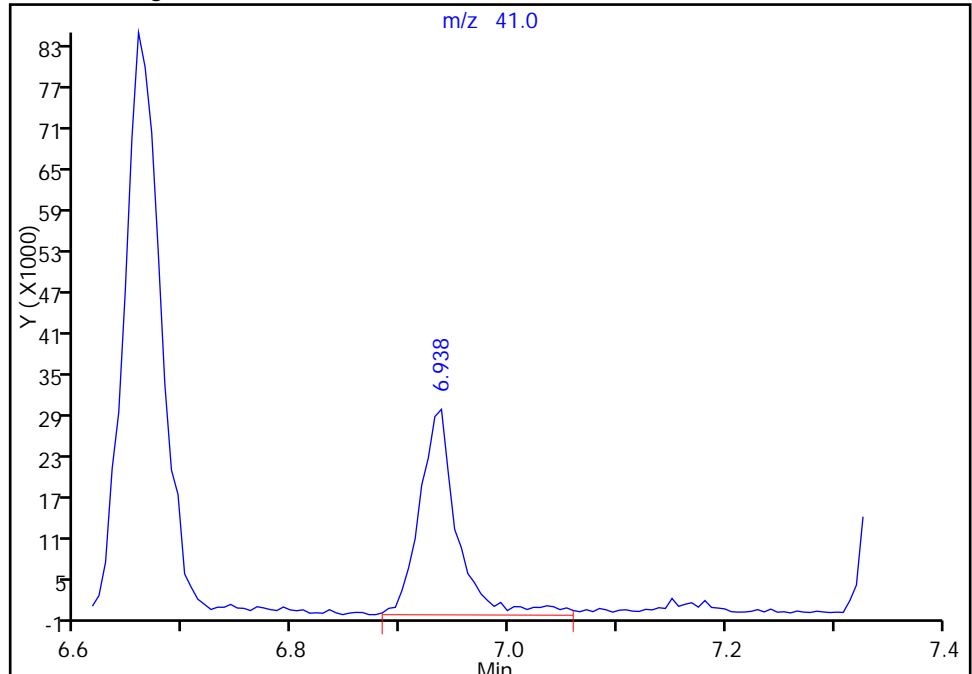
RT: 6.94
Area: 67676
Amount: 1108.5181
Amount Units: ng

Processing Integration Results



RT: 6.94
Area: 71829
Amount: 1206.0150
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 29-Jan-2015 11:08:50
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128009.D
 Lims ID: IC VSTD15
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 28-Jan-2015 15:09:30 ALS Bottle#: 7 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD15
 Misc. Info.: 180-0005450-009
 Operator ID: 001562 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub5
 Method: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 29-Jan-2015 12:59:10 Calib Date: 28-Jan-2015 16:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: fergusond

Date: 29-Jan-2015 10:51:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.278	4.278	0.000	96	177406	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.326	7.326	0.000	98	494191	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.440	10.440	0.000	92	111156	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.789	12.789	0.000	95	163776	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.596	6.596	0.000	93	157502	75.0	70.5	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.973	6.973	0.000	69	241234	75.0	75.4	
\$ 7 Toluene-d8 (Surr)	98	8.980	8.980	0.000	93	661202	75.0	75.5	
\$ 8 4-Bromofluorobenzene (Surr	95	11.627	11.627	0.000	83	269743	75.0	72.4	
11 Dichlorodifluoromethane	85	1.607	1.607	0.000	99	178504	75.0	68.2	
12 Chloromethane	50	1.759	1.759	0.000	99	283765	75.0	70.5	
13 Vinyl chloride	62	1.893	1.893	0.000	98	249364	75.0	69.9	
14 Butadiene	39	1.936	1.936	0.000	92	257326	75.0	67.5	
15 Bromomethane	94	2.240	2.240	0.000	92	100551	75.0	70.2	M
16 Chloroethane	64	2.380	2.380	0.000	99	150069	75.0	68.6	
17 Dichlorofluoromethane	67	2.666	2.666	0.000	96	358712	75.0	68.8	
18 Trichlorofluoromethane	101	2.684	2.684	0.000	68	264073	75.0	64.7	
20 Ethyl ether	59	3.067	3.067	0.000	95	219655	75.0	70.6	
21 Acrolein	56	3.244	3.244	0.000	99	85368	175.0	172.8	
22 1,1-Dichloroethene	96	3.365	3.365	0.000	92	180761	75.0	65.1	
23 1,1,2-Trichloro-1,2,2-trif	101	3.426	3.426	0.000	96	190645	75.0	67.9	
24 Acetone	43	3.451	3.451	0.000	99	126400	150.0	144.6	
25 Iodomethane	142	3.578	3.578	0.000	98	276926	75.0	67.4	
26 Carbon disulfide	76	3.676	3.676	0.000	100	538178	75.0	65.5	
29 3-Chloro-1-propene	76	3.956	3.956	0.000	70	119671	75.0	66.4	
30 Methyl acetate	43	3.962	3.962	0.000	97	795107	375.0	371.6	
31 Methylene Chloride	84	4.175	4.175	0.000	98	255870	75.0	63.1	
32 2-Methyl-2-propanol	59	4.412	4.412	0.000	94	157863	750.0	787.4	
33 Acrylonitrile	53	4.540	4.540	0.000	99	825638	750.0	740.0	
34 trans-1,2-Dichloroethene	96	4.613	4.613	0.000	72	227148	75.0	68.0	
35 Methyl tert-butyl ether	73	4.613	4.613	0.000	98	611806	75.0	69.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	5.026	5.026	0.000	95	351514	75.0	73.1	
37 1,1-Dichloroethane	63	5.239	5.239	0.000	97	443424	75.0	68.6	
38 Vinyl acetate	43	5.276	5.276	0.000	97	264095	75.0	78.6	
44 2-Butanone (MEK)	43	5.975	5.975	0.000	77	198782	150.0	177.4	
43 cis-1,2-Dichloroethene	96	5.981	5.981	0.000	86	240979	75.0	68.0	
42 2,2-Dichloropropane	77	5.987	5.987	0.000	64	241640	75.0	65.9	
49 Tetrahydrofuran	42	6.279	6.279	0.000	83	119820	150.0	148.8	
48 Chlorobromomethane	128	6.279	6.279	0.000	91	100988	75.0	71.6	
50 Chloroform	83	6.419	6.419	0.000	94	381367	75.0	68.5	
51 1,1,1-Trichloroethane	97	6.584	6.584	0.000	97	294109	75.0	69.4	
52 Cyclohexane	56	6.657	6.657	0.000	96	456085	75.0	66.8	
53 Carbon tetrachloride	117	6.760	6.760	0.000	96	218554	75.0	65.9	
54 1,1-Dichloropropene	75	6.766	6.766	0.000	93	307766	75.0	72.8	
55 Isobutyl alcohol	41	6.936	6.936	0.000	95	137058	1875.0	2084.8	
56 Benzene	78	6.985	6.985	0.000	98	924844	75.0	75.4	
57 1,2-Dichloroethane	62	7.058	7.058	0.000	97	302310	75.0	75.0	
59 n-Heptane	43	7.350	7.350	0.000	94	290134	75.0	74.2	
61 Trichloroethene	130	7.721	7.721	0.000	96	208800	75.0	74.7	
63 Methylcyclohexane	83	7.965	7.965	0.000	94	375853	75.0	68.3	
64 1,2-Dichloropropane	63	7.995	7.995	0.000	88	246898	75.0	76.0	
65 1,4-Dioxane	88	8.074	8.074	0.000	48	33822	1500.0	1665.1	M
67 Dibromomethane	93	8.080	8.080	0.000	97	106863	75.0	73.6	
68 Dichlorobromomethane	83	8.275	8.275	0.000	98	255826	75.0	75.2	
71 cis-1,3-Dichloropropene	75	8.719	8.719	0.000	92	306111	75.0	78.4	
72 4-Methyl-2-pentanone (MIBK)	43	8.853	8.853	0.000	98	401820	150.0	160.2	
73 Toluene	91	9.047	9.047	0.000	98	865706	75.0	76.2	
74 trans-1,3-Dichloropropene	75	9.291	9.291	0.000	96	258221	75.0	82.9	
75 Ethyl methacrylate	69	9.345	9.345	0.000	91	227823	75.0	79.4	
76 1,1,2-Trichloroethane	97	9.491	9.491	0.000	92	154194	75.0	74.7	
77 Tetrachloroethene	164	9.564	9.564	0.000	95	152121	75.0	75.0	
78 1,3-Dichloropropane	76	9.650	9.650	0.000	92	309767	75.0	80.7	
79 2-Hexanone	43	9.692	9.692	0.000	98	230885	150.0	161.4	
81 Chlorodibromomethane	129	9.869	9.869	0.000	90	134047	75.0	76.5	
82 Ethylene Dibromide	107	9.984	9.984	0.000	100	149846	75.0	79.8	
83 3-Chlorobenzotrifluoride	180	10.428	10.428	0.000	93	275294	75.0	69.6	
84 Chlorobenzene	112	10.471	10.471	0.000	91	533675	75.0	75.2	
85 4-Chlorobenzotrifluoride	180	10.520	10.520	0.000	97	261287	75.0	71.0	
87 Ethylbenzene	106	10.568	10.568	0.000	98	309783	75.0	72.8	
86 1,1,1,2-Tetrachloroethane	131	10.562	10.562	0.000	91	178444	75.0	73.0	
88 m-Xylene & p-Xylene	106	10.702	10.702	0.000	99	393071	75.0	74.8	
89 o-Xylene	106	11.079	11.079	0.000	97	395578	75.0	73.3	
90 Styrene	104	11.098	11.098	0.000	94	596747	75.0	75.1	
91 Bromoform	173	11.292	11.292	0.000	95	65704	75.0	70.0	
92 2-Chlorobenzotrifluoride	180	11.341	11.341	0.000	96	290061	75.0	70.3	
93 Isopropylbenzene	105	11.444	11.444	0.000	98	955292	75.0	71.8	
96 1,1,2,2-Tetrachloroethane	83	11.755	11.755	0.000	95	203512	75.0	73.3	
95 Bromobenzene	156	11.767	11.767	0.000	97	223525	75.0	78.0	
97 trans-1,4-Dichloro-2-buten	53	11.791	11.791	0.000	74	61317	75.0	76.1	
98 1,2,3-Trichloropropane	110	11.815	11.815	0.000	84	67823	75.0	80.8	
99 N-Propylbenzene	120	11.864	11.864	0.000	98	262417	75.0	76.6	
100 2-Chlorotoluene	126	11.955	11.955	0.000	94	221515	75.0	73.4	
101 3-Chlorotoluene	126	12.022	12.022	0.000	96	236047	75.0	74.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.047	12.047	0.000	93	836492	75.0	76.0	
103 4-Chlorotoluene	126	12.083	12.083	0.000	98	231900	75.0	74.9	
104 tert-Butylbenzene	119	12.363	12.363	0.000	92	663124	75.0	77.4	
106 1,2,4-Trimethylbenzene	105	12.424	12.424	0.000	98	854880	75.0	75.0	
107 1,2-dichloro-4-(trifluorom	214	12.460	12.460	0.000	97	230038	75.0	72.3	
108 sec-Butylbenzene	105	12.588	12.588	0.000	96	1021731	75.0	77.1	
109 1,3-Dichlorobenzene	146	12.710	12.710	0.000	93	404796	75.0	72.1	
110 4-Isopropyltoluene	119	12.740	12.740	0.000	96	816686	75.0	76.0	
111 1,4-Dichlorobenzene	146	12.813	12.813	0.000	92	431926	75.0	74.3	
113 2,4-Dichloro-1-(trifluorom	214	12.831	12.831	0.000	96	236290	75.0	74.0	
114 2,5-Dichlorobenzotrifluori	214	12.868	12.868	0.000	98	251951	75.0	71.6	
116 n-Butylbenzene	91	13.154	13.154	0.000	97	782657	75.0	75.7	
117 1,2-Dichlorobenzene	146	13.166	13.166	0.000	92	413439	75.0	73.6	
118 1,2-Dibromo-3-Chloropropan	75	13.957	13.963	-0.006	79	31840	75.0	71.0	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.103	14.103	0.000	98	1177478	225.0	223.4	
121 2,3- & 3,4- Dichlorotoluen	125	14.516	14.516	0.000	99	856615	150.0	148.8	
122 1,2,4-Trichlorobenzene	180	14.784	14.784	0.000	93	332715	75.0	76.5	
123 Hexachlorobutadiene	225	14.930	14.930	0.000	95	127169	75.0	74.8	
124 Naphthalene	128	15.052	15.052	0.000	98	596683	75.0	79.8	
125 1,2,3-Trichlorobenzene	180	15.277	15.277	0.000	94	279103	75.0	76.7	
126 2,4,5-Trichlorotoluene	159	16.049	16.049	0.000	0	192318	75.0	71.8	
127 2,3,6-Trichlorotoluene	159	16.147	16.147	0.000	93	170378	75.0	71.4	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		150.0	136.0	
S 131 Xylenes, Total	106				0		150.0	148.1	
S 132 1,3-Dichloropropene, Total	1				0		150.0	161.2	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00029	Amount Added: 3.00	Units: uL	
voaWeemixpri_00001	Amount Added: 3.00	Units: uL	
voaWVApri Res_00001	Amount Added: 3.00	Units: uL	
VOAKETONEPRI_00003	Amount Added: 3.00	Units: uL	
VOA8260VOAPRI_00097	Amount Added: 3.00	Units: uL	
voaWAcropri R_00006	Amount Added: 7.00	Units: uL	
VOA8260INT_00027	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128009.D

Injection Date: 28-Jan-2015 15:09:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: IC VSTD15

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

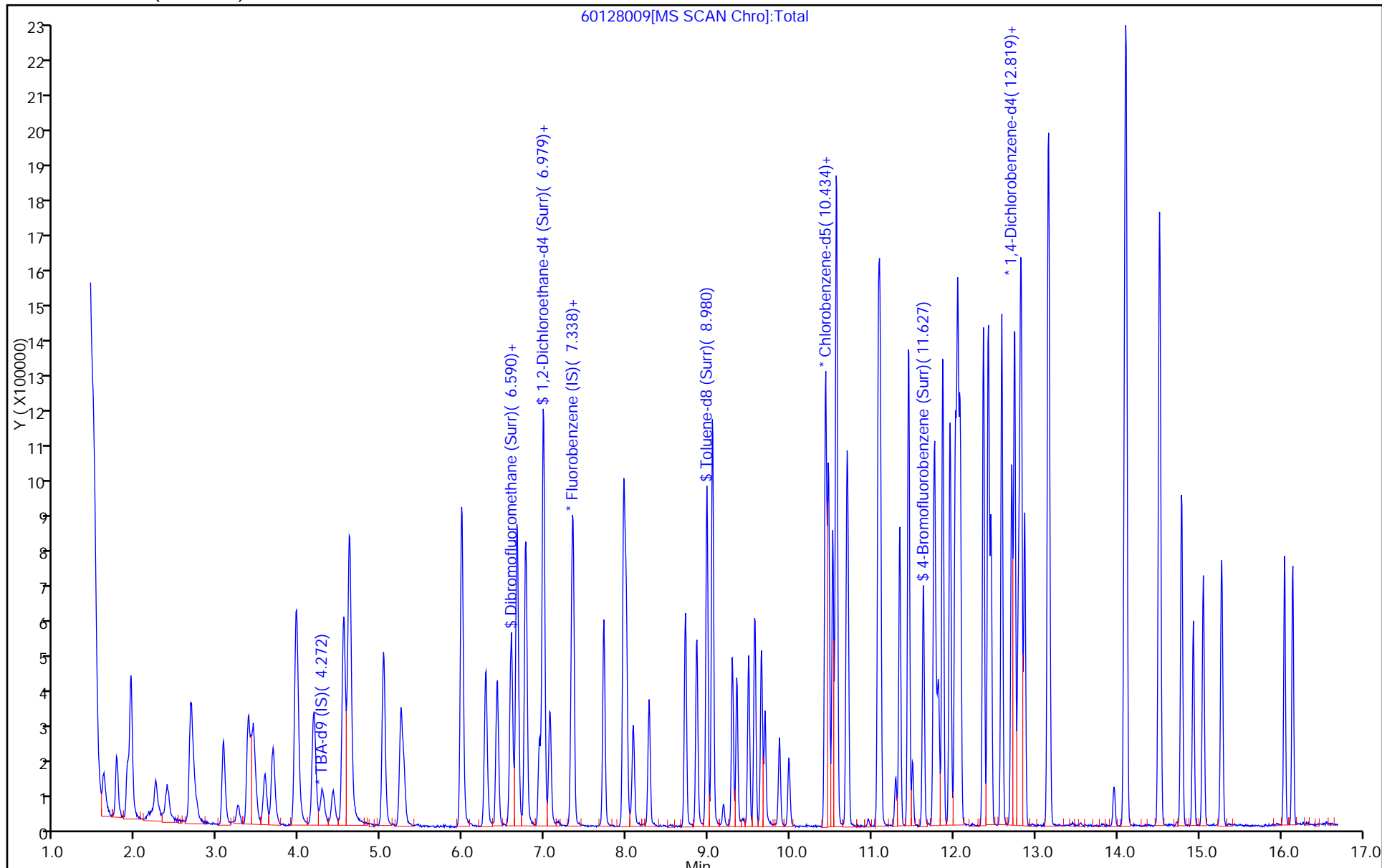
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



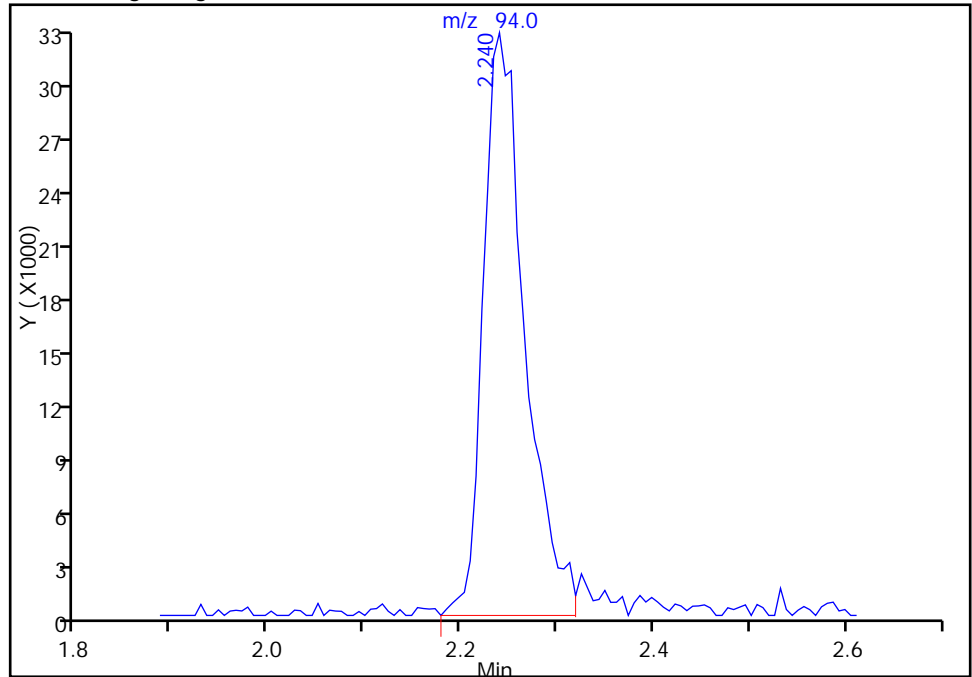
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128009.D
Injection Date: 28-Jan-2015 15:09:30 Instrument ID: CHHP6
Lims ID: IC VSTD15
Client ID:
Operator ID: 001562 ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

15 Bromomethane, CAS: 74-83-9

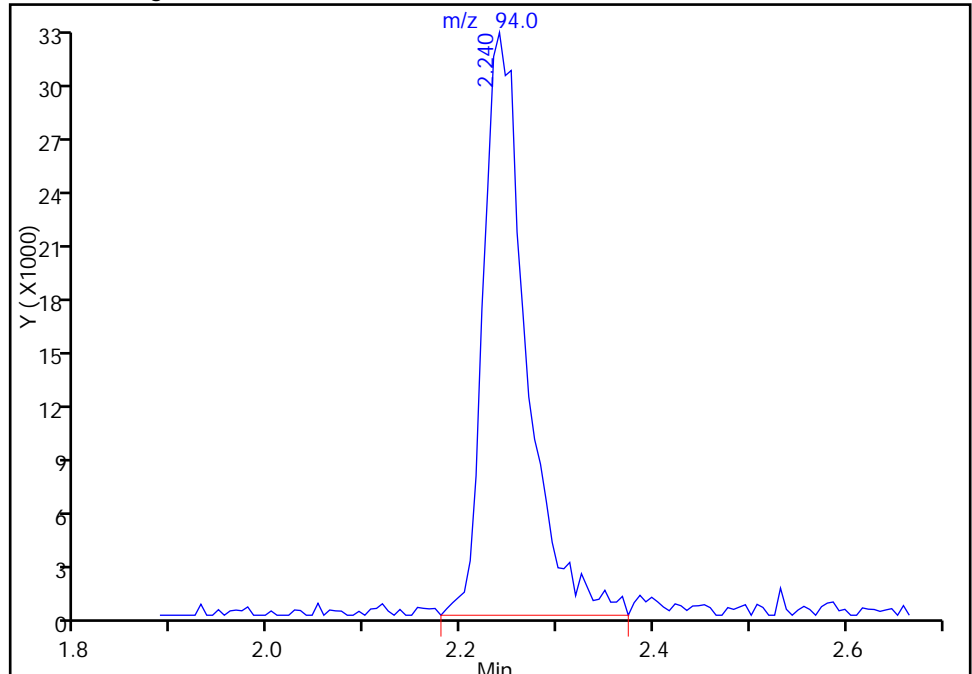
RT: 2.24
Area: 97105
Amount: 68.057558
Amount Units: ng

Processing Integration Results



RT: 2.24
Area: 100551
Amount: 70.190204
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 29-Jan-2015 10:51:24
Audit Action: Manually Integrated
Audit Reason: Peak Tail

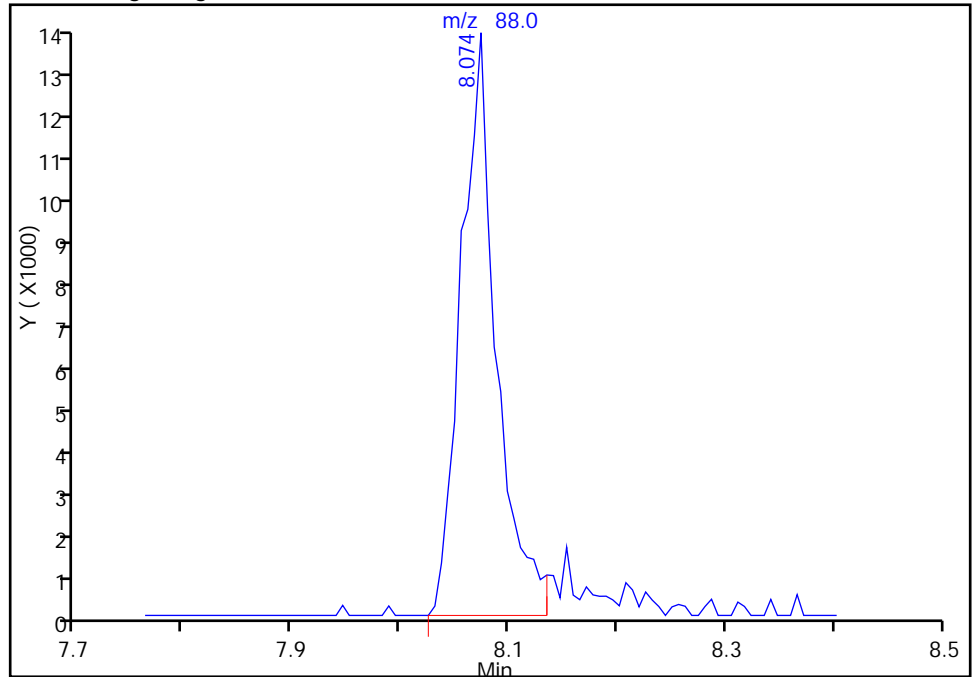
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128009.D
Injection Date: 28-Jan-2015 15:09:30 Instrument ID: CHHP6
Lims ID: IC VSTD15
Client ID:
Operator ID: 001562 ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

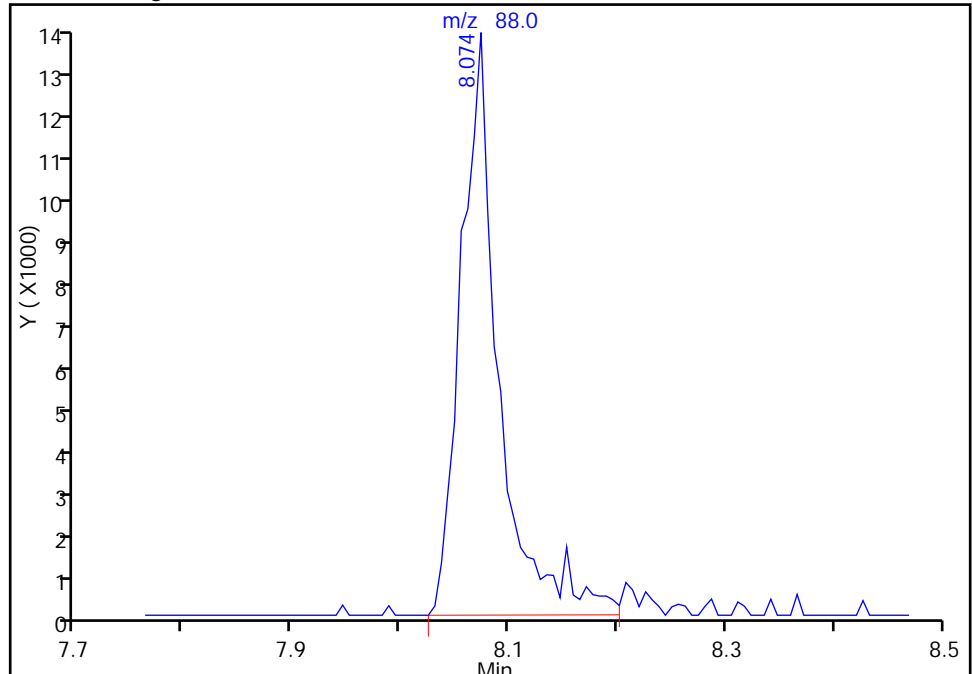
RT: 8.07
Area: 31486
Amount: 1595.6203
Amount Units: ng

Processing Integration Results



RT: 8.07
Area: 33822
Amount: 1665.1175
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 29-Jan-2015 10:54:39
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128010.D
 Lims ID: IC VSTD20
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 28-Jan-2015 15:33:30 ALS Bottle#: 8 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD20
 Misc. Info.: 180-0005450-010
 Operator ID: 001562 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub5
 Method: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 29-Jan-2015 12:59:13 Calib Date: 28-Jan-2015 16:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: fergusond

Date: 29-Jan-2015 10:53:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.274	4.278	-0.004	95	175261	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.328	7.326	0.002	98	439145	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.437	10.440	-0.003	94	96726	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.791	12.789	0.002	95	152427	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.598	6.596	0.002	93	201508	100.0	101.4	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.975	6.973	0.002	70	283354	100.0	99.7	
\$ 7 Toluene-d8 (Surr)	98	8.983	8.980	0.003	93	779639	100.0	102.3	
\$ 8 4-Bromofluorobenzene (Surr	95	11.629	11.627	0.002	83	330292	100.0	101.8	
11 Dichlorodifluoromethane	85	1.604	1.607	-0.003	99	243452	100.0	104.6	
12 Chloromethane	50	1.762	1.759	0.003	99	384421	100.0	107.4	
13 Vinyl chloride	62	1.896	1.893	0.003	98	339939	100.0	107.2	
14 Butadiene	39	1.938	1.936	0.002	91	363197	100.0	107.3	
15 Bromomethane	94	2.242	2.240	0.002	91	133368	100.0	104.8	
16 Chloroethane	64	2.382	2.380	0.002	99	206434	100.0	106.2	
17 Dichlorofluoromethane	67	2.668	2.666	0.002	97	485448	100.0	104.7	
18 Trichlorofluoromethane	101	2.686	2.684	0.002	97	379709	100.0	104.7	
20 Ethyl ether	59	3.064	3.067	-0.003	94	288913	100.0	104.4	
21 Acrolein	56	3.246	3.244	0.002	99	91786	200.0	209.0	
22 1,1-Dichloroethene	96	3.374	3.365	0.009	93	260475	100.0	105.6	
23 1,1,2-Trichloro-1,2,2-trif	101	3.429	3.426	0.003	95	269318	100.0	108.0	
24 Acetone	43	3.453	3.451	0.002	99	156961	200.0	202.1	
25 Iodomethane	142	3.581	3.578	0.003	99	377556	100.0	103.4	
26 Carbon disulfide	76	3.678	3.676	0.002	100	770934	100.0	105.6	
29 3-Chloro-1-propene	76	3.964	3.956	0.008	69	167495	100.0	104.6	
30 Methyl acetate	43	3.964	3.962	0.002	98	1006389	500.0	529.3	
31 Methylene Chloride	84	4.171	4.175	-0.004	98	354231	100.0	98.3	
32 2-Methyl-2-propanol	59	4.414	4.412	0.002	95	196865	1000.0	994.0	
33 Acrylonitrile	53	4.542	4.540	0.002	99	1070950	1000.0	1080.3	
34 trans-1,2-Dichloroethene	96	4.609	4.613	-0.004	74	317224	100.0	106.9	
35 Methyl tert-butyl ether	73	4.615	4.613	0.002	98	828973	100.0	106.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	5.029	5.026	0.003	94	447359	100.0	104.7	
37 1,1-Dichloroethane	63	5.241	5.239	0.002	97	607468	100.0	105.8	
38 Vinyl acetate	43	5.278	5.276	0.002	97	300763	100.0	100.7	
44 2-Butanone (MEK)	43	5.984	5.975	0.009	51	200186	200.0	201.0	
43 cis-1,2-Dichloroethene	96	5.984	5.981	0.003	86	336595	100.0	106.9	
42 2,2-Dichloropropane	77	5.990	5.987	0.003	66	347540	100.0	106.7	
49 Tetrahydrofuran	42	6.282	6.279	0.003	94	146874	200.0	205.3	
48 Chlorobromomethane	128	6.276	6.279	-0.003	94	130848	100.0	104.4	
50 Chloroform	83	6.422	6.419	0.003	94	520205	100.0	105.2	
51 1,1,1-Trichloroethane	97	6.580	6.584	-0.004	97	399010	100.0	105.9	
52 Cyclohexane	56	6.659	6.657	0.002	95	648441	100.0	106.9	
53 Carbon tetrachloride	117	6.762	6.760	0.002	97	317552	100.0	107.7	
54 1,1-Dichloropropene	75	6.768	6.766	0.002	94	397719	100.0	105.8	
55 Isobutyl alcohol	41	6.933	6.936	-0.003	95	166021	2500.0	2841.9	
56 Benzene	78	6.981	6.985	-0.004	98	1144809	100.0	105.0	
57 1,2-Dichloroethane	62	7.067	7.058	0.009	97	373539	100.0	104.3	
59 n-Heptane	43	7.352	7.350	0.002	95	358203	100.0	103.1	
61 Trichloroethene	130	7.724	7.721	0.003	97	256342	100.0	103.2	
63 Methylcyclohexane	83	7.967	7.965	0.002	95	513997	100.0	105.0	
64 1,2-Dichloropropane	63	7.997	7.995	0.002	88	296893	100.0	102.9	
65 1,4-Dioxane	88	8.076	8.074	0.002	43	44901	2000.0	2487.6	M
67 Dibromomethane	93	8.082	8.080	0.002	96	134511	100.0	104.3	
68 Dichlorobromomethane	83	8.277	8.275	0.002	98	313642	100.0	103.7	
71 cis-1,3-Dichloropropene	75	8.721	8.719	0.002	92	373776	100.0	107.7	
72 4-Methyl-2-pentanone (MIBK)	43	8.855	8.853	0.002	97	485147	200.0	222.3	
73 Toluene	91	9.050	9.047	0.003	97	1047433	100.0	105.9	
74 trans-1,3-Dichloropropene	75	9.293	9.291	0.002	96	288597	100.0	106.4	
75 Ethyl methacrylate	69	9.348	9.345	0.003	92	276463	100.0	110.8	
76 1,1,2-Trichloroethane	97	9.494	9.491	0.003	92	186391	100.0	103.8	
77 Tetrachloroethene	164	9.567	9.564	0.003	95	185546	100.0	105.1	
78 1,3-Dichloropropane	76	9.646	9.650	-0.004	94	350761	100.0	105.1	
79 2-Hexanone	43	9.689	9.692	-0.004	97	272392	200.0	218.8	
81 Chlorodibromomethane	129	9.871	9.869	0.002	91	164399	100.0	107.9	
82 Ethylene Dibromide	107	9.987	9.984	0.003	98	173425	100.0	106.2	
83 3-Chlorobenzotrifluoride	180	10.431	10.428	0.003	93	343534	100.0	99.9	
84 Chlorobenzene	112	10.467	10.471	-0.004	90	654919	100.0	106.1	
85 4-Chlorobenzotrifluoride	180	10.522	10.520	0.002	97	321428	100.0	100.4	
87 Ethylbenzene	106	10.565	10.568	-0.003	98	393435	100.0	106.2	
86 1,1,1,2-Tetrachloroethane	131	10.565	10.562	0.003	90	235848	100.0	110.8	
88 m-Xylene & p-Xylene	106	10.698	10.702	-0.004	98	495166	100.0	108.3	
89 o-Xylene	106	11.082	11.079	0.003	97	507675	100.0	108.1	
90 Styrene	104	11.100	11.098	0.002	93	743239	100.0	107.5	
91 Bromoform	173	11.288	11.292	-0.004	94	85273	100.0	104.5	
92 2-Chlorobenzotrifluoride	180	11.337	11.341	-0.004	96	373509	100.0	104.1	
93 Isopropylbenzene	105	11.447	11.444	0.003	98	1262379	100.0	109.0	
96 1,1,2,2-Tetrachloroethane	83	11.757	11.755	0.002	96	254135	100.0	105.3	
95 Bromobenzene	156	11.763	11.767	-0.004	98	278729	100.0	104.5	
97 trans-1,4-Dichloro-2-buten	53	11.787	11.791	-0.004	73	77586	100.0	103.4	
98 1,2,3-Trichloropropane	110	11.812	11.815	-0.003	86	81476	100.0	104.3	
99 N-Propylbenzene	120	11.866	11.864	0.002	98	331379	100.0	104.0	
100 2-Chlorotoluene	126	11.958	11.955	0.003	95	293005	100.0	104.3	
101 3-Chlorotoluene	126	12.018	12.022	-0.004	96	292985	100.0	99.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.049	12.047	0.002	94	1105314	100.0	107.9	
103 4-Chlorotoluene	126	12.079	12.083	-0.004	99	300726	100.0	104.3	
104 tert-Butylbenzene	119	12.365	12.363	0.002	92	842934	100.0	105.7	
106 1,2,4-Trimethylbenzene	105	12.426	12.424	0.002	99	1135474	100.0	107.1	
107 1,2-dichloro-4-(trifluorom	214	12.456	12.460	-0.004	97	301633	100.0	101.8	
108 sec-Butylbenzene	105	12.584	12.588	-0.004	96	1323132	100.0	107.3	
109 1,3-Dichlorobenzene	146	12.712	12.710	0.002	95	545480	100.0	104.4	
110 4-Isopropyltoluene	119	12.742	12.740	0.002	95	1069888	100.0	107.0	
111 1,4-Dichlorobenzene	146	12.815	12.813	0.002	90	558588	100.0	103.3	
113 2,4-Dichloro-1-(trifluorom	214	12.828	12.831	-0.003	96	295903	100.0	99.5	
114 2,5-Dichlorobenzotrifluori	214	12.870	12.868	0.002	98	347814	100.0	106.1	
116 n-Butylbenzene	91	13.150	13.154	-0.004	96	1045083	100.0	108.7	
117 1,2-Dichlorobenzene	146	13.168	13.166	0.002	93	540869	100.0	103.5	
118 1,2-Dibromo-3-Chloropropan	75	13.953	13.963	-0.010	75	42357	100.0	101.5	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.105	14.103	0.002	98	1526957	300.0	311.3	
121 2,3- & 3,4- Dichlorotoluen	125	14.519	14.516	0.003	99	1109689	200.0	207.1	
122 1,2,4-Trichlorobenzene	180	14.786	14.784	0.002	93	428696	100.0	105.9	
123 Hexachlorobutadiene	225	14.932	14.930	0.002	96	168186	100.0	106.2	
124 Naphthalene	128	15.048	15.052	-0.004	98	746148	100.0	107.3	
125 1,2,3-Trichlorobenzene	180	15.279	15.277	0.002	95	359783	100.0	106.3	
126 2,4,5-Trichlorotoluene	159	16.046	16.049	-0.003	0	253456	100.0	101.7	
127 2,3,6-Trichlorotoluene	159	16.143	16.147	-0.004	93	223585	100.0	100.7	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		200.0	213.8	
S 131 Xylenes, Total	106				0		200.0	216.4	
S 132 1,3-Dichloropropene, Total	1				0		200.0	214.1	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00029	Amount Added: 4.00	Units: uL	
voaWeemixpri_00001	Amount Added: 4.00	Units: uL	
voaWVApri Res_00001	Amount Added: 4.00	Units: uL	
VOAKETONEPRI_00003	Amount Added: 4.00	Units: uL	
VOA8260VOAPRI_00097	Amount Added: 4.00	Units: uL	
voaWAcropri R_00006	Amount Added: 8.00	Units: uL	
VOA8260INT_00027	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128010.D

Injection Date: 28-Jan-2015 15:33:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: IC VSTD20

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

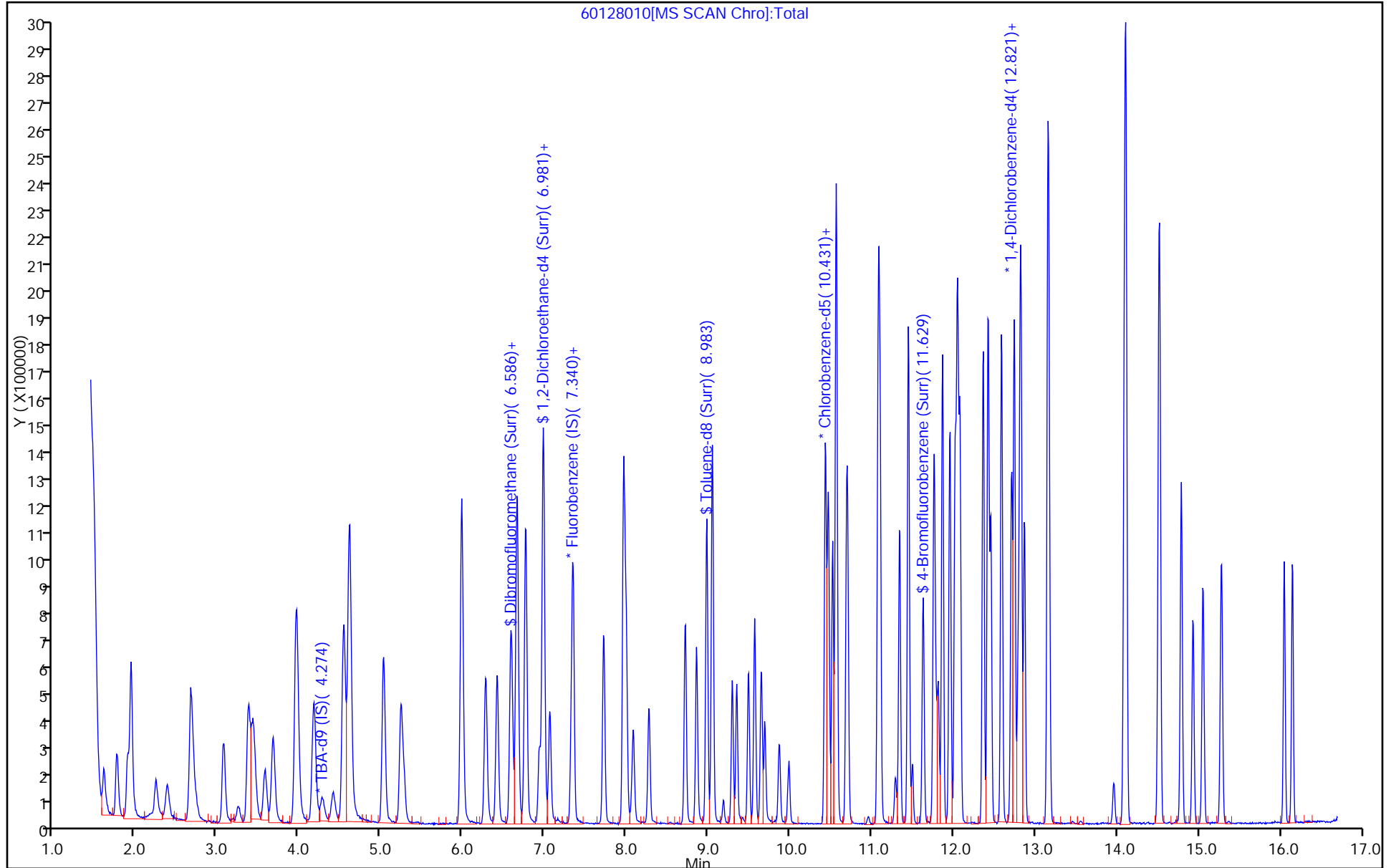
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



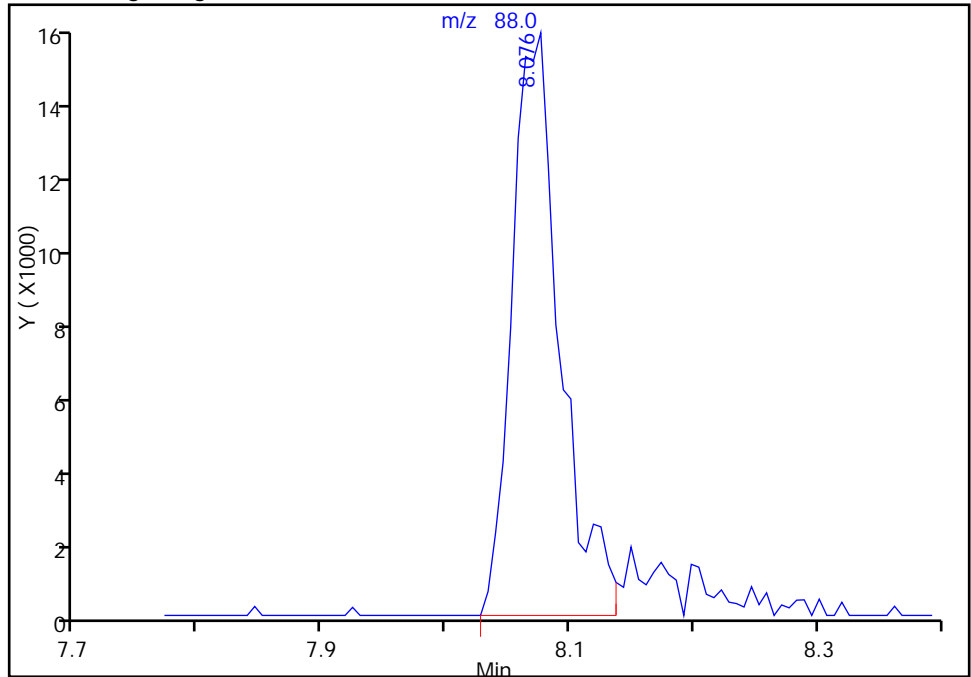
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128010.D
Injection Date: 28-Jan-2015 15:33:30 Instrument ID: CHHP6
Lims ID: IC VSTD20
Client ID:
Operator ID: 001562 ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

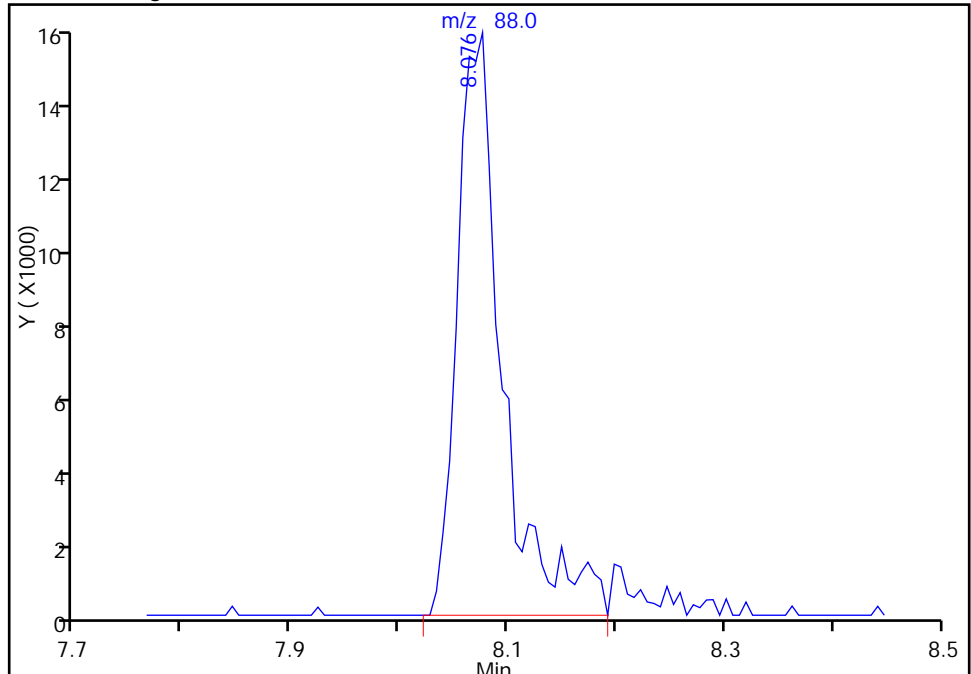
RT: 8.08
Area: 41652
Amount: 2341.8822
Amount Units: ng

Processing Integration Results



RT: 8.08
Area: 44901
Amount: 2487.6456
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 29-Jan-2015 10:53:28
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128011.D
 Lims ID: IC VSTD35
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 28-Jan-2015 15:57:30 ALS Bottle#: 9 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD35
 Misc. Info.: 180-0005450-011
 Operator ID: 001562 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub5
 Method: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 29-Jan-2015 12:59:14 Calib Date: 28-Jan-2015 16:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: fergusond

Date: 29-Jan-2015 10:59:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.280	4.278	0.002	94	166250	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.328	7.326	0.002	98	444059	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.436	10.440	-0.004	91	106771	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.791	12.789	0.002	95	156653	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.598	6.596	0.002	93	356892	175.0	177.7	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.975	6.973	0.002	71	492507	175.0	171.3	
\$ 7 Toluene-d8 (Surr)	98	8.982	8.980	0.002	93	1290581	175.0	153.4	
\$ 8 4-Bromofluorobenzene (Surr	95	11.629	11.627	0.002	83	562972	175.0	157.2	
11 Dichlorodifluoromethane	85	1.609	1.607	0.002	100	399376	175.0	169.7	
12 Chloromethane	50	1.767	1.759	0.008	99	623186	175.0	172.2	
13 Vinyl chloride	62	1.895	1.893	0.002	97	551705	175.0	172.0	
14 Butadiene	39	1.938	1.936	0.002	89	555574	175.0	162.3	
15 Bromomethane	94	2.242	2.240	0.002	91	214591	175.0	166.7	
16 Chloroethane	64	2.382	2.380	0.002	99	335043	175.0	170.4	
17 Dichlorofluoromethane	67	2.662	2.666	-0.004	97	781500	175.0	166.7	
18 Trichlorofluoromethane	101	2.680	2.684	-0.004	97	608185	175.0	165.8	
20 Ethyl ether	59	3.069	3.067	0.002	95	482160	175.0	172.4	
21 Acrolein	56	3.252	3.244	0.008	97	103226	225.0	232.5	
22 1,1-Dichloroethene	96	3.373	3.365	0.008	94	430377	175.0	172.6	
23 1,1,2-Trichloro-1,2,2-trif	101	3.428	3.426	0.002	96	437728	175.0	173.6	
24 Acetone	43	3.453	3.451	0.002	100	280558	350.0	357.2	
25 Iodomethane	142	3.580	3.578	0.002	98	651846	175.0	176.5	
26 Carbon disulfide	76	3.678	3.676	0.002	100	1309070	175.0	177.3	
29 3-Chloro-1-propene	76	3.957	3.956	0.001	73	292881	175.0	180.9	
30 Methyl acetate	43	3.964	3.962	0.002	97	1703104	875.0	885.9	
31 Methylene Chloride	84	4.170	4.175	-0.005	98	585012	175.0	160.5	
32 2-Methyl-2-propanol	59	4.408	4.412	-0.004	96	335472	1750.0	1785.6	
33 Acrylonitrile	53	4.541	4.540	0.001	98	1763284	1750.0	1758.9	
34 trans-1,2-Dichloroethene	96	4.614	4.613	0.001	74	523513	175.0	174.4	
35 Methyl tert-butyl ether	73	4.614	4.613	0.001	98	1446119	175.0	183.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	5.028	5.026	0.002	93	739493	175.0	171.2	
37 1,1-Dichloroethane	63	5.241	5.239	0.002	96	1008065	175.0	173.6	
38 Vinyl acetate	43	5.278	5.276	0.002	97	509076	175.0	168.6	
44 2-Butanone (MEK)	43	5.983	5.975	0.008	50	363723	350.0	361.2	
43 cis-1,2-Dichloroethene	96	5.983	5.981	0.002	84	557043	175.0	175.0	
42 2,2-Dichloropropane	77	5.983	5.987	-0.004	65	582789	175.0	177.0	
49 Tetrahydrofuran	42	6.287	6.279	0.008	93	245422	350.0	339.2	
48 Chlorobromomethane	128	6.275	6.279	-0.004	92	225087	175.0	177.6	
50 Chloroform	83	6.415	6.419	-0.004	94	891515	175.0	178.3	
51 1,1,1-Trichloroethane	97	6.586	6.584	0.002	97	690974	175.0	181.4	
52 Cyclohexane	56	6.659	6.657	0.002	95	1042561	175.0	169.9	
53 Carbon tetrachloride	117	6.762	6.760	0.002	96	533960	175.0	179.1	
54 1,1-Dichloropropene	75	6.774	6.766	0.008	95	650661	175.0	171.2	
55 Isobutyl alcohol	41	6.938	6.936	0.002	94	280190	4375.0	4743.2	
56 Benzene	78	6.987	6.985	0.002	99	1858516	175.0	168.6	
57 1,2-Dichloroethane	62	7.066	7.058	0.008	96	620987	175.0	171.5	
59 n-Heptane	43	7.346	7.350	-0.004	93	583751	175.0	166.2	
61 Trichloroethene	130	7.723	7.721	0.002	95	416102	175.0	165.7	
63 Methylcyclohexane	83	7.966	7.965	0.001	95	840990	175.0	170.0	
64 1,2-Dichloropropane	63	7.997	7.995	0.002	88	511401	175.0	175.3	
65 1,4-Dioxane	88	8.076	8.074	0.002	42	66654	3500.0	3652.0	M
67 Dibromomethane	93	8.082	8.080	0.002	96	236358	175.0	181.3	
68 Dichlorobromomethane	83	8.277	8.275	0.002	98	552260	175.0	180.6	
71 cis-1,3-Dichloropropene	75	8.721	8.719	0.002	92	638776	175.0	182.0	
72 4-Methyl-2-pentanone (MIBK)	43	8.861	8.853	0.008	96	833434	350.0	346.0	
73 Toluene	91	9.049	9.047	0.002	96	1693226	175.0	155.1	
74 trans-1,3-Dichloropropene	75	9.293	9.291	0.002	97	519690	175.0	173.6	
75 Ethyl methacrylate	69	9.347	9.345	0.002	91	469489	175.0	170.4	
76 1,1,2-Trichloroethane	97	9.493	9.491	0.002	93	318177	175.0	160.5	
77 Tetrachloroethene	164	9.566	9.564	0.002	94	297552	175.0	152.6	
78 1,3-Dichloropropane	76	9.652	9.650	0.002	95	590770	175.0	160.3	
79 2-Hexanone	43	9.694	9.692	0.002	96	471926	350.0	343.4	
81 Chlorodibromomethane	129	9.871	9.869	0.002	92	296438	175.0	176.2	
82 Ethylene Dibromide	107	9.986	9.984	0.002	98	302375	175.0	167.7	
83 3-Chlorobenzotrifluoride	180	10.430	10.428	0.002	93	590382	175.0	155.5	
84 Chlorobenzene	112	10.473	10.471	0.002	89	1077548	175.0	158.2	
85 4-Chlorobenzotrifluoride	180	10.522	10.520	0.002	96	561945	175.0	159.0	
86 1,1,1,2-Tetrachloroethane	131	10.564	10.562	0.002	92	418399	175.0	178.1	
87 Ethylbenzene	106	10.570	10.568	0.002	97	656339	175.0	160.6	
88 m-Xylene & p-Xylene	106	10.698	10.702	-0.004	97	839112	175.0	166.3	
89 o-Xylene	106	11.081	11.079	0.002	97	860280	175.0	165.9	
90 Styrene	104	11.099	11.098	0.001	94	1273143	175.0	166.7	
91 Bromoform	173	11.294	11.292	0.002	95	168078	175.0	186.5	
92 2-Chlorobenzotrifluoride	180	11.343	11.341	0.002	95	622262	175.0	157.1	
93 Isopropylbenzene	105	11.452	11.444	0.008	98	2002206	175.0	156.6	
96 1,1,2,2-Tetrachloroethane	83	11.756	11.755	0.001	95	440302	175.0	165.2	
95 Bromobenzene	156	11.769	11.767	0.002	98	477179	175.0	174.0	
97 trans-1,4-Dichloro-2-buten	53	11.793	11.791	0.002	78	137653	175.0	178.5	
98 1,2,3-Trichloropropane	110	11.817	11.815	0.002	86	139161	175.0	173.4	
99 N-Propylbenzene	120	11.866	11.864	0.002	97	563113	175.0	171.9	
100 2-Chlorotoluene	126	11.957	11.955	0.002	95	493158	175.0	170.8	
101 3-Chlorotoluene	126	12.024	12.022	0.002	95	525597	175.0	174.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.048	12.047	0.001	95	1783600	175.0	169.4	
103 4-Chlorotoluene	126	12.079	12.083	-0.004	99	491693	175.0	165.9	
104 tert-Butylbenzene	119	12.365	12.363	0.002	92	1396912	175.0	170.4	
106 1,2,4-Trimethylbenzene	105	12.426	12.424	0.002	98	1838518	175.0	168.7	
107 1,2-dichloro-4-(trifluorom	214	12.456	12.460	-0.004	97	521070	175.0	171.1	
108 sec-Butylbenzene	105	12.590	12.588	0.002	96	2082501	175.0	164.3	
109 1,3-Dichlorobenzene	146	12.712	12.710	0.002	94	914665	175.0	170.3	
110 4-Isopropyltoluene	119	12.748	12.740	0.008	94	1743713	175.0	169.6	
111 1,4-Dichlorobenzene	146	12.815	12.813	0.002	91	944630	175.0	170.0	
113 2,4-Dichloro-1-(trifluorom	214	12.827	12.831	-0.004	97	499776	175.0	163.5	
114 2,5-Dichlorobenzotrifluori	214	12.870	12.868	0.002	98	618602	175.0	183.7	
116 n-Butylbenzene	91	13.156	13.154	0.002	96	1667227	175.0	168.7	
117 1,2-Dichlorobenzene	146	13.168	13.166	0.002	94	923690	175.0	172.0	
118 1,2-Dibromo-3-Chloropropan	75	13.965	13.963	0.002	79	82124	175.0	191.6	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.105	14.103	0.002	96	2518550	525.0	499.6	
121 2,3- & 3,4- Dichlorotoluen	125	14.518	14.516	0.002	97	1844544	350.0	335.0	
122 1,2,4-Trichlorobenzene	180	14.786	14.784	0.002	94	726984	175.0	174.7	
123 Hexachlorobutadiene	225	14.932	14.930	0.002	95	282422	175.0	173.6	
124 Naphthalene	128	15.054	15.052	0.002	98	1297115	175.0	181.4	
125 1,2,3-Trichlorobenzene	180	15.279	15.277	0.002	94	609774	175.0	175.2	
126 2,4,5-Trichlorotoluene	159	16.045	16.049	-0.004	0	451216	175.0	176.2	
127 2,3,6-Trichlorotoluene	159	16.143	16.147	-0.004	94	400428	175.0	175.4	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		350.0	349.4	
S 131 Xylenes, Total	106				0		350.0	332.2	
S 132 1,3-Dichloropropene, Total	1				0		350.0	355.6	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00029	Amount Added: 7.00	Units: uL	
voaWeemixpri_00001	Amount Added: 7.00	Units: uL	
voaWVApri Res_00001	Amount Added: 7.00	Units: uL	
VOAKETONEPRI_00003	Amount Added: 7.00	Units: uL	
VOA8260VOAPRI_00097	Amount Added: 7.00	Units: uL	
voaWAcropri R_00006	Amount Added: 9.00	Units: uL	
VOA8260INT_00027	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128011.D

Injection Date: 28-Jan-2015 15:57:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: IC VSTD35

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

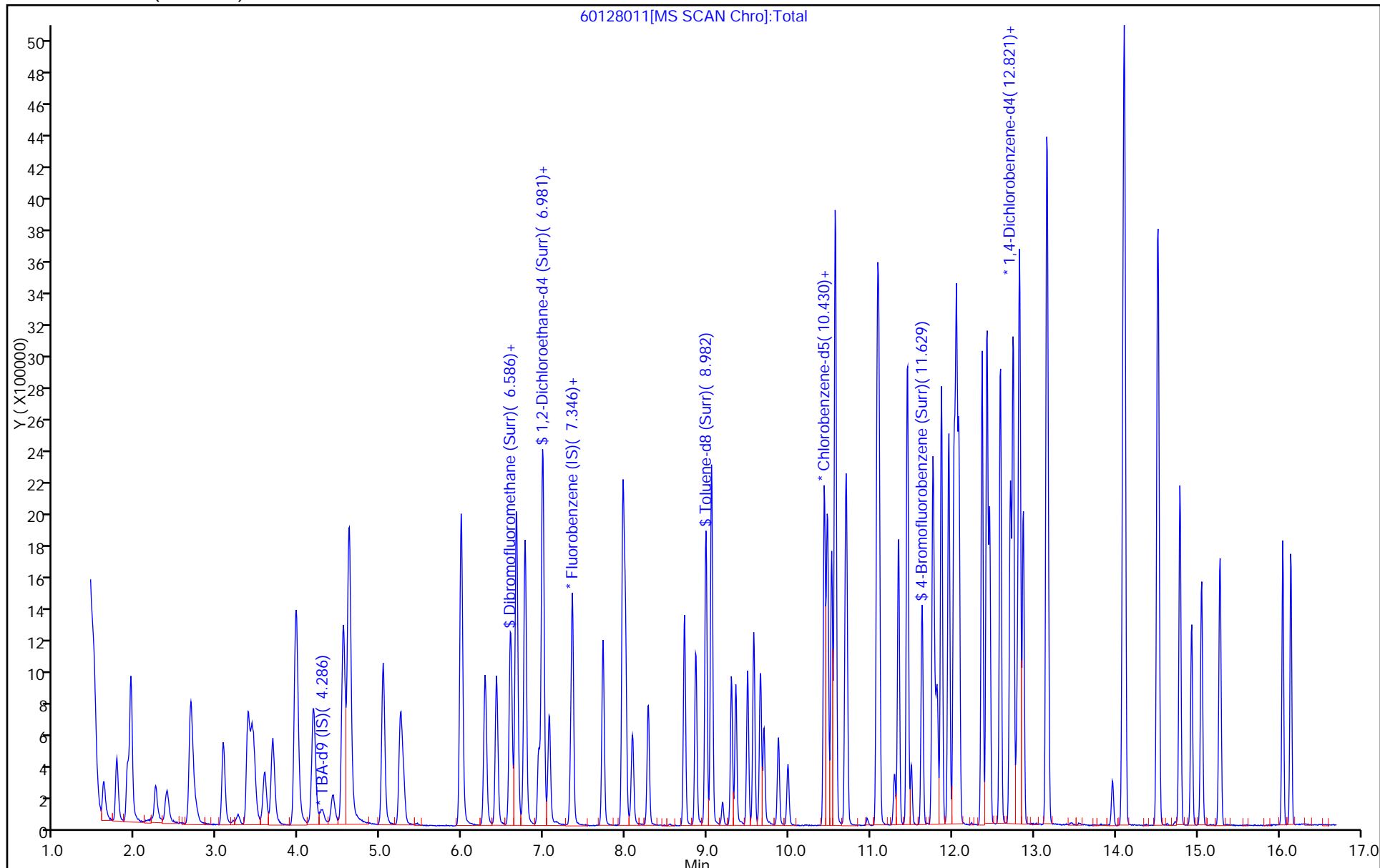
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



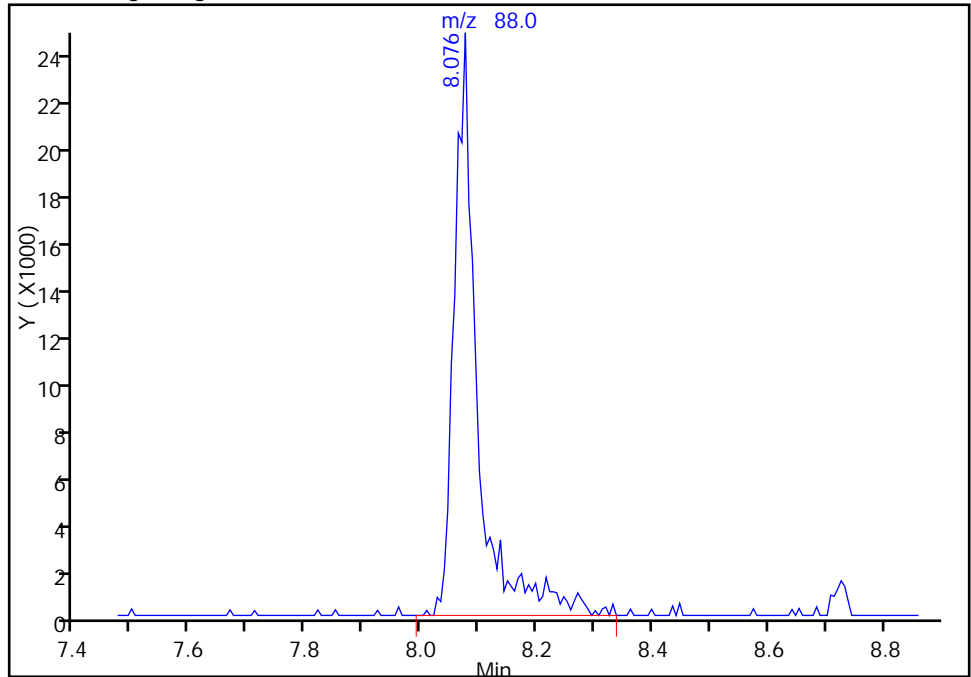
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128011.D
Injection Date: 28-Jan-2015 15:57:30 Instrument ID: CHHP6
Lims ID: IC VSTD35
Client ID:
Operator ID: 001562 ALS Bottle#: 9 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

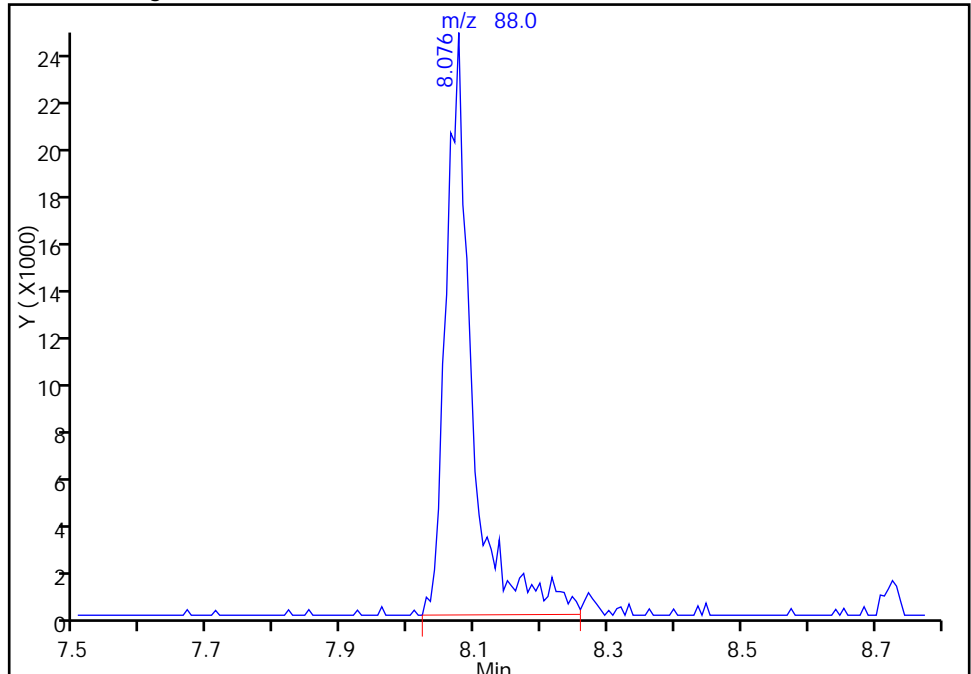
RT: 8.08
Area: 68578
Amount: 3642.8098
Amount Units: ng

Processing Integration Results



RT: 8.08
Area: 66654
Amount: 3651.9598
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 29-Jan-2015 10:59:52
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128012.D
 Lims ID: IC VSTD40
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 28-Jan-2015 16:21:30 ALS Bottle#: 10 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD40
 Misc. Info.: 180-0005450-012
 Operator ID: 001562 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub5
 Method: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 29-Jan-2015 12:59:16 Calib Date: 28-Jan-2015 16:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: fergusond

Date: 29-Jan-2015 11:05:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.279	4.278	0.001	95	156228	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.327	7.326	0.001	98	431028	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.442	10.440	0.002	89	102756	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.796	12.789	0.007	96	156005	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.603	6.596	0.007	93	387858	200.0	198.9	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.974	6.973	0.001	69	549644	200.0	197.0	
\$ 7 Toluene-d8 (Surr)	98	8.982	8.980	0.002	94	1388779	200.0	171.5	
\$ 8 4-Bromofluorobenzene (Surr	95	11.628	11.627	0.001	83	623752	200.0	181.0	
11 Dichlorodifluoromethane	85	1.609	1.607	0.002	99	466774	200.0	204.4	
12 Chloromethane	50	1.773	1.759	0.014	98	698118	200.0	198.7	
13 Vinyl chloride	62	1.901	1.893	0.008	98	630878	200.0	202.7	
14 Butadiene	39	1.943	1.936	0.007	92	663356	200.0	199.6	
15 Bromomethane	94	2.247	2.240	0.007	92	238802	200.0	191.1	
16 Chloroethane	64	2.393	2.380	0.013	100	381411	200.0	199.8	
17 Dichlorofluoromethane	67	2.673	2.666	0.007	97	918274	200.0	201.8	
18 Trichlorofluoromethane	101	2.685	2.684	0.001	98	732912	200.0	205.8	
20 Ethyl ether	59	3.069	3.067	0.002	94	557320	200.0	205.3	
21 Acrolein	56	3.251	3.244	0.007	99	114431	250.0	265.5	
22 1,1-Dichloroethene	96	3.379	3.365	0.014	95	500308	200.0	206.7	
23 1,1,2-Trichloro-1,2,2-trif	101	3.434	3.426	0.008	94	494476	200.0	202.0	
24 Acetone	43	3.458	3.451	0.007	100	309648	400.0	406.1	
25 Iodomethane	142	3.580	3.578	0.002	99	740212	200.0	206.5	
26 Carbon disulfide	76	3.677	3.676	0.001	100	1529475	200.0	213.4	
29 3-Chloro-1-propene	76	3.963	3.956	0.007	91	336687	200.0	214.2	
30 Methyl acetate	43	3.969	3.962	0.007	98	1911445	1000.0	1024.3	
31 Methylene Chloride	84	4.182	4.175	0.007	97	657192	200.0	185.7	
32 2-Methyl-2-propanol	59	4.407	4.412	-0.005	96	373469	2000.0	2115.4	
33 Acrylonitrile	53	4.541	4.540	0.001	99	2023857	2000.0	2079.9	
34 trans-1,2-Dichloroethene	96	4.614	4.613	0.001	79	603714	200.0	207.2	
35 Methyl tert-butyl ether	73	4.614	4.613	0.001	98	1583536	200.0	206.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	5.028	5.026	0.002	93	851374	200.0	203.1	
37 1,1-Dichloroethane	63	5.241	5.239	0.001	96	1157116	200.0	205.3	
38 Vinyl acetate	43	5.277	5.276	0.001	97	631938	200.0	215.6	
44 2-Butanone (MEK)	43	5.977	5.975	0.002	54	404756	400.0	414.1	
43 cis-1,2-Dichloroethene	96	5.983	5.981	0.002	84	638509	200.0	206.6	
42 2,2-Dichloropropane	77	5.983	5.987	-0.004	85	681588	200.0	213.3	
49 Tetrahydrofuran	42	6.287	6.279	0.008	82	271171	400.0	386.1	
48 Chlorobromomethane	128	6.269	6.279	-0.010	92	257539	200.0	209.4	
50 Chloroform	83	6.415	6.419	-0.004	95	995734	200.0	205.2	
51 1,1,1-Trichloroethane	97	6.579	6.584	-0.005	97	785027	200.0	212.3	
52 Cyclohexane	56	6.664	6.657	0.007	95	1203343	200.0	202.1	
53 Carbon tetrachloride	117	6.761	6.760	0.001	96	614377	200.0	212.3	
54 1,1-Dichloropropene	75	6.767	6.766	0.001	94	759338	200.0	205.8	
55 Isobutyl alcohol	41	6.932	6.936	-0.004	95	309707	5000.0	5401.4	
56 Benzene	78	6.986	6.985	0.001	99	2127915	200.0	198.8	
57 1,2-Dichloroethane	62	7.066	7.058	0.008	96	719730	200.0	204.8	
59 n-Heptane	43	7.345	7.350	-0.005	93	681180	200.0	199.8	
61 Trichloroethene	130	7.723	7.721	0.002	95	498060	200.0	204.3	
63 Methylcyclohexane	83	7.966	7.965	0.001	94	996383	200.0	207.4	
64 1,2-Dichloropropane	63	7.996	7.995	0.001	91	576307	200.0	203.5	
65 1,4-Dioxane	88	8.063	8.074	-0.011	95	73473	4000.0	4147.3	M
67 Dibromomethane	93	8.082	8.080	0.002	95	275521	200.0	217.7	
68 Dichlorobromomethane	83	8.276	8.275	0.001	98	647525	200.0	218.1	
71 cis-1,3-Dichloropropene	75	8.714	8.719	-0.005	92	759439	200.0	222.9	
72 4-Methyl-2-pentanone (MIBK)	43	8.854	8.853	0.001	97	963310	400.0	415.5	
73 Toluene	91	9.049	9.047	0.002	96	1948278	200.0	185.5	
74 trans-1,3-Dichloropropene	75	9.292	9.291	0.001	96	613591	200.0	213.0	
75 Ethyl methacrylate	69	9.347	9.345	0.002	92	558436	200.0	210.7	
76 1,1,2-Trichloroethane	97	9.493	9.491	0.002	93	370798	200.0	194.4	
77 Tetrachloroethene	164	9.566	9.564	0.002	94	362836	200.0	193.4	
78 1,3-Dichloropropane	76	9.651	9.650	0.001	95	698175	200.0	196.9	
79 2-Hexanone	43	9.694	9.692	0.002	97	548903	400.0	415.0	
81 Chlorodibromomethane	129	9.870	9.869	0.001	91	355583	200.0	219.6	
82 Ethylene Dibromide	107	9.986	9.984	0.002	99	357378	200.0	206.0	
83 3-Chlorobenzotrifluoride	180	10.430	10.428	0.002	93	686787	200.0	187.9	
84 Chlorobenzene	112	10.472	10.471	0.001	89	1247688	200.0	190.3	
85 4-Chlorobenzotrifluoride	180	10.521	10.520	0.001	96	648765	200.0	190.7	
86 1,1,1,2-Tetrachloroethane	131	10.564	10.562	0.002	92	474135	200.0	209.7	
87 Ethylbenzene	106	10.570	10.568	0.002	98	755113	200.0	191.9	
88 m-Xylene & p-Xylene	106	10.697	10.702	-0.005	97	942705	200.0	194.2	
89 o-Xylene	106	11.081	11.079	0.002	96	966416	200.0	193.7	
90 Styrene	104	11.099	11.098	0.001	93	1466119	200.0	199.5	
91 Bromoform	173	11.287	11.292	-0.005	94	195103	200.0	225.0	
92 2-Chlorobenzotrifluoride	180	11.342	11.341	0.001	95	731138	200.0	191.8	
93 Isopropylbenzene	105	11.446	11.444	0.002	99	2269536	200.0	184.5	
96 1,1,2,2-Tetrachloroethane	83	11.756	11.755	0.001	95	506563	200.0	197.5	
95 Bromobenzene	156	11.768	11.767	0.001	97	550534	200.0	201.6	
97 trans-1,4-Dichloro-2-buten	53	11.792	11.791	0.001	76	166844	200.0	217.3	
98 1,2,3-Trichloropropane	110	11.817	11.815	0.002	86	157512	200.0	197.1	
99 N-Propylbenzene	120	11.865	11.864	0.001	97	647166	200.0	198.4	
100 2-Chlorotoluene	126	11.957	11.955	0.002	95	574430	200.0	199.8	
101 3-Chlorotoluene	126	12.018	12.022	-0.004	95	580756	200.0	193.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.048	12.047	0.001	96	2008176	200.0	191.5	
103 4-Chlorotoluene	126	12.078	12.083	-0.005	98	596461	200.0	202.1	
104 tert-Butylbenzene	119	12.364	12.363	0.001	92	1597317	200.0	195.7	
106 1,2,4-Trimethylbenzene	105	12.425	12.424	0.001	98	2073941	200.0	191.1	
107 1,2-dichloro-4-(trifluorom	214	12.456	12.460	-0.004	97	595281	200.0	196.3	
108 sec-Butylbenzene	105	12.589	12.588	0.001	96	2342860	200.0	185.7	
109 1,3-Dichlorobenzene	146	12.711	12.710	0.001	93	1029314	200.0	192.4	
110 4-Isopropyltoluene	119	12.741	12.740	0.001	94	1972986	200.0	192.7	
111 1,4-Dichlorobenzene	146	12.814	12.813	0.001	85	1071549	200.0	193.6	
113 2,4-Dichloro-1-(trifluorom	214	12.827	12.831	-0.004	97	570286	200.0	187.4	
114 2,5-Dichlorobenzotrifluori	214	12.869	12.868	0.001	98	695499	200.0	207.4	
116 n-Butylbenzene	91	13.155	13.154	0.001	95	1901534	200.0	193.2	
117 1,2-Dichlorobenzene	146	13.167	13.166	0.001	91	1036802	200.0	193.9	
118 1,2-Dibromo-3-Chloropropan	75	13.958	13.963	-0.005	77	90830	200.0	212.8	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.104	14.103	0.001	95	2764683	600.0	550.7	
121 2,3- & 3,4- Dichlorotoluen	125	14.518	14.516	0.002	96	2037341	400.0	371.6	
122 1,2,4-Trichlorobenzene	180	14.785	14.784	0.001	94	817434	200.0	197.3	
123 Hexachlorobutadiene	225	14.931	14.930	0.001	96	320466	200.0	197.8	
124 Naphthalene	128	15.053	15.052	0.001	98	1444669	200.0	202.9	
125 1,2,3-Trichlorobenzene	180	15.278	15.277	0.001	94	688354	200.0	198.6	
126 2,4,5-Trichlorotoluene	159	16.045	16.049	-0.004	0	504552	200.0	197.8	
127 2,3,6-Trichlorotoluene	159	16.148	16.147	0.001	94	455993	200.0	200.6	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		400.0	413.8	
S 131 Xylenes, Total	106				0		400.0	387.8	
S 132 1,3-Dichloropropene, Total	1				0		400.0	435.9	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00029	Amount Added: 8.00	Units: uL	
voaWeemixpri_00001	Amount Added: 8.00	Units: uL	
voaWVApri Res_00001	Amount Added: 8.00	Units: uL	
VOAKETONEPRI_00003	Amount Added: 8.00	Units: uL	
VOA8260VOAPRI_00097	Amount Added: 8.00	Units: uL	
voaWAcropri R_00006	Amount Added: 10.00	Units: uL	
VOA8260INT_00027	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128012.D

Injection Date: 28-Jan-2015 16:21:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: IC VSTD40

Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL

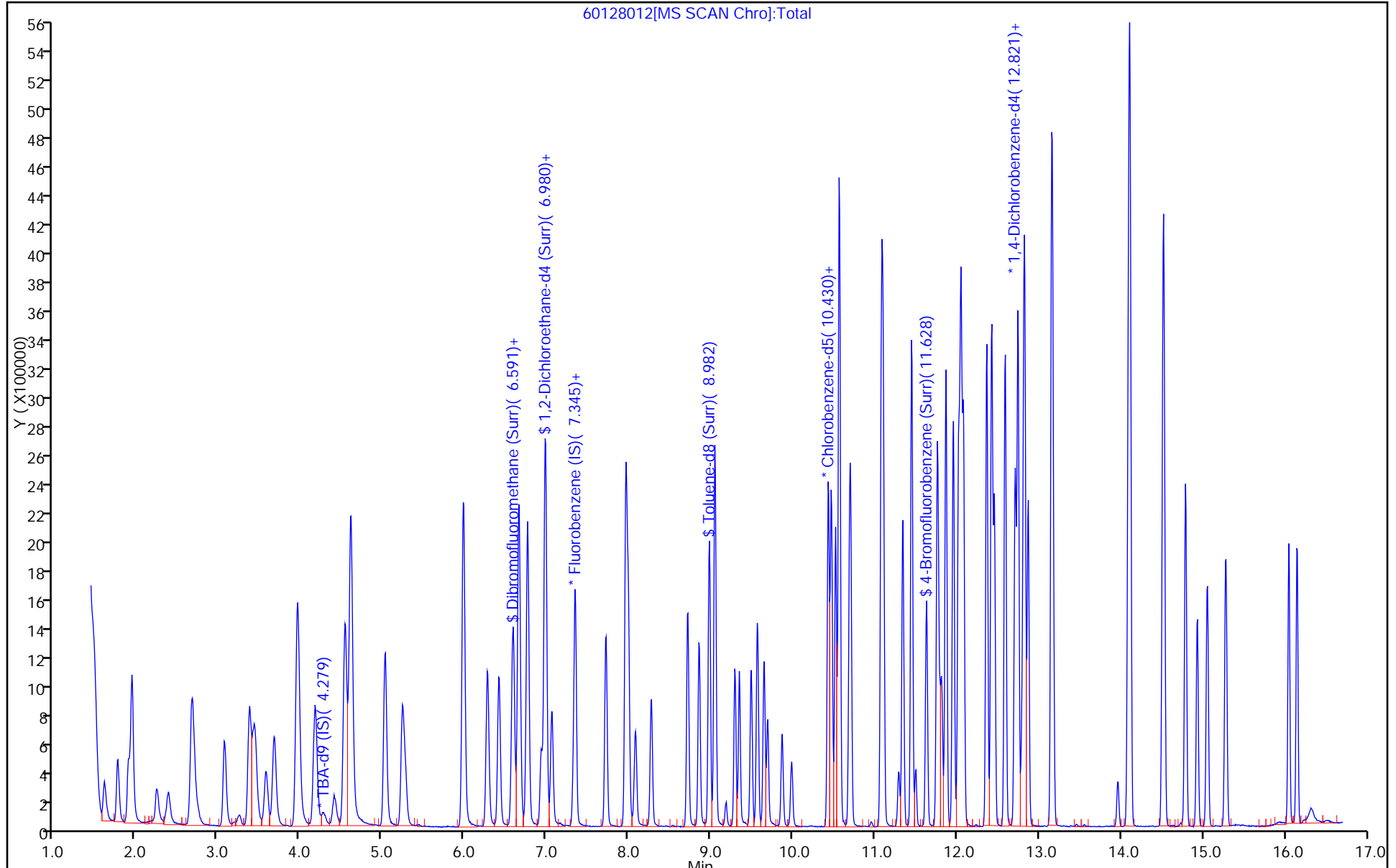
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



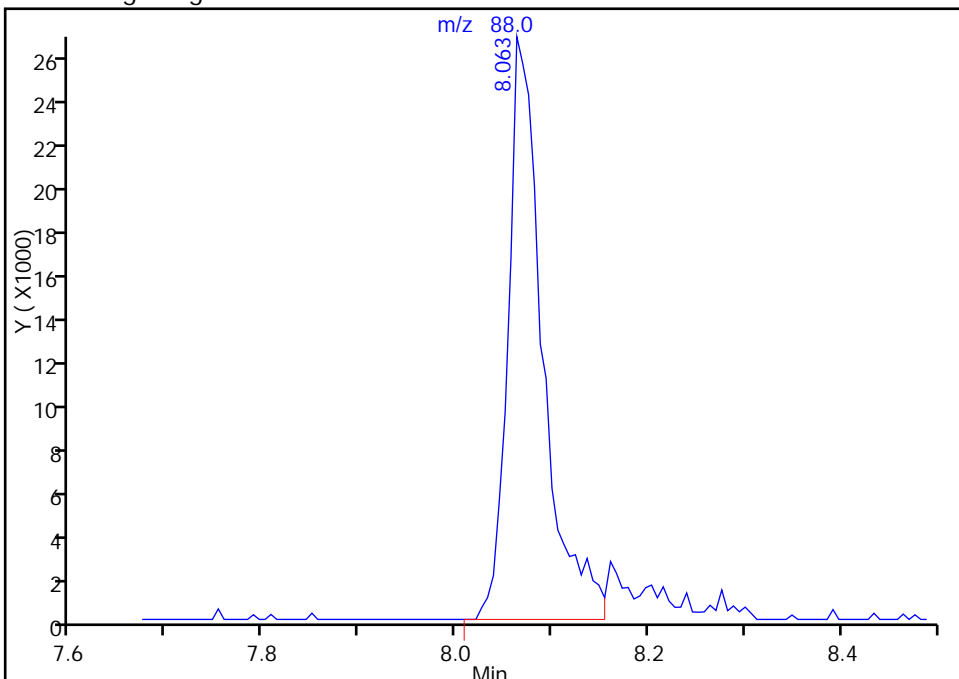
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128012.D
Injection Date: 28-Jan-2015 16:21:30 Instrument ID: CHHP6
Lims ID: IC VSTD40
Client ID:
Operator ID: 001562 ALS Bottle#: 10 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

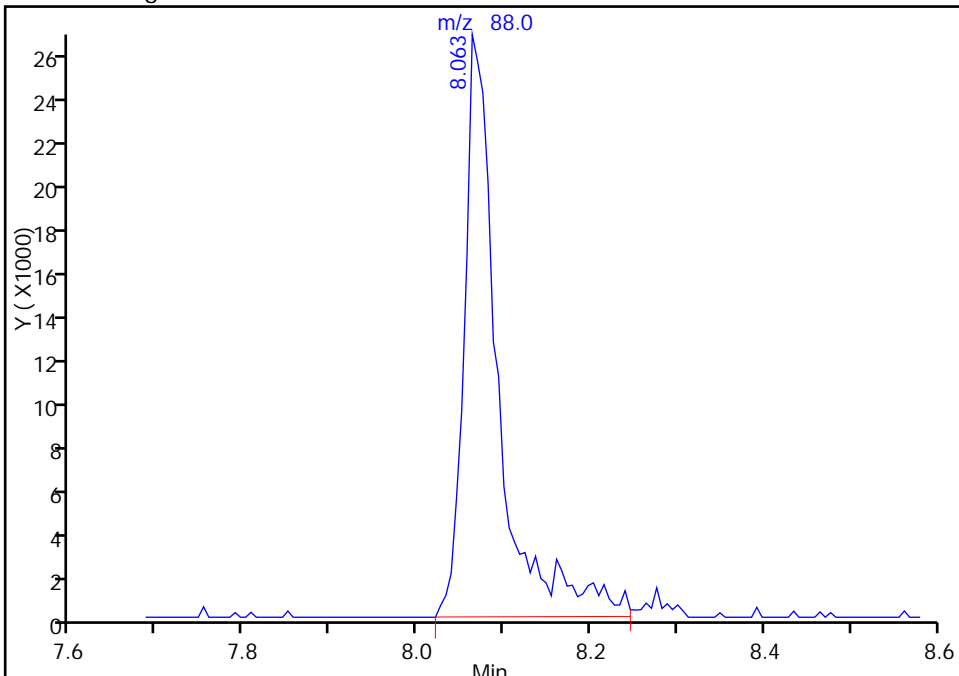
RT: 8.06
Area: 66981
Amount: 3712.8569
Amount Units: ng

Processing Integration Results



RT: 8.06
Area: 73473
Amount: 4147.2741
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 29-Jan-2015 11:12:56
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D
 Lims ID: IC VSTD50
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 28-Jan-2015 16:44:30 ALS Bottle#: 11 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD50
 Misc. Info.: 180-0005450-013
 Operator ID: 001562 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub5
 Method: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 29-Jan-2015 12:59:17 Calib Date: 28-Jan-2015 16:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: fergusond

Date: 29-Jan-2015 11:15:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.278	4.278	0.000	97	165623	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.326	7.326	0.000	98	445145	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.435	10.440	-0.005	89	112267	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.789	12.789	0.000	93	160396	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.596	6.596	0.000	93	498125	250.0	247.4	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.973	6.973	0.000	70	706731	250.0	245.2	
\$ 7 Toluene-d8 (Surr)	98	8.981	8.980	0.001	94	1782119	250.0	201.4	
\$ 8 4-Bromofluorobenzene (Surr	95	11.627	11.627	0.000	83	804742	250.0	213.8	
11 Dichlorodifluoromethane	85	1.608	1.607	0.001	98	543864	250.0	230.6	
12 Chloromethane	50	1.766	1.759	0.007	99	847288	250.0	233.6	
13 Vinyl chloride	62	1.900	1.893	0.007	98	750079	250.0	233.3	
14 Butadiene	39	1.942	1.936	0.006	90	797079	250.0	232.2	
15 Bromomethane	94	2.247	2.240	0.007	90	267917	250.0	207.6	
16 Chloroethane	64	2.387	2.380	0.007	100	453830	250.0	230.2	
17 Dichlorofluoromethane	67	2.672	2.666	0.006	98	1104334	250.0	235.0	
18 Trichlorofluoromethane	101	2.685	2.684	0.001	98	854688	250.0	232.4	
20 Ethyl ether	59	3.074	3.067	0.007	94	701385	250.0	250.1	
21 Acrolein	56	3.244	3.244	0.000	99	125821	275.0	282.7	
22 1,1-Dichloroethene	96	3.372	3.365	0.007	96	603276	250.0	241.4	
23 1,1,2-Trichloro-1,2,2-trif	101	3.433	3.426	0.007	95	600973	250.0	237.7	
24 Acetone	43	3.457	3.451	0.006	100	400973	500.0	509.2	
25 Iodomethane	142	3.579	3.578	0.001	99	932274	250.0	251.8	
26 Carbon disulfide	76	3.676	3.676	0.000	100	1916453	250.0	258.9	
29 3-Chloro-1-propene	76	3.956	3.956	0.000	90	417234	250.0	257.0	
30 Methyl acetate	43	3.968	3.962	0.006	98	2346689	1250.0	1217.6	
31 Methylene Chloride	84	4.175	4.175	0.000	97	837610	250.0	229.2	
32 2-Methyl-2-propanol	59	4.412	4.412	0.000	96	475572	2500.0	2540.9	
33 Acrylonitrile	53	4.540	4.540	0.000	97	2458471	2500.0	2446.4	
34 trans-1,2-Dichloroethene	96	4.613	4.613	0.000	74	746155	250.0	248.0	
35 Methyl tert-butyl ether	73	4.613	4.613	0.000	98	1999816	250.0	252.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	5.027	5.026	0.001	94	1057585	250.0	244.3	
37 1,1-Dichloroethane	63	5.240	5.239	0.001	96	1421566	250.0	244.2	
38 Vinyl acetate	43	5.276	5.276	0.000	97	777050	250.0	256.8	
44 2-Butanone (MEK)	43	5.982	5.975	0.007	50	502816	500.0	498.1	
43 cis-1,2-Dichloroethene	96	5.982	5.981	0.001	84	802357	250.0	251.4	
42 2,2-Dichloropropane	77	5.982	5.987	-0.005	66	842775	250.0	255.3	
49 Tetrahydrofuran	42	6.286	6.279	0.007	91	346093	500.0	477.1	
48 Chlorobromomethane	128	6.280	6.279	0.001	93	324697	250.0	255.6	
50 Chloroform	83	6.414	6.419	-0.005	94	1224156	250.0	244.3	
51 1,1,1-Trichloroethane	97	6.584	6.584	0.000	96	966056	250.0	253.0	
52 Cyclohexane	56	6.663	6.657	0.006	95	1475197	250.0	239.9	
53 Carbon tetrachloride	117	6.761	6.760	0.001	95	766964	250.0	256.7	
54 1,1-Dichloropropene	75	6.773	6.766	0.007	94	930038	250.0	244.1	
55 Isobutyl alcohol	41	6.931	6.936	-0.005	94	377064	6250.0	6367.6	
56 Benzene	78	6.986	6.985	0.001	99	2568317	250.0	232.4	
57 1,2-Dichloroethane	62	7.065	7.058	0.007	97	895039	250.0	246.6	
59 n-Heptane	43	7.345	7.350	-0.005	94	839502	250.0	238.4	
61 Trichloroethene	130	7.722	7.721	0.001	94	593184	250.0	235.6	
63 Methylcyclohexane	83	7.965	7.965	0.000	94	1205068	250.0	242.9	
64 1,2-Dichloropropane	63	7.995	7.995	0.000	89	735181	250.0	251.4	
65 1,4-Dioxane	88	8.075	8.074	0.001	35	86605	5000.0	4733.5	
67 Dibromomethane	93	8.081	8.080	0.001	95	334892	250.0	256.2	
68 Dichlorobromomethane	83	8.275	8.275	0.000	98	803958	250.0	262.2	
71 cis-1,3-Dichloropropene	75	8.719	8.719	0.000	92	940779	250.0	267.4	
72 4-Methyl-2-pentanone (MIBK)	43	8.859	8.853	0.006	96	1165825	500.0	460.3	
73 Toluene	91	9.048	9.047	0.001	96	2335981	250.0	203.5	
74 trans-1,3-Dichloropropene	75	9.291	9.291	0.000	96	756557	250.0	240.3	
75 Ethyl methacrylate	69	9.346	9.345	0.001	91	703298	250.0	242.8	
76 1,1,2-Trichloroethane	97	9.492	9.491	0.001	93	457078	250.0	219.3	
77 Tetrachloroethene	164	9.565	9.564	0.001	93	439818	250.0	214.6	
78 1,3-Dichloropropane	76	9.650	9.650	0.000	95	854230	250.0	220.4	
79 2-Hexanone	43	9.693	9.692	0.001	95	682982	500.0	472.6	
81 Chlorodibromomethane	129	9.869	9.869	0.000	90	439418	250.0	248.4	
82 Ethylene Dibromide	107	9.985	9.984	0.001	99	439262	250.0	231.7	
83 3-Chlorobenzotrifluoride	180	10.429	10.428	0.001	94	827969	250.0	207.4	
84 Chlorobenzene	112	10.471	10.471	0.000	89	1544665	250.0	215.6	
85 4-Chlorobenzotrifluoride	180	10.520	10.520	0.000	97	789851	250.0	212.6	
86 1,1,1,2-Tetrachloroethane	131	10.563	10.562	0.001	92	607735	250.0	246.1	
87 Ethylbenzene	106	10.569	10.568	0.001	97	946322	250.0	220.2	
88 m-Xylene & p-Xylene	106	10.697	10.702	-0.005	96	1173036	250.0	221.1	
89 o-Xylene	106	11.080	11.079	0.001	96	1190653	250.0	218.4	
90 Styrene	104	11.098	11.098	0.000	93	1790733	250.0	223.1	
91 Bromoform	173	11.293	11.292	0.001	95	250089	250.0	264.0	
92 2-Chlorobenzotrifluoride	180	11.341	11.341	0.000	94	883499	250.0	212.1	
93 Isopropylbenzene	105	11.451	11.444	0.007	99	2696635	250.0	200.6	
96 1,1,2,2-Tetrachloroethane	83	11.755	11.755	0.000	95	640819	250.0	228.7	
95 Bromobenzene	156	11.767	11.767	0.000	98	690860	250.0	246.1	
97 trans-1,4-Dichloro-2-buten	53	11.792	11.791	0.001	82	201266	250.0	254.9	
98 1,2,3-Trichloropropane	110	11.816	11.815	0.001	85	203260	250.0	247.4	
99 N-Propylbenzene	120	11.865	11.864	0.001	97	796757	250.0	237.5	
100 2-Chlorotoluene	126	11.956	11.955	0.001	95	719388	250.0	243.4	
101 3-Chlorotoluene	126	12.023	12.022	0.001	95	730727	250.0	236.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.047	12.047	0.000	94	2421330	250.0	224.6	
103 4-Chlorotoluene	126	12.077	12.083	-0.006	98	726677	250.0	239.5	
104 tert-Butylbenzene	119	12.363	12.363	0.000	92	1918630	250.0	228.6	
106 1,2,4-Trimethylbenzene	105	12.424	12.424	0.000	98	2489630	250.0	223.2	
107 1,2-dichloro-4-(trifluorom	214	12.455	12.460	-0.005	96	725838	250.0	232.8	
108 sec-Butylbenzene	105	12.589	12.588	0.000	96	2762118	250.0	212.9	
109 1,3-Dichlorobenzene	146	12.710	12.710	0.000	93	1280853	250.0	232.9	
110 4-Isopropyltoluene	119	12.747	12.740	0.007	93	2335695	250.0	221.9	
111 1,4-Dichlorobenzene	146	12.820	12.813	0.007	86	1322179	250.0	232.4	
113 2,4-Dichloro-1-(trifluorom	214	12.832	12.831	0.001	96	757959	250.0	242.3	
114 2,5-Dichlorobenzotrifluori	214	12.868	12.868	0.000	97	791743	250.0	229.6	
116 n-Butylbenzene	91	13.154	13.154	0.000	94	2252239	250.0	222.5	
117 1,2-Dichlorobenzene	146	13.166	13.166	0.000	91	1288639	250.0	234.4	
118 1,2-Dibromo-3-Chloropropan	75	13.963	13.963	0.000	77	111534	250.0	254.1	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.103	14.103	0.000	94	3312790	750.0	641.9	
121 2,3- & 3,4- Dichlorotoluen	125	14.517	14.516	0.001	95	2461660	500.0	436.7	
122 1,2,4-Trichlorobenzene	180	14.785	14.784	0.001	94	1004110	250.0	235.7	
123 Hexachlorobutadiene	225	14.931	14.930	0.001	96	388561	250.0	233.2	
124 Naphthalene	128	15.052	15.052	0.000	98	1745866	250.0	238.5	
125 1,2,3-Trichlorobenzene	180	15.277	15.277	0.000	93	854020	250.0	239.7	
126 2,4,5-Trichlorotoluene	159	16.044	16.049	-0.005	0	629698	250.0	240.1	
127 2,3,6-Trichlorotoluene	159	16.147	16.147	0.000	93	566962	250.0	242.6	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		500.0	499.4	
S 131 Xylenes, Total	106				0		500.0	439.5	
S 132 1,3-Dichloropropene, Total	1				0		500.0	507.7	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOA8260SURR_00029	Amount Added: 10.00	Units: uL	
voaWeemixpri_00001	Amount Added: 10.00	Units: uL	
voaWVApri Res_00001	Amount Added: 10.00	Units: uL	
VOAKETONEPRI_00003	Amount Added: 10.00	Units: uL	
VOA8260VOAPRI_00097	Amount Added: 10.00	Units: uL	
voaWAcropri R_00006	Amount Added: 11.00	Units: uL	
VOA8260INT_00027	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D

Injection Date: 28-Jan-2015 16:44:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: IC VSTD50

Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL

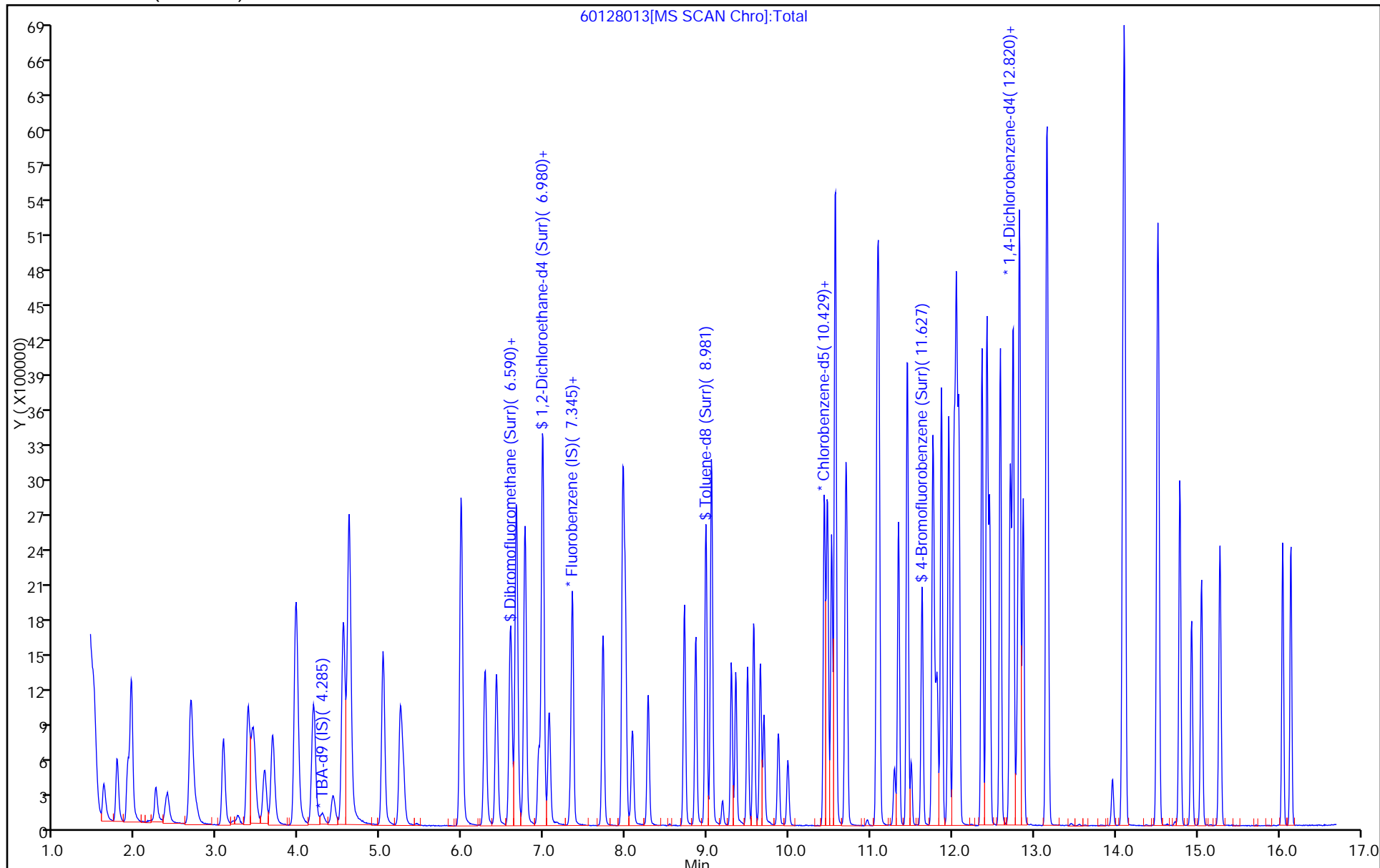
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: MSVOA_LL_CHHP6

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.: 180-42389-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-136799/2 Calibration Date: 03/27/2015 12:48
 Instrument ID: CHHP6 Calib Start Date: 09/11/2014 11:23
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 09/11/2014 13:46
 Lab File ID: 60327002.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-Dibromo-3-Chloropropane	Ave	0.1419	0.1640	0.0500	12.0	10.0	15.6	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\60327002.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 27-Mar-2015 12:48:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 180-0006216-002
 Operator ID: 001562 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub5
 Method: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 27-Mar-2015 15:53:13 Calib Date: 28-Jan-2015 16:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK009

First Level Reviewer: fergusond

Date: 27-Mar-2015 13:16:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.285	4.285	0.000	94	246816	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.327	7.327	0.000	97	568599	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.436	10.436	0.000	92	117115	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.790	12.790	0.000	95	176682	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.597	6.597	0.000	93	123616	50.0	48.1	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.974	6.974	0.000	50	197137	50.0	53.6	
\$ 7 Toluene-d8 (Surr)	98	8.982	8.982	0.000	93	486616	50.0	52.7	
\$ 8 4-Bromofluorobenzene (Surr	95	11.628	11.628	0.000	80	197714	50.0	50.3	
11 Dichlorodifluoromethane	85	1.615	1.615	0.000	99	142085	50.0	47.2	
12 Chloromethane	50	1.767	1.767	0.000	99	182098	50.0	39.3	M
13 Vinyl chloride	62	1.900	1.900	0.000	97	178274	50.0	43.4	
14 Butadiene	39	1.943	1.943	0.000	88	174377	50.0	39.8	
15 Bromomethane	94	2.235	2.235	0.000	92	83988	50.0	51.0	
16 Chloroethane	64	2.387	2.387	0.000	99	108533	50.0	43.1	
17 Dichlorofluoromethane	67	2.667	2.667	0.000	96	290592	50.0	48.4	
18 Trichlorofluoromethane	101	2.703	2.703	0.000	97	239471	50.0	51.0	
20 Ethyl ether	59	3.075	3.075	0.000	94	171857	50.0	48.0	
21 Acrolein	56	3.245	3.245	0.000	99	57448	150.0	101.1	
22 1,1-Dichloroethene	96	3.373	3.373	0.000	94	154296	50.0	48.3	
23 1,1,2-Trichloro-1,2,2-trif	101	3.440	3.440	0.000	94	159762	50.0	49.5	
24 Acetone	43	3.458	3.458	0.000	99	105682	100.0	105.1	
25 Iodomethane	142	3.573	3.573	0.000	98	185090	50.0	39.1	
26 Carbon disulfide	76	3.683	3.683	0.000	99	366456	50.0	38.8	
29 3-Chloro-1-propene	76	3.951	3.951	0.000	62	87853	50.0	42.4	
30 Methyl acetate	43	3.963	3.963	0.000	97	728613	250.0	296.0	
31 Methylene Chloride	84	4.170	4.170	0.000	98	184786	50.0	39.6	
32 2-Methyl-2-propanol	59	4.413	4.413	0.000	93	141152	500.0	506.1	
33 Acrylonitrile	53	4.541	4.541	0.000	100	779674	500.0	607.4	
34 trans-1,2-Dichloroethene	96	4.608	4.608	0.000	68	168028	50.0	43.7	
35 Methyl tert-butyl ether	73	4.608	4.608	0.000	96	473312	50.0	46.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	5.027	5.027	0.000	93	238011	50.0	43.0	
37 1,1-Dichloroethane	63	5.240	5.240	0.000	96	312983	50.0	42.1	
38 Vinyl acetate	43	5.277	5.277	0.000	98	219841	50.0	56.9	
43 cis-1,2-Dichloroethene	96	5.982	5.982	0.000	84	174165	50.0	42.7	
42 2,2-Dichloropropane	77	5.982	5.982	0.000	58	134542	50.0	31.9	
44 2-Butanone (MEK)	43	5.982	5.982	0.000	50	114730	100.0	89.0	
48 Chlorobromomethane	128	6.274	6.274	0.000	90	70280	50.0	43.3	
49 Tetrahydrofuran	42	6.287	6.287	0.000	93	103360	100.0	111.6	
50 Chloroform	83	6.420	6.420	0.000	94	292632	50.0	45.7	
51 1,1,1-Trichloroethane	97	6.579	6.579	0.000	97	210956	50.0	43.3	
52 Cyclohexane	56	6.664	6.664	0.000	95	351297	50.0	44.7	
53 Carbon tetrachloride	117	6.761	6.761	0.000	72	156219	50.0	40.9	
54 1,1-Dichloropropene	75	6.767	6.767	0.000	93	220295	50.0	45.3	
55 Isobutyl alcohol	41	6.931	6.931	0.000	89	128514	1250.0	1699.0	
56 Benzene	78	6.980	6.980	0.000	96	678225	50.0	48.0	
57 1,2-Dichloroethane	62	7.059	7.059	0.000	97	256521	50.0	55.3	
59 n-Heptane	43	7.345	7.345	0.000	91	175652	50.0	39.1	
61 Trichloroethene	130	7.716	7.716	0.000	94	136156	50.0	42.3	
63 Methylcyclohexane	83	7.966	7.966	0.000	95	265284	50.0	41.9	
64 1,2-Dichloropropane	63	7.990	7.990	0.000	93	156689	50.0	41.9	
65 1,4-Dioxane	88	8.069	8.069	0.000	51	32419	1000.0	1387.2	M
67 Dibromomethane	93	8.081	8.081	0.000	93	93815	50.0	56.2	
68 Dichlorobromomethane	83	8.276	8.276	0.000	98	180324	50.0	46.0	
71 cis-1,3-Dichloropropene	75	8.714	8.714	0.000	93	192570	50.0	42.8	
72 4-Methyl-2-pentanone (MIBK)	43	8.854	8.854	0.000	96	267290	100.0	101.2	
73 Toluene	91	9.049	9.049	0.000	99	667708	50.0	55.8	
74 trans-1,3-Dichloropropene	75	9.292	9.292	0.000	95	153891	50.0	46.9	
75 Ethyl methacrylate	69	9.347	9.347	0.000	90	180712	50.0	59.8	
76 1,1,2-Trichloroethane	97	9.487	9.487	0.000	93	123196	50.0	56.7	
77 Tetrachloroethene	164	9.566	9.566	0.000	92	117222	50.0	54.8	
78 1,3-Dichloropropane	76	9.651	9.651	0.000	92	239988	50.0	59.4	
79 2-Hexanone	43	9.693	9.693	0.000	95	159519	100.0	105.8	
81 Chlorodibromomethane	129	9.870	9.870	0.000	91	90692	50.0	49.1	
82 Ethylene Dibromide	107	9.985	9.985	0.000	98	120112	50.0	60.7	
83 3-Chlorobenzotrifluoride	180	10.429	10.429	0.000	92	215490	50.0	51.7	
84 Chlorobenzene	112	10.466	10.466	0.000	91	375391	50.0	50.2	
85 4-Chlorobenzotrifluoride	180	10.521	10.521	0.000	97	199852	50.0	51.6	
86 1,1,1,2-Tetrachloroethane	131	10.563	10.563	0.000	89	110170	50.0	42.8	
87 Ethylbenzene	106	10.569	10.569	0.000	99	200638	50.0	44.7	
88 m-Xylene & p-Xylene	106	10.697	10.697	0.000	99	258110	50.0	46.6	
89 o-Xylene	106	11.080	11.080	0.000	98	244639	50.0	43.0	
90 Styrene	104	11.099	11.099	0.000	95	430742	50.0	51.4	
91 Bromoform	173	11.287	11.287	0.000	94	51311	50.0	51.9	
92 2-Chlorobenzotrifluoride	180	11.342	11.342	0.000	94	220622	50.0	50.8	
93 Isopropylbenzene	105	11.445	11.445	0.000	98	633559	50.0	45.2	
96 1,1,2,2-Tetrachloroethane	83	11.756	11.756	0.000	96	172243	50.0	58.9	
95 Bromobenzene	156	11.768	11.768	0.000	97	142466	50.0	46.1	
97 trans-1,4-Dichloro-2-buten	53	11.792	11.792	0.000	77	46955	50.0	54.0	
98 1,2,3-Trichloropropane	110	11.810	11.810	0.000	84	54787	50.0	60.5	
99 N-Propylbenzene	120	11.865	11.865	0.000	99	170187	50.0	46.1	
100 2-Chlorotoluene	126	11.956	11.956	0.000	94	147690	50.0	45.4	
101 3-Chlorotoluene	126	12.017	12.017	0.000	97	177023	50.0	52.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.048	12.048	0.000	95	584020	50.0	49.2	
103 4-Chlorotoluene	126	12.084	12.084	0.000	99	150767	50.0	45.1	
104 tert-Butylbenzene	119	12.364	12.364	0.000	91	434808	50.0	47.0	
106 1,2,4-Trimethylbenzene	105	12.425	12.425	0.000	99	597384	50.0	48.6	
107 1,2-dichloro-4-(trifluorom	214	12.455	12.455	0.000	96	180221	50.0	52.5	
108 sec-Butylbenzene	105	12.589	12.589	0.000	96	663250	50.0	46.4	
109 1,3-Dichlorobenzene	146	12.711	12.711	0.000	94	286258	50.0	47.2	
110 4-Isopropyltoluene	119	12.747	12.747	0.000	96	566262	50.0	48.8	
111 1,4-Dichlorobenzene	146	12.814	12.814	0.000	90	289287	50.0	46.2	
113 2,4-Dichloro-1-(trifluorom	214	12.832	12.832	0.000	96	188664	50.0	54.7	
114 2,5-Dichlorobenzotrifluori	214	12.869	12.869	0.000	97	190447	50.0	50.1	
116 n-Butylbenzene	91	13.155	13.155	0.000	97	525530	50.0	47.1	
117 1,2-Dichlorobenzene	146	13.167	13.167	0.000	92	301193	50.0	49.7	
118 1,2-Dibromo-3-Chloropropan	75	13.958	13.964	-0.006	67	28977	50.0	59.9	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.104	14.104	0.000	98	861745	150.0	151.6	
121 2,3- & 3,4- Dichlorotoluen	125	14.518	14.518	0.000	98	647773	100.0	104.3	
122 1,2,4-Trichlorobenzene	180	14.785	14.785	0.000	93	218007	50.0	46.5	
123 Hexachlorobutadiene	225	14.931	14.931	0.000	95	86676	50.0	47.2	
124 Naphthalene	128	15.053	15.053	0.000	98	478331	50.0	59.3	
125 1,2,3-Trichlorobenzene	180	15.278	15.278	0.000	94	199839	50.0	50.9	
126 2,4,5-Trichlorotoluene	159	16.045	16.045	0.000	0	128430	50.0	44.5	
127 2,3,6-Trichlorotoluene	159	16.148	16.148	0.000	90	126633	50.0	49.2	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
S 131 Xylenes, Total	106				0		100.0	89.7	
S 130 1,2-Dichloroethene, Total	96				0		100.0	86.4	
S 132 1,3-Dichloropropene, Total	1				0		100.0	89.7	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

voaW8260voaPr_00005	Amount Added: 2.00	Units: uL	
voaWEEpri Res_00003	Amount Added: 2.00	Units: uL	
VOACRPRI_00003	Amount Added: 6.00	Units: uL	
VOAVAPRI_00005	Amount Added: 2.00	Units: uL	
voaWKet2 Rest_00002	Amount Added: 2.00	Units: uL	
VOA8260INT_00030	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00032	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\60327002.D

Injection Date: 27-Mar-2015 12:48:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

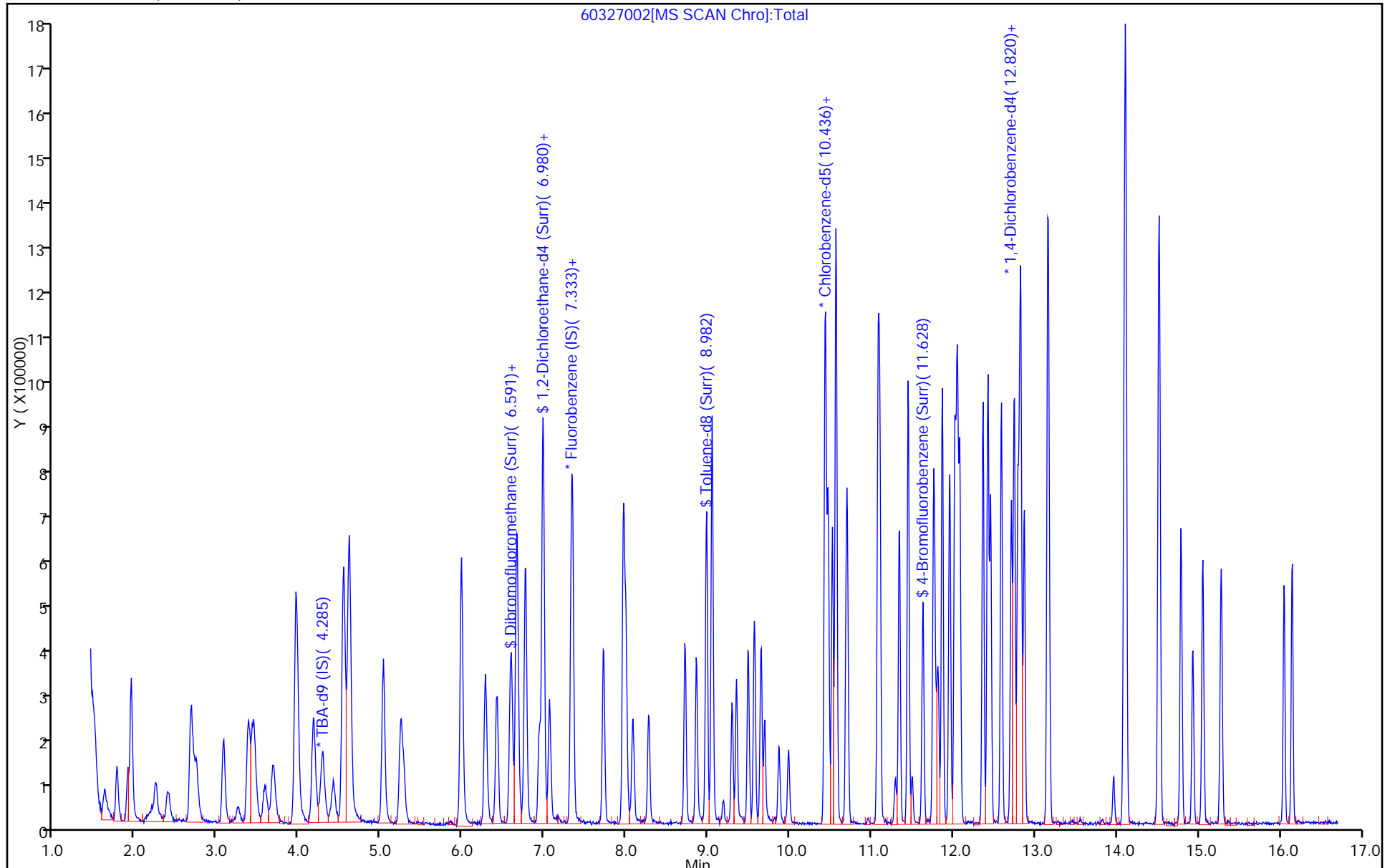
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: MSVOA_LL_CHHP6

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.: 180-42389-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-136799/2 Calibration Date: 03/27/2015 12:48
 Instrument ID: CHHP6 Calib Start Date: 01/28/2015 13:58
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 01/28/2015 16:44
 Lab File ID: 60327002.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	0.2650	0.2499	0.1000	9.43	10.0	-5.7	20.0
Chloromethane	Ave	0.4075	0.3203	0.1000	7.86	10.0	-21.4*	20.0
Vinyl chloride	Ave	0.3611	0.3135	0.1000	8.68	10.0	-13.2	20.0
Bromomethane	Ave	0.1449	0.1477	0.0500	10.2	10.0	1.9	20.0
Chloroethane	Ave	0.2214	0.1909	0.0500	8.62	10.0	-13.8	20.0
Dichlorofluoromethane	Ave	0.5279	0.5111	0.0100	9.68	10.0	-3.2	20.0
Trichlorofluoromethane	Ave	0.4130	0.4212	0.1000	10.2	10.0	2.0	20.0
Ethyl ether	Ave	0.3150	0.3023	0.0100	9.60	10.0	-4.0	20.0
Acrolein	Ave	0.0500	0.0337	0.0100	20.2	30.0	-32.6*	20.0
1,1-Dichloroethene	Ave	0.2807	0.2714	0.1000	9.67	10.0	-3.3	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2839	0.2810	0.1000	9.90	10.0	-1.0	20.0
Acetone	Ave	0.0884	0.0929	0.0500	21.0	20.0	5.1	20.0
Iodomethane	Ave	0.4159	0.3255	0.0100	7.83	10.0	-21.7*	20.0
Carbon disulfide	Ave	0.8315	0.6445	0.1000	7.75	10.0	-22.5*	20.0
Allyl chloride	Ave	0.1823	0.1545	0.0100	8.47	10.0	-15.3	20.0
Methyl acetate	Ave	0.2165	0.2563	0.1000	59.2	50.0	18.4	20.0
Methylene Chloride	Ave	0.4104	0.3250	0.1000	7.92	10.0	-20.8*	20.0
tert-Butyl alcohol	Ave	1.130	1.144	0.0100	101	100	1.2	20.0
Acrylonitrile	Ave	0.1129	0.1371	0.0100	121	100	21.5*	20.0
Methyl tert-butyl ether	Ave	0.8884	0.8324	0.1000	9.37	10.0	-6.3	20.0
trans-1,2-Dichloroethene	Ave	0.3380	0.2955	0.1000	8.74	10.0	-12.6	20.0
Hexane	Ave	0.4863	0.4186	0.0100	8.61	10.0	-13.9	20.0
1,1-Dichloroethane	Ave	0.6538	0.5505	0.2000	8.42	10.0	-15.8	20.0
Vinyl acetate	Ave	0.3399	0.3866	0.0100	11.4	10.0	13.7	20.0
2,2-Dichloropropane	Ave	0.3707	0.2366	0.0100	6.38	10.0	-36.2*	20.0
2-Butanone (MEK)	Ave	0.1134	0.1009	0.0500	17.8	20.0	-11.0	20.0
cis-1,2-Dichloroethene	Ave	0.3585	0.3063	0.1000	8.54	10.0	-14.6	20.0
Bromochloromethane	Ave	0.1427	0.1236	0.0100	8.66	10.0	-13.4	20.0
Tetrahydrofuran	Ave	0.0815	0.0909	0.0100	22.3	20.0	11.6	20.0
Chloroform	Ave	0.5629	0.5147	0.2000	9.14	10.0	-8.6	20.0
1,1,1-Trichloroethane	Ave	0.4288	0.3710	0.1000	8.65	10.0	-13.5	20.0
Cyclohexane	Ave	0.6908	0.6178	0.1000	8.94	10.0	-10.6	20.0
Carbon tetrachloride	Ave	0.3357	0.2747	0.1000	8.19	10.0	-18.1	20.0
1,1-Dichloropropene	Ave	0.4279	0.3874	0.0100	9.05	10.0	-9.5	20.0
Isobutyl alcohol	Ave	0.0067	0.0090*	0.0100	340	250	35.9*	20.0
Benzene	Ave	1.242	1.193	0.5000	9.61	10.0	-3.9	20.0
1,2-Dichloroethane	Ave	0.4076	0.4512	0.1000	11.1	10.0	10.7	20.0
n-Heptane	Ave	0.3955	0.3089	0.0100	7.81	10.0	-21.9*	20.0
Trichloroethene	Ave	0.2828	0.2395	0.2000	8.47	10.0	-15.3	20.0
Methylcyclohexane	Ave	0.5572	0.4666	0.1000	8.37	10.0	-16.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-136799/2 Calibration Date: 03/27/2015 12:48
 Instrument ID: CHHP6 Calib Start Date: 01/28/2015 13:58
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 01/28/2015 16:44
 Lab File ID: 60327002.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	0.3285	0.2756	0.1000	8.39	10.0	-16.1	20.0
1,4-Dioxane	Ave	0.0021	0.0029*	0.0100	277	200	38.7*	20.0
Dibromomethane	Ave	0.1468	0.1650	0.0100	11.2	10.0	12.4	20.0
Bromodichloromethane	Ave	0.3444	0.3171	0.2000	9.21	10.0	-7.9	20.0
cis-1,3-Dichloropropene	Ave	0.3952	0.3387	0.2000	8.57	10.0	-14.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.128	1.141	0.1000	20.2	20.0	1.2	20.0
Toluene	Ave	5.112	5.701	0.4000	11.2	10.0	11.5	20.0
trans-1,3-Dichloropropene	Ave	1.402	1.314	0.1000	9.37	10.0	-6.3	20.0
Ethyl methacrylate	Ave	1.290	1.543	0.0100	12.0	10.0	19.6	20.0
1,1,2-Trichloroethane	Ave	0.9282	1.052	0.1000	11.3	10.0	13.3	20.0
Tetrachloroethene	Ave	0.9129	1.001	0.2000	11.0	10.0	9.6	20.0
1,3-Dichloropropane	Ave	1.726	2.049	0.0100	11.9	10.0	18.7	20.0
2-Hexanone	Ave	0.6436	0.6810	0.1000	21.2	20.0	5.8	20.0
Dibromochloromethane	Ave	0.7880	0.7744	0.1000	9.83	10.0	-1.7	20.0
1,2-Dibromoethane (EDB)	Ave	0.8444	1.026	0.1000	12.1	10.0	21.5*	20.0
3-Chlorobenzotrifluoride	Ave	1.778	1.840	0.0100	10.3	10.0	3.5	20.0
Chlorobenzene	Ave	3.190	3.205	0.5000	10.0	10.0	0.5	20.0
4-Chlorobenzotrifluoride	Ave	1.655	1.706	0.0100	10.3	10.0	3.1	20.0
1,1,1,2-Tetrachloroethane	Ave	1.100	0.9407	0.0100	8.55	10.0	-14.5	20.0
Ethylbenzene	Ave	1.914	1.713	0.1000	8.95	10.0	-10.5	20.0
m-Xylene & p-Xylene	Ave	2.363	2.204	0.1000	9.33	10.0	-6.7	20.0
o-Xylene	Ave	2.428	2.089	0.3000	8.60	10.0	-14.0	20.0
Styrene	Ave	3.575	3.678	0.3000	10.3	10.0	2.9	20.0
Bromoform	Ave	0.4220	0.4381	0.1000	10.4	10.0	3.8	20.0
2-Chlorobenzotrifluoride	Ave	1.855	1.884	0.0100	10.2	10.0	1.6	20.0
Isopropylbenzene	Ave	5.986	5.410	0.1000	9.04	10.0	-9.6	20.0
1,1,2,2-Tetrachloroethane	Ave	1.248	1.471	0.3000	11.8	10.0	17.8	20.0
Bromobenzene	Ave	0.8752	0.8063	0.0100	9.21	10.0	-7.9	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2461	0.2658	0.0100	10.8	10.0	8.0	20.0
1,2,3-Trichloropropane	Ave	0.2561	0.3101	0.0100	12.1	10.0	21.1*	20.0
N-Propylbenzene	Ave	1.046	0.9632	0.0100	9.21	10.0	-7.9	20.0
2-Chlorotoluene	Ave	0.9215	0.8359	0.0100	9.07	10.0	-9.3	20.0
3-Chlorotoluene	Ave	0.9634	1.002	0.0100	10.4	10.0	4.0	20.0
1,3,5-Trimethylbenzene	Ave	3.361	3.305	0.0100	9.83	10.0	-1.7	20.0
4-Chlorotoluene	Ave	0.9458	0.8533	0.0100	9.02	10.0	-9.8	20.0
tert-Butylbenzene	Ave	2.616	2.461	0.0100	9.41	10.0	-5.9	20.0
1,2,4-Trimethylbenzene	Ave	3.478	3.381	0.0100	9.72	10.0	-2.8	20.0
3,4-Dichlorobenzotrifluoride	Ave	0.9718	1.020	0.0100	10.5	10.0	5.0	20.0
sec-Butylbenzene	Ave	4.045	3.754	0.0100	9.28	10.0	-7.2	20.0
1,3-Dichlorobenzene	Ave	1.715	1.620	0.6000	9.45	10.0	-5.5	20.0
4-Isopropyltoluene	Ave	3.281	3.205	0.0100	9.77	10.0	-2.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-136799/2 Calibration Date: 03/27/2015 12:48
 Instrument ID: CHHP6 Calib Start Date: 01/28/2015 13:58
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 01/28/2015 16:44
 Lab File ID: 60327002.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	1.774	1.637	0.5000	9.23	10.0	-7.7	20.0
2,4-Dichlorobenzotrifluoride	Ave	0.9753	1.068	0.0100	10.9	10.0	9.5	20.0
2,5-Dichlorobenzotrifluoride	Ave	1.075	1.078	0.0100	10.0	10.0	0.3	20.0
n-Butylbenzene	Ave	3.155	2.974	0.0100	9.43	10.0	-5.7	20.0
1,2-Dichlorobenzene	Ave	1.714	1.705	0.4000	9.95	10.0	-0.5	20.0
2,4- & 2,5- & 2,6-Dichlorotoluene	Ave	1.609	1.626	0.0100	30.3	30.0	1.1	20.0
2,3- & 3,4- Dichlorotoluene	Ave	1.757	1.833	0.0100	20.9	20.0	4.3	20.0
1,2,4-Trichlorobenzene	Ave	1.328	1.234	0.2000	9.29	10.0	-7.1	20.0
Hexachlorobutadiene	Ave	0.5193	0.4906	0.0100	9.45	10.0	-5.5	20.0
Naphthalene	Ave	2.282	2.707	0.0100	11.9	10.0	18.6	20.0
1,2,3-Trichlorobenzene	Ave	1.111	1.131	0.0100	10.2	10.0	1.8	20.0
2,4,5-Trichlorotoluene	Ave	0.8175	0.7269	0.0100	8.89	10.0	-11.1	20.0
2,3,6-Trichlorotoluene	Ave	0.7286	0.7167	0.0100	9.84	10.0	-1.6	20.0
Dibromofluoromethane (Surr)	Ave	0.2262	0.2174		9.61	10.0	-3.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3237	0.3467		10.7	10.0	7.1	20.0
Toluene-d8 (Surr)	Ave	3.941	4.155		10.5	10.0	5.4	20.0
4-Bromofluorobenzene (Surr)	Ave	1.677	1.688		10.1	10.0	0.7	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\60327002.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 27-Mar-2015 12:48:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 180-0006216-002
 Operator ID: 001562 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub5
 Method: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 27-Mar-2015 15:53:13 Calib Date: 28-Jan-2015 16:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK009

First Level Reviewer: fergusond

Date: 27-Mar-2015 13:16:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.285	4.285	0.000	94	246816	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.327	7.327	0.000	97	568599	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.436	10.436	0.000	92	117115	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.790	12.790	0.000	95	176682	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.597	6.597	0.000	93	123616	50.0	48.1	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.974	6.974	0.000	50	197137	50.0	53.6	
\$ 7 Toluene-d8 (Surr)	98	8.982	8.982	0.000	93	486616	50.0	52.7	
\$ 8 4-Bromofluorobenzene (Surr	95	11.628	11.628	0.000	80	197714	50.0	50.3	
11 Dichlorodifluoromethane	85	1.615	1.615	0.000	99	142085	50.0	47.2	
12 Chloromethane	50	1.767	1.767	0.000	99	182098	50.0	39.3	M
13 Vinyl chloride	62	1.900	1.900	0.000	97	178274	50.0	43.4	
14 Butadiene	39	1.943	1.943	0.000	88	174377	50.0	39.8	
15 Bromomethane	94	2.235	2.235	0.000	92	83988	50.0	51.0	
16 Chloroethane	64	2.387	2.387	0.000	99	108533	50.0	43.1	
17 Dichlorofluoromethane	67	2.667	2.667	0.000	96	290592	50.0	48.4	
18 Trichlorofluoromethane	101	2.703	2.703	0.000	97	239471	50.0	51.0	
20 Ethyl ether	59	3.075	3.075	0.000	94	171857	50.0	48.0	
21 Acrolein	56	3.245	3.245	0.000	99	57448	150.0	101.1	
22 1,1-Dichloroethene	96	3.373	3.373	0.000	94	154296	50.0	48.3	
23 1,1,2-Trichloro-1,2,2-trif	101	3.440	3.440	0.000	94	159762	50.0	49.5	
24 Acetone	43	3.458	3.458	0.000	99	105682	100.0	105.1	
25 Iodomethane	142	3.573	3.573	0.000	98	185090	50.0	39.1	
26 Carbon disulfide	76	3.683	3.683	0.000	99	366456	50.0	38.8	
29 3-Chloro-1-propene	76	3.951	3.951	0.000	62	87853	50.0	42.4	
30 Methyl acetate	43	3.963	3.963	0.000	97	728613	250.0	296.0	
31 Methylene Chloride	84	4.170	4.170	0.000	98	184786	50.0	39.6	
32 2-Methyl-2-propanol	59	4.413	4.413	0.000	93	141152	500.0	506.1	
33 Acrylonitrile	53	4.541	4.541	0.000	100	779674	500.0	607.4	
34 trans-1,2-Dichloroethene	96	4.608	4.608	0.000	68	168028	50.0	43.7	
35 Methyl tert-butyl ether	73	4.608	4.608	0.000	96	473312	50.0	46.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	5.027	5.027	0.000	93	238011	50.0	43.0	
37 1,1-Dichloroethane	63	5.240	5.240	0.000	96	312983	50.0	42.1	
38 Vinyl acetate	43	5.277	5.277	0.000	98	219841	50.0	56.9	
43 cis-1,2-Dichloroethene	96	5.982	5.982	0.000	84	174165	50.0	42.7	
42 2,2-Dichloropropane	77	5.982	5.982	0.000	58	134542	50.0	31.9	
44 2-Butanone (MEK)	43	5.982	5.982	0.000	50	114730	100.0	89.0	
48 Chlorobromomethane	128	6.274	6.274	0.000	90	70280	50.0	43.3	
49 Tetrahydrofuran	42	6.287	6.287	0.000	93	103360	100.0	111.6	
50 Chloroform	83	6.420	6.420	0.000	94	292632	50.0	45.7	
51 1,1,1-Trichloroethane	97	6.579	6.579	0.000	97	210956	50.0	43.3	
52 Cyclohexane	56	6.664	6.664	0.000	95	351297	50.0	44.7	
53 Carbon tetrachloride	117	6.761	6.761	0.000	72	156219	50.0	40.9	
54 1,1-Dichloropropene	75	6.767	6.767	0.000	93	220295	50.0	45.3	
55 Isobutyl alcohol	41	6.931	6.931	0.000	89	128514	1250.0	1699.0	
56 Benzene	78	6.980	6.980	0.000	96	678225	50.0	48.0	
57 1,2-Dichloroethane	62	7.059	7.059	0.000	97	256521	50.0	55.3	
59 n-Heptane	43	7.345	7.345	0.000	91	175652	50.0	39.1	
61 Trichloroethene	130	7.716	7.716	0.000	94	136156	50.0	42.3	
63 Methylcyclohexane	83	7.966	7.966	0.000	95	265284	50.0	41.9	
64 1,2-Dichloropropane	63	7.990	7.990	0.000	93	156689	50.0	41.9	
65 1,4-Dioxane	88	8.069	8.069	0.000	51	32419	1000.0	1387.2	M
67 Dibromomethane	93	8.081	8.081	0.000	93	93815	50.0	56.2	
68 Dichlorobromomethane	83	8.276	8.276	0.000	98	180324	50.0	46.0	
71 cis-1,3-Dichloropropene	75	8.714	8.714	0.000	93	192570	50.0	42.8	
72 4-Methyl-2-pentanone (MIBK)	43	8.854	8.854	0.000	96	267290	100.0	101.2	
73 Toluene	91	9.049	9.049	0.000	99	667708	50.0	55.8	
74 trans-1,3-Dichloropropene	75	9.292	9.292	0.000	95	153891	50.0	46.9	
75 Ethyl methacrylate	69	9.347	9.347	0.000	90	180712	50.0	59.8	
76 1,1,2-Trichloroethane	97	9.487	9.487	0.000	93	123196	50.0	56.7	
77 Tetrachloroethene	164	9.566	9.566	0.000	92	117222	50.0	54.8	
78 1,3-Dichloropropane	76	9.651	9.651	0.000	92	239988	50.0	59.4	
79 2-Hexanone	43	9.693	9.693	0.000	95	159519	100.0	105.8	
81 Chlorodibromomethane	129	9.870	9.870	0.000	91	90692	50.0	49.1	
82 Ethylene Dibromide	107	9.985	9.985	0.000	98	120112	50.0	60.7	
83 3-Chlorobenzotrifluoride	180	10.429	10.429	0.000	92	215490	50.0	51.7	
84 Chlorobenzene	112	10.466	10.466	0.000	91	375391	50.0	50.2	
85 4-Chlorobenzotrifluoride	180	10.521	10.521	0.000	97	199852	50.0	51.6	
86 1,1,1,2-Tetrachloroethane	131	10.563	10.563	0.000	89	110170	50.0	42.8	
87 Ethylbenzene	106	10.569	10.569	0.000	99	200638	50.0	44.7	
88 m-Xylene & p-Xylene	106	10.697	10.697	0.000	99	258110	50.0	46.6	
89 o-Xylene	106	11.080	11.080	0.000	98	244639	50.0	43.0	
90 Styrene	104	11.099	11.099	0.000	95	430742	50.0	51.4	
91 Bromoform	173	11.287	11.287	0.000	94	51311	50.0	51.9	
92 2-Chlorobenzotrifluoride	180	11.342	11.342	0.000	94	220622	50.0	50.8	
93 Isopropylbenzene	105	11.445	11.445	0.000	98	633559	50.0	45.2	
96 1,1,2,2-Tetrachloroethane	83	11.756	11.756	0.000	96	172243	50.0	58.9	
95 Bromobenzene	156	11.768	11.768	0.000	97	142466	50.0	46.1	
97 trans-1,4-Dichloro-2-buten	53	11.792	11.792	0.000	77	46955	50.0	54.0	
98 1,2,3-Trichloropropane	110	11.810	11.810	0.000	84	54787	50.0	60.5	
99 N-Propylbenzene	120	11.865	11.865	0.000	99	170187	50.0	46.1	
100 2-Chlorotoluene	126	11.956	11.956	0.000	94	147690	50.0	45.4	
101 3-Chlorotoluene	126	12.017	12.017	0.000	97	177023	50.0	52.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.048	12.048	0.000	95	584020	50.0	49.2	
103 4-Chlorotoluene	126	12.084	12.084	0.000	99	150767	50.0	45.1	
104 tert-Butylbenzene	119	12.364	12.364	0.000	91	434808	50.0	47.0	
106 1,2,4-Trimethylbenzene	105	12.425	12.425	0.000	99	597384	50.0	48.6	
107 1,2-dichloro-4-(trifluorom	214	12.455	12.455	0.000	96	180221	50.0	52.5	
108 sec-Butylbenzene	105	12.589	12.589	0.000	96	663250	50.0	46.4	
109 1,3-Dichlorobenzene	146	12.711	12.711	0.000	94	286258	50.0	47.2	
110 4-Isopropyltoluene	119	12.747	12.747	0.000	96	566262	50.0	48.8	
111 1,4-Dichlorobenzene	146	12.814	12.814	0.000	90	289287	50.0	46.2	
113 2,4-Dichloro-1-(trifluorom	214	12.832	12.832	0.000	96	188664	50.0	54.7	
114 2,5-Dichlorobenzotrifluori	214	12.869	12.869	0.000	97	190447	50.0	50.1	
116 n-Butylbenzene	91	13.155	13.155	0.000	97	525530	50.0	47.1	
117 1,2-Dichlorobenzene	146	13.167	13.167	0.000	92	301193	50.0	49.7	
118 1,2-Dibromo-3-Chloropropan	75	13.958	13.964	-0.006	67	28977	50.0	59.9	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.104	14.104	0.000	98	861745	150.0	151.6	
121 2,3- & 3,4- Dichlorotoluen	125	14.518	14.518	0.000	98	647773	100.0	104.3	
122 1,2,4-Trichlorobenzene	180	14.785	14.785	0.000	93	218007	50.0	46.5	
123 Hexachlorobutadiene	225	14.931	14.931	0.000	95	86676	50.0	47.2	
124 Naphthalene	128	15.053	15.053	0.000	98	478331	50.0	59.3	
125 1,2,3-Trichlorobenzene	180	15.278	15.278	0.000	94	199839	50.0	50.9	
126 2,4,5-Trichlorotoluene	159	16.045	16.045	0.000	0	128430	50.0	44.5	
127 2,3,6-Trichlorotoluene	159	16.148	16.148	0.000	90	126633	50.0	49.2	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
S 131 Xylenes, Total	106				0		100.0	89.7	
S 130 1,2-Dichloroethene, Total	96				0		100.0	86.4	
S 132 1,3-Dichloropropene, Total	1				0		100.0	89.7	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

voaW8260voaPr_00005	Amount Added: 2.00	Units: uL	
voaWEEpri Res_00003	Amount Added: 2.00	Units: uL	
VOACRPRI_00003	Amount Added: 6.00	Units: uL	
VOAVAPRI_00005	Amount Added: 2.00	Units: uL	
voaWKet2 Rest_00002	Amount Added: 2.00	Units: uL	
VOA8260INT_00030	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00032	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\60327002.D

Injection Date: 27-Mar-2015 12:48:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

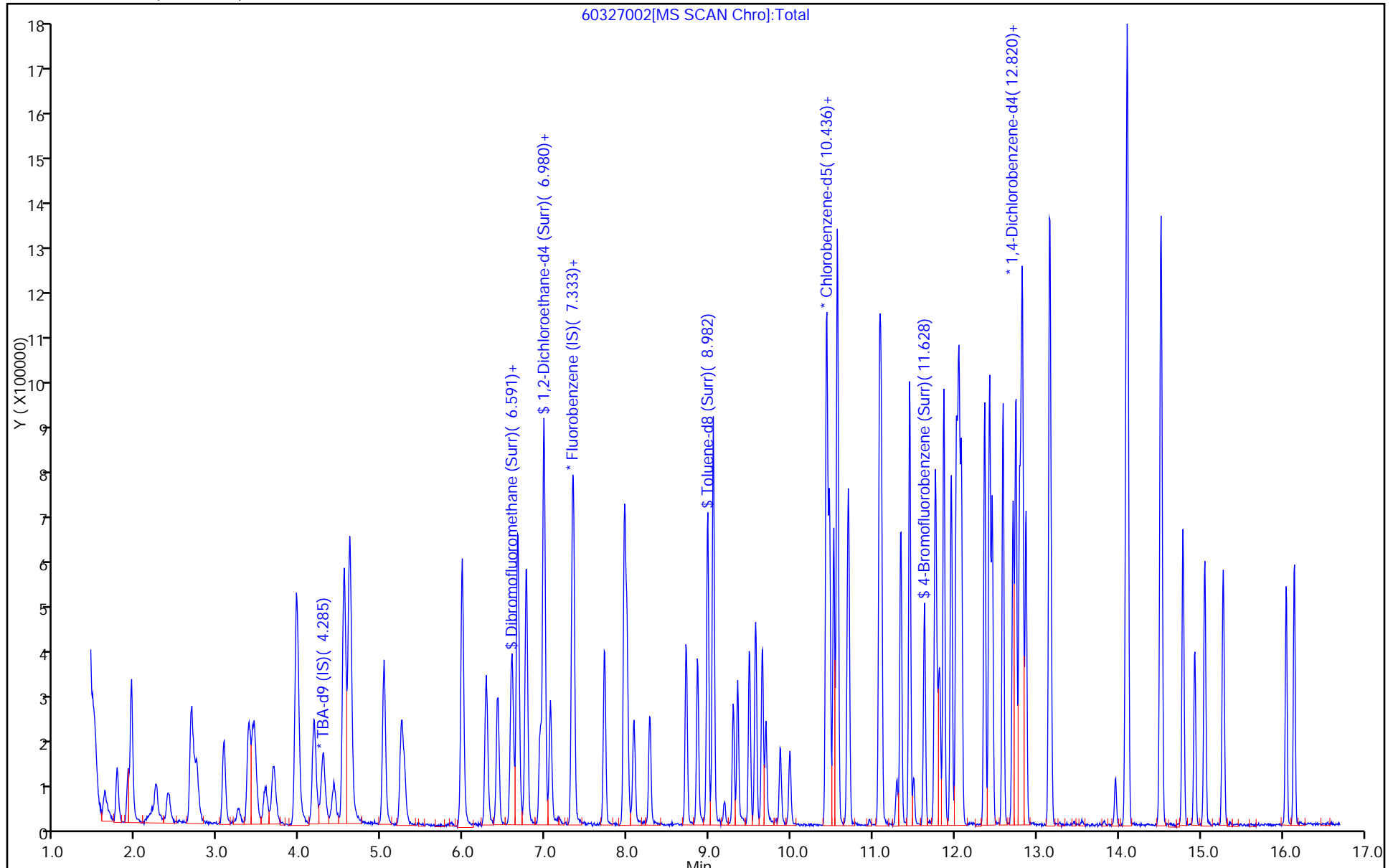
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



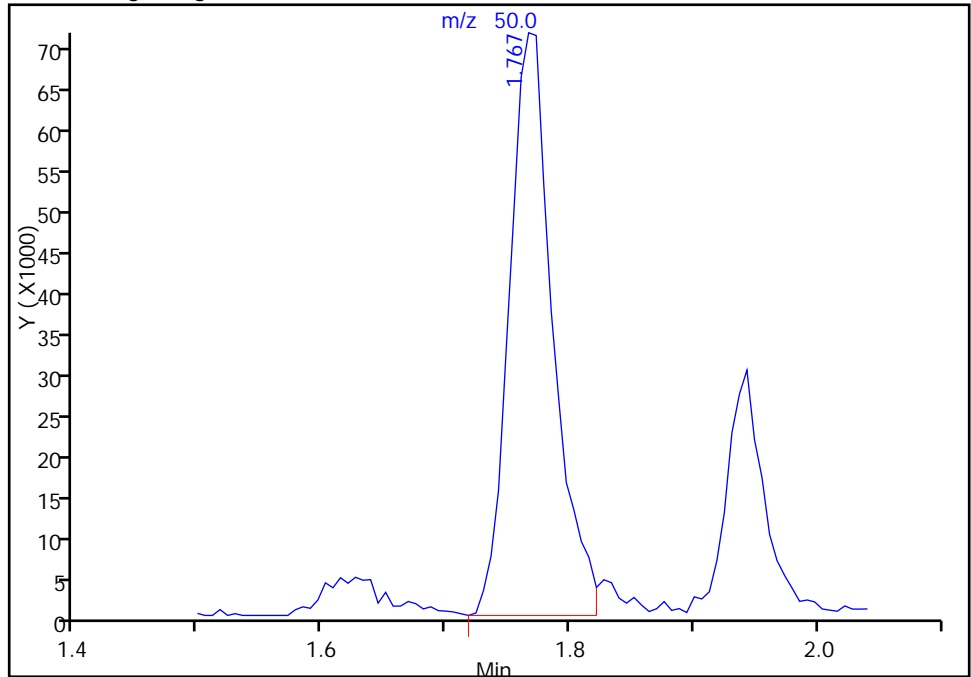
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\60327002.D
Injection Date: 27-Mar-2015 12:48:30 Instrument ID: CHHP6
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_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

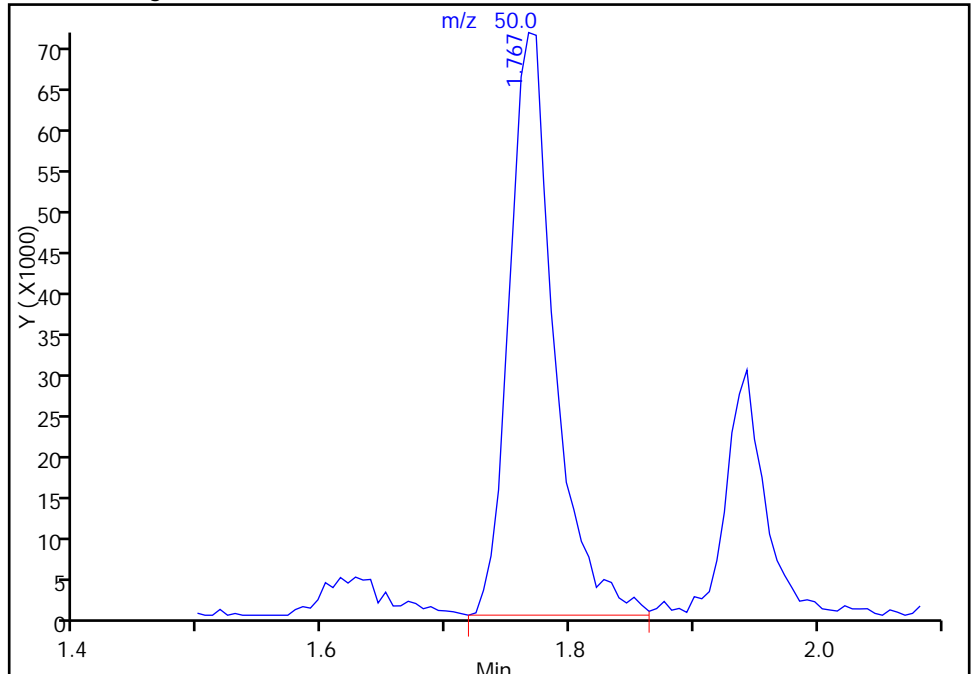
RT: 1.77
Area: 176354
Amount: 38.057342
Amount Units: ng

Processing Integration Results



RT: 1.77
Area: 182098
Amount: 39.296902
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 27-Mar-2015 13:16:01
Audit Action: Manually Integrated
Audit Reason: Peak Tail

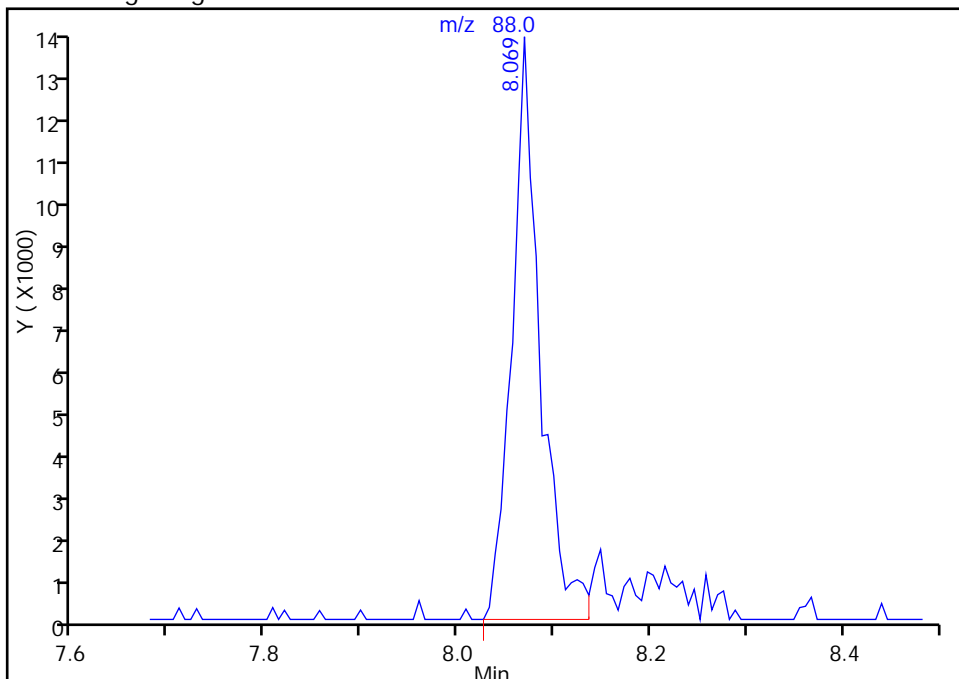
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\60327002.D
Injection Date: 27-Mar-2015 12:48:30 Instrument ID: CHHP6
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_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

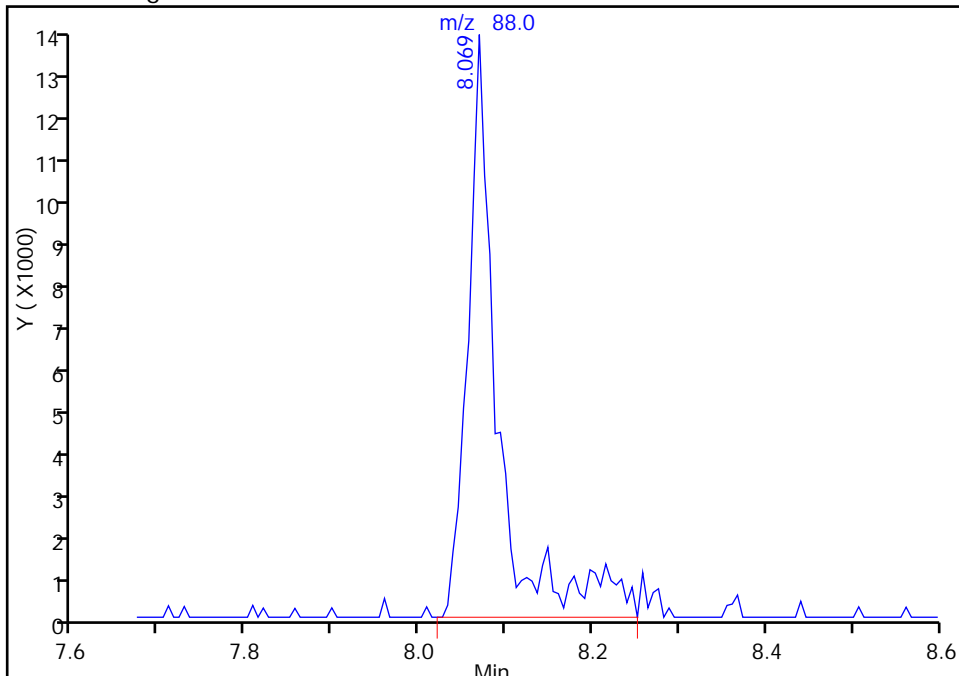
RT: 8.07
Area: 27190
Amount: 1121.6489
Amount Units: ng

Processing Integration Results



RT: 8.07
Area: 32419
Amount: 1387.1837
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 27-Mar-2015 13:16:01
Audit Action: Manually Integrated
Audit Reason: Peak Tail

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-136938/2 Calibration Date: 03/30/2015 10:12
 Instrument ID: CHHP6 Calib Start Date: 09/11/2014 11:23
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 09/11/2014 13:46
 Lab File ID: 60330002.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-Dibromo-3-Chloropropane	Ave	0.1419	0.1846	0.0500	13.5	10.0	30.1*	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330002.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 30-Mar-2015 10:12:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 180-0006236-002
 Operator ID: 001562 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub5
 Method: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 30-Mar-2015 12:55:18 Calib Date: 28-Jan-2015 16:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: fergusond

Date: 30-Mar-2015 10:45:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.284	4.284	0.000	92	229623	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.332	7.332	0.000	97	505716	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.440	10.440	0.000	91	107308	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.795	12.795	0.000	95	167539	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.596	6.596	0.000	94	115432	50.0	50.5	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.973	6.973	0.000	70	189937	50.0	58.0	
\$ 7 Toluene-d8 (Surr)	98	8.980	8.980	0.000	94	447392	50.0	52.9	
\$ 8 4-Bromofluorobenzene (Surr	95	11.627	11.627	0.000	82	183399	50.0	51.0	
11 Dichlorodifluoromethane	85	1.632	1.632	0.000	96	115503	50.0	43.1	
12 Chloromethane	50	1.765	1.765	0.000	99	160281	50.0	38.9	
13 Vinyl chloride	62	1.899	1.899	0.000	98	145532	50.0	39.8	
14 Butadiene	39	1.942	1.942	0.000	90	154310	50.0	39.6	
15 Bromomethane	94	2.246	2.246	0.000	92	71448	50.0	48.7	
16 Chloroethane	64	2.392	2.392	0.000	98	101838	50.0	45.5	
17 Dichlorofluoromethane	67	2.672	2.672	0.000	97	269214	50.0	50.4	
18 Trichlorofluoromethane	101	2.714	2.714	0.000	81	222408	50.0	53.2	
20 Ethyl ether	59	3.061	3.061	0.000	96	163401	50.0	51.3	
21 Acrolein	56	3.244	3.244	0.000	94	47834	150.0	94.6	
22 1,1-Dichloroethene	96	3.371	3.371	0.000	93	142948	50.0	50.3	
23 1,1,2-Trichloro-1,2,2-trif	101	3.432	3.432	0.000	96	152322	50.0	53.0	
24 Acetone	43	3.451	3.451	0.000	96	128733	100.0	143.9	
25 Iodomethane	142	3.584	3.584	0.000	97	182725	50.0	43.4	
26 Carbon disulfide	76	3.682	3.682	0.000	99	363482	50.0	43.2	
29 3-Chloro-1-propene	76	3.962	3.962	0.000	60	89201	50.0	48.4	
30 Methyl acetate	43	3.968	3.968	0.000	98	676422	250.0	308.9	
31 Methylene Chloride	84	4.168	4.168	0.000	98	177457	50.0	42.7	
32 2-Methyl-2-propanol	59	4.412	4.412	0.000	93	147622	500.0	568.9	
33 Acrylonitrile	53	4.539	4.539	0.000	100	758843	500.0	664.7	
35 Methyl tert-butyl ether	73	4.606	4.606	0.000	98	463869	50.0	51.6	
34 trans-1,2-Dichloroethene	96	4.606	4.606	0.000	73	158707	50.0	46.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	5.026	5.026	0.000	93	223252	50.0	45.4	
37 1,1-Dichloroethane	63	5.239	5.239	0.000	96	304824	50.0	46.1	
38 Vinyl acetate	43	5.276	5.276	0.000	97	243125	50.0	70.7	
42 2,2-Dichloropropane	77	5.975	5.975	0.000	58	139214	50.0	37.1	
43 cis-1,2-Dichloroethene	96	5.981	5.981	0.000	84	172086	50.0	47.5	
44 2-Butanone (MEK)	43	5.987	5.987	0.000	59	127745	100.0	111.4	
48 Chlorobromomethane	128	6.273	6.273	0.000	91	69111	50.0	47.9	
49 Tetrahydrofuran	42	6.285	6.285	0.000	93	100559	100.0	122.0	
50 Chloroform	83	6.413	6.413	0.000	96	276673	50.0	48.6	
51 1,1,1-Trichloroethane	97	6.584	6.584	0.000	96	209978	50.0	48.4	
52 Cyclohexane	56	6.663	6.663	0.000	95	331508	50.0	47.4	
53 Carbon tetrachloride	117	6.760	6.760	0.000	95	156342	50.0	46.1	
54 1,1-Dichloropropene	75	6.766	6.766	0.000	95	219409	50.0	50.7	
55 Isobutyl alcohol	41	6.936	6.936	0.000	91	122610	1250.0	1822.5	
56 Benzene	78	6.985	6.985	0.000	98	650973	50.0	51.8	
57 1,2-Dichloroethane	62	7.058	7.058	0.000	98	251940	50.0	61.1	
59 n-Heptane	43	7.344	7.344	0.000	90	176958	50.0	44.2	
61 Trichloroethene	130	7.721	7.721	0.000	91	131704	50.0	46.1	
63 Methylcyclohexane	83	7.964	7.964	0.000	95	255851	50.0	45.4	
64 1,2-Dichloropropane	63	7.989	7.989	0.000	89	159226	50.0	47.9	
65 1,4-Dioxane	88	8.074	8.074	0.000	43	26985	1000.0	1298.2	
67 Dibromomethane	93	8.080	8.080	0.000	93	93240	50.0	62.8	
68 Dichlorobromomethane	83	8.275	8.275	0.000	98	183918	50.0	52.8	
71 cis-1,3-Dichloropropene	75	8.719	8.719	0.000	91	200499	50.0	50.2	
72 4-Methyl-2-pentanone (MIBK)	43	8.859	8.859	0.000	97	262287	100.0	108.3	
73 Toluene	91	9.047	9.047	0.000	98	602533	50.0	54.9	
74 trans-1,3-Dichloropropene	75	9.297	9.297	0.000	95	158215	50.0	52.6	
75 Ethyl methacrylate	69	9.345	9.345	0.000	91	167339	50.0	60.4	
76 1,1,2-Trichloroethane	97	9.485	9.485	0.000	95	117527	50.0	59.0	
77 Tetrachloroethene	164	9.571	9.571	0.000	93	107630	50.0	54.9	
78 1,3-Dichloropropane	76	9.650	9.650	0.000	94	231866	50.0	62.6	
79 2-Hexanone	43	9.692	9.692	0.000	96	209781	100.0	151.9	
81 Chlorodibromomethane	129	9.863	9.863	0.000	89	97546	50.0	57.7	
82 Ethylene Dibromide	107	9.984	9.984	0.000	99	107986	50.0	59.6	
83 3-Chlorobenzotrifluoride	180	10.428	10.428	0.000	90	196382	50.0	51.5	
84 Chlorobenzene	112	10.471	10.471	0.000	91	371531	50.0	54.3	
85 4-Chlorobenzotrifluoride	180	10.520	10.520	0.000	96	185352	50.0	52.2	
86 1,1,1,2-Tetrachloroethane	131	10.562	10.562	0.000	89	114183	50.0	48.4	
87 Ethylbenzene	106	10.568	10.568	0.000	99	198410	50.0	48.3	
88 m-Xylene & p-Xylene	106	10.696	10.696	0.000	100	246171	50.0	48.6	
89 o-Xylene	106	11.079	11.079	0.000	97	247242	50.0	47.4	
90 Styrene	104	11.104	11.104	0.000	94	416029	50.0	54.2	
91 Bromoform	173	11.292	11.292	0.000	92	50246	50.0	55.5	
92 2-Chlorobenzotrifluoride	180	11.341	11.341	0.000	96	208858	50.0	52.5	
93 Isopropylbenzene	105	11.444	11.444	0.000	98	634772	50.0	49.4	
96 1,1,2,2-Tetrachloroethane	83	11.754	11.754	0.000	96	171331	50.0	64.0	
95 Bromobenzene	156	11.767	11.767	0.000	95	139120	50.0	47.4	
97 trans-1,4-Dichloro-2-buten	53	11.797	11.797	0.000	77	50617	50.0	61.4	
98 1,2,3-Trichloropropane	110	11.815	11.815	0.000	84	53004	50.0	61.8	
99 N-Propylbenzene	120	11.864	11.864	0.000	99	172549	50.0	49.2	
100 2-Chlorotoluene	126	11.955	11.955	0.000	95	147603	50.0	47.8	
101 3-Chlorotoluene	126	12.016	12.016	0.000	97	157247	50.0	48.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.046	12.046	0.000	94	569179	50.0	50.5	
103 4-Chlorotoluene	126	12.077	12.077	0.000	98	152955	50.0	48.3	
104 tert-Butylbenzene	119	12.363	12.363	0.000	92	429155	50.0	49.0	
106 1,2,4-Trimethylbenzene	105	12.424	12.424	0.000	98	593695	50.0	50.9	
107 1,2-dichloro-4-(trifluorom	214	12.454	12.454	0.000	98	173492	50.0	53.3	
108 sec-Butylbenzene	105	12.588	12.588	0.000	96	641847	50.0	47.4	
109 1,3-Dichlorobenzene	146	12.710	12.710	0.000	95	288835	50.0	50.3	
110 4-Isopropyltoluene	119	12.746	12.746	0.000	96	538894	50.0	49.0	
111 1,4-Dichlorobenzene	146	12.819	12.819	0.000	89	299346	50.0	50.4	
113 2,4-Dichloro-1-(trifluorom	214	12.831	12.831	0.000	92	172910	50.0	52.9	
114 2,5-Dichlorobenzotrifluori	214	12.868	12.868	0.000	98	185416	50.0	51.5	
116 n-Butylbenzene	91	13.154	13.154	0.000	99	521351	50.0	49.3	
117 1,2-Dichlorobenzene	146	13.166	13.166	0.000	91	290040	50.0	50.5	
118 1,2-Dibromo-3-Chloropropan	75	13.957	13.957	0.000	68	30935	50.0	67.5	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.103	14.103	0.000	99	819804	150.0	152.1	
121 2,3- & 3,4- Dichlorotoluen	125	14.516	14.516	0.000	98	612586	100.0	104.0	
122 1,2,4-Trichlorobenzene	180	14.784	14.784	0.000	94	216183	50.0	48.6	
123 Hexachlorobutadiene	225	14.930	14.930	0.000	92	84225	50.0	48.4	
124 Naphthalene	128	15.052	15.052	0.000	98	490042	50.0	64.1	
125 1,2,3-Trichlorobenzene	180	15.277	15.277	0.000	95	199431	50.0	53.6	
126 2,4,5-Trichlorotoluene	159	16.049	16.049	0.000	0	119873	50.0	43.8	
127 2,3,6-Trichlorotoluene	159	16.147	16.147	0.000	90	110299	50.0	45.2	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		100.0	93.9	
S 131 Xylenes, Total	106				0		100.0	96.0	
S 132 1,3-Dichloropropene, Total	1				0		100.0	102.7	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOA8260VOAPRI_00108	Amount Added: 2.00	Units: uL	
voaWEEpri Res_00003	Amount Added: 2.00	Units: uL	
VOAACRPRI_00003	Amount Added: 6.00	Units: uL	
VOAVAPRI_00005	Amount Added: 2.00	Units: uL	
voaWKet2 Rest_00002	Amount Added: 2.00	Units: uL	
VOA8260INT_00030	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00032	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330002.D

Injection Date: 30-Mar-2015 10:12:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

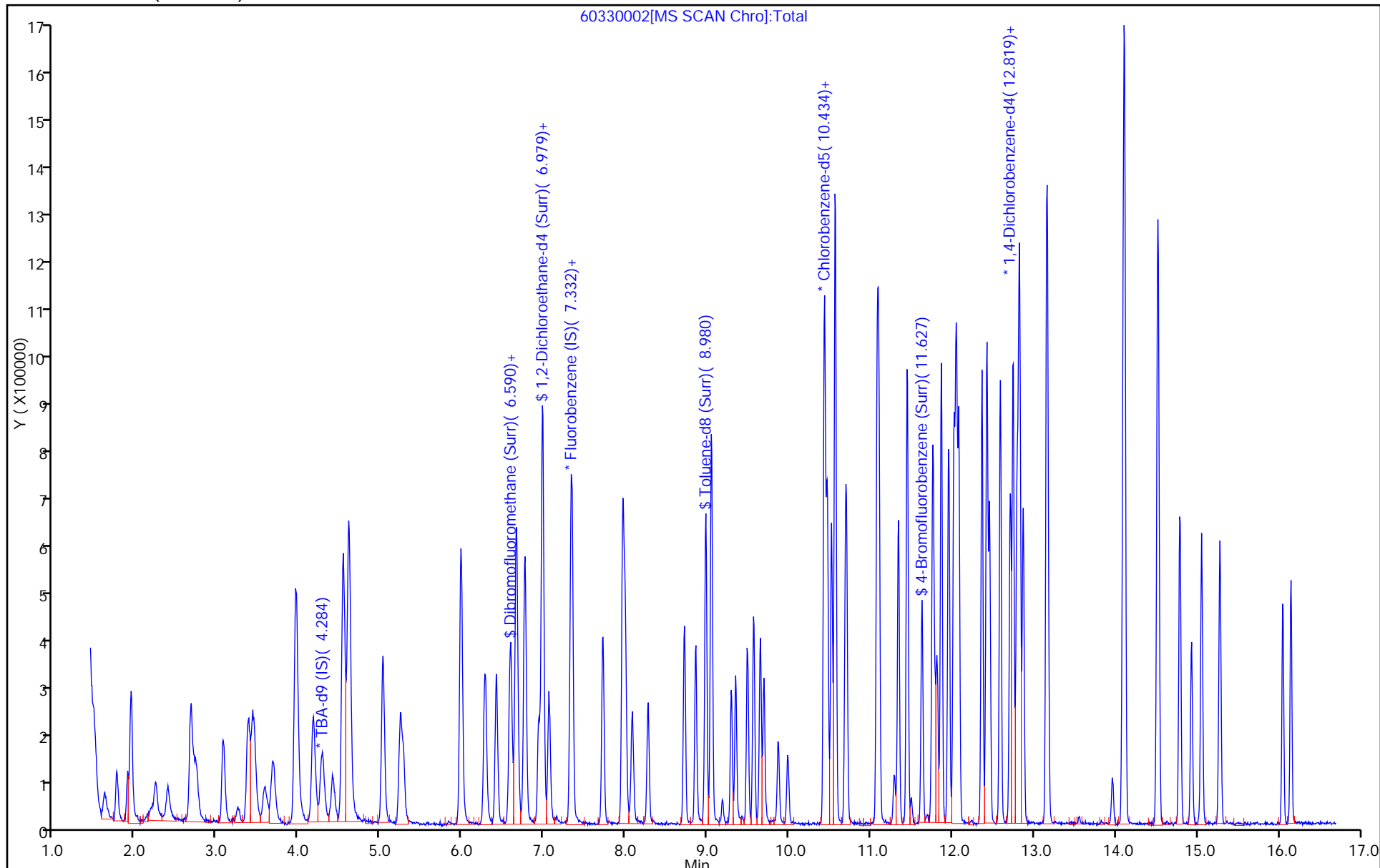
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: MSVOA_LL_CHHP6

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.: 180-42389-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-136938/2 Calibration Date: 03/30/2015 10:12
 Instrument ID: CHHP6 Calib Start Date: 01/28/2015 13:58
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 01/28/2015 16:44
 Lab File ID: 60330002.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	0.2650	0.2284	0.1000	8.62	10.0	-13.8	20.0
Chloromethane	Ave	0.4075	0.3169	0.1000	7.78	10.0	-22.2*	20.0
Vinyl chloride	Ave	0.3611	0.2878	0.1000	7.97	10.0	-20.3*	20.0
Bromomethane	Ave	0.1449	0.1413	0.0500	9.75	10.0	-2.5	20.0
Chloroethane	Ave	0.2214	0.2014	0.0500	9.09	10.0	-9.1	20.0
Dichlorofluoromethane	Ave	0.5279	0.5323	0.0100	10.1	10.0	0.9	20.0
Trichlorofluoromethane	Ave	0.4130	0.4398	0.1000	10.6	10.0	6.5	20.0
Ethyl ether	Ave	0.3150	0.3231	0.0100	10.3	10.0	2.6	20.0
Acrolein	Ave	0.0500	0.0315	0.0100	18.9	30.0	-36.9*	20.0
1,1-Dichloroethene	Ave	0.2807	0.2827	0.1000	10.1	10.0	0.7	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2839	0.3012	0.1000	10.6	10.0	6.1	20.0
Acetone	Ave	0.0884	0.1273	0.0500	28.8	20.0	43.9*	20.0
Iodomethane	Ave	0.4159	0.3613	0.0100	8.69	10.0	-13.1	20.0
Carbon disulfide	Ave	0.8315	0.7188	0.1000	8.64	10.0	-13.6	20.0
Allyl chloride	Ave	0.1823	0.1764	0.0100	9.67	10.0	-3.3	20.0
Methyl acetate	Ave	0.2165	0.2675	0.1000	61.8	50.0	23.6*	20.0
Methylene Chloride	Ave	0.4104	0.3509	0.1000	8.55	10.0	-14.5	20.0
tert-Butyl alcohol	Ave	1.130	1.286	0.0100	114	100	13.8	20.0
Acrylonitrile	Ave	0.1129	0.1501	0.0100	133	100	32.9*	20.0
Methyl tert-butyl ether	Ave	0.8884	0.9173	0.1000	10.3	10.0	3.2	20.0
trans-1,2-Dichloroethene	Ave	0.3380	0.3138	0.1000	9.28	10.0	-7.2	20.0
Hexane	Ave	0.4863	0.4415	0.0100	9.08	10.0	-9.2	20.0
1,1-Dichloroethane	Ave	0.6538	0.6028	0.2000	9.22	10.0	-7.8	20.0
Vinyl acetate	Ave	0.3399	0.4808	0.0100	14.1	10.0	41.4*	20.0
2,2-Dichloropropane	Ave	0.3707	0.2753	0.0100	7.43	10.0	-25.7*	20.0
cis-1,2-Dichloroethene	Ave	0.3585	0.3403	0.1000	9.49	10.0	-5.1	20.0
2-Butanone (MEK)	Ave	0.1134	0.1263	0.0500	22.3	20.0	11.4	20.0
Bromochloromethane	Ave	0.1427	0.1367	0.0100	9.58	10.0	-4.2	20.0
Tetrahydrofuran	Ave	0.0815	0.0994	0.0100	24.4	20.0	22.0*	20.0
Chloroform	Ave	0.5629	0.5471	0.2000	9.72	10.0	-2.8	20.0
1,1,1-Trichloroethane	Ave	0.4288	0.4152	0.1000	9.68	10.0	-3.2	20.0
Cyclohexane	Ave	0.6908	0.6555	0.1000	9.49	10.0	-5.1	20.0
Carbon tetrachloride	Ave	0.3357	0.3092	0.1000	9.21	10.0	-7.9	20.0
1,1-Dichloropropene	Ave	0.4279	0.4339	0.0100	10.1	10.0	1.4	20.0
Isobutyl alcohol	Ave	0.0067	0.0097*	0.0100	365	250	45.8*	20.0
Benzene	Ave	1.242	1.287	0.5000	10.4	10.0	3.7	20.0
1,2-Dichloroethane	Ave	0.4076	0.4982	0.1000	12.2	10.0	22.2*	20.0
n-Heptane	Ave	0.3955	0.3499	0.0100	8.85	10.0	-11.5	20.0
Trichloroethene	Ave	0.2828	0.2604	0.2000	9.21	10.0	-7.9	20.0
Methylcyclohexane	Ave	0.5572	0.5059	0.1000	9.08	10.0	-9.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-136938/2 Calibration Date: 03/30/2015 10:12
 Instrument ID: CHHP6 Calib Start Date: 01/28/2015 13:58
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 01/28/2015 16:44
 Lab File ID: 60330002.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	0.3285	0.3149	0.1000	9.58	10.0	-4.2	20.0
1,4-Dioxane	Ave	0.0021	0.0027*	0.0100	260	200	29.8*	20.0
Dibromomethane	Ave	0.1468	0.1844	0.0100	12.6	10.0	25.6*	20.0
Bromodichloromethane	Ave	0.3444	0.3637	0.2000	10.6	10.0	5.6	20.0
cis-1,3-Dichloropropene	Ave	0.3952	0.3965	0.2000	10.0	10.0	0.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.128	1.222	0.1000	21.7	20.0	8.3	20.0
Toluene	Ave	5.112	5.615	0.4000	11.0	10.0	9.8	20.0
trans-1,3-Dichloropropene	Ave	1.402	1.474	0.1000	10.5	10.0	5.2	20.0
Ethyl methacrylate	Ave	1.290	1.559	0.0100	12.1	10.0	20.9*	20.0
1,1,2-Trichloroethane	Ave	0.9282	1.095	0.1000	11.8	10.0	18.0	20.0
Tetrachloroethene	Ave	0.9129	1.003	0.2000	11.0	10.0	9.9	20.0
1,3-Dichloropropane	Ave	1.726	2.161	0.0100	12.5	10.0	25.2*	20.0
2-Hexanone	Ave	0.6436	0.9775	0.1000	30.4	20.0	51.9*	20.0
Dibromochloromethane	Ave	0.7880	0.9090	0.1000	11.5	10.0	15.4	20.0
1,2-Dibromoethane (EDB)	Ave	0.8444	1.006	0.1000	11.9	10.0	19.2	20.0
3-Chlorobenzotrifluoride	Ave	1.778	1.830	0.0100	10.3	10.0	2.9	20.0
Chlorobenzene	Ave	3.190	3.462	0.5000	10.9	10.0	8.5	20.0
4-Chlorobenzotrifluoride	Ave	1.655	1.727	0.0100	10.4	10.0	4.4	20.0
1,1,1,2-Tetrachloroethane	Ave	1.100	1.064	0.0100	9.67	10.0	-3.3	20.0
Ethylbenzene	Ave	1.914	1.849	0.1000	9.66	10.0	-3.4	20.0
m-Xylene & p-Xylene	Ave	2.363	2.294	0.1000	9.71	10.0	-2.9	20.0
o-Xylene	Ave	2.428	2.304	0.3000	9.49	10.0	-5.1	20.0
Styrene	Ave	3.575	3.877	0.3000	10.8	10.0	8.4	20.0
Bromoform	Ave	0.4220	0.4682	0.1000	11.1	10.0	11.0	20.0
2-Chlorobenzotrifluoride	Ave	1.855	1.946	0.0100	10.5	10.0	4.9	20.0
Isopropylbenzene	Ave	5.986	5.915	0.1000	9.88	10.0	-1.2	20.0
1,1,2,2-Tetrachloroethane	Ave	1.248	1.597	0.3000	12.8	10.0	27.9*	20.0
Bromobenzene	Ave	0.8752	0.8304	0.0100	9.49	10.0	-5.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2461	0.3021	0.0100	12.3	10.0	22.8*	20.0
1,2,3-Trichloropropane	Ave	0.2561	0.3164	0.0100	12.4	10.0	23.5*	20.0
N-Propylbenzene	Ave	1.046	1.030	0.0100	9.85	10.0	-1.5	20.0
2-Chlorotoluene	Ave	0.9215	0.8810	0.0100	9.56	10.0	-4.4	20.0
3-Chlorotoluene	Ave	0.9634	0.9386	0.0100	9.74	10.0	-2.6	20.0
1,3,5-Trimethylbenzene	Ave	3.361	3.397	0.0100	10.1	10.0	1.1	20.0
4-Chlorotoluene	Ave	0.9458	0.9130	0.0100	9.65	10.0	-3.5	20.0
tert-Butylbenzene	Ave	2.616	2.562	0.0100	9.79	10.0	-2.1	20.0
1,2,4-Trimethylbenzene	Ave	3.478	3.544	0.0100	10.2	10.0	1.9	20.0
3,4-Dichlorobenzotrifluoride	Ave	0.9718	1.036	0.0100	10.7	10.0	6.6	20.0
sec-Butylbenzene	Ave	4.045	3.831	0.0100	9.47	10.0	-5.3	20.0
1,3-Dichlorobenzene	Ave	1.715	1.724	0.6000	10.1	10.0	0.5	20.0
4-Isopropyltoluene	Ave	3.281	3.217	0.0100	9.80	10.0	-2.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-136938/2 Calibration Date: 03/30/2015 10:12
 Instrument ID: CHHP6 Calib Start Date: 01/28/2015 13:58
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 01/28/2015 16:44
 Lab File ID: 60330002.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	1.774	1.787	0.5000	10.1	10.0	0.7	20.0
2,4-Dichlorobenzotrifluoride	Ave	0.9753	1.032	0.0100	10.6	10.0	5.8	20.0
2,5-Dichlorobenzotrifluoride	Ave	1.075	1.107	0.0100	10.3	10.0	3.0	20.0
n-Butylbenzene	Ave	3.155	3.112	0.0100	9.86	10.0	-1.4	20.0
1,2-Dichlorobenzene	Ave	1.714	1.731	0.4000	10.1	10.0	1.0	20.0
2,4- & 2,5- & 2,6-Dichlorotoluene	Ave	1.609	1.631	0.0100	30.4	30.0	1.4	20.0
2,3- & 3,4- Dichlorotoluene	Ave	1.757	1.828	0.0100	20.8	20.0	4.0	20.0
1,2,4-Trichlorobenzene	Ave	1.328	1.290	0.2000	9.72	10.0	-2.8	20.0
Hexachlorobutadiene	Ave	0.5193	0.5027	0.0100	9.68	10.0	-3.2	20.0
Naphthalene	Ave	2.282	2.925	0.0100	12.8	10.0	28.2*	20.0
1,2,3-Trichlorobenzene	Ave	1.111	1.190	0.0100	10.7	10.0	7.2	20.0
2,4,5-Trichlorotoluene	Ave	0.8175	0.7155	0.0100	8.75	10.0	-12.5	20.0
2,3,6-Trichlorotoluene	Ave	0.7286	0.6584	0.0100	9.04	10.0	-9.6	20.0
Dibromofluoromethane (Surr)	Ave	0.2262	0.2283		10.1	10.0	0.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3237	0.3756		11.6	10.0	16.0	20.0
Toluene-d8 (Surr)	Ave	3.941	4.169		10.6	10.0	5.8	20.0
4-Bromofluorobenzene (Surr)	Ave	1.677	1.709		10.2	10.0	1.9	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330002.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 30-Mar-2015 10:12:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 180-0006236-002
 Operator ID: 001562 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub5
 Method: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 30-Mar-2015 12:55:18 Calib Date: 28-Jan-2015 16:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: fergusond

Date: 30-Mar-2015 10:45:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.284	4.284	0.000	92	229623	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.332	7.332	0.000	97	505716	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.440	10.440	0.000	91	107308	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.795	12.795	0.000	95	167539	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.596	6.596	0.000	94	115432	50.0	50.5	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.973	6.973	0.000	70	189937	50.0	58.0	
\$ 7 Toluene-d8 (Surr)	98	8.980	8.980	0.000	94	447392	50.0	52.9	
\$ 8 4-Bromofluorobenzene (Surr	95	11.627	11.627	0.000	82	183399	50.0	51.0	
11 Dichlorodifluoromethane	85	1.632	1.632	0.000	96	115503	50.0	43.1	
12 Chloromethane	50	1.765	1.765	0.000	99	160281	50.0	38.9	
13 Vinyl chloride	62	1.899	1.899	0.000	98	145532	50.0	39.8	
14 Butadiene	39	1.942	1.942	0.000	90	154310	50.0	39.6	
15 Bromomethane	94	2.246	2.246	0.000	92	71448	50.0	48.7	
16 Chloroethane	64	2.392	2.392	0.000	98	101838	50.0	45.5	
17 Dichlorofluoromethane	67	2.672	2.672	0.000	97	269214	50.0	50.4	
18 Trichlorofluoromethane	101	2.714	2.714	0.000	81	222408	50.0	53.2	
20 Ethyl ether	59	3.061	3.061	0.000	96	163401	50.0	51.3	
21 Acrolein	56	3.244	3.244	0.000	94	47834	150.0	94.6	
22 1,1-Dichloroethene	96	3.371	3.371	0.000	93	142948	50.0	50.3	
23 1,1,2-Trichloro-1,2,2-trif	101	3.432	3.432	0.000	96	152322	50.0	53.0	
24 Acetone	43	3.451	3.451	0.000	96	128733	100.0	143.9	
25 Iodomethane	142	3.584	3.584	0.000	97	182725	50.0	43.4	
26 Carbon disulfide	76	3.682	3.682	0.000	99	363482	50.0	43.2	
29 3-Chloro-1-propene	76	3.962	3.962	0.000	60	89201	50.0	48.4	
30 Methyl acetate	43	3.968	3.968	0.000	98	676422	250.0	308.9	
31 Methylene Chloride	84	4.168	4.168	0.000	98	177457	50.0	42.7	
32 2-Methyl-2-propanol	59	4.412	4.412	0.000	93	147622	500.0	568.9	
33 Acrylonitrile	53	4.539	4.539	0.000	100	758843	500.0	664.7	
35 Methyl tert-butyl ether	73	4.606	4.606	0.000	98	463869	50.0	51.6	
34 trans-1,2-Dichloroethene	96	4.606	4.606	0.000	73	158707	50.0	46.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	5.026	5.026	0.000	93	223252	50.0	45.4	
37 1,1-Dichloroethane	63	5.239	5.239	0.000	96	304824	50.0	46.1	
38 Vinyl acetate	43	5.276	5.276	0.000	97	243125	50.0	70.7	
42 2,2-Dichloropropane	77	5.975	5.975	0.000	58	139214	50.0	37.1	
43 cis-1,2-Dichloroethene	96	5.981	5.981	0.000	84	172086	50.0	47.5	
44 2-Butanone (MEK)	43	5.987	5.987	0.000	59	127745	100.0	111.4	
48 Chlorobromomethane	128	6.273	6.273	0.000	91	69111	50.0	47.9	
49 Tetrahydrofuran	42	6.285	6.285	0.000	93	100559	100.0	122.0	
50 Chloroform	83	6.413	6.413	0.000	96	276673	50.0	48.6	
51 1,1,1-Trichloroethane	97	6.584	6.584	0.000	96	209978	50.0	48.4	
52 Cyclohexane	56	6.663	6.663	0.000	95	331508	50.0	47.4	
53 Carbon tetrachloride	117	6.760	6.760	0.000	95	156342	50.0	46.1	
54 1,1-Dichloropropene	75	6.766	6.766	0.000	95	219409	50.0	50.7	
55 Isobutyl alcohol	41	6.936	6.936	0.000	91	122610	1250.0	1822.5	
56 Benzene	78	6.985	6.985	0.000	98	650973	50.0	51.8	
57 1,2-Dichloroethane	62	7.058	7.058	0.000	98	251940	50.0	61.1	
59 n-Heptane	43	7.344	7.344	0.000	90	176958	50.0	44.2	
61 Trichloroethene	130	7.721	7.721	0.000	91	131704	50.0	46.1	
63 Methylcyclohexane	83	7.964	7.964	0.000	95	255851	50.0	45.4	
64 1,2-Dichloropropane	63	7.989	7.989	0.000	89	159226	50.0	47.9	
65 1,4-Dioxane	88	8.074	8.074	0.000	43	26985	1000.0	1298.2	
67 Dibromomethane	93	8.080	8.080	0.000	93	93240	50.0	62.8	
68 Dichlorobromomethane	83	8.275	8.275	0.000	98	183918	50.0	52.8	
71 cis-1,3-Dichloropropene	75	8.719	8.719	0.000	91	200499	50.0	50.2	
72 4-Methyl-2-pentanone (MIBK)	43	8.859	8.859	0.000	97	262287	100.0	108.3	
73 Toluene	91	9.047	9.047	0.000	98	602533	50.0	54.9	
74 trans-1,3-Dichloropropene	75	9.297	9.297	0.000	95	158215	50.0	52.6	
75 Ethyl methacrylate	69	9.345	9.345	0.000	91	167339	50.0	60.4	
76 1,1,2-Trichloroethane	97	9.485	9.485	0.000	95	117527	50.0	59.0	
77 Tetrachloroethene	164	9.571	9.571	0.000	93	107630	50.0	54.9	
78 1,3-Dichloropropane	76	9.650	9.650	0.000	94	231866	50.0	62.6	
79 2-Hexanone	43	9.692	9.692	0.000	96	209781	100.0	151.9	
81 Chlorodibromomethane	129	9.863	9.863	0.000	89	97546	50.0	57.7	
82 Ethylene Dibromide	107	9.984	9.984	0.000	99	107986	50.0	59.6	
83 3-Chlorobenzotrifluoride	180	10.428	10.428	0.000	90	196382	50.0	51.5	
84 Chlorobenzene	112	10.471	10.471	0.000	91	371531	50.0	54.3	
85 4-Chlorobenzotrifluoride	180	10.520	10.520	0.000	96	185352	50.0	52.2	
86 1,1,1,2-Tetrachloroethane	131	10.562	10.562	0.000	89	114183	50.0	48.4	
87 Ethylbenzene	106	10.568	10.568	0.000	99	198410	50.0	48.3	
88 m-Xylene & p-Xylene	106	10.696	10.696	0.000	100	246171	50.0	48.6	
89 o-Xylene	106	11.079	11.079	0.000	97	247242	50.0	47.4	
90 Styrene	104	11.104	11.104	0.000	94	416029	50.0	54.2	
91 Bromoform	173	11.292	11.292	0.000	92	50246	50.0	55.5	
92 2-Chlorobenzotrifluoride	180	11.341	11.341	0.000	96	208858	50.0	52.5	
93 Isopropylbenzene	105	11.444	11.444	0.000	98	634772	50.0	49.4	
96 1,1,2,2-Tetrachloroethane	83	11.754	11.754	0.000	96	171331	50.0	64.0	
95 Bromobenzene	156	11.767	11.767	0.000	95	139120	50.0	47.4	
97 trans-1,4-Dichloro-2-buten	53	11.797	11.797	0.000	77	50617	50.0	61.4	
98 1,2,3-Trichloropropane	110	11.815	11.815	0.000	84	53004	50.0	61.8	
99 N-Propylbenzene	120	11.864	11.864	0.000	99	172549	50.0	49.2	
100 2-Chlorotoluene	126	11.955	11.955	0.000	95	147603	50.0	47.8	
101 3-Chlorotoluene	126	12.016	12.016	0.000	97	157247	50.0	48.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.046	12.046	0.000	94	569179	50.0	50.5	
103 4-Chlorotoluene	126	12.077	12.077	0.000	98	152955	50.0	48.3	
104 tert-Butylbenzene	119	12.363	12.363	0.000	92	429155	50.0	49.0	
106 1,2,4-Trimethylbenzene	105	12.424	12.424	0.000	98	593695	50.0	50.9	
107 1,2-dichloro-4-(trifluorom	214	12.454	12.454	0.000	98	173492	50.0	53.3	
108 sec-Butylbenzene	105	12.588	12.588	0.000	96	641847	50.0	47.4	
109 1,3-Dichlorobenzene	146	12.710	12.710	0.000	95	288835	50.0	50.3	
110 4-Isopropyltoluene	119	12.746	12.746	0.000	96	538894	50.0	49.0	
111 1,4-Dichlorobenzene	146	12.819	12.819	0.000	89	299346	50.0	50.4	
113 2,4-Dichloro-1-(trifluorom	214	12.831	12.831	0.000	92	172910	50.0	52.9	
114 2,5-Dichlorobenzotrifluori	214	12.868	12.868	0.000	98	185416	50.0	51.5	
116 n-Butylbenzene	91	13.154	13.154	0.000	99	521351	50.0	49.3	
117 1,2-Dichlorobenzene	146	13.166	13.166	0.000	91	290040	50.0	50.5	
118 1,2-Dibromo-3-Chloropropan	75	13.957	13.957	0.000	68	30935	50.0	67.5	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.103	14.103	0.000	99	819804	150.0	152.1	
121 2,3- & 3,4- Dichlorotoluen	125	14.516	14.516	0.000	98	612586	100.0	104.0	
122 1,2,4-Trichlorobenzene	180	14.784	14.784	0.000	94	216183	50.0	48.6	
123 Hexachlorobutadiene	225	14.930	14.930	0.000	92	84225	50.0	48.4	
124 Naphthalene	128	15.052	15.052	0.000	98	490042	50.0	64.1	
125 1,2,3-Trichlorobenzene	180	15.277	15.277	0.000	95	199431	50.0	53.6	
126 2,4,5-Trichlorotoluene	159	16.049	16.049	0.000	0	119873	50.0	43.8	
127 2,3,6-Trichlorotoluene	159	16.147	16.147	0.000	90	110299	50.0	45.2	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		100.0	93.9	
S 131 Xylenes, Total	106				0		100.0	96.0	
S 132 1,3-Dichloropropene, Total	1				0		100.0	102.7	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOA8260VOAPRI_00108	Amount Added: 2.00	Units: uL	
voaWEEpri Res_00003	Amount Added: 2.00	Units: uL	
VOAACRPRI_00003	Amount Added: 6.00	Units: uL	
VOAVAPRI_00005	Amount Added: 2.00	Units: uL	
voaWKet2 Rest_00002	Amount Added: 2.00	Units: uL	
VOA8260INT_00030	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00032	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330002.D

Injection Date: 30-Mar-2015 10:12:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

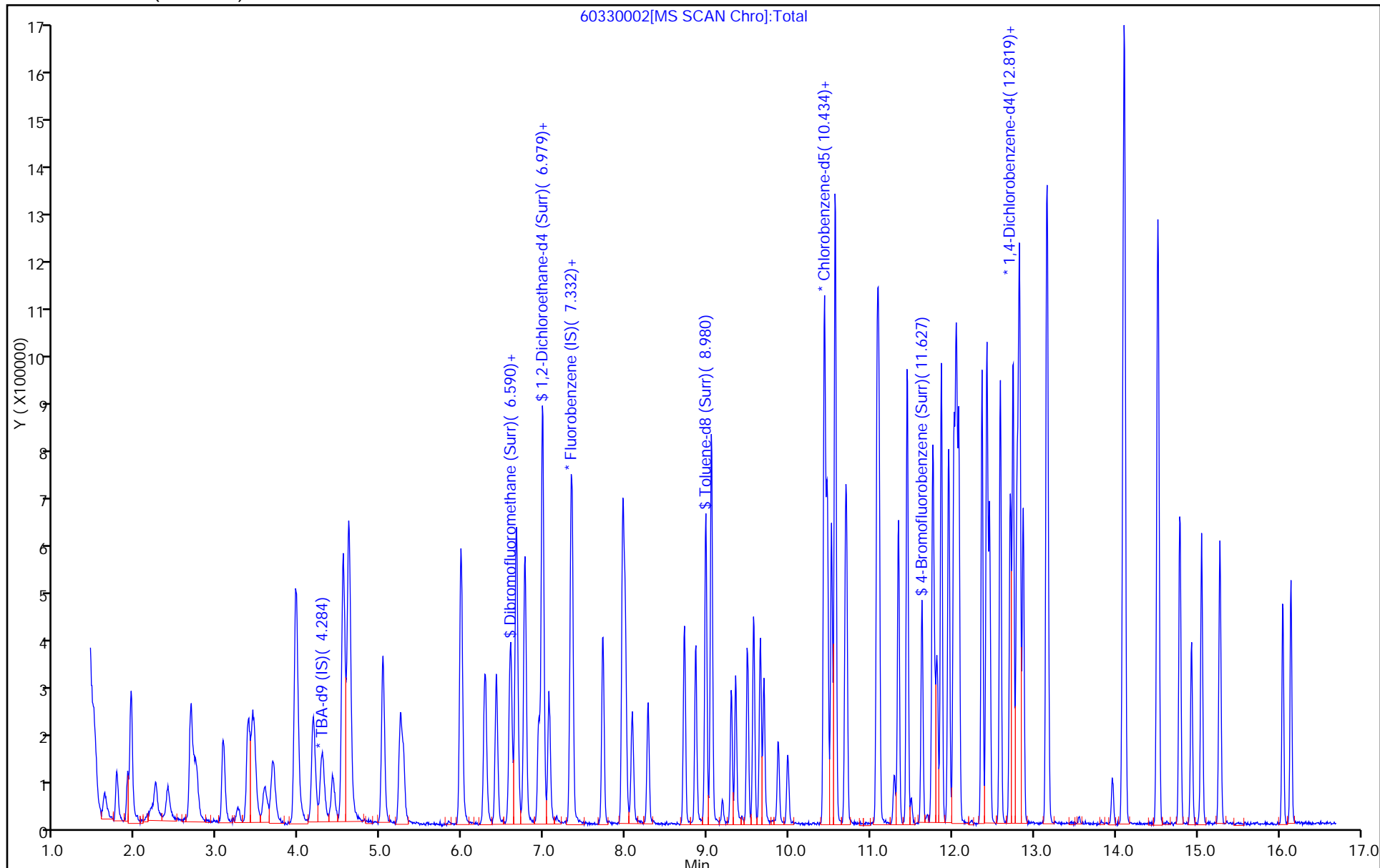
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128004.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 28-Jan-2015 11:55:30 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 180-0005450-004
 Operator ID: 001562 Instrument ID: CHHP6
 Method: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\MMSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 29-Jan-2015 12:59:04 Calib Date: 28-Jan-2015 16:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: fergusond Date: 28-Jan-2015 12:11:36

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	8.412	8.412	0.000	0	199884	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

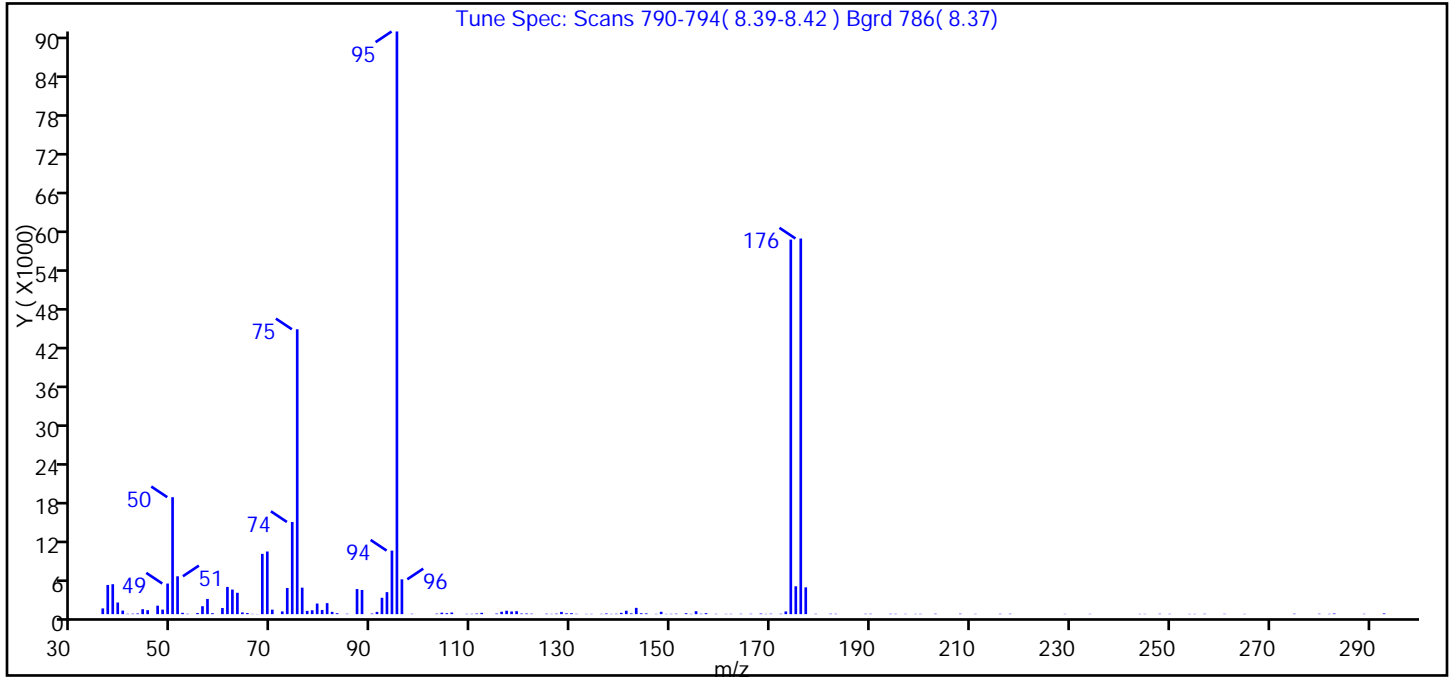
Reagents:

VOABFB25_00058 Amount Added: 1.00 Units: uL

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128004.D
 Injection Date: 28-Jan-2015 11:55:30 Instrument ID: CHHP6
 Lims ID: BFB
 Client ID:
 Operator ID: 001562 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
 Tune Method: BFB Method 8260

\$ 10 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.1
75	30 to 60% of m/z 95	48.9
96	5 to 9% of m/z 95	6.0
173	Less than 2% of m/z 174	0.5 (0.7)
174	50 to 120% of m/z 95	64.3
175	5 to 9% of m/z 174	4.8 (7.4)
176	Greater than 95% but less than 101% of m/z 174	64.5 (100.3)
177	5 to 9% of m/z 176	4.6 (7.1)

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128004.D\MSVOA_LL_CHHP6.rslt\spectra.d
Injection Date: 28-Jan-2015 11:55:30
Spectrum: Tune Spec: Scans 790-794(8.39-8.42) Bgrd 786(8.37)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 146

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	891	77.00	502	128.00	348	175.00	4324
37.00	4531	78.00	605	129.00	124	176.00	58296
38.00	4646	79.00	1644	130.00	152	177.00	4160
39.00	1807	80.00	651	131.00	50	179.00	52
40.00	555	81.00	1709	133.00	41	182.00	63
41.00	56	82.00	356	134.00	46	183.00	55
42.00	70	83.00	146	136.00	46	189.00	53
43.00	107	85.00	61	137.00	103	190.00	57
44.00	769	87.00	3894	138.00	43	194.00	56
45.00	610	88.00	3751	139.00	61	195.00	52
47.00	1314	90.00	90	140.00	200	197.00	43
48.00	705	91.00	349	141.00	534	199.00	40
49.00	4748	92.00	2541	142.00	114	200.00	48
50.00	18152	93.00	3413	143.00	975	203.00	62
51.00	5876	94.00	9860	144.00	138	208.00	68
52.00	208	95.00	90424	145.00	118	211.00	43
53.00	59	96.00	5404	147.00	46	216.00	55
55.00	176	98.00	59	148.00	368	218.00	59
56.00	1231	103.00	79	149.00	41	229.00	40
57.00	2359	104.00	225	150.00	55	234.00	42
58.00	152	105.00	149	151.00	67	244.00	41
60.00	945	106.00	249	153.00	140	245.00	40
61.00	4225	109.00	47	154.00	45	248.00	60
62.00	3811	110.00	49	155.00	450	250.00	48
63.00	3318	111.00	93	156.00	59	254.00	40
64.00	267	112.00	207	157.00	151	255.00	40
65.00	170	115.00	95	159.00	49	257.00	56
66.00	41	116.00	375	161.00	40	261.00	50
67.00	26	117.00	527	162.00	45	265.00	41
68.00	9355	118.00	409	164.00	56	275.00	63
69.00	9719	119.00	460	166.00	56	280.00	60
70.00	700	120.00	94	168.00	91	282.00	47
72.00	421	121.00	98	169.00	40	283.00	95

Report Date: 29-Jan-2015 12:59:04

Chrom Revision: 2.2 15-Jan-2015 13:05:58

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128004.D\MSVOA_LL_CHHP6.rslt\spectra.d

Injection Date: 28-Jan-2015 11:55:30

Spectrum: Tune Spec: Scans 790-794(8.39-8.42) Bgrd 786(8.37)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 146

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	4056	122.00	70	170.00	67	289.00	51
74.00	14305	125.00	68	172.00	59	293.00	109
75.00	44208	126.00	40	173.00	418		
76.00	4109	127.00	76	174.00	58128		

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128004.D

Injection Date: 28-Jan-2015 11:55:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: BFB

Worklist Smp#: 4

Client ID:

Injection Vol: 5.0 mL

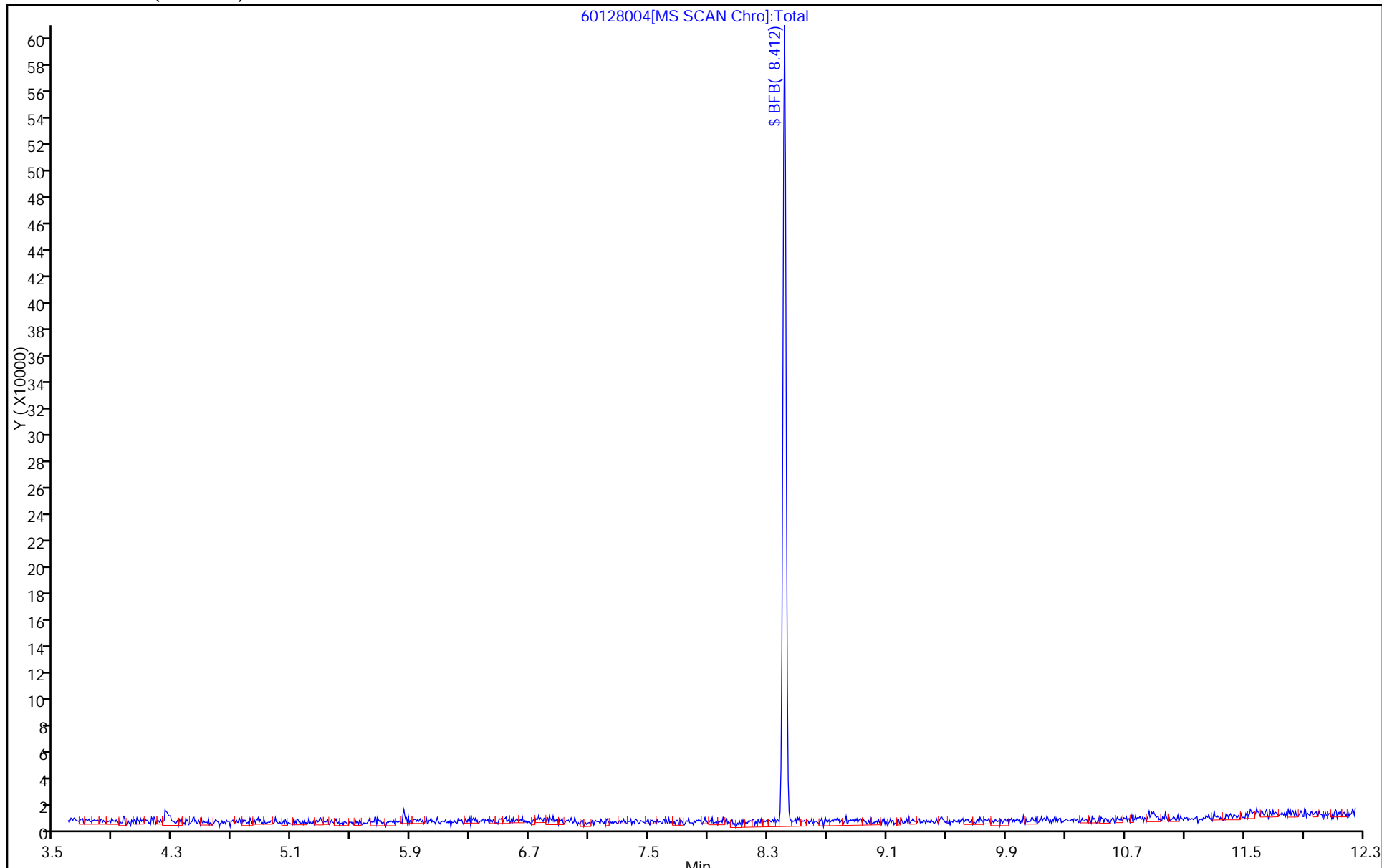
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\60327004.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 27-Mar-2015 12:07:30 ALS Bottle#: 1 Worklist Smp#: 4
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 180-0006216-004
 Operator ID: 001562 Instrument ID: CHHP6
 Method: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 27-Mar-2015 15:53:12 Calib Date: 28-Jan-2015 16:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK009

First Level Reviewer: fergusond Date: 27-Mar-2015 12:21:56

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	8.411	8.411	0.000	0	267430	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

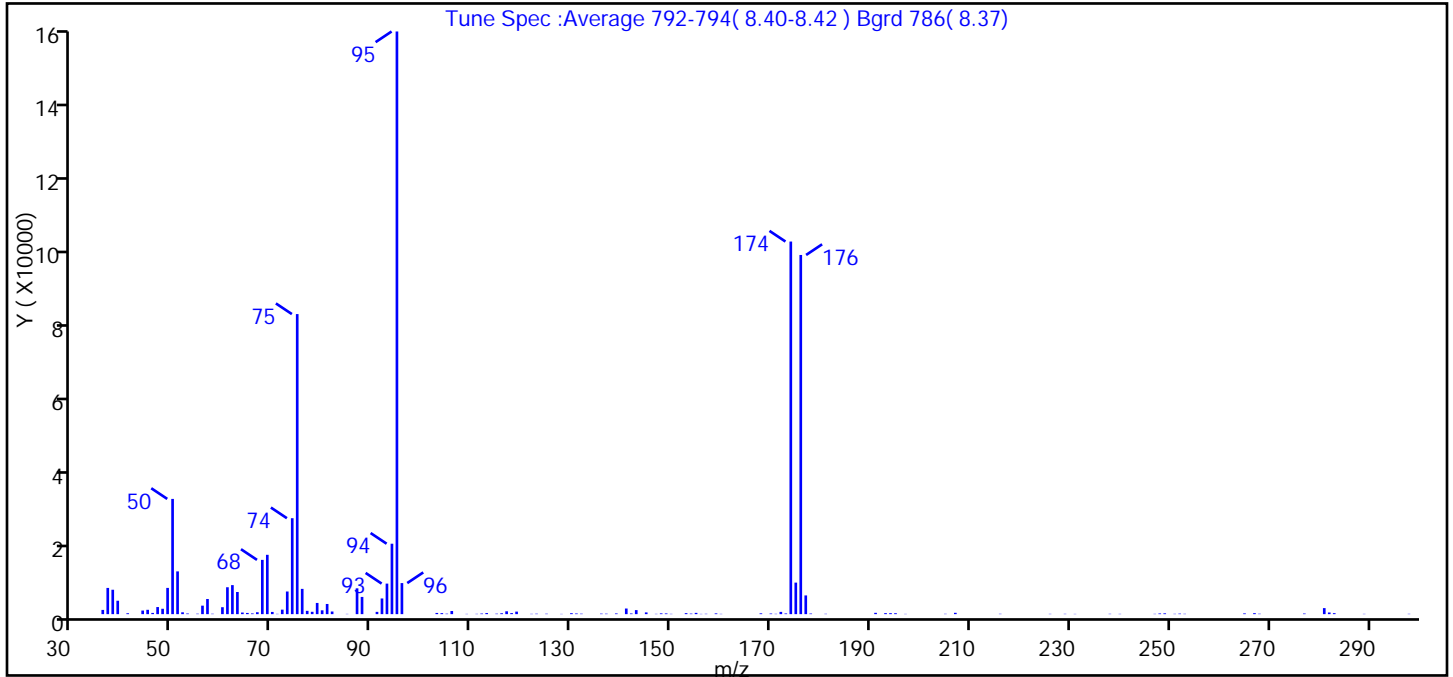
Reagents:

VOABFB25_00059 Amount Added: 1.00 Units: uL

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\60327004.D
 Injection Date: 27-Mar-2015 12:07:30 Instrument ID: CHHP6
 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_CHHP6 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	19.8
75	30 to 60% of m/z 95	51.5
96	5 to 9% of m/z 95	5.3
173	Less than 2% of m/z 174	0.1 (0.2)
174	50 to 120% of m/z 95	63.9
175	5 to 9% of m/z 174	5.4 (8.5)
176	Greater than 95% but less than 101% of m/z 174	61.6 (96.4)
177	5 to 9% of m/z 176	3.2 (5.2)

Data File: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\60327004.D\MSVOA_LL_CHHP6.rslt\spectra.d
Injection Date: 27-Mar-2015 12:07:30
Spectrum: Tune Spec :Average 792-794(8.40-8.42) Bgrd 786(8.37)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 128

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1139	73.00	6101	122.00	82	176.00	96776
37.00	7064	74.00	25848	123.00	115	177.00	5044
38.00	6574	75.00	80848	125.00	112	178.00	166
39.00	3613	76.00	6808	128.00	66	181.00	92
41.00	242	77.00	888	130.00	257	191.00	356
44.00	969	78.00	633	131.00	180	193.00	274
45.00	1169	79.00	3016	132.00	122	194.00	264
46.00	332	80.00	1032	136.00	138	195.00	250
47.00	1911	81.00	2741	137.00	120	197.00	69
48.00	1447	82.00	711	139.00	191	205.00	91
49.00	7070	85.00	70	141.00	1514	207.00	361
50.00	31048	87.00	6953	142.00	181	216.00	94
51.00	11519	88.00	4640	143.00	1086	226.00	80
52.00	497	91.00	615	145.00	468	229.00	87
53.00	171	92.00	4224	147.00	79	231.00	67
55.00	119	93.00	8229	148.00	213	238.00	92
56.00	2287	94.00	18976	149.00	195	240.00	77
57.00	4082	95.00	156992	150.00	80	247.00	84
58.00	107	96.00	8369	153.00	269	248.00	187
60.00	1869	103.00	325	154.00	146	249.00	217
61.00	7247	104.00	273	155.00	343	251.00	88
62.00	7820	105.00	124	156.00	68	252.00	144
63.00	5966	106.00	844	157.00	95	253.00	92
64.00	431	109.00	70	159.00	207	265.00	202
65.00	324	111.00	82	160.00	75	267.00	263
66.00	197	112.00	166	168.00	218	268.00	110
67.00	514	113.00	290	170.00	167	277.00	166
68.00	14622	115.00	125	171.00	88	281.00	1625
69.00	15985	116.00	243	172.00	609	282.00	447
70.00	595	117.00	767	173.00	190	283.00	266
71.00	76	118.00	286	174.00	100392	289.00	75
72.00	1213	119.00	681	175.00	8495	298.00	87

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\60327004.D

Injection Date: 27-Mar-2015 12:07:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: BFB

Worklist Smp#: 4

Client ID:

Injection Vol: 5.0 mL

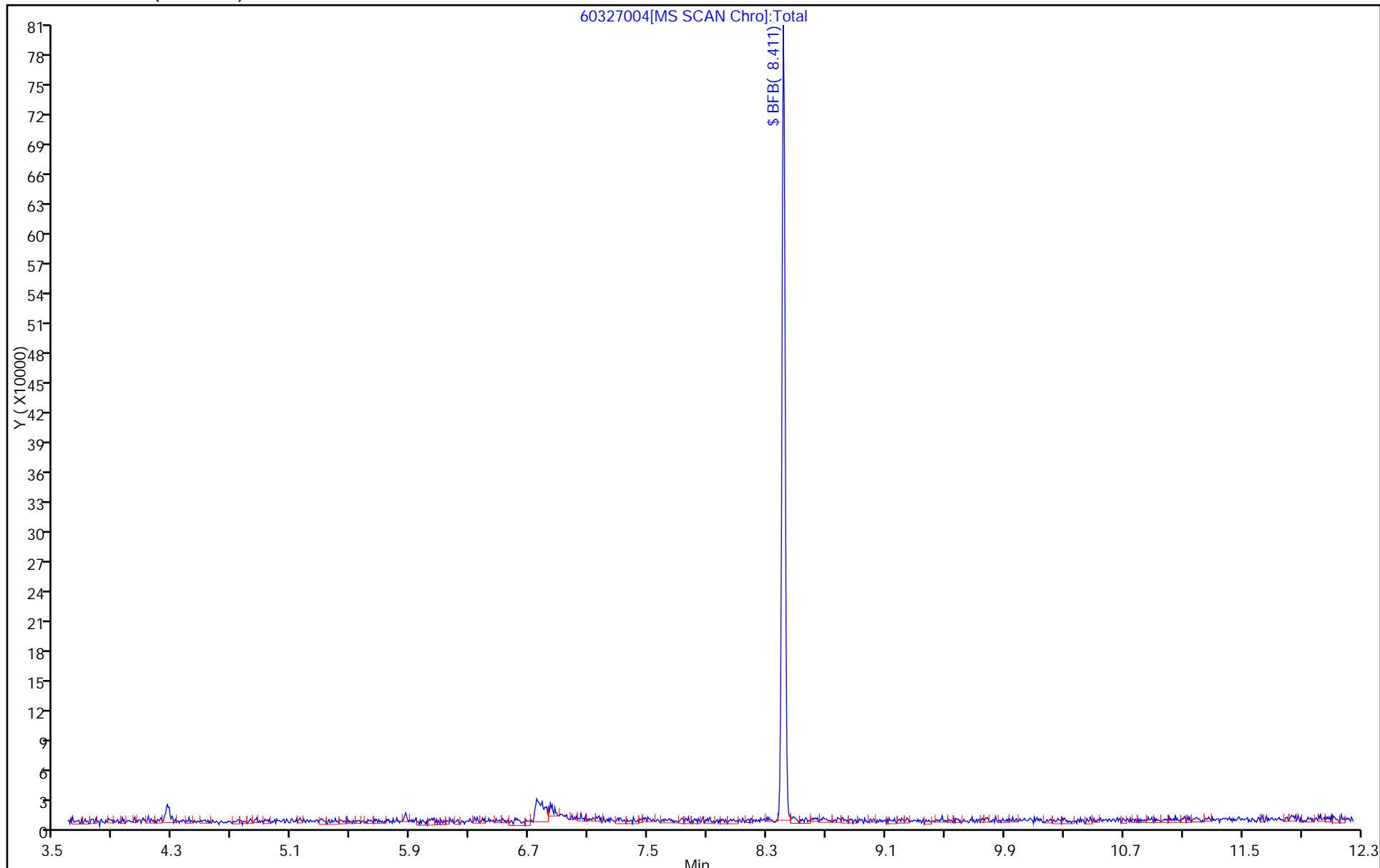
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330001.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 30-Mar-2015 09:31:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 180-0006236-001
 Operator ID: 001562 Instrument ID: CHHP6
 Method: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\MMSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 30-Mar-2015 12:55:17 Calib Date: 28-Jan-2015 16:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: fergusond Date: 30-Mar-2015 09:42:50

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	8.414	8.414	0.000	0	117640	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

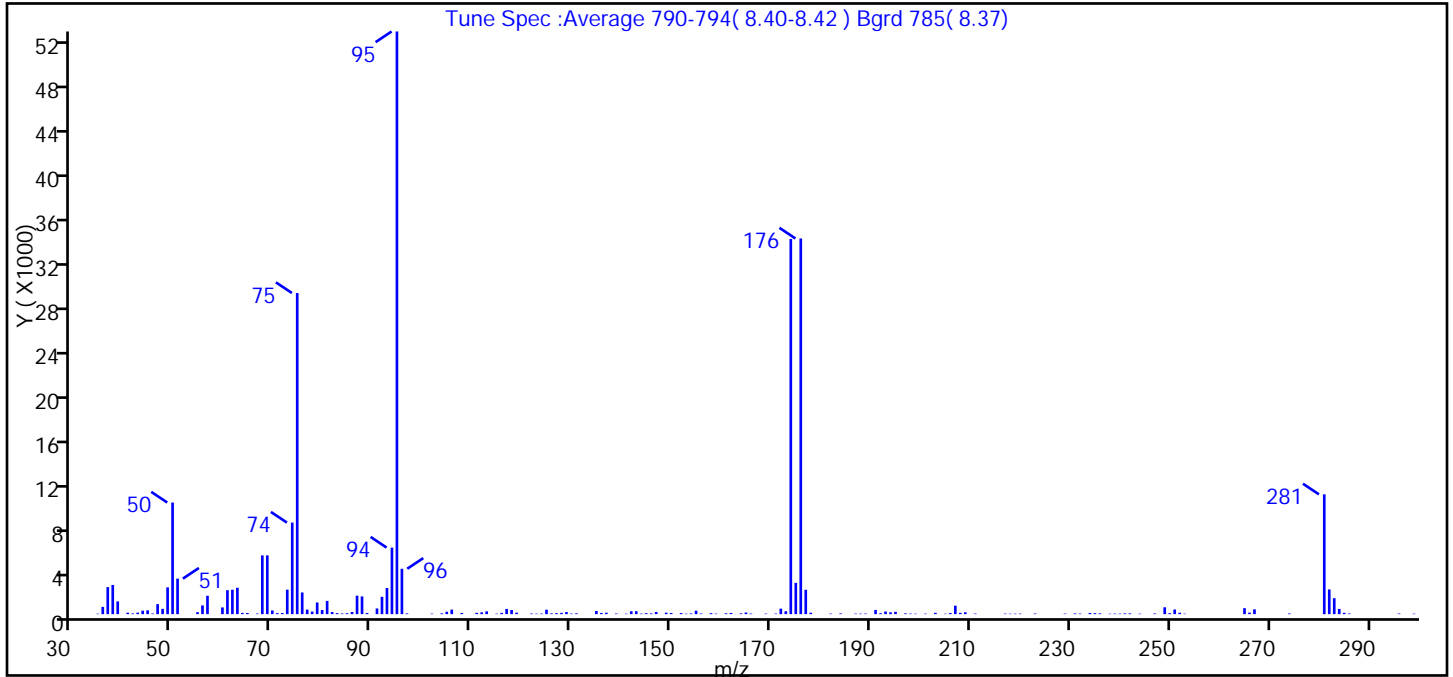
Reagents:

VOABFB25_00059 Amount Added: 1.00 Units: uL

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330001.D
 Injection Date: 30-Mar-2015 09:31:30 Instrument ID: CHHP6
 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_CHHP6 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	19.2
75	30 to 60% of m/z 95	55.1
96	5 to 9% of m/z 95	7.8
173	Less than 2% of m/z 174	0.5 (0.8)
174	50 to 120% of m/z 95	64.4
175	5 to 9% of m/z 174	5.4 (8.3)
176	Greater than 95% but less than 101% of m/z 174	64.5 (100.1)
177	5 to 9% of m/z 176	4.2 (6.5)

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330001.D\MSVOA_LL_CHHP6.rslt\spectra.d
Injection Date: 30-Mar-2015 09:31:30
Spectrum: Tune Spec :Average 790-794(8.40-8.42) Bgrd 785(8.37)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 169

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	44	85.00	82	145.00	86	206.00	99
36.00	659	86.00	196	146.00	67	207.00	770
37.00	2457	87.00	1677	147.00	197	208.00	119
38.00	2650	88.00	1611	149.00	136	209.00	170
39.00	1156	89.00	106	150.00	100	211.00	52
41.00	135	91.00	517	152.00	101	217.00	48
42.00	68	92.00	1574	153.00	43	218.00	40
43.00	138	93.00	2377	154.00	63	219.00	45
44.00	314	94.00	6046	155.00	311	220.00	49
45.00	345	95.00	52936	156.00	56	223.00	56
46.00	57	96.00	4123	158.00	91	229.00	48
47.00	911	97.00	65	159.00	48	231.00	63
48.00	483	102.00	48	161.00	79	232.00	52
49.00	2432	104.00	76	162.00	112	234.00	108
50.00	10140	105.00	220	163.00	10	235.00	91
51.00	3226	106.00	414	164.00	71	236.00	70
55.00	181	108.00	114	165.00	147	238.00	40
56.00	793	111.00	119	166.00	54	239.00	50
57.00	1670	112.00	165	169.00	46	240.00	46
60.00	610	113.00	254	171.00	52	241.00	68
61.00	2176	115.00	42	172.00	499	242.00	69
62.00	2219	116.00	119	173.00	265	244.00	42
63.00	2397	117.00	476	174.00	34088	247.00	62
64.00	116	118.00	374	175.00	2843	249.00	623
65.00	105	119.00	138	176.00	34128	250.00	90
67.00	53	122.00	54	177.00	2215	251.00	424
68.00	5337	123.00	44	178.00	132	252.00	129
69.00	5338	124.00	51	182.00	46	253.00	41
70.00	333	125.00	406	184.00	63	265.00	542
71.00	91	126.00	70	187.00	47	266.00	139
72.00	105	127.00	89	188.00	46	267.00	438
73.00	2225	128.00	118	189.00	51	274.00	64
74.00	8318	129.00	191	191.00	383	281.00	10883

Report Date: 30-Mar-2015 12:55:18

Chrom Revision: 2.2 13-Mar-2015 11:20:44

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330001.D\MSVOA_LL_CHHP6.rslt\spectra.d

Injection Date: 30-Mar-2015 09:31:30

Spectrum: Tune Spec :Average 790-794(8.40-8.42) Bgrd 785(8.37)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 169

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	29176	130.00	48	192.00	84	282.00	2245
76.00	1971	131.00	73	193.00	237	283.00	1451
77.00	414	135.00	292	194.00	166	284.00	473
78.00	232	136.00	111	195.00	214	285.00	121
79.00	1060	137.00	130	197.00	70	286.00	59
80.00	378	139.00	55	198.00	49	296.00	56
81.00	1203	141.00	44	199.00	40	299.00	44
82.00	196	142.00	259	201.00	44		
83.00	94	143.00	264	203.00	125		
84.00	60	144.00	49	205.00	39		

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330001.D

Injection Date: 30-Mar-2015 09:31:30

Instrument ID: CHHP6

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_CHHP6

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.: 180-42389-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 180-136799/6
 Matrix: Water Lab File ID: 60327006.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/27/2015 14:21
 Soil Aliquot Vol: 5 (mL) Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 136799 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.: 180-42389-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 180-136799/6
 Matrix: Water Lab File ID: 60327006.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/27/2015 14:21
 Soil Aliquot Vol: 5 (mL) Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 136799 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)	110		71-118
460-00-4	4-Bromofluorobenzene (Surr)	101		70-118
1868-53-7	Dibromofluoromethane (Surr)	105		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\60327006.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 27-Mar-2015 14:21:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 180-0006216-006
 Operator ID: 001562 Instrument ID: CHHP6
 Method: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\MMSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 27-Mar-2015 16:01:30 Calib Date: 28-Jan-2015 16:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK009

First Level Reviewer: fergusond

Date: 27-Mar-2015 16:01:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.272	4.285	-0.013	90	276155	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.332	7.327	0.005	97	619804	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.440	10.436	0.004	91	116617	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.788	12.790	-0.002	97	187055	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.602	6.597	0.005	92	147071	50.0	52.5	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.973	6.974	-0.001	70	240338	50.0	59.9	
\$ 7 Toluene-d8 (Surr)	98	8.980	8.982	-0.002	94	505340	50.0	55.0	
\$ 8 4-Bromofluorobenzene (Surr	95	11.633	11.628	0.005	81	197585	50.0	50.5	
11 Dichlorodifluoromethane	85		1.615					ND	
12 Chloromethane	50		1.767					ND	
13 Vinyl chloride	62		1.900					ND	
14 Butadiene	39		1.943					ND	
15 Bromomethane	94		2.235					ND	
16 Chloroethane	64		2.387					ND	
17 Dichlorofluoromethane	67		2.667					ND	
18 Trichlorofluoromethane	101		2.703					ND	
19 Ethanol	45		2.934					ND	
20 Ethyl ether	59		3.075					ND	
21 Acrolein	56		3.245					ND	
22 1,1-Dichloroethene	96		3.373					ND	
23 1,1,2-Trichloro-1,2,2-trif	101		3.440					ND	
24 Acetone	43		3.458					ND	
25 Iodomethane	142		3.573					ND	
26 Carbon disulfide	76		3.683					ND	
27 Isopropyl alcohol	45		3.718					ND	
28 Acetonitrile	40		3.883					ND	
29 3-Chloro-1-propene	76		3.951					ND	
30 Methyl acetate	43		3.963					ND	
31 Methylene Chloride	84		4.170					ND	
32 2-Methyl-2-propanol	59		4.413					ND	
33 Acrylonitrile	53		4.541					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
35 Methyl tert-butyl ether	73		4.608					ND	
34 trans-1,2-Dichloroethene	96		4.608					ND	
36 Hexane	57		5.027					ND	
37 1,1-Dichloroethane	63		5.240					ND	
38 Vinyl acetate	43		5.277					ND	
40 Isopropyl ether	45		5.330					ND	
39 2-Chloro-1,3-butadiene	53		5.343					ND	
41 Tert-butyl ethyl ether	59		5.805					ND	
44 2-Butanone (MEK)	43		5.982					ND	
43 cis-1,2-Dichloroethene	96		5.982					ND	
42 2,2-Dichloropropane	77		5.982					ND	
45 Propionitrile	54		6.054					ND	
46 Ethyl acetate	43		6.067					ND	
47 Methacrylonitrile	41		6.237					ND	
48 Chlorobromomethane	128		6.274					ND	
49 Tetrahydrofuran	42		6.287					ND	
50 Chloroform	83		6.420					ND	
51 1,1,1-Trichloroethane	97		6.579					ND	
52 Cyclohexane	56		6.664					ND	
53 Carbon tetrachloride	117		6.761					ND	
54 1,1-Dichloropropene	75		6.767					ND	
55 Isobutyl alcohol	41		6.931					ND	
56 Benzene	78		6.980					ND	
57 1,2-Dichloroethane	62		7.059					ND	
58 Tert-amyl methyl ether	73		7.162					ND	
59 n-Heptane	43		7.345					ND	
60 n-Butanol	56		7.642					ND	
61 Trichloroethene	130		7.716					ND	
62 Ethyl acrylate	55		7.831					ND	
63 Methylcyclohexane	83		7.966					ND	
64 1,2-Dichloropropane	63		7.990					ND	
66 Methyl methacrylate	69		8.068					ND	
65 1,4-Dioxane	88		8.069					ND	
67 Dibromomethane	93		8.081					ND	
68 Dichlorobromomethane	83		8.276					ND	
69 2-Nitropropane	41		8.476					ND	
70 2-Chloroethyl vinyl ether	63		8.567					ND	
71 cis-1,3-Dichloropropene	75		8.714					ND	
72 4-Methyl-2-pentanone (MIBK)	43		8.854					ND	
73 Toluene	91	9.053	9.049	0.004	49	5406		0.4534	
74 trans-1,3-Dichloropropene	75		9.292					ND	
75 Ethyl methacrylate	69		9.347					ND	
76 1,1,2-Trichloroethane	97		9.487					ND	
77 Tetrachloroethene	164		9.566					ND	
78 1,3-Dichloropropane	76		9.651					ND	
79 2-Hexanone	43		9.693					ND	
80 n-Butyl acetate	43		9.820					ND	
81 Chlorodibromomethane	129		9.870					ND	
82 Ethylene Dibromide	107		9.985					ND	
83 3-Chlorobenzotrifluoride	180		10.429					ND	
84 Chlorobenzene	112		10.466					ND	
85 4-Chlorobenzotrifluoride	180		10.521					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
86 1,1,1,2-Tetrachloroethane	131		10.563					ND	
87 Ethylbenzene	106		10.569					ND	
88 m-Xylene & p-Xylene	106		10.697					ND	
89 o-Xylene	106		11.080					ND	
90 Styrene	104		11.099					ND	
91 Bromoform	173		11.287					ND	
129 Cyclohexanol	57		11.289					ND	
92 2-Chlorobenzotrifluoride	180		11.342					ND	
93 Isopropylbenzene	105		11.445					ND	
94 Cyclohexanone	55		11.536					ND	
96 1,1,2,2-Tetrachloroethane	83		11.756					ND	
95 Bromobenzene	156		11.768					ND	
97 trans-1,4-Dichloro-2-buten	53		11.792					ND	
98 1,2,3-Trichloropropane	110		11.810					ND	
99 N-Propylbenzene	120		11.865					ND	
100 2-Chlorotoluene	126		11.956					ND	
101 3-Chlorotoluene	126		12.017					ND	
102 1,3,5-Trimethylbenzene	105		12.048					ND	
103 4-Chlorotoluene	126		12.084					ND	
104 tert-Butylbenzene	119		12.364					ND	
105 Pentachloroethane	167		12.393					ND	
106 1,2,4-Trimethylbenzene	105		12.425					ND	
107 1,2-dichloro-4-(trifluorom	214		12.455					ND	
108 sec-Butylbenzene	105		12.589					ND	
109 1,3-Dichlorobenzene	146		12.711					ND	
110 4-Isopropyltoluene	119		12.747					ND	
111 1,4-Dichlorobenzene	146		12.814					ND	
113 2,4-Dichloro-1-(triflourom	214		12.832					ND	
112 1,2,3-Trimethylbenzene	105		12.837					ND	
114 2,5-Dichlorobenzotrifluori	214		12.869					ND	
115 Benzyl chloride	91		12.923					ND	
116 n-Butylbenzene	91		13.155					ND	
117 1,2-Dichlorobenzene	146		13.167					ND	
118 1,2-Dibromo-3-Chloropropan	75		13.964					ND	
119 2,4- & 2,5- & 2,6- Dichlor	125		14.104					ND	
120 1,3,5-Trichlorobenzene	180		14.151					ND	
121 2,3- & 3,4- Dichlorotoluen	125		14.518					ND	
122 1,2,4-Trichlorobenzene	180		14.785					ND	
123 Hexachlorobutadiene	225		14.931					ND	
124 Naphthalene	128		15.053					ND	
125 1,2,3-Trichlorobenzene	180		15.278					ND	
126 2,4,5-Trichlorotoluene	159		16.045					ND	
127 2,3,6-Trichlorotoluene	159		16.148					ND	
128 2-Methylnaphthalene	142		16.183					ND	
144 2,4-Dichlorotoluene	1		0.000					ND	
143 2,5-Dichlorotoluene	1		0.000					ND	
147 2,6-Dichlorotoluene	1		0.000					ND	
149 Isopropyl ether TIC	1		0.000					ND	
153 1,2 Epoxybutane TIC	1		0.000					ND	
145 2,3-Dichlorotoluene	1		0.000					ND	
151 Tert-amyl methyl ether (TI	1		0.000					ND	
148 Isooctane	57		0.000					ND	

Data File: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\60327006.D

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
152 Formaldehyde TIC	1		0.000					ND	
150 Tert-butyl ethyl ether (TI	1		0.000					ND	
146 3,4-Dichlorotoluene	1		0.000					ND	
S 130 1,2-Dichloroethene, Total	96		1.000					ND	
S 131 Xylenes, Total	106		1.000					ND	
S 132 1,3-Dichloropropene, Total	1		0.000					ND	
T 133 Tetrahydrofuran TIC	42		0.000					ND	
T 134 Methyl n-amyl ketone TIC	43		0.000					ND	
T 135 Mesityl oxide TIC	83		0.000					ND	

Reagents:

VOA8260INT_00030

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURRE_00032

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\60327006.D

Injection Date: 27-Mar-2015 14:21:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

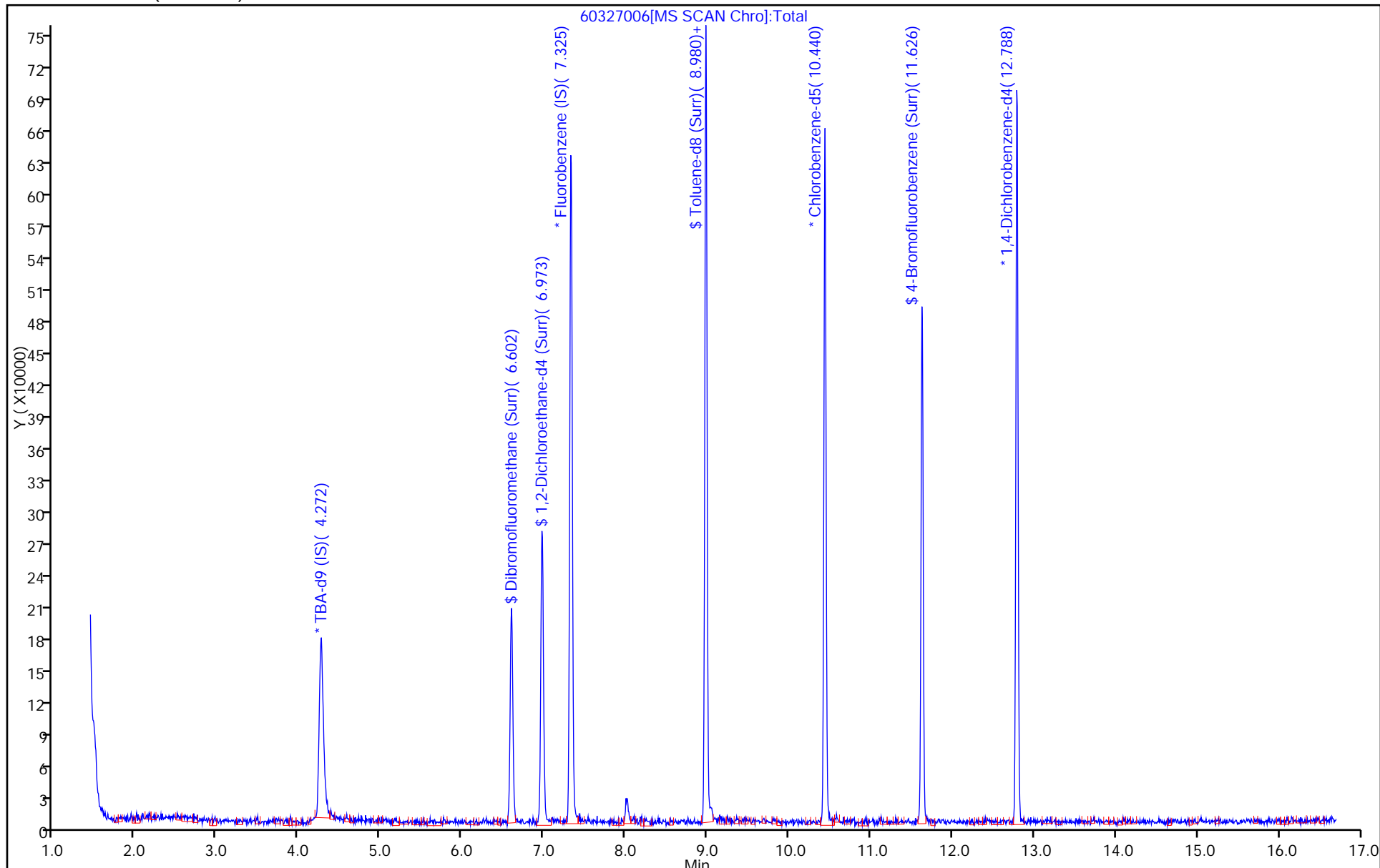
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: MSVOA_LL_CHHP6

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.: 180-42389-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 180-136938/5
 Matrix: Water Lab File ID: 60330005.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 11:37
 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.: 136938 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.: 180-42389-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 180-136938/5
 Matrix: Water Lab File ID: 60330005.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 11:37
 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.: 136938 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)	121		64-135
2037-26-5	Toluene-d8 (Surr)	106		71-118
460-00-4	4-Bromofluorobenzene (Surr)	98		70-118
1868-53-7	Dibromofluoromethane (Surr)	104		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330005.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 30-Mar-2015 11:37:30 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 180-0006236-005
 Operator ID: 001562 Instrument ID: CHHP6
 Method: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\MMSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 30-Mar-2015 13:01:37 Calib Date: 28-Jan-2015 16:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: fergusond

Date: 30-Mar-2015 13:01:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.265	4.284	-0.019	92	271835	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.325	7.332	-0.007	97	594166	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.434	10.440	-0.006	93	117363	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.794	12.795	-0.001	97	187859	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.601	6.596	0.005	93	140245	50.0	52.2	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.973	6.973	0.000	71	233200	50.0	60.6	
\$ 7 Toluene-d8 (Surr)	98	8.980	8.980	0.000	94	488700	50.0	52.8	
\$ 8 4-Bromofluorobenzene (Surr	95	11.626	11.627	-0.001	81	193032	50.0	49.0	
11 Dichlorodifluoromethane	85		1.632					ND	
12 Chloromethane	50		1.765					ND	
13 Vinyl chloride	62		1.899					ND	
14 Butadiene	39		1.942					ND	
15 Bromomethane	94		2.246					ND	
16 Chloroethane	64		2.392					ND	
17 Dichlorofluoromethane	67		2.672					ND	
18 Trichlorofluoromethane	101		2.714					ND	
19 Ethanol	45		2.949					ND	
20 Ethyl ether	59		3.061					ND	
21 Acrolein	56		3.244					ND	
22 1,1-Dichloroethene	96		3.371					ND	
23 1,1,2-Trichloro-1,2,2-trif	101		3.432					ND	
24 Acetone	43		3.451					ND	
25 Iodomethane	142		3.584					ND	
26 Carbon disulfide	76		3.682					ND	
27 Isopropyl alcohol	45		3.727					ND	
28 Acetonitrile	40		3.879					ND	
29 3-Chloro-1-propene	76		3.962					ND	
30 Methyl acetate	43		3.968					ND	
31 Methylene Chloride	84		4.168					ND	
32 2-Methyl-2-propanol	59		4.412					ND	
33 Acrylonitrile	53		4.539					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
35 Methyl tert-butyl ether	73		4.606					ND	
34 trans-1,2-Dichloroethene	96		4.606					ND	
36 Hexane	57		5.026					ND	
37 1,1-Dichloroethane	63		5.239					ND	
38 Vinyl acetate	43		5.276					ND	
40 Isopropyl ether	45		5.333					ND	
39 2-Chloro-1,3-butadiene	53		5.339					ND	
41 Tert-butyl ethyl ether	59		5.808					ND	
42 2,2-Dichloropropane	77		5.975					ND	
43 cis-1,2-Dichloroethene	96		5.981					ND	
44 2-Butanone (MEK)	43		5.987					ND	
45 Propionitrile	54		6.051					ND	
46 Ethyl acetate	43		6.063					ND	
47 Methacrylonitrile	41		6.234					ND	
48 Chlorobromomethane	128		6.273					ND	
49 Tetrahydrofuran	42		6.285					ND	
50 Chloroform	83		6.413					ND	
51 1,1,1-Trichloroethane	97		6.584					ND	
52 Cyclohexane	56		6.663					ND	
53 Carbon tetrachloride	117		6.760					ND	
54 1,1-Dichloropropene	75		6.766					ND	
55 Isobutyl alcohol	41		6.936					ND	
56 Benzene	78		6.985					ND	
57 1,2-Dichloroethane	62		7.058					ND	
58 Tert-amyl methyl ether	73		7.158					ND	
59 n-Heptane	43		7.344					ND	
60 n-Butanol	56		7.639					ND	
61 Trichloroethene	130		7.721					ND	
62 Ethyl acrylate	55		7.828					ND	
63 Methylcyclohexane	83		7.964					ND	
64 1,2-Dichloropropane	63		7.989					ND	
66 Methyl methacrylate	69		8.065					ND	
65 1,4-Dioxane	88		8.074					ND	
67 Dibromomethane	93		8.080					ND	
68 Dichlorobromomethane	83		8.275					ND	
69 2-Nitropropane	41		8.485					ND	
70 2-Chloroethyl vinyl ether	63		8.570					ND	
71 cis-1,3-Dichloropropene	75		8.719					ND	
72 4-Methyl-2-pentanone (MIBK)	43		8.859					ND	
73 Toluene	91	9.053	9.047	0.006	44	4899		0.4083	
74 trans-1,3-Dichloropropene	75		9.297					ND	
75 Ethyl methacrylate	69		9.345					ND	
76 1,1,2-Trichloroethane	97		9.485					ND	
77 Tetrachloroethene	164		9.571					ND	
78 1,3-Dichloropropane	76		9.650					ND	
79 2-Hexanone	43		9.692					ND	
80 n-Butyl acetate	43		9.817					ND	
81 Chlorodibromomethane	129		9.863					ND	
82 Ethylene Dibromide	107		9.984					ND	
83 3-Chlorobenzotrifluoride	180		10.428					ND	
84 Chlorobenzene	112		10.471					ND	
85 4-Chlorobenzotrifluoride	180		10.520					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
86 1,1,1,2-Tetrachloroethane	131		10.562					ND	
87 Ethylbenzene	106		10.568					ND	
88 m-Xylene & p-Xylene	106		10.696					ND	
89 o-Xylene	106		11.079					ND	
90 Styrene	104		11.104					ND	
129 Cyclohexanol	57		11.289					ND	
91 Bromoform	173		11.292					ND	
92 2-Chlorobenzotrifluoride	180		11.341					ND	
93 Isopropylbenzene	105		11.444					ND	
94 Cyclohexanone	55		11.526					ND	
96 1,1,2,2-Tetrachloroethane	83		11.754					ND	
95 Bromobenzene	156		11.767					ND	
97 trans-1,4-Dichloro-2-buten	53		11.797					ND	
98 1,2,3-Trichloropropane	110		11.815					ND	
99 N-Propylbenzene	120		11.864					ND	
100 2-Chlorotoluene	126		11.955					ND	
101 3-Chlorotoluene	126		12.016					ND	
102 1,3,5-Trimethylbenzene	105		12.046					ND	
103 4-Chlorotoluene	126		12.077					ND	
104 tert-Butylbenzene	119		12.363					ND	
105 Pentachloroethane	167		12.402					ND	
106 1,2,4-Trimethylbenzene	105		12.424					ND	
107 1,2-dichloro-4-(trifluorom	214		12.454					ND	
108 sec-Butylbenzene	105		12.588					ND	
109 1,3-Dichlorobenzene	146		12.710					ND	
110 4-Isopropyltoluene	119		12.746					ND	
111 1,4-Dichlorobenzene	146		12.819					ND	
113 2,4-Dichloro-1-(triflourom	214		12.831					ND	
112 1,2,3-Trimethylbenzene	105		12.834					ND	
114 2,5-Dichlorobenzotrifluori	214		12.868					ND	
115 Benzyl chloride	91		12.926					ND	
116 n-Butylbenzene	91		13.154					ND	
117 1,2-Dichlorobenzene	146		13.166					ND	
118 1,2-Dibromo-3-Chloropropan	75		13.957					ND	
119 2,4- & 2,5- & 2,6- Dichlor	125		14.103					ND	
120 1,3,5-Trichlorobenzene	180		14.154					ND	
121 2,3- & 3,4- Dichlorotoluen	125		14.516					ND	
122 1,2,4-Trichlorobenzene	180		14.784					ND	
123 Hexachlorobutadiene	225		14.930					ND	
124 Naphthalene	128		15.052					ND	
125 1,2,3-Trichlorobenzene	180		15.277					ND	
126 2,4,5-Trichlorotoluene	159		16.049					ND	
127 2,3,6-Trichlorotoluene	159		16.147					ND	
128 2-Methylnaphthalene	142		16.186					ND	
144 2,4-Dichlorotoluene	1		0.000					ND	
146 3,4-Dichlorotoluene	1		0.000					ND	
147 2,6-Dichlorotoluene	1		0.000					ND	
152 Formaldehyde TIC	1		0.000					ND	
153 1,2 Epoxybutane TIC	1		0.000					ND	
143 2,5-Dichlorotoluene	1		0.000					ND	
151 Tert-amyl methyl ether (TI	1		0.000					ND	
148 Isooctane	57		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
145 2,3-Dichlorotoluene	1		0.000						ND
150 Tert-butyl ethyl ether (TI	1		0.000						ND
149 Isopropyl ether TIC	1		0.000						ND
S 130 1,2-Dichloroethene, Total	96		1.000						ND
S 131 Xylenes, Total	106		1.000						ND
S 132 1,3-Dichloropropene, Total	1		0.000						ND
T 133 Tetrahydrofuran TIC	42		0.000						ND
T 134 Methyl n-amyl ketone TIC	43		0.000						ND
T 135 Mesityl oxide TIC	83		0.000						ND

Reagents:

VOA8260INT_00030

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00032

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330005.D

Injection Date: 30-Mar-2015 11:37:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: MB

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

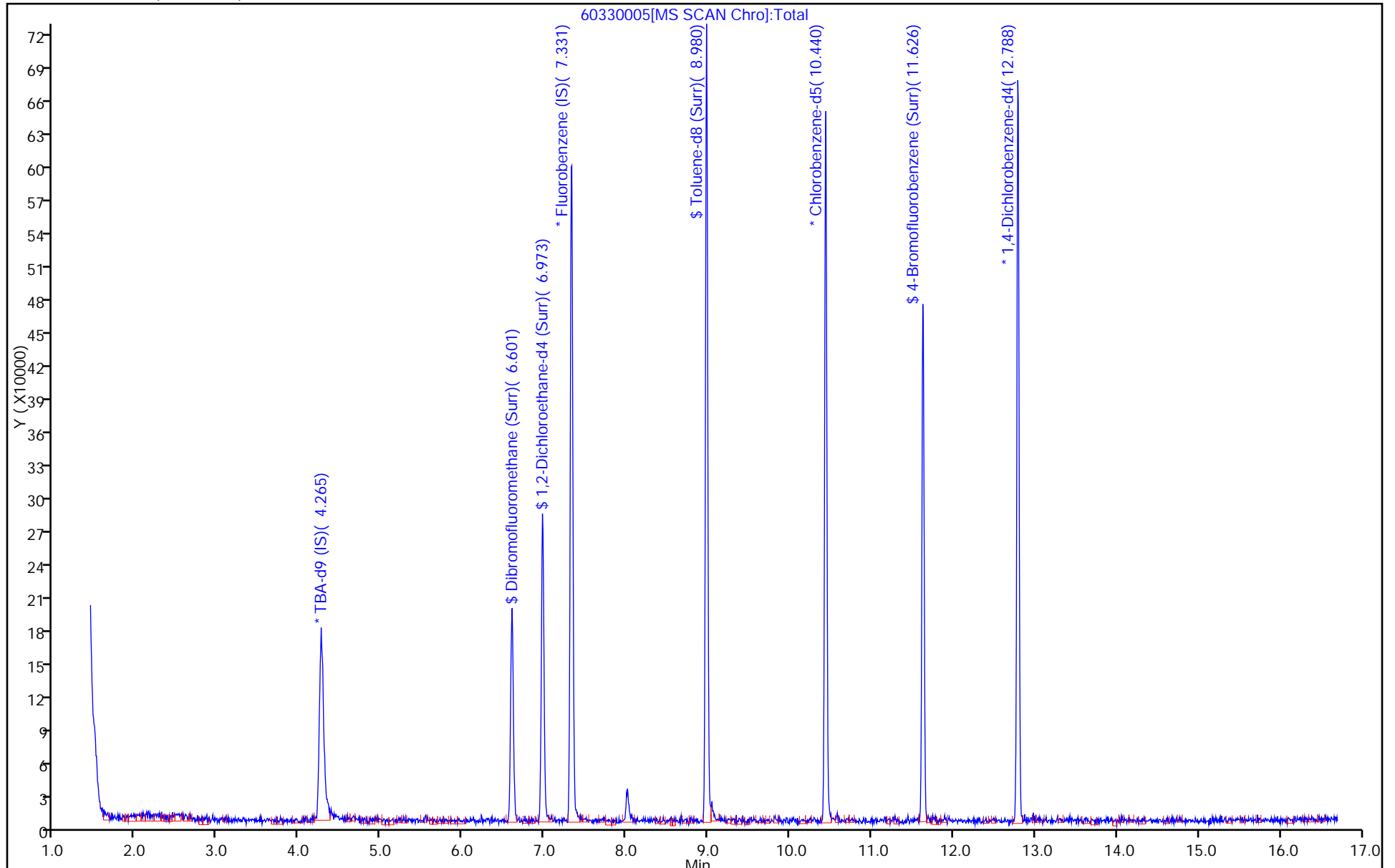
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: MSVOA_LL_CHHP6

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.: 180-42389-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 180-136799/8
 Matrix: Water Lab File ID: 60327008.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/27/2015 15:30
 Soil Aliquot Vol: 5 (mL) Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 136799 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	7.58		1.0	0.28
75-01-4	Vinyl chloride	8.58		1.0	0.23
74-83-9	Bromomethane	10.3		1.0	0.31
75-00-3	Chloroethane	8.57		1.0	0.21
75-35-4	1,1-Dichloroethene	9.57		1.0	0.30
67-64-1	Acetone	21.7		5.0	2.5
75-15-0	Carbon disulfide	7.51		1.0	0.21
75-09-2	Methylene Chloride	7.93		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	8.52		1.0	0.17
1634-04-4	Methyl tert-butyl ether	9.32		1.0	0.18
75-34-3	1,1-Dichloroethane	8.34		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	8.47		1.0	0.24
74-97-5	Bromochloromethane	8.72		1.0	0.18
78-93-3	2-Butanone (MEK)	18.5		5.0	0.55
67-66-3	Chloroform	9.10		1.0	0.17
71-55-6	1,1,1-Trichloroethane	7.97		1.0	0.29
56-23-5	Carbon tetrachloride	7.98		1.0	0.14
71-43-2	Benzene	9.51		1.0	0.11
107-06-2	1,2-Dichloroethane	11.1		1.0	0.21
79-01-6	Trichloroethene	8.19		1.0	0.14
78-87-5	1,2-Dichloropropane	8.43		1.0	0.095
75-27-4	Bromodichloromethane	8.72		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	7.92		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	19.8		5.0	0.53
108-88-3	Toluene	10.2		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	8.92		1.0	0.15
79-00-5	1,1,2-Trichloroethane	11.1		1.0	0.20
127-18-4	Tetrachloroethene	9.76		1.0	0.15
591-78-6	2-Hexanone	22.2		5.0	0.16
124-48-1	Dibromochloromethane	8.68		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	10.6		1.0	0.18
108-90-7	Chlorobenzene	9.61		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	8.06		1.0	0.28
100-41-4	Ethylbenzene	8.97		1.0	0.23
1330-20-7	Xylenes, Total	17.6		3.0	0.49
100-42-5	Styrene	9.98		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 180-136799/8
 Matrix: Water Lab File ID: 60327008.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/27/2015 15:30
 Soil Aliquot Vol: 5 (mL) Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 136799 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	9.32		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	12.3		1.0	0.20
107-13-1	Acrylonitrile	129		20	0.55
123-91-1	1,4-Dioxane	244		200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		64-135
2037-26-5	Toluene-d8 (Surr)	105		71-118
460-00-4	4-Bromofluorobenzene (Surr)	102		70-118
1868-53-7	Dibromofluoromethane (Surr)	102		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\60327008.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 27-Mar-2015 15:30:30 ALS Bottle#: 7 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 180-0006216-008
 Operator ID: 001562 Instrument ID: CHHP6
 Method: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 27-Mar-2015 16:03:11 Calib Date: 28-Jan-2015 16:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK009

First Level Reviewer: fergusond

Date: 27-Mar-2015 16:03:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.285	4.285	0.000	92	249779	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.333	7.327	0.006	97	575635	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.436	10.436	0.000	91	117534	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.790	12.790	0.000	96	186408	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.603	6.597	0.006	93	133111	50.0	51.1	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.974	6.974	0.000	72	210928	50.0	56.6	
\$ 7 Toluene-d8 (Surr)	98	8.982	8.982	0.000	94	486896	50.0	52.6	
\$ 8 4-Bromofluorobenzene (Surr	95	11.628	11.628	0.000	82	200266	50.0	50.8	
11 Dichlorodifluoromethane	85	1.615	1.615	0.000	99	136441	50.0	44.7	
12 Chloromethane	50	1.767	1.767	0.000	99	177873	50.0	37.9	
13 Vinyl chloride	62	1.901	1.900	0.001	97	178389	50.0	42.9	
14 Butadiene	39	1.943	1.943	0.000	88	176439	50.0	39.8	
15 Bromomethane	94	2.247	2.235	0.012	91	85887	50.0	51.5	
16 Chloroethane	64	2.399	2.387	0.012	100	109243	50.0	42.9	
17 Dichlorofluoromethane	67	2.673	2.667	0.006	97	292587	50.0	48.1	
18 Trichlorofluoromethane	101	2.716	2.703	0.013	84	236554	50.0	49.7	
20 Ethyl ether	59	3.075	3.075	0.000	92	179049	50.0	49.4	
21 Acrolein	56	3.257	3.245	0.012	97	48335	150.0	84.0	
22 1,1-Dichloroethene	96	3.373	3.373	0.000	94	154652	50.0	47.9	
23 1,1,2-Trichloro-1,2,2-trif	101	3.434	3.440	-0.006	95	156500	50.0	47.9	
24 Acetone	43	3.464	3.458	0.006	95	110691	100.0	108.7	
25 Iodomethane	142	3.580	3.573	0.007	98	189997	50.0	39.7	
26 Carbon disulfide	76	3.689	3.683	0.006	99	359250	50.0	37.5	
29 3-Chloro-1-propene	76	3.963	3.951	0.012	60	83746	50.0	39.9	
30 Methyl acetate	43	3.969	3.963	0.006	97	742770	250.0	298.0	
31 Methylene Chloride	84	4.176	4.170	0.006	96	187334	50.0	39.6	
32 2-Methyl-2-propanol	59	4.413	4.413	0.000	94	130707	500.0	463.1	
33 Acrylonitrile	53	4.541	4.541	0.000	100	839538	500.0	646.0	
34 trans-1,2-Dichloroethene	96	4.614	4.608	0.006	71	165769	50.0	42.6	
35 Methyl tert-butyl ether	73	4.614	4.608	0.006	97	476776	50.0	46.6	
36 Hexane	57	5.034	5.027	0.007	94	234723	50.0	41.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.240	5.240	0.000	96	313965	50.0	41.7	
38 Vinyl acetate	43	5.277	5.277	0.000	97	275104	50.0	70.3	
43 cis-1,2-Dichloroethene	96	5.983	5.982	0.001	84	174697	50.0	42.3	
42 2,2-Dichloropropane	77	5.983	5.982	0.001	58	141807	50.0	33.2	
44 2-Butanone (MEK)	43	5.989	5.982	0.007	51	120462	100.0	92.3	
48 Chlorobromomethane	128	6.275	6.274	0.001	91	71636	50.0	43.6	
49 Tetrahydrofuran	42	6.287	6.287	0.000	87	102464	100.0	109.2	
50 Chloroform	83	6.421	6.420	0.001	94	294992	50.0	45.5	
51 1,1,1-Trichloroethane	97	6.579	6.579	0.000	95	196801	50.0	39.9	
52 Cyclohexane	56	6.664	6.664	0.000	96	345998	50.0	43.5	
53 Carbon tetrachloride	117	6.761	6.761	0.000	74	154267	50.0	39.9	
54 1,1-Dichloropropene	75	6.774	6.767	0.007	94	223526	50.0	45.4	
55 Isobutyl alcohol	41	6.938	6.931	0.007	90	113771	1250.0	1485.7	
56 Benzene	78	6.986	6.980	0.006	98	679380	50.0	47.5	
57 1,2-Dichloroethane	62	7.066	7.059	0.007	98	261443	50.0	55.7	
59 n-Heptane	43	7.345	7.345	0.000	94	178399	50.0	39.2	
61 Trichloroethene	130	7.723	7.716	0.007	92	133261	50.0	40.9	
63 Methylcyclohexane	83	7.966	7.966	0.000	94	258728	50.0	40.3	
64 1,2-Dichloropropane	63	7.996	7.990	0.006	94	159473	50.0	42.2	
65 1,4-Dioxane	88	8.069	8.069	0.000	52	28892	1000.0	1221.2	M
67 Dibromomethane	93	8.081	8.081	0.000	95	89905	50.0	53.2	
68 Dichlorobromomethane	83	8.276	8.276	0.000	98	172773	50.0	43.6	
71 cis-1,3-Dichloropropene	75	8.720	8.714	0.006	92	180231	50.0	39.6	
72 4-Methyl-2-pentanone (MIBK)	43	8.860	8.854	0.006	97	262156	100.0	98.9	
73 Toluene	91	9.049	9.049	0.000	98	610742	50.0	50.8	
74 trans-1,3-Dichloropropene	75	9.292	9.292	0.000	96	146970	50.0	44.6	
75 Ethyl methacrylate	69	9.347	9.347	0.000	90	165552	50.0	54.6	
76 1,1,2-Trichloroethane	97	9.487	9.487	0.000	94	120987	50.0	55.4	
77 Tetrachloroethene	164	9.566	9.566	0.000	95	104708	50.0	48.8	
78 1,3-Dichloropropane	76	9.651	9.651	0.000	94	226594	50.0	55.9	
79 2-Hexanone	43	9.687	9.693	-0.006	97	168126	100.0	111.1	
81 Chlorodibromomethane	129	9.870	9.870	0.000	90	80381	50.0	43.4	
82 Ethylene Dibromide	107	9.986	9.985	0.001	99	105304	50.0	53.1	
83 3-Chlorobenzotrifluoride	180	10.430	10.429	0.001	93	222668	50.0	53.3	
84 Chlorobenzene	112	10.466	10.466	0.000	90	360437	50.0	48.1	
85 4-Chlorobenzotrifluoride	180	10.521	10.521	0.000	96	211370	50.0	54.3	
86 1,1,1,2-Tetrachloroethane	131	10.564	10.563	0.001	85	104155	50.0	40.3	
87 Ethylbenzene	106	10.564	10.569	-0.005	99	201910	50.0	44.9	
88 m-Xylene & p-Xylene	106	10.697	10.697	0.000	99	244448	50.0	44.0	
89 o-Xylene	106	11.081	11.080	0.001	98	250844	50.0	43.9	
90 Styrene	104	11.099	11.099	0.000	94	419603	50.0	49.9	
91 Bromoform	173	11.287	11.287	0.000	93	46218	50.0	46.6	
92 2-Chlorobenzotrifluoride	180	11.342	11.342	0.000	93	231372	50.0	53.1	
93 Isopropylbenzene	105	11.446	11.445	0.001	98	646286	50.0	45.9	
96 1,1,2,2-Tetrachloroethane	83	11.756	11.756	0.000	96	180856	50.0	61.6	
95 Bromobenzene	156	11.768	11.768	0.000	95	135785	50.0	41.6	
97 trans-1,4-Dichloro-2-buten	53	11.792	11.792	0.000	70	47238	50.0	51.5	
98 1,2,3-Trichloropropane	110	11.811	11.810	0.001	85	53539	50.0	56.1	
99 N-Propylbenzene	120	11.865	11.865	0.000	99	167591	50.0	43.0	
100 2-Chlorotoluene	126	11.957	11.956	0.001	93	143883	50.0	41.9	
101 3-Chlorotoluene	126	12.017	12.017	0.000	97	184960	50.0	51.5	
102 1,3,5-Trimethylbenzene	105	12.048	12.048	0.000	93	574790	50.0	45.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
103 4-Chlorotoluene	126	12.078	12.084	-0.006	98	149768	50.0	42.5	
104 tert-Butylbenzene	119	12.364	12.364	0.000	92	434745	50.0	44.6	
106 1,2,4-Trimethylbenzene	105	12.425	12.425	0.000	98	597510	50.0	46.1	
107 1,2-dichloro-4-(trifluorom	214	12.455	12.455	0.000	97	193729	50.0	53.5	
108 sec-Butylbenzene	105	12.589	12.589	0.000	96	658642	50.0	43.7	
109 1,3-Dichlorobenzene	146	12.711	12.711	0.000	94	284189	50.0	44.5	
110 4-Isopropyltoluene	119	12.741	12.747	-0.006	95	554433	50.0	45.3	
111 1,4-Dichlorobenzene	146	12.820	12.814	0.006	91	293598	50.0	44.4	
113 2,4-Dichloro-1-(trifluorom	214	12.827	12.832	-0.005	96	202177	50.0	55.6	
114 2,5-Dichlorobenzotrifluori	214	12.869	12.869	0.000	98	204624	50.0	51.1	
116 n-Butylbenzene	91	13.155	13.155	0.000	98	525849	50.0	44.7	
117 1,2-Dichlorobenzene	146	13.167	13.167	0.000	92	283130	50.0	44.3	
118 1,2-Dibromo-3-Chloropropan	75	13.964	13.964	0.000	70	27562	50.0	54.0	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.104	14.104	0.000	98	939647	150.0	156.7	
121 2,3- & 3,4- Dichlorotoluen	125	14.518	14.518	0.000	98	694239	100.0	106.0	
122 1,2,4-Trichlorobenzene	180	14.785	14.785	0.000	93	211869	50.0	42.8	
123 Hexachlorobutadiene	225	14.931	14.931	0.000	96	71069	50.0	36.7	
124 Naphthalene	128	15.053	15.053	0.000	98	484082	50.0	56.9	
125 1,2,3-Trichlorobenzene	180	15.278	15.278	0.000	93	195025	50.0	47.1	
126 2,4,5-Trichlorotoluene	159	16.051	16.045	0.007	0	122382	50.0	40.2	
127 2,3,6-Trichlorotoluene	159	16.148	16.148	0.000	93	115187	50.0	42.4	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
S 131 Xylenes, Total	106				0		100.0	88.0	
S 130 1,2-Dichloroethene, Total	96				0		100.0	84.9	
S 132 1,3-Dichloropropene, Total	1				0		100.0	84.2	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

voaW8260voa2n_00005	Amount Added: 2.00	Units: uL	
VOAEE2ND_00001	Amount Added: 2.00	Units: uL	
voaWVA2nd Res_00006	Amount Added: 2.00	Units: uL	
voaWKet2 Rest_00002	Amount Added: 2.00	Units: uL	
VOAACRPRI_00003	Amount Added: 6.00	Units: uL	
VOA8260INT_00030	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00032	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\60327008.D

Injection Date: 27-Mar-2015 15:30:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: LCS

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

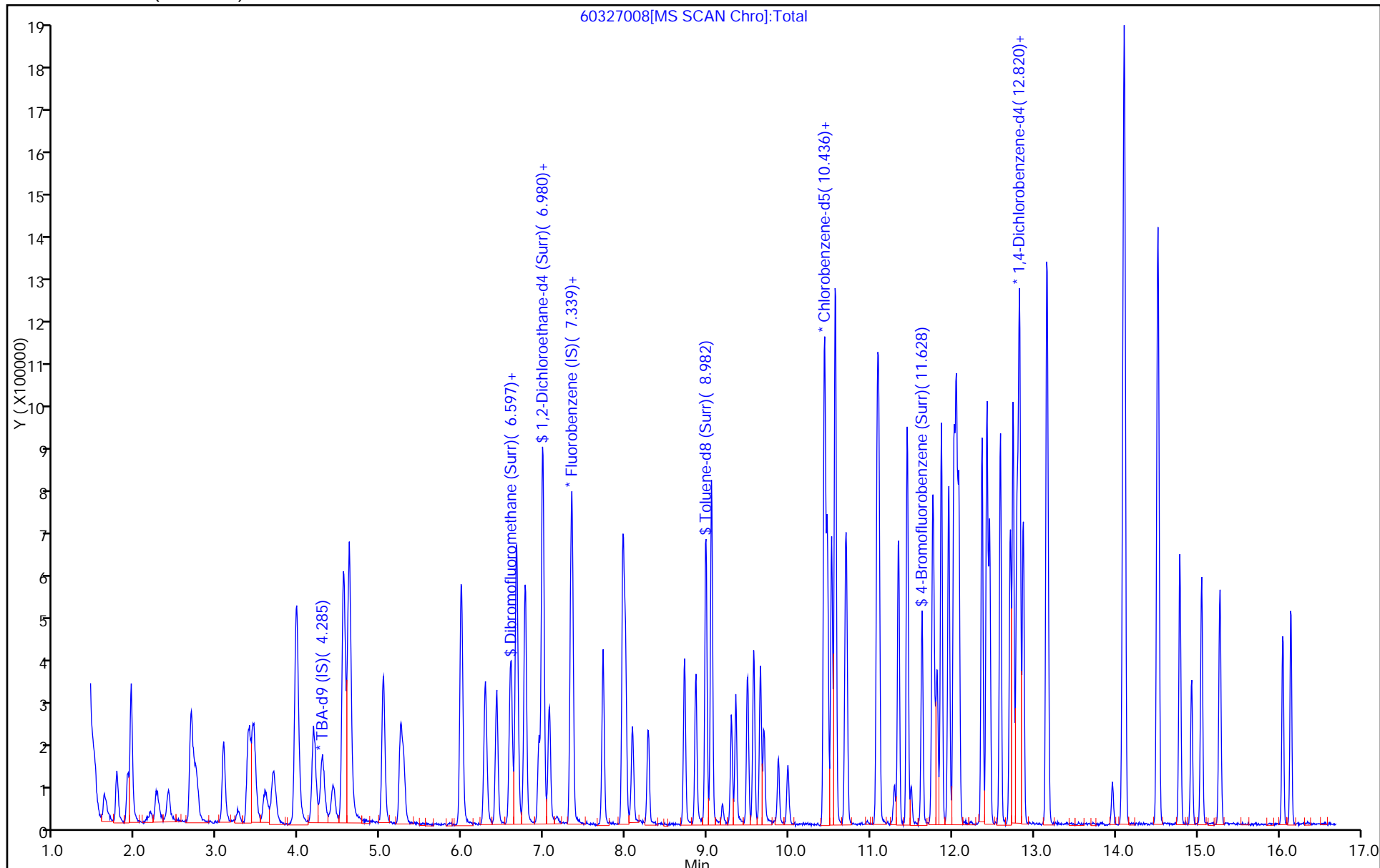
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



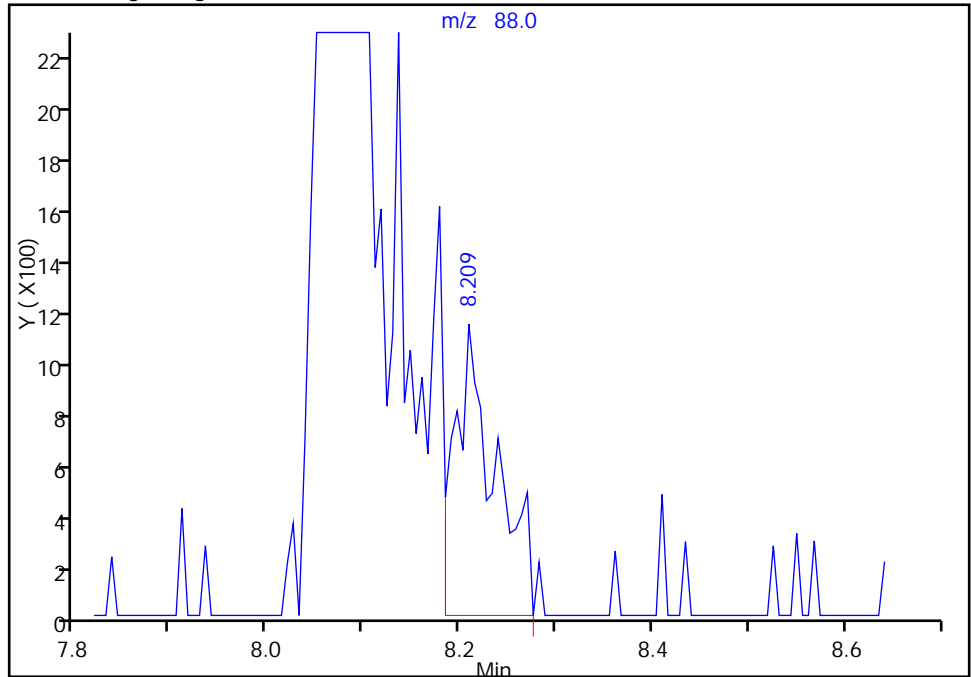
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150327-6216.b\60327008.D
Injection Date: 27-Mar-2015 15:30:30 Instrument ID: CHHP6
Lims ID: LCS
Client ID:
Operator ID: 001562 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

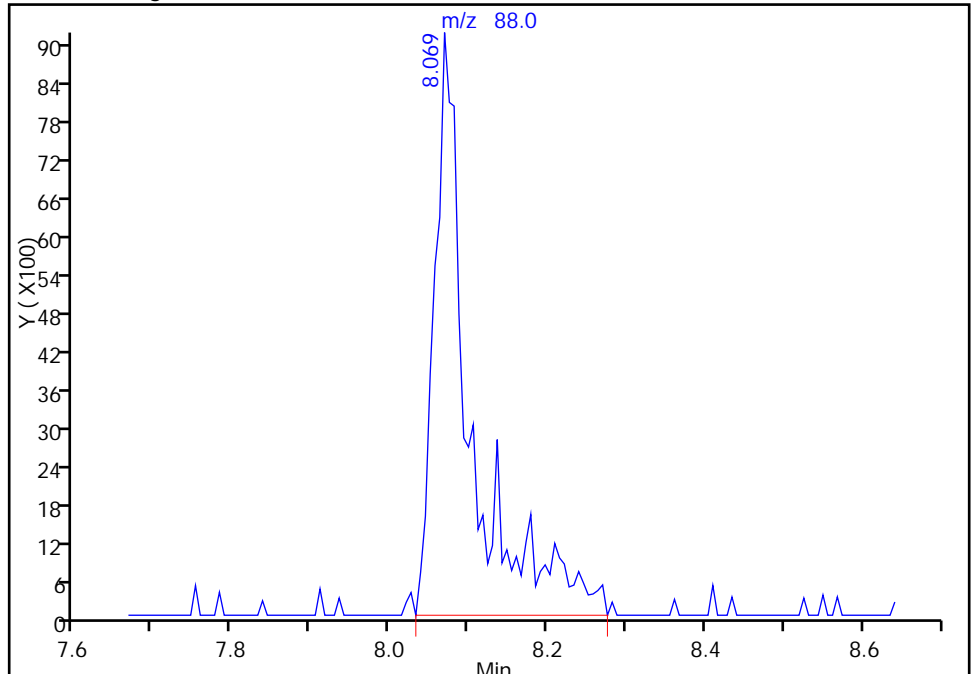
RT: 8.21
Area: 3281
Amount: 165.2289
Amount Units: ng

Processing Integration Results



RT: 8.07
Area: 28892
Amount: 1221.1552
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 27-Mar-2015 15:55:26
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 180-136938/8
 Matrix: Water Lab File ID: 60330008.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 13:03
 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.: 136938 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	8.62		1.0	0.28
75-01-4	Vinyl chloride	9.46		1.0	0.23
74-83-9	Bromomethane	11.2		1.0	0.31
75-00-3	Chloroethane	8.96		1.0	0.21
75-35-4	1,1-Dichloroethene	9.02		1.0	0.30
67-64-1	Acetone	25.3		5.0	2.5
75-15-0	Carbon disulfide	7.01		1.0	0.21
75-09-2	Methylene Chloride	8.28		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	9.06		1.0	0.17
1634-04-4	Methyl tert-butyl ether	9.88		1.0	0.18
75-34-3	1,1-Dichloroethane	8.96		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	9.00		1.0	0.24
74-97-5	Bromochloromethane	9.63		1.0	0.18
78-93-3	2-Butanone (MEK)	22.2		5.0	0.55
67-66-3	Chloroform	9.75		1.0	0.17
71-55-6	1,1,1-Trichloroethane	8.59		1.0	0.29
56-23-5	Carbon tetrachloride	8.23		1.0	0.14
71-43-2	Benzene	10.1		1.0	0.11
107-06-2	1,2-Dichloroethane	11.9		1.0	0.21
79-01-6	Trichloroethene	9.14		1.0	0.14
78-87-5	1,2-Dichloropropane	9.50		1.0	0.095
75-27-4	Bromodichloromethane	9.93		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	9.21		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	19.2		5.0	0.53
108-88-3	Toluene	10.7		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	10.8		1.0	0.15
79-00-5	1,1,2-Trichloroethane	11.9		1.0	0.20
127-18-4	Tetrachloroethene	9.91		1.0	0.15
591-78-6	2-Hexanone	21.7		5.0	0.16
124-48-1	Dibromochloromethane	10.2		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	12.2		1.0	0.18
108-90-7	Chlorobenzene	10.8		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	9.51		1.0	0.28
100-41-4	Ethylbenzene	9.37		1.0	0.23
1330-20-7	Xylenes, Total	18.6		3.0	0.49
100-42-5	Styrene	10.8		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 180-136938/8
 Matrix: Water Lab File ID: 60330008.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 13:03
 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.: 136938 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	11.5		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	13.6		1.0	0.20
107-13-1	Acrylonitrile	137		20	0.55
123-91-1	1,4-Dioxane	286		200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	121		64-135
2037-26-5	Toluene-d8 (Surr)	100		71-118
460-00-4	4-Bromofluorobenzene (Surr)	101		70-118
1868-53-7	Dibromofluoromethane (Surr)	100		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330008.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 30-Mar-2015 13:03:30 ALS Bottle#: 8 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 180-0006236-008
 Operator ID: 001562 Instrument ID: CHHP6
 Method: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\MMSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 30-Mar-2015 13:59:34 Calib Date: 28-Jan-2015 16:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: fergusond

Date: 30-Mar-2015 13:59:41

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.280	4.284	-0.004	91	253324	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.328	7.332	-0.004	98	529801	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.443	10.440	0.003	91	113057	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.791	12.795	-0.004	94	175872	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.604	6.596	0.008	93	119747	50.0	50.0	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.975	6.973	0.002	54	206886	50.0	60.3	
\$ 7 Toluene-d8 (Surr)	98	8.983	8.980	0.003	94	447345	50.0	50.2	
\$ 8 4-Bromofluorobenzene (Surr	95	11.629	11.627	0.002	80	191129	50.0	50.4	
11 Dichlorodifluoromethane	85	1.616	1.632	-0.016	98	152938	50.0	54.5	
12 Chloromethane	50	1.768	1.765	0.003	99	186114	50.0	43.1	
13 Vinyl chloride	62	1.901	1.899	0.002	97	180974	50.0	47.3	
14 Butadiene	39	1.944	1.942	0.002	90	174561	50.0	42.7	
15 Bromomethane	94	2.260	2.246	0.014	91	85972	50.0	56.0	
16 Chloroethane	64	2.400	2.392	0.008	96	105073	50.0	44.8	
17 Dichlorofluoromethane	67	2.674	2.672	0.002	97	295461	50.0	52.8	
18 Trichlorofluoromethane	101	2.729	2.714	0.015	92	240273	50.0	54.9	
20 Ethyl ether	59	3.069	3.061	0.008	94	175662	50.0	52.6	
21 Acrolein	56	3.258	3.244	0.014	95	50947	150.0	96.2	
22 1,1-Dichloroethene	96	3.374	3.371	0.003	95	134131	50.0	45.1	
23 1,1,2-Trichloro-1,2,2-trif	101	3.447	3.432	0.015	94	140264	50.0	46.6	
24 Acetone	43	3.465	3.451	0.014	99	118333	100.0	126.3	
25 Iodomethane	142	3.581	3.584	-0.004	96	182443	50.0	41.4	
26 Carbon disulfide	76	3.696	3.682	0.014	99	308967	50.0	35.1	
29 3-Chloro-1-propene	76	3.958	3.962	-0.004	88	72123	50.0	37.3	
30 Methyl acetate	43	3.970	3.968	0.002	99	765166	250.0	333.6	
31 Methylene Chloride	84	4.177	4.168	0.009	98	180077	50.0	41.4	
32 2-Methyl-2-propanol	59	4.414	4.412	0.002	91	151037	500.0	527.6	
33 Acrylonitrile	53	4.542	4.539	0.003	100	817423	500.0	683.4	
35 Methyl tert-butyl ether	73	4.621	4.606	0.015	98	465018	50.0	49.4	
34 trans-1,2-Dichloroethene	96	4.609	4.606	0.003	68	162321	50.0	45.3	
36 Hexane	57	5.034	5.026	0.008	92	213078	50.0	41.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.247	5.239	0.008	97	310387	50.0	44.8	
38 Vinyl acetate	43	5.278	5.276	0.002	97	233039	50.0	64.7	
42 2,2-Dichloropropane	77	5.983	5.975	0.008	56	127794	50.0	32.5	
43 cis-1,2-Dichloroethene	96	5.983	5.981	0.002	84	170831	50.0	45.0	
44 2-Butanone (MEK)	43	5.983	5.987	-0.004	57	133494	100.0	111.1	
48 Chlorobromomethane	128	6.275	6.273	0.002	90	72791	50.0	48.1	
49 Tetrahydrofuran	42	6.282	6.285	-0.003	85	109347	100.0	126.7	
50 Chloroform	83	6.415	6.413	0.002	95	290662	50.0	48.7	
51 1,1,1-Trichloroethane	97	6.586	6.584	0.002	96	195096	50.0	42.9	
52 Cyclohexane	56	6.665	6.663	0.002	93	295862	50.0	40.4	
53 Carbon tetrachloride	117	6.756	6.760	-0.004	82	146281	50.0	41.1	
54 1,1-Dichloropropene	75	6.768	6.766	0.002	93	224761	50.0	49.6	
55 Isobutyl alcohol	41	6.932	6.936	-0.004	92	132100	1250.0	1874.3	
56 Benzene	78	6.981	6.985	-0.004	97	665976	50.0	50.6	
57 1,2-Dichloroethane	62	7.066	7.058	0.008	97	256859	50.0	59.5	
59 n-Heptane	43	7.346	7.344	0.002	89	160740	50.0	38.4	
61 Trichloroethene	130	7.723	7.721	0.002	92	136947	50.0	45.7	
63 Methylcyclohexane	83	7.967	7.964	0.003	94	244447	50.0	41.4	
64 1,2-Dichloropropane	63	7.997	7.989	0.008	88	165402	50.0	47.5	
65 1,4-Dioxane	88	8.070	8.074	-0.004	92	31098	1000.0	1428.1	
67 Dibromomethane	93	8.082	8.080	0.002	94	93679	50.0	60.2	
68 Dichlorobromomethane	83	8.271	8.275	-0.004	98	181218	50.0	49.7	
71 cis-1,3-Dichloropropene	75	8.721	8.719	0.002	93	192934	50.0	46.1	
72 4-Methyl-2-pentanone (MIBK)	43	8.855	8.859	-0.004	97	244816	100.0	96.0	
73 Toluene	91	9.050	9.047	0.003	98	620633	50.0	53.7	
74 trans-1,3-Dichloropropene	75	9.293	9.297	-0.004	95	171363	50.0	54.1	
75 Ethyl methacrylate	69	9.348	9.345	0.003	91	180867	50.0	62.0	
76 1,1,2-Trichloroethane	97	9.494	9.485	0.009	94	124819	50.0	59.5	
77 Tetrachloroethene	164	9.567	9.571	-0.004	95	102316	50.0	49.6	
78 1,3-Dichloropropane	76	9.646	9.650	-0.004	93	245339	50.0	62.9	
79 2-Hexanone	43	9.694	9.692	0.002	97	157642	100.0	108.3	
81 Chlorodibromomethane	129	9.871	9.863	0.008	91	91059	50.0	51.1	
82 Ethylene Dibromide	107	9.980	9.984	-0.004	99	116275	50.0	60.9	
83 3-Chlorobenzotrifluoride	180	10.430	10.428	0.002	93	219486	50.0	54.6	
84 Chlorobenzene	112	10.467	10.471	-0.004	91	390029	50.0	54.1	
85 4-Chlorobenzotrifluoride	180	10.522	10.520	0.002	95	201923	50.0	54.0	
86 1,1,1,2-Tetrachloroethane	131	10.564	10.562	0.002	85	118301	50.0	47.6	
87 Ethylbenzene	106	10.564	10.568	-0.004	100	202808	50.0	46.9	
88 m-Xylene & p-Xylene	106	10.698	10.696	0.002	99	253273	50.0	47.4	
89 o-Xylene	106	11.075	11.079	-0.004	98	251480	50.0	45.8	
90 Styrene	104	11.100	11.104	-0.004	94	438555	50.0	54.2	
91 Bromoform	173	11.294	11.292	0.002	96	54639	50.0	57.3	
92 2-Chlorobenzotrifluoride	180	11.337	11.341	-0.004	94	219629	50.0	52.4	
93 Isopropylbenzene	105	11.446	11.444	0.002	98	665304	50.0	49.2	
96 1,1,2,2-Tetrachloroethane	83	11.757	11.754	0.003	95	192533	50.0	68.2	
95 Bromobenzene	156	11.769	11.767	0.002	96	141596	50.0	46.0	
97 trans-1,4-Dichloro-2-buten	53	11.793	11.797	-0.004	71	54338	50.0	62.8	
98 1,2,3-Trichloropropane	110	11.818	11.815	0.003	84	62320	50.0	69.2	
99 N-Propylbenzene	120	11.866	11.864	0.002	99	170789	50.0	46.4	
100 2-Chlorotoluene	126	11.951	11.955	-0.004	94	151212	50.0	46.7	
101 3-Chlorotoluene	126	12.018	12.016	0.002	97	180800	50.0	53.4	
102 1,3,5-Trimethylbenzene	105	12.049	12.046	0.003	93	589197	50.0	49.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
103 4-Chlorotoluene	126	12.079	12.077	0.002	99	156056	50.0	46.9	
104 tert-Butylbenzene	119	12.359	12.363	-0.004	92	447407	50.0	48.6	
106 1,2,4-Trimethylbenzene	105	12.420	12.424	-0.004	99	615316	50.0	50.3	
107 1,2-dichloro-4-(trifluorom	214	12.456	12.454	0.002	97	184749	50.0	54.0	
108 sec-Butylbenzene	105	12.584	12.588	-0.004	97	682757	50.0	48.0	
109 1,3-Dichlorobenzene	146	12.706	12.710	-0.004	94	295210	50.0	48.9	
110 4-Isopropyltoluene	119	12.742	12.746	-0.004	95	565254	50.0	49.0	
111 1,4-Dichlorobenzene	146	12.815	12.819	-0.004	88	310426	50.0	49.8	
113 2,4-Dichloro-1-(trifluorom	214	12.827	12.831	-0.004	95	180056	50.0	52.5	
114 2,5-Dichlorobenzotrifluori	214	12.870	12.868	0.002	97	215353	50.0	57.0	
116 n-Butylbenzene	91	13.150	13.154	-0.004	98	544015	50.0	49.0	
117 1,2-Dichlorobenzene	146	13.168	13.166	0.002	91	303362	50.0	50.3	
118 1,2-Dibromo-3-Chloropropan	75	13.965	13.957	0.008	70	32312	50.0	67.1	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.105	14.103	0.002	98	916415	150.0	161.9	
121 2,3- & 3,4- Dichlorotoluen	125	14.519	14.516	0.003	98	687114	100.0	111.2	
122 1,2,4-Trichlorobenzene	180	14.786	14.784	0.002	92	229277	50.0	49.1	
123 Hexachlorobutadiene	225	14.926	14.930	-0.004	95	84043	50.0	46.0	
124 Naphthalene	128	15.054	15.052	0.002	99	540099	50.0	67.3	
125 1,2,3-Trichlorobenzene	180	15.273	15.277	-0.004	94	207510	50.0	53.1	
126 2,4,5-Trichlorotoluene	159	16.046	16.049	-0.003	0	125699	50.0	43.7	
127 2,3,6-Trichlorotoluene	159	16.149	16.147	0.002	94	119215	50.0	46.5	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		100.0	90.3	
S 131 Xylenes, Total	106				0		100.0	93.2	
S 132 1,3-Dichloropropene, Total	1				0		100.0	100.1	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOA8260VOA2ND_00109	Amount Added: 2.00	Units: uL	
VOAEE2ND_00001	Amount Added: 2.00	Units: uL	
voaWVA2nd Res_00006	Amount Added: 2.00	Units: uL	
voaWKet2 Rest_00002	Amount Added: 2.00	Units: uL	
VOAACRPRI_00003	Amount Added: 6.00	Units: uL	
VOA8260INT_00030	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00032	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330008.D

Injection Date: 30-Mar-2015 13:03:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: LCS

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

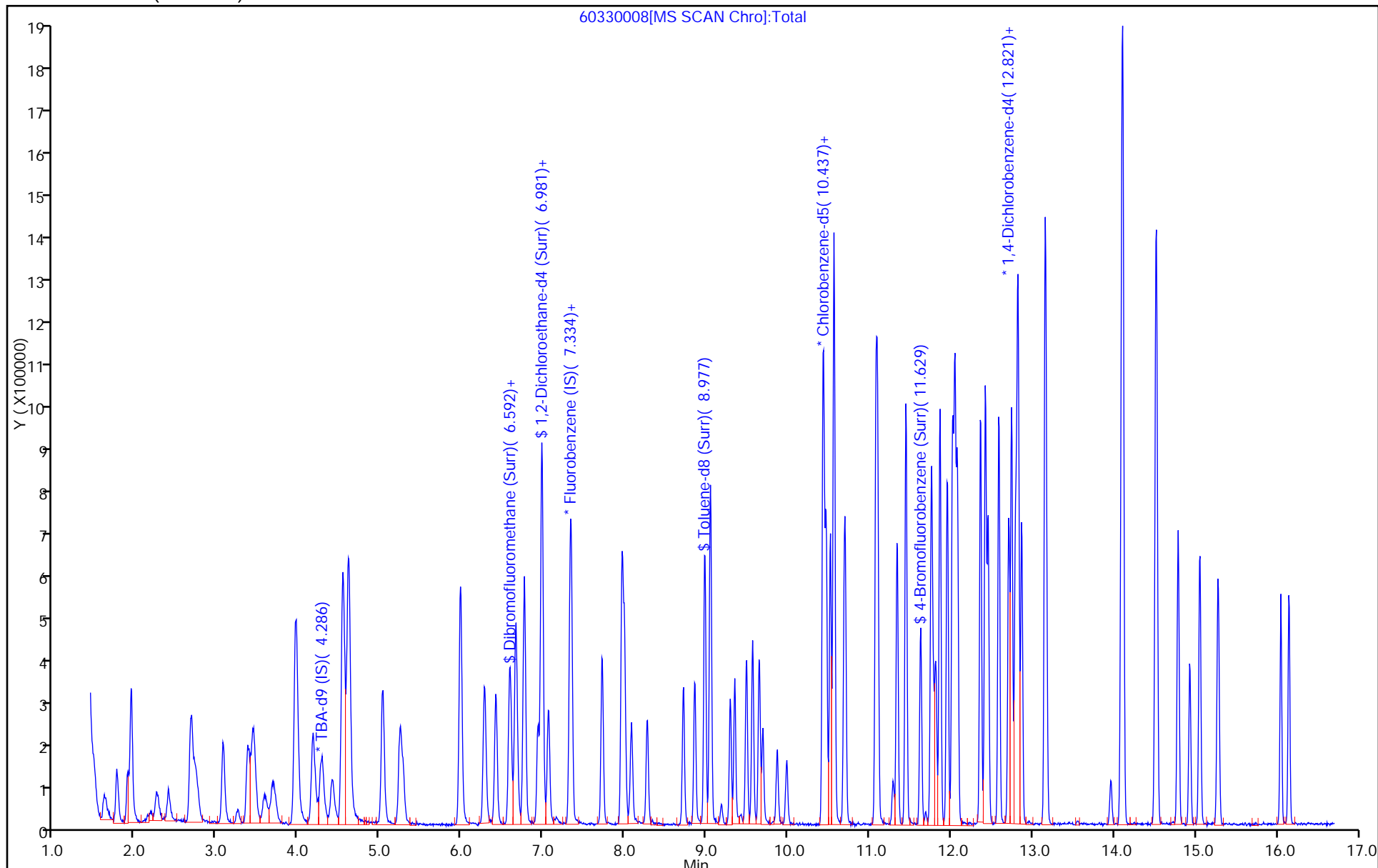
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MSVOA_LL_CHHP6

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.: 180-42389-1
 SDG No.: _____
 Client Sample ID: HD-MW-170-0/1-0 MS Lab Sample ID: 180-42389-3 MS
 Matrix: Water Lab File ID: 60330009.D
 Analysis Method: 8260C Date Collected: 03/25/2015 09:18
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 13:27
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 136938 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	8.20		1.0	0.28
75-01-4	Vinyl chloride	8.92		1.0	0.23
74-83-9	Bromomethane	10.6		1.0	0.31
75-00-3	Chloroethane	8.89		1.0	0.21
75-35-4	1,1-Dichloroethene	8.45		1.0	0.30
67-64-1	Acetone	22.7		5.0	2.5
75-15-0	Carbon disulfide	6.42		1.0	0.21
75-09-2	Methylene Chloride	7.92		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	8.50		1.0	0.17
1634-04-4	Methyl tert-butyl ether	10.2		1.0	0.18
75-34-3	1,1-Dichloroethane	8.53		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	8.88		1.0	0.24
74-97-5	Bromochloromethane	9.06		1.0	0.18
78-93-3	2-Butanone (MEK)	23.8		5.0	0.55
67-66-3	Chloroform	9.66		1.0	0.17
71-55-6	1,1,1-Trichloroethane	8.22		1.0	0.29
56-23-5	Carbon tetrachloride	7.67		1.0	0.14
71-43-2	Benzene	9.53		1.0	0.11
107-06-2	1,2-Dichloroethane	12.2		1.0	0.21
79-01-6	Trichloroethene	8.61		1.0	0.14
78-87-5	1,2-Dichloropropane	9.17		1.0	0.095
75-27-4	Bromodichloromethane	9.49		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	9.02		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	20.7		5.0	0.53
108-88-3	Toluene	10.4		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	10.8		1.0	0.15
79-00-5	1,1,2-Trichloroethane	11.5		1.0	0.20
127-18-4	Tetrachloroethene	9.56		1.0	0.15
591-78-6	2-Hexanone	23.0		5.0	0.16
124-48-1	Dibromochloromethane	10.1		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	12.0		1.0	0.18
108-90-7	Chlorobenzene	10.3		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	9.25		1.0	0.28
100-41-4	Ethylbenzene	9.24		1.0	0.23
1330-20-7	Xylenes, Total	18.9		3.0	0.49
100-42-5	Styrene	10.4		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1
 SDG No.: _____
 Client Sample ID: HD-MW-170-0/1-0 MS Lab Sample ID: 180-42389-3 MS
 Matrix: Water Lab File ID: 60330009.D
 Analysis Method: 8260C Date Collected: 03/25/2015 09:18
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 13:27
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 136938 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	10.7		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	13.7		1.0	0.20
107-13-1	Acrylonitrile	137		20	0.55
123-91-1	1,4-Dioxane	276		200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		64-135
2037-26-5	Toluene-d8 (Surr)	99		71-118
460-00-4	4-Bromofluorobenzene (Surr)	98		70-118
1868-53-7	Dibromofluoromethane (Surr)	100		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330009.D
 Lims ID: 180-42389-B-3 MS
 Client ID:
 Sample Type: MS
 Inject. Date: 30-Mar-2015 13:27:30 ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-42389-B-3 MS
 Misc. Info.: 180-0006236-009
 Operator ID: 001562 Instrument ID: CHHP6
 Method: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\MMSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 30-Mar-2015 15:40:19 Calib Date: 28-Jan-2015 16:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: fergusond

Date: 30-Mar-2015 14:01:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.291	4.284	0.007	92	271626	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.332	7.332	0.000	96	533097	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.441	10.440	0.001	91	112576	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.789	12.795	-0.006	97	171684	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.596	6.596	0.000	92	120440	50.0	49.9	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.973	6.973	0.000	51	191434	50.0	55.5	
\$ 7 Toluene-d8 (Surr)	98	8.981	8.980	0.001	94	438490	50.0	49.4	
\$ 8 4-Bromofluorobenzene (Surr	95	11.627	11.627	0.000	82	185563	50.0	49.2	
11 Dichlorodifluoromethane	85	1.620	1.632	-0.012	99	148606	50.0	52.6	
12 Chloromethane	50	1.772	1.765	0.007	99	178225	50.0	41.0	
13 Vinyl chloride	62	1.906	1.899	0.007	97	171785	50.0	44.6	
14 Butadiene	39	1.948	1.942	0.006	91	178316	50.0	43.4	
15 Bromomethane	94	2.265	2.246	0.019	90	81823	50.0	52.9	
16 Chloroethane	64	2.405	2.392	0.013	99	104896	50.0	44.4	
17 Dichlorofluoromethane	67	2.678	2.672	0.006	97	279920	50.0	49.7	
18 Trichlorofluoromethane	101	2.709	2.714	-0.005	95	227261	50.0	51.6	
20 Ethyl ether	59	3.074	3.061	0.013	94	171815	50.0	51.2	
21 Acrolein	56	3.262	3.244	0.018	95	47531	150.0	89.2	
22 1,1-Dichloroethene	96	3.384	3.371	0.013	96	126460	50.0	42.3	
23 1,1,2-Trichloro-1,2,2-trif	101	3.439	3.432	0.007	95	136071	50.0	44.9	
24 Acetone	43	3.469	3.451	0.018	97	107199	100.0	113.7	
25 Iodomethane	142	3.585	3.584	0.001	97	181568	50.0	40.9	
26 Carbon disulfide	76	3.688	3.682	0.006	99	284724	50.0	32.1	
29 3-Chloro-1-propene	76	3.962	3.962	0.000	56	75329	50.0	38.7	
30 Methyl acetate	43	3.968	3.968	0.000	97	751446	250.0	325.6	
31 Methylene Chloride	84	4.181	4.168	0.013	99	173216	50.0	39.6	
32 2-Methyl-2-propanol	59	4.412	4.412	0.000	95	172266	500.0	561.2	
33 Acrylonitrile	53	4.546	4.539	0.007	100	826403	500.0	686.7	
35 Methyl tert-butyl ether	73	4.613	4.606	0.007	98	481429	50.0	50.8	
34 trans-1,2-Dichloroethene	96	4.613	4.606	0.007	65	153125	50.0	42.5	
36 Hexane	57	5.033	5.026	0.007	92	210766	50.0	40.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.240	5.239	0.001	96	297338	50.0	42.7	
38 Vinyl acetate	43	5.282	5.276	0.006	97	221149	50.0	61.0	
42 2,2-Dichloropropane	77	5.982	5.975	0.007	66	125087	50.0	31.6	
43 cis-1,2-Dichloroethene	96	5.994	5.981	0.013	84	169663	50.0	44.4	
44 2-Butanone (MEK)	43	5.982	5.987	-0.005	96	143667	100.0	118.8	
48 Chlorobromomethane	128	6.274	6.273	0.001	92	68918	50.0	45.3	
49 Tetrahydrofuran	42	6.286	6.285	0.001	90	111079	100.0	127.9	
50 Chloroform	83	6.420	6.413	0.007	95	289976	50.0	48.3	
51 1,1,1-Trichloroethane	97	6.584	6.584	0.000	96	187877	50.0	41.1	
52 Cyclohexane	56	6.663	6.663	0.000	92	277853	50.0	37.7	
53 Carbon tetrachloride	117	6.760	6.760	0.000	66	137283	50.0	38.4	
54 1,1-Dichloropropene	75	6.767	6.766	0.001	92	215678	50.0	47.3	
55 Isobutyl alcohol	41	6.937	6.936	0.001	94	152152	1250.0	2145.5	
56 Benzene	78	6.986	6.985	0.001	97	630715	50.0	47.6	
57 1,2-Dichloroethane	62	7.065	7.058	0.007	97	264508	50.0	60.9	
59 n-Heptane	43	7.344	7.344	0.000	93	155180	50.0	36.8	
61 Trichloroethene	130	7.722	7.721	0.001	91	129809	50.0	43.1	
63 Methylcyclohexane	83	7.971	7.964	0.007	94	229041	50.0	38.6	
64 1,2-Dichloropropane	63	7.995	7.989	0.006	86	160657	50.0	45.9	
65 1,4-Dioxane	88	8.074	8.074	0.000	42	30292	1000.0	1382.5	M
67 Dibromomethane	93	8.081	8.080	0.001	94	93930	50.0	60.0	
68 Dichlorobromomethane	83	8.275	8.275	0.000	98	174184	50.0	47.4	
71 cis-1,3-Dichloropropene	75	8.719	8.719	0.000	93	190049	50.0	45.1	
72 4-Methyl-2-pentanone (MIBK)	43	8.859	8.859	0.000	97	263400	100.0	103.7	
73 Toluene	91	9.048	9.047	0.001	98	599554	50.0	52.1	
74 trans-1,3-Dichloropropene	75	9.297	9.297	0.000	95	170378	50.0	54.0	
75 Ethyl methacrylate	69	9.346	9.345	0.001	89	190143	50.0	65.5	
76 1,1,2-Trichloroethane	97	9.492	9.485	0.007	95	120483	50.0	57.6	
77 Tetrachloroethene	164	9.571	9.571	0.000	95	98204	50.0	47.8	
78 1,3-Dichloropropane	76	9.650	9.650	0.000	91	238040	50.0	61.3	
79 2-Hexanone	43	9.693	9.692	0.001	97	166401	100.0	114.8	
81 Chlorodibromomethane	129	9.869	9.863	0.006	90	89987	50.0	50.7	
82 Ethylene Dibromide	107	9.985	9.984	0.001	99	114102	50.0	60.0	
83 3-Chlorobenzotrifluoride	180	10.435	10.428	0.007	92	216448	50.0	54.1	
84 Chlorobenzene	112	10.465	10.471	-0.006	90	370094	50.0	51.5	
85 4-Chlorobenzotrifluoride	180	10.520	10.520	0.000	96	202709	50.0	54.4	
86 1,1,1,2-Tetrachloroethane	131	10.563	10.562	0.001	85	114584	50.0	46.3	
87 Ethylbenzene	106	10.569	10.568	0.001	99	199175	50.0	46.2	
88 m-Xylene & p-Xylene	106	10.696	10.696	0.000	99	252864	50.0	47.5	
89 o-Xylene	106	11.080	11.079	0.001	97	255298	50.0	46.7	
90 Styrene	104	11.098	11.104	-0.006	95	420608	50.0	52.2	
91 Bromoform	173	11.293	11.292	0.001	94	51013	50.0	53.7	
92 2-Chlorobenzotrifluoride	180	11.341	11.341	0.000	95	230549	50.0	55.2	
93 Isopropylbenzene	105	11.451	11.444	0.007	98	639805	50.0	47.5	
96 1,1,2,2-Tetrachloroethane	83	11.755	11.754	0.001	96	192274	50.0	68.4	
95 Bromobenzene	156	11.767	11.767	0.000	95	142972	50.0	47.6	
97 trans-1,4-Dichloro-2-buten	53	11.791	11.797	-0.006	67	56960	50.0	67.4	
98 1,2,3-Trichloropropane	110	11.816	11.815	0.001	84	62543	50.0	71.1	
99 N-Propylbenzene	120	11.871	11.864	0.007	99	170082	50.0	47.4	
100 2-Chlorotoluene	126	11.950	11.955	-0.005	93	143358	50.0	45.3	
101 3-Chlorotoluene	126	12.017	12.016	0.001	97	183193	50.0	55.4	
102 1,3,5-Trimethylbenzene	105	12.047	12.046	0.001	92	571592	50.0	49.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
103 4-Chlorotoluene	126	12.077	12.077	0.000	98	151758	50.0	46.7	
104 tert-Butylbenzene	119	12.363	12.363	0.000	92	434050	50.0	48.3	
106 1,2,4-Trimethylbenzene	105	12.424	12.424	0.000	98	590793	50.0	49.5	
107 1,2-dichloro-4-(trifluorom	214	12.455	12.454	0.001	97	185371	50.0	55.6	
108 sec-Butylbenzene	105	12.588	12.588	0.000	96	649902	50.0	46.8	
109 1,3-Dichlorobenzene	146	12.710	12.710	0.000	94	289341	50.0	49.1	
110 4-Isopropyltoluene	119	12.741	12.746	-0.006	95	530113	50.0	47.1	
111 1,4-Dichlorobenzene	146	12.814	12.819	-0.005	84	294114	50.0	48.3	
113 2,4-Dichloro-1-(trifluorom	214	12.826	12.831	-0.005	96	190609	50.0	56.9	
114 2,5-Dichlorobenzotrifluori	214	12.868	12.868	0.000	98	199967	50.0	54.2	
116 n-Butylbenzene	91	13.154	13.154	0.000	98	540593	50.0	49.9	
117 1,2-Dichlorobenzene	146	13.172	13.166	0.006	93	303438	50.0	51.6	
118 1,2-Dibromo-3-Chloropropan	75	13.957	13.957	0.000	71	30277	50.0	64.4	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.103	14.103	0.000	98	913825	150.0	165.4	
121 2,3- & 3,4- Dichlorotoluen	125	14.517	14.516	0.001	98	692729	100.0	114.8	
122 1,2,4-Trichlorobenzene	180	14.785	14.784	0.001	94	230252	50.0	50.5	
123 Hexachlorobutadiene	225	14.931	14.930	0.001	96	79745	50.0	44.7	
124 Naphthalene	128	15.052	15.052	0.000	98	548495	50.0	70.0	
125 1,2,3-Trichlorobenzene	180	15.277	15.277	0.000	93	208146	50.0	54.6	
126 2,4,5-Trichlorotoluene	159	16.044	16.049	-0.005	0	130902	50.0	46.6	
127 2,3,6-Trichlorotoluene	159	16.141	16.147	-0.006	93	128347	50.0	51.3	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		100.0	86.9	
S 131 Xylenes, Total	106				0		100.0	94.2	
S 132 1,3-Dichloropropene, Total	1				0		100.0	99.1	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOAACRPRI_00003	Amount Added: 6.00	Units: uL	
VOA8260VOA2ND_00109	Amount Added: 2.00	Units: uL	
voaWKet2 Rest_00002	Amount Added: 2.00	Units: uL	
VOAEE2ND_00001	Amount Added: 2.00	Units: uL	
voaWVA2nd Res_00006	Amount Added: 2.00	Units: uL	
VOA8260INT_00030	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00032	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330009.D

Injection Date: 30-Mar-2015 13:27:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: 180-42389-B-3 MS

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

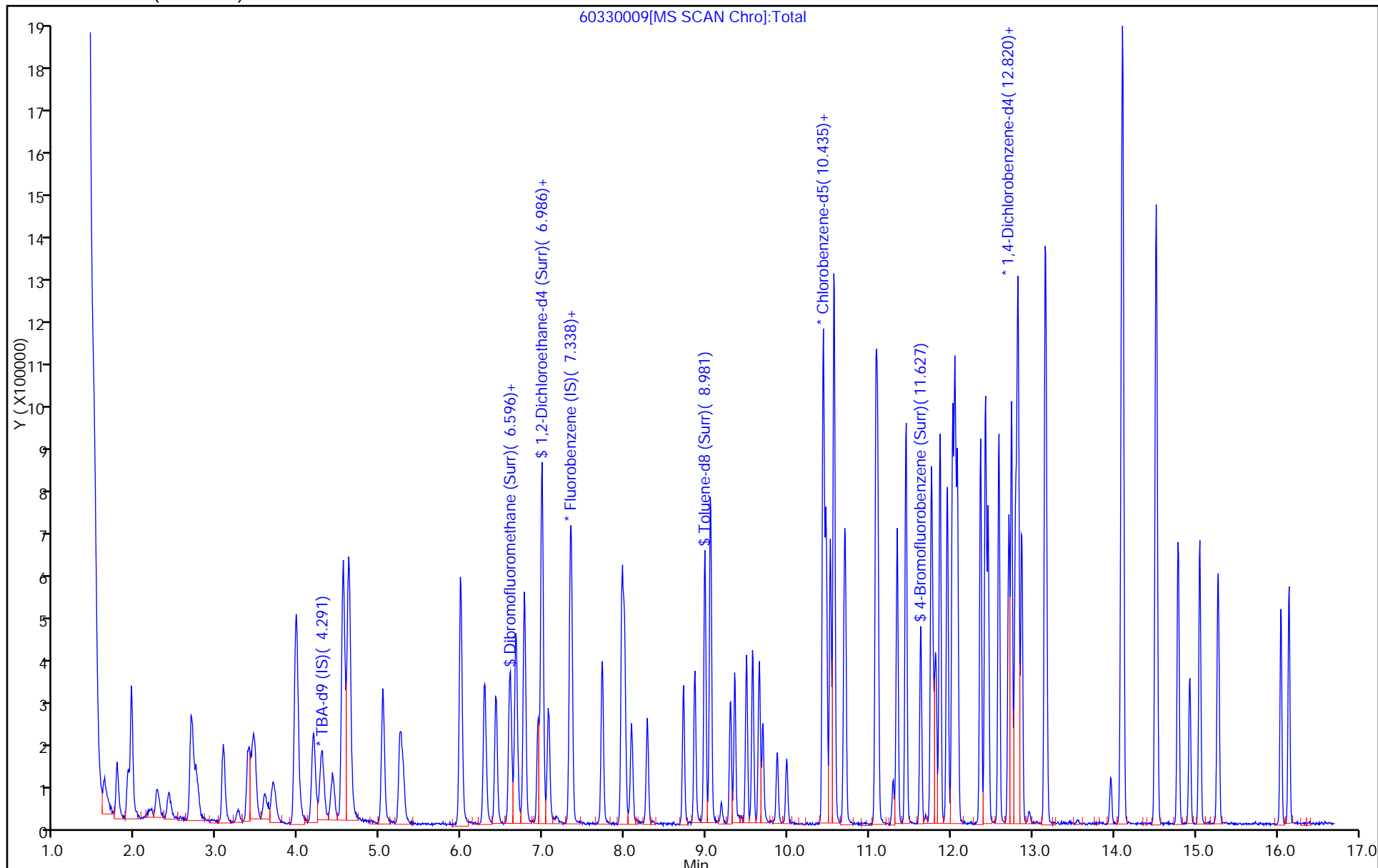
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



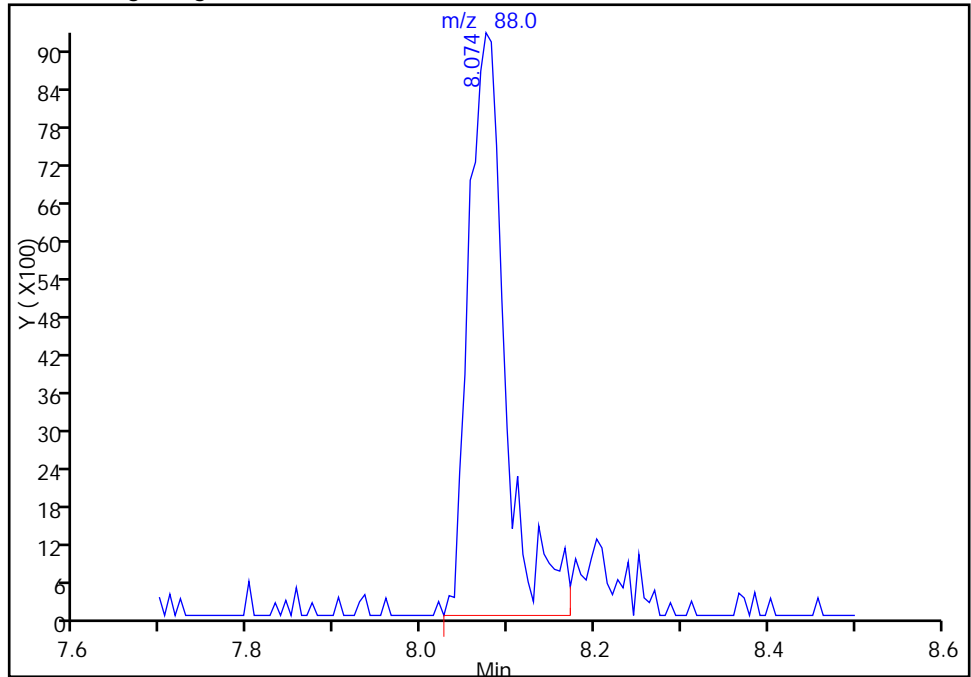
TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330009.D
Injection Date: 30-Mar-2015 13:27:30 Instrument ID: CHHP6
Lims ID: 180-42389-B-3 MS
Client ID:
Operator ID: 001562 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

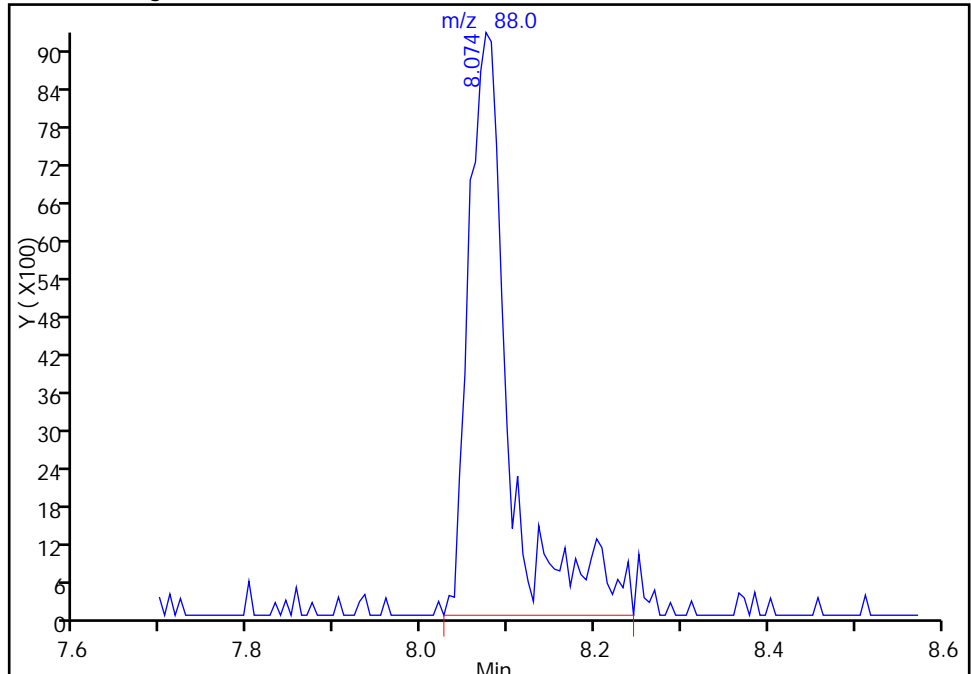
RT: 8.07
Area: 27365
Amount: 1248.9057
Amount Units: ng

Processing Integration Results



RT: 8.07
Area: 30292
Amount: 1382.4905
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 30-Mar-2015 15:40:19
Audit Action: Manually Integrated
Audit Reason: Peak Tail

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1
 SDG No.: _____
 Client Sample ID: HD-MW-170-0/1-0 MSD Lab Sample ID: 180-42389-3 MSD
 Matrix: Water Lab File ID: 60330010.D
 Analysis Method: 8260C Date Collected: 03/25/2015 09:18
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 13:51
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 136938 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	8.71		1.0	0.28
75-01-4	Vinyl chloride	9.42		1.0	0.23
74-83-9	Bromomethane	10.6		1.0	0.31
75-00-3	Chloroethane	9.19		1.0	0.21
75-35-4	1,1-Dichloroethene	8.72		1.0	0.30
67-64-1	Acetone	23.9		5.0	2.5
75-15-0	Carbon disulfide	6.47		1.0	0.21
75-09-2	Methylene Chloride	7.85		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	9.08		1.0	0.17
1634-04-4	Methyl tert-butyl ether	10.5		1.0	0.18
75-34-3	1,1-Dichloroethane	8.91		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	8.89		1.0	0.24
74-97-5	Bromochloromethane	9.23		1.0	0.18
78-93-3	2-Butanone (MEK)	21.4		5.0	0.55
67-66-3	Chloroform	9.75		1.0	0.17
71-55-6	1,1,1-Trichloroethane	8.27		1.0	0.29
56-23-5	Carbon tetrachloride	7.84		1.0	0.14
71-43-2	Benzene	9.50		1.0	0.11
107-06-2	1,2-Dichloroethane	11.9		1.0	0.21
79-01-6	Trichloroethene	8.80		1.0	0.14
78-87-5	1,2-Dichloropropane	9.36		1.0	0.095
75-27-4	Bromodichloromethane	9.78		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	8.98		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	21.1		5.0	0.53
108-88-3	Toluene	11.1		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	11.1		1.0	0.15
79-00-5	1,1,2-Trichloroethane	13.1		1.0	0.20
127-18-4	Tetrachloroethene	10.7		1.0	0.15
591-78-6	2-Hexanone	22.7		5.0	0.16
124-48-1	Dibromochloromethane	10.8		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	12.9		1.0	0.18
108-90-7	Chlorobenzene	11.0		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	10.0		1.0	0.28
100-41-4	Ethylbenzene	9.92		1.0	0.23
1330-20-7	Xylenes, Total	19.7		3.0	0.49
100-42-5	Styrene	11.0		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1
 SDG No.: _____
 Client Sample ID: HD-MW-170-0/1-0 MSD Lab Sample ID: 180-42389-3 MSD
 Matrix: Water Lab File ID: 60330010.D
 Analysis Method: 8260C Date Collected: 03/25/2015 09:18
 Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 13:51
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 136938 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	11.4		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	14.6		1.0	0.20
107-13-1	Acrylonitrile	139		20	0.55
123-91-1	1,4-Dioxane	300		200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	124		64-135
2037-26-5	Toluene-d8 (Surr)	108		71-118
460-00-4	4-Bromofluorobenzene (Surr)	107		70-118
1868-53-7	Dibromofluoromethane (Surr)	103		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330010.D
 Lims ID: 180-42389-A-3 MSD
 Client ID:
 Sample Type: MSD
 Inject. Date: 30-Mar-2015 13:51:30 ALS Bottle#: 10 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-42389-A-3 MSD
 Misc. Info.: 180-0006236-010
 Operator ID: 001562 Instrument ID: CHHP6
 Method: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 30-Mar-2015 15:39:46 Calib Date: 28-Jan-2015 16:44:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\PITCHROM\ChromData\CHHP6\20150128-5450.b\60128013.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: fergusond

Date: 30-Mar-2015 15:39:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.285	4.284	0.001	91	285335	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.332	7.332	0.000	97	540785	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.435	10.440	-0.005	92	105494	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.789	12.795	-0.006	96	171126	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.602	6.596	0.006	93	126477	50.0	51.7	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.980	6.973	0.007	52	217713	50.0	62.2	
\$ 7 Toluene-d8 (Surr)	98	8.981	8.980	0.001	93	449935	50.0	54.1	
\$ 8 4-Bromofluorobenzene (Surr	95	11.621	11.627	-0.006	81	190011	50.0	53.7	
11 Dichlorodifluoromethane	85	1.620	1.632	-0.012	99	153410	50.0	53.5	
12 Chloromethane	50	1.778	1.765	0.013	99	191867	50.0	43.5	
13 Vinyl chloride	62	1.912	1.899	0.013	98	183860	50.0	47.1	
14 Butadiene	39	1.949	1.942	0.007	88	182356	50.0	43.7	
15 Bromomethane	94	2.259	2.246	0.013	88	83316	50.0	53.1	
16 Chloroethane	64	2.417	2.392	0.025	100	110012	50.0	45.9	
17 Dichlorofluoromethane	67	2.685	2.672	0.013	96	288664	50.0	50.6	
18 Trichlorofluoromethane	101	2.733	2.714	0.019	94	239195	50.0	53.5	
20 Ethyl ether	59	3.074	3.061	0.013	93	175595	50.0	51.5	
21 Acrolein	56	3.250	3.244	0.006	99	51042	150.0	94.4	
22 1,1-Dichloroethene	96	3.378	3.371	0.007	93	132309	50.0	43.6	
23 1,1,2-Trichloro-1,2,2-trif	101	3.439	3.432	0.007	95	137461	50.0	44.8	
24 Acetone	43	3.457	3.451	0.006	99	114382	100.0	119.6	
25 Iodomethane	142	3.585	3.584	0.001	100	174613	50.0	38.8	
26 Carbon disulfide	76	3.688	3.682	0.006	99	290958	50.0	32.4	
29 3-Chloro-1-propene	76	3.956	3.962	-0.006	59	65569	50.0	33.2	
30 Methyl acetate	43	3.974	3.968	0.006	97	772334	250.0	329.9	
31 Methylene Chloride	84	4.181	4.168	0.013	96	174203	50.0	39.2	
32 2-Methyl-2-propanol	59	4.412	4.412	0.000	93	180303	500.0	559.2	
33 Acrylonitrile	53	4.552	4.539	0.013	99	847017	500.0	693.8	
35 Methyl tert-butyl ether	73	4.613	4.606	0.007	98	503943	50.0	52.4	
34 trans-1,2-Dichloroethene	96	4.613	4.606	0.007	65	165961	50.0	45.4	
36 Hexane	57	5.027	5.026	0.001	93	218387	50.0	41.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.246	5.239	0.007	97	314911	50.0	44.5	
38 Vinyl acetate	43	5.282	5.276	0.006	97	223888	50.0	60.9	
42 2,2-Dichloropropane	77	5.982	5.975	0.007	54	119038	50.0	29.7	
43 cis-1,2-Dichloroethene	96	5.988	5.981	0.007	86	172387	50.0	44.5	
44 2-Butanone (MEK)	43	5.988	5.987	0.001	56	131421	100.0	107.2	
48 Chlorobromomethane	128	6.280	6.273	0.007	91	71255	50.0	46.2	
49 Tetrahydrofuran	42	6.286	6.285	0.001	92	122356	100.0	138.9	
50 Chloroform	83	6.414	6.413	0.001	94	296720	50.0	48.7	
51 1,1,1-Trichloroethane	97	6.584	6.584	0.000	97	191845	50.0	41.4	
52 Cyclohexane	56	6.663	6.663	0.000	92	294529	50.0	39.4	
53 Carbon tetrachloride	117	6.767	6.760	0.007	92	142321	50.0	39.2	
54 1,1-Dichloropropene	75	6.767	6.766	0.001	94	228398	50.0	49.4	
55 Isobutyl alcohol	41	6.937	6.936	0.001	90	148970	1250.0	2070.8	
56 Benzene	78	6.986	6.985	0.001	96	637520	50.0	47.5	
57 1,2-Dichloroethane	62	7.059	7.058	0.001	98	262690	50.0	59.6	
59 n-Heptane	43	7.351	7.344	0.007	92	158075	50.0	37.0	
61 Trichloroethene	130	7.728	7.721	0.007	94	134559	50.0	44.0	
63 Methylcyclohexane	83	7.965	7.964	0.001	93	237062	50.0	39.3	
64 1,2-Dichloropropane	63	7.996	7.989	0.007	87	166221	50.0	46.8	
65 1,4-Dioxane	88	8.062	8.074	-0.012	93	33292	1000.0	1497.8	
67 Dibromomethane	93	8.081	8.080	0.001	92	94458	50.0	59.5	
68 Dichlorobromomethane	83	8.275	8.275	0.000	98	182165	50.0	48.9	
71 cis-1,3-Dichloropropene	75	8.719	8.719	0.000	92	191849	50.0	44.9	
72 4-Methyl-2-pentanone (MIBK)	43	8.859	8.859	0.000	97	250899	100.0	105.4	
73 Toluene	91	9.048	9.047	0.001	98	597356	50.0	55.4	
74 trans-1,3-Dichloropropene	75	9.297	9.297	0.000	94	163878	50.0	55.4	
75 Ethyl methacrylate	69	9.346	9.345	0.001	90	181265	50.0	66.6	
76 1,1,2-Trichloroethane	97	9.492	9.485	0.007	92	128147	50.0	65.4	
77 Tetrachloroethene	164	9.565	9.571	-0.006	96	103016	50.0	53.5	
78 1,3-Dichloropropane	76	9.650	9.650	0.000	94	235459	50.0	64.7	
79 2-Hexanone	43	9.693	9.692	0.001	96	154098	100.0	113.5	
81 Chlorodibromomethane	129	9.869	9.863	0.006	90	89455	50.0	53.8	
82 Ethylene Dibromide	107	9.985	9.984	0.001	96	115282	50.0	64.7	
83 3-Chlorobenzotrifluoride	180	10.429	10.428	0.001	92	209732	50.0	55.9	
84 Chlorobenzene	112	10.465	10.471	-0.006	90	370675	50.0	55.1	
85 4-Chlorobenzotrifluoride	180	10.520	10.520	0.000	96	199139	50.0	57.0	
86 1,1,1,2-Tetrachloroethane	131	10.563	10.562	0.001	84	116095	50.0	50.0	
87 Ethylbenzene	106	10.569	10.568	0.001	99	200246	50.0	49.6	
88 m-Xylene & p-Xylene	106	10.697	10.696	0.001	99	246169	50.0	49.4	
89 o-Xylene	106	11.080	11.079	0.001	98	250933	50.0	49.0	
90 Styrene	104	11.098	11.104	-0.006	93	415501	50.0	55.1	
91 Bromoform	173	11.293	11.292	0.001	93	50583	50.0	56.8	
92 2-Chlorobenzotrifluoride	180	11.335	11.341	-0.006	93	215218	50.0	55.0	
93 Isopropylbenzene	105	11.451	11.444	0.007	98	648537	50.0	51.4	
96 1,1,2,2-Tetrachloroethane	83	11.755	11.754	0.001	96	191657	50.0	72.8	
95 Bromobenzene	156	11.767	11.767	0.000	94	142550	50.0	47.6	
97 trans-1,4-Dichloro-2-buten	53	11.792	11.797	-0.005	73	54079	50.0	64.2	
98 1,2,3-Trichloropropane	110	11.810	11.815	-0.005	85	61393	50.0	70.0	
99 N-Propylbenzene	120	11.865	11.864	0.001	99	177950	50.0	49.7	
100 2-Chlorotoluene	126	11.956	11.955	0.001	94	148872	50.0	47.2	
101 3-Chlorotoluene	126	12.017	12.016	0.001	98	174824	50.0	53.0	
102 1,3,5-Trimethylbenzene	105	12.047	12.046	0.001	95	583305	50.0	50.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
103 4-Chlorotoluene	126	12.078	12.077	0.001	99	147019	50.0	45.4	
104 tert-Butylbenzene	119	12.363	12.363	0.000	91	435194	50.0	48.6	
106 1,2,4-Trimethylbenzene	105	12.424	12.424	0.000	98	604844	50.0	50.8	
107 1,2-dichloro-4-(trifluorom	214	12.455	12.454	0.001	95	177870	50.0	53.5	
108 sec-Butylbenzene	105	12.589	12.588	0.001	96	651867	50.0	47.1	
109 1,3-Dichlorobenzene	146	12.704	12.710	-0.006	95	293784	50.0	50.1	
110 4-Isopropyltoluene	119	12.747	12.746	0.001	96	553839	50.0	49.3	
111 1,4-Dichlorobenzene	146	12.814	12.819	-0.005	88	295229	50.0	48.6	
113 2,4-Dichloro-1-(trifluorom	214	12.832	12.831	0.001	94	189884	50.0	56.9	
114 2,5-Dichlorobenzotrifluori	214	12.868	12.868	0.000	97	192205	50.0	52.2	
116 n-Butylbenzene	91	13.154	13.154	0.000	98	537981	50.0	49.8	
117 1,2-Dichlorobenzene	146	13.166	13.166	0.000	92	303442	50.0	51.7	
118 1,2-Dibromo-3-Chloropropan	75	13.951	13.957	-0.006	67	33677	50.0	71.9	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.103	14.103	0.000	98	907128	150.0	164.7	
121 2,3- & 3,4- Dichlorotoluen	125	14.517	14.516	0.001	98	682624	100.0	113.5	
122 1,2,4-Trichlorobenzene	180	14.785	14.784	0.001	94	229614	50.0	50.5	
123 Hexachlorobutadiene	225	14.931	14.930	0.001	96	78249	50.0	44.0	
124 Naphthalene	128	15.052	15.052	0.000	98	558697	50.0	71.5	
125 1,2,3-Trichlorobenzene	180	15.277	15.277	0.000	93	218688	50.0	57.5	
126 2,4,5-Trichlorotoluene	159	16.044	16.049	-0.005	0	131738	50.0	47.1	
127 2,3,6-Trichlorotoluene	159	16.147	16.147	0.000	94	130464	50.0	52.3	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		100.0	89.9	
S 131 Xylenes, Total	106				0		100.0	98.4	
S 132 1,3-Dichloropropene, Total	1				0		100.0	100.3	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

voaWVA2nd Res_00006	Amount Added: 2.00	Units: uL	
VOAEE2ND_00001	Amount Added: 2.00	Units: uL	
VOA8260VOA2ND_00109	Amount Added: 2.00	Units: uL	
voaWKet2 Rest_00002	Amount Added: 2.00	Units: uL	
VOAACRPRI_00003	Amount Added: 6.00	Units: uL	
VOA8260INT_00030	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00032	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\PITCHROM\ChromData\CHHP6\20150330-6236.b\60330010.D

Injection Date: 30-Mar-2015 13:51:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: 180-42389-A-3 MSD

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

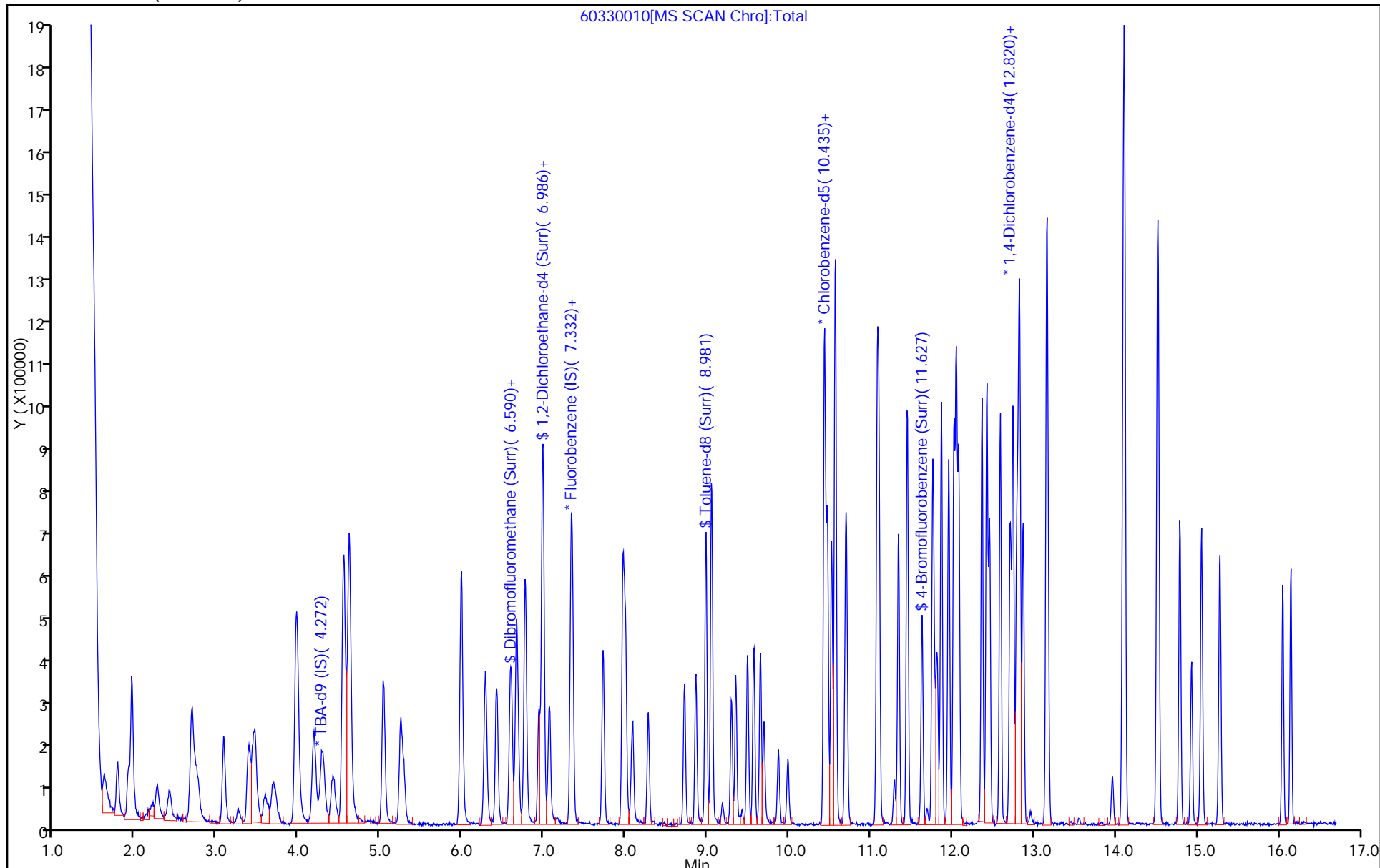
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1

SDG No.: _____

Instrument ID: CHHP6 Start Date: 01/28/2015 11:55

Analysis Batch Number: 131929 End Date: 01/28/2015 18:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-131929/4		01/28/2015 11:55	1	60128004.D	DB-624 0.18 (mm)
IC 180-131929/6		01/28/2015 13:58	1	60128006.D	DB-624 0.18 (mm)
IC 180-131929/7		01/28/2015 14:21	1	60128007.D	DB-624 0.18 (mm)
ICIS 180-131929/8		01/28/2015 14:45	1	60128008.D	DB-624 0.18 (mm)
IC 180-131929/9		01/28/2015 15:09	1	60128009.D	DB-624 0.18 (mm)
IC 180-131929/10		01/28/2015 15:33	1	60128010.D	DB-624 0.18 (mm)
IC 180-131929/11		01/28/2015 15:57	1	60128011.D	DB-624 0.18 (mm)
IC 180-131929/12		01/28/2015 16:21	1	60128012.D	DB-624 0.18 (mm)
IC 180-131929/13		01/28/2015 16:44	1	60128013.D	DB-624 0.18 (mm)
ICV 180-131929/18		01/28/2015 18:43	1		DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1

SDG No.: _____

Instrument ID: CHHP6 Start Date: 03/27/2015 12:07

Analysis Batch Number: 136799 End Date: 03/27/2015 18:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-136799/4		03/27/2015 12:07	1	60327004.D	DB-624 0.18 (mm)
CCVIS 180-136799/2		03/27/2015 12:48	1	60327002.D	DB-624 0.18 (mm)
MB 180-136799/6		03/27/2015 14:21	1	60327006.D	DB-624 0.18 (mm)
LCS 180-136799/8		03/27/2015 15:30	1	60327008.D	DB-624 0.18 (mm)
ZZZZZ		03/27/2015 17:30	1		DB-624 0.18 (mm)
180-42389-1	HD-MW-175-0/1-0	03/27/2015 17:54	1	60327014.D	DB-624 0.18 (mm)
180-42389-2	HD-MW-174-0/1-0	03/27/2015 18:18	1	60327015.D	DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-42389-1

SDG No.: _____

Instrument ID: CHHP6 Start Date: 03/30/2015 09:31

Analysis Batch Number: 136938 End Date: 03/30/2015 21:27

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-136938/1		03/30/2015 09:31	1	60330001.D	DB-624 0.18 (mm)
CCVIS 180-136938/2		03/30/2015 10:12	1	60330002.D	DB-624 0.18 (mm)
MB 180-136938/5		03/30/2015 11:37	1	60330005.D	DB-624 0.18 (mm)
180-42389-3	HD-MW-170-0/1-0	03/30/2015 12:14	1	60330006.D	DB-624 0.18 (mm)
180-42389-9	HD-QC4-0/1-2	03/30/2015 12:38	1	60330007.D	DB-624 0.18 (mm)
LCS 180-136938/8		03/30/2015 13:03	1	60330008.D	DB-624 0.18 (mm)
180-42389-3 MS	HD-MW-170-0/1-0 MS	03/30/2015 13:27	1	60330009.D	DB-624 0.18 (mm)
180-42389-3 MSD	HD-MW-170-0/1-0 MSD	03/30/2015 13:51	1	60330010.D	DB-624 0.18 (mm)
180-42389-4	HD-MW-171-0/1-0	03/30/2015 14:39	1	60330012.D	DB-624 0.18 (mm)
180-42389-5	HD-MW-168-0/1-0	03/30/2015 15:03	1	60330013.D	DB-624 0.18 (mm)
180-42389-6	HD-MW-173-0/1-0	03/30/2015 15:27	1	60330014.D	DB-624 0.18 (mm)
180-42389-7	HD-MW-166-0/1-0	03/30/2015 15:51	1	60330015.D	DB-624 0.18 (mm)
180-42389-8	HD-MW-172-0/1-0	03/30/2015 16:15	1	60330016.D	DB-624 0.18 (mm)
ZZZZZ		03/30/2015 16:39	1		DB-624 0.18 (mm)
ZZZZZ		03/30/2015 17:03	1		DB-624 0.18 (mm)
ZZZZZ		03/30/2015 17:27	1		DB-624 0.18 (mm)
ZZZZZ		03/30/2015 17:51	1		DB-624 0.18 (mm)
ZZZZZ		03/30/2015 18:15	1		DB-624 0.18 (mm)
ZZZZZ		03/30/2015 18:39	1		DB-624 0.18 (mm)
ZZZZZ		03/30/2015 19:03	1		DB-624 0.18 (mm)
ZZZZZ		03/30/2015 19:27	1		DB-624 0.18 (mm)
ZZZZZ		03/30/2015 19:51	1		DB-624 0.18 (mm)
ZZZZZ		03/30/2015 20:14	1		DB-624 0.18 (mm)
ZZZZZ		03/30/2015 21:02	1		DB-624 0.18 (mm)
ZZZZZ		03/30/2015 21:27	1		DB-624 0.18 (mm)

Shipping and Receiving Documents

Chain of Custody Record

TestAmerica Laboratories, Inc.
COC No: TAP201503 350

1 of 1 COCs

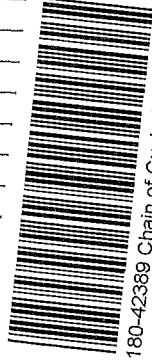
Job No. 10012.16

Carrier: FEDEX

Date Submitted:

Container No. 1

CG No.



Site Contact: Jennifer S. Reese

Lab Contact: Jill Colussy

Project Manager: Jennifer S. Reese

Tel/Fax: 717-901-8181 / (717) 657-1611

Analysis Turnaround Time

Calendar (C) or Work Days (W)

2 weeks

1 week

3 days

1 day

Client Contact

Groundwater Sciences Corporation

2601 Market Place St. Suite 310

Harrisburg, PA 17110

Phone (717) 901-8180

FAX (717) 657-1611

Project Name: 2015 2nd Rnd SPBA New Well Sampling

Site: Hatley-Davidson, York PA

Quote # 18000557

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	VOCs (8260B)	Sample Specific Notes:
HD-MW-175-011-0	3/25/15	0830	GW	W	3	X	Sample time 0835
HD-MW-174-011-0		0858					
HD-MW-170-011-0		0918					
HD-MW-171-011-0		1150					
HD-MW-168-011-0		1218					
HD-MW-173-011-0		1252					
HD-MW-166-011-0		1258					
HD-MW-172-011-0		1328					
HD-OCY-011-2	3/25/15	1900	TB	W	2	X	

Number of Containers: 3 1 1

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Unpreserved 7=Na2S2O3

Field Filter: N N N Y N N N N

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison Unknown

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

Special Instructions/QC Requirements & Comments: CLP Like Deliverables 1-Day TAT

Relinquished by (Print and Sign): [Signature] Company: GSC

Relinquished by: [Signature] Company: TAPCO

Relinquished by: [Signature] Company: [Signature]

Relinquished by: [Signature] Company: [Signature]

Date/Time: 3/25/15 1545 Date/Time: 3/25/15 1725 Date/Time: 3/25/15 15:41 Date/Time: 3/26/15 9:10



180-42389 Waybill

ORIGIN ID: KPDA (610) 337-9992
SAMPLE RECEIPT
TEST AMERICA
1008 WEST 9TH AVE
KING OF PRUSSIA, PA 19406
UNITED STATES US

SHIP DATE:
ACTWGT: 56.0 LB
CAD: 8490299/INE1

BILL RECIPIENT

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

PITTSBURGH PA 15238

(412) 963-7058
INV:
PO:
REF:

Uncorrected temp
Thermometer ID

3.2 °C
0

CF 0 Initials CMC

PT-WI-SR-0Q1 effective 7/26/13



FedEx
Express



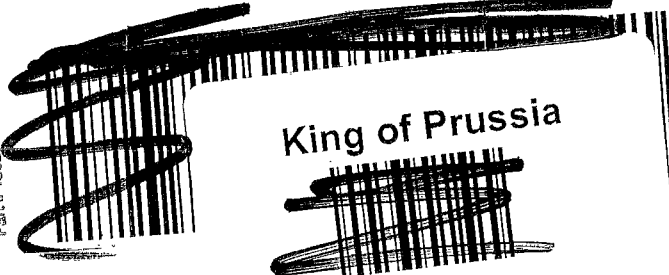
THU - 26 MAR 3:00P
STANDARD OVERNIGHT

TRK# 7732 1625 0775
0201

EV AGCA

15238
PA-US PIT

Part # 15227-435 ANT2 1114



King of Prussia

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 180-42389-1

Login Number: 42389

List Source: TestAmerica Pittsburgh

List Number: 1

Creator: Kovitch, Christina M

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	