

ANALYTICAL REPORT

Job Number: 180-48181-1

Job Description: Harley Davidson

For:

Groundwater Sciences Corporation
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Harrisburg, PA 17110-9307

Attention: Allan Miller



Approved for release.
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10/8/2015 3:37 PM

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10/08/2015

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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	9
Default Detection Limits	23
Surrogate Summary	24
QC Sample Results	25
QC Association	35
Chronicle	36
Certification Summary	38
Method Summary	39
Sample Summary	40
Manual Integration Summary	41
Reagent Traceability	49
COAs	67
Organic Sample Data	144
GC/MS VOA	144
Method 8260C Low Level	144
Method 8260C Low Level QC Summary	145
Method 8260C Low Level Sample Data	170
Standards Data	325
Method 8260C Low Level ICAL Data	325
Method 8260C Low Level CCAL Data	431
Raw QC Data	462

Table of Contents

Method 8260C Low Level Tune Data	462
Method 8260C Low Level Blank Data	486
Method 8260C Low Level LCS/LCSD Data	514
Method 8260C Low Level MS/MSD Data	539
Method 8260C Low Level Run Logs	551
Shipping and Receiving Documents	557
Client Chain of Custody	558
Sample Receipt Checklist	560

Definitions/Glossary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
^c	CCV Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE

Client: Groundwater Sciences Corporation

Project: Harley Davidson

Report Number: 180-48181-1

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 9/26/2015 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.1° C.

VOLATILES

The following samples were diluted to bring the concentration of target analytes within the calibration range: HD-MW-93S-0/1-0 (180-48181-3), HD-MW-93D-0/1-0 (180-48181-4), HD-MW-75S-0/1-0 (180-48181-5), HD-MW-75D-0/1-0 (180-48181-6), HD-MW-37D-0/1-0 (180-48181-7) and HD-QC3-0/1-1 (180-48181-8). Elevated reporting limits (RLs) are provided.

cis-1,2-Dichloroethene and Trichloroethene failed the recovery criteria low for the MS/MSD of sample HD-MW-147A-0/1-0 (180-48181-2) in batch 180-155766.

The following analyte was outside the %D criteria but within the method criteria of the number of analytes allowed out: Chloroethane. An low level CCV was analyzed and all compounds were found. (CCVIS 180-156037/2).

The following analyte was outside the %D criteria but within the method criteria of number of analytes allowed out: Chloroethane. An low level CCV was analyzed and all compounds were found. (CCVIS 180-155884/2)

Detection Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

Client Sample ID: HD-MW-18S-0/1-0

Lab Sample ID: 180-48181-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	0.28	J	1.0	0.28	ug/L	1		8260C	Total/NA
Vinyl chloride	0.57	J	1.0	0.23	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	22		1.0	0.24	ug/L	1		8260C	Total/NA
Trichloroethene	11		1.0	0.14	ug/L	1		8260C	Total/NA

Client Sample ID: HD-MW-147A-0/1-0

Lab Sample ID: 180-48181-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.53	J	1.0	0.30	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	0.14	J	1.0	0.12	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	11	F1	1.0	0.24	ug/L	1		8260C	Total/NA
Chloroform	0.24	J	1.0	0.17	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane	0.46	J	1.0	0.29	ug/L	1		8260C	Total/NA
Trichloroethene	11	F1	1.0	0.14	ug/L	1		8260C	Total/NA
Tetrachloroethene	6.3		1.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: HD-MW-93S-0/1-0

Lab Sample ID: 180-48181-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.95	J	1.0	0.30	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	1.1		1.0	0.12	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	23		1.0	0.24	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane	6.8		1.0	0.29	ug/L	1		8260C	Total/NA
Trichloroethene	31		1.0	0.14	ug/L	1		8260C	Total/NA
Tetrachloroethene	110	E	1.0	0.15	ug/L	1		8260C	Total/NA
1,1-Dichloroethane - DL	1.1	J	5.0	0.58	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene - DL	20		5.0	1.2	ug/L	5		8260C	Total/NA
1,1,1-Trichloroethane - DL	5.5		5.0	1.4	ug/L	5		8260C	Total/NA
Trichloroethene - DL	27		5.0	0.72	ug/L	5		8260C	Total/NA
Tetrachloroethene - DL	90		5.0	0.74	ug/L	5		8260C	Total/NA

Client Sample ID: HD-MW-93D-0/1-0

Lab Sample ID: 180-48181-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.54	J	1.0	0.23	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	4.3		1.0	0.30	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	0.26	J	1.0	0.17	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	2.9		1.0	0.12	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	44		1.0	0.24	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane	8.2		1.0	0.29	ug/L	1		8260C	Total/NA
Trichloroethene	140	E	1.0	0.14	ug/L	1		8260C	Total/NA
Tetrachloroethene	180	E	1.0	0.15	ug/L	1		8260C	Total/NA
1,1-Dichloroethane - DL	2.7	J	10	1.2	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene - DL	37		10	2.4	ug/L	10		8260C	Total/NA
1,1,1-Trichloroethane - DL	6.2	J	10	2.9	ug/L	10		8260C	Total/NA
Trichloroethene - DL	120		10	1.4	ug/L	10		8260C	Total/NA
Tetrachloroethene - DL	160		10	1.5	ug/L	10		8260C	Total/NA

Client Sample ID: HD-MW-75S-0/1-0

Lab Sample ID: 180-48181-5

This Detection Summary does not include radiochemical test results.

TestAmerica Pittsburgh

Detection Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

Client Sample ID: HD-MW-75S-0/1-0 (Continued)

Lab Sample ID: 180-48181-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	53		50	15	ug/L	50		8260C	Total/NA
1,1-Dichloroethane	6.8	J	50	5.8	ug/L	50		8260C	Total/NA
cis-1,2-Dichloroethene	130		50	12	ug/L	50		8260C	Total/NA
1,1,1-Trichloroethane	250		50	14	ug/L	50		8260C	Total/NA
Trichloroethene	2900	E	50	7.2	ug/L	50		8260C	Total/NA
1,1,2-Trichloroethane	120		50	10	ug/L	50		8260C	Total/NA
Tetrachloroethene	14000	E	50	7.4	ug/L	50		8260C	Total/NA
cis-1,2-Dichloroethene - DL	160	J	500	120	ug/L	500		8260C	Total/NA
1,1,1-Trichloroethane - DL	240	J	500	140	ug/L	500		8260C	Total/NA
Trichloroethene - DL	2800		500	72	ug/L	500		8260C	Total/NA
Tetrachloroethene - DL	16000		500	74	ug/L	500		8260C	Total/NA

Client Sample ID: HD-MW-75D-0/1-0

Lab Sample ID: 180-48181-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	54		50	15	ug/L	50		8260C	Total/NA
1,1-Dichloroethane	34	J	50	5.8	ug/L	50		8260C	Total/NA
cis-1,2-Dichloroethene	550		50	12	ug/L	50		8260C	Total/NA
1,1,1-Trichloroethane	240		50	14	ug/L	50		8260C	Total/NA
Trichloroethene	3100	E	50	7.2	ug/L	50		8260C	Total/NA
Tetrachloroethene	12000	E	50	7.4	ug/L	50		8260C	Total/NA
cis-1,2-Dichloroethene - DL	560		500	120	ug/L	500		8260C	Total/NA
1,1,1-Trichloroethane - DL	220	J	500	140	ug/L	500		8260C	Total/NA
Trichloroethene - DL	3200		500	72	ug/L	500		8260C	Total/NA
Tetrachloroethene - DL	15000		500	74	ug/L	500		8260C	Total/NA

Client Sample ID: HD-MW-37D-0/1-0

Lab Sample ID: 180-48181-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	17	J	40	12	ug/L	40		8260C	Total/NA
cis-1,2-Dichloroethene	77		40	9.5	ug/L	40		8260C	Total/NA
1,1,1-Trichloroethane	97		40	11	ug/L	40		8260C	Total/NA
Trichloroethene	460		40	5.7	ug/L	40		8260C	Total/NA
Tetrachloroethene	1100		40	5.9	ug/L	40		8260C	Total/NA

Client Sample ID: HD-QC3-0/1-1

Lab Sample ID: 180-48181-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.77	J	1.0	0.30	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	1.1		1.0	0.12	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	22		1.0	0.24	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane	6.0		1.0	0.29	ug/L	1		8260C	Total/NA
Trichloroethene	31		1.0	0.14	ug/L	1		8260C	Total/NA
Tetrachloroethene	87	E	1.0	0.15	ug/L	1		8260C	Total/NA
1,1-Dichloroethane - DL	1.0	J	5.0	0.58	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene - DL	21		5.0	1.2	ug/L	5		8260C	Total/NA
1,1,1-Trichloroethane - DL	5.2		5.0	1.4	ug/L	5		8260C	Total/NA
Trichloroethene - DL	26		5.0	0.72	ug/L	5		8260C	Total/NA
Tetrachloroethene - DL	82		5.0	0.74	ug/L	5		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pittsburgh

Detection Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

Client Sample ID: HD-QC9-0/1-2

Lab Sample ID: 180-48181-9

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: 180-48181-1

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

Client Sample ID: HD-MW-18S-0/1-0

Date Collected: 09/25/15 08:20

Date Received: 09/26/15 09:00

Lab Sample ID: 180-48181-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.28	J	1.0	0.28	ug/L			10/06/15 17:08	1
Vinyl chloride	0.57	J	1.0	0.23	ug/L			10/06/15 17:08	1
Bromomethane	ND		1.0	0.31	ug/L			10/06/15 17:08	1
Chloroethane	ND	^c	1.0	0.21	ug/L			10/06/15 17:08	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/06/15 17:08	1
Acetone	ND		5.0	2.5	ug/L			10/06/15 17:08	1
Carbon disulfide	ND		1.0	0.21	ug/L			10/06/15 17:08	1
Methylene Chloride	ND		1.0	0.13	ug/L			10/06/15 17:08	1
trans-1,2-Dichloroethene	ND		1.0	0.17	ug/L			10/06/15 17:08	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			10/06/15 17:08	1
1,1-Dichloroethane	ND		1.0	0.12	ug/L			10/06/15 17:08	1
cis-1,2-Dichloroethene	22		1.0	0.24	ug/L			10/06/15 17:08	1
Bromochloromethane	ND		1.0	0.18	ug/L			10/06/15 17:08	1
2-Butanone (MEK)	ND		5.0	0.55	ug/L			10/06/15 17:08	1
Chloroform	ND		1.0	0.17	ug/L			10/06/15 17:08	1
1,1,1-Trichloroethane	ND		1.0	0.29	ug/L			10/06/15 17:08	1
Carbon tetrachloride	ND		1.0	0.14	ug/L			10/06/15 17:08	1
Benzene	ND		1.0	0.11	ug/L			10/06/15 17:08	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/06/15 17:08	1
Trichloroethene	11		1.0	0.14	ug/L			10/06/15 17:08	1
1,2-Dichloropropane	ND		1.0	0.095	ug/L			10/06/15 17:08	1
Bromodichloromethane	ND		1.0	0.13	ug/L			10/06/15 17:08	1
cis-1,3-Dichloropropene	ND		1.0	0.19	ug/L			10/06/15 17:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.53	ug/L			10/06/15 17:08	1
Toluene	ND		1.0	0.15	ug/L			10/06/15 17:08	1
trans-1,3-Dichloropropene	ND		1.0	0.15	ug/L			10/06/15 17:08	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/06/15 17:08	1
Tetrachloroethene	ND		1.0	0.15	ug/L			10/06/15 17:08	1
2-Hexanone	ND		5.0	0.16	ug/L			10/06/15 17:08	1
Dibromochloromethane	ND		1.0	0.14	ug/L			10/06/15 17:08	1
1,2-Dibromoethane (EDB)	ND		1.0	0.18	ug/L			10/06/15 17:08	1
Chlorobenzene	ND		1.0	0.14	ug/L			10/06/15 17:08	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			10/06/15 17:08	1
Ethylbenzene	ND		1.0	0.23	ug/L			10/06/15 17:08	1
Xylenes, Total	ND		3.0	0.49	ug/L			10/06/15 17:08	1
Styrene	ND		1.0	0.097	ug/L			10/06/15 17:08	1
Bromoform	ND		1.0	0.19	ug/L			10/06/15 17:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/06/15 17:08	1
Acrylonitrile	ND		20	0.55	ug/L			10/06/15 17:08	1
1,4-Dioxane	ND		200	34	ug/L			10/06/15 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	94		64 - 135		10/06/15 17:08	1
<i>Toluene-d8 (Surr)</i>	92		71 - 118		10/06/15 17:08	1
<i>4-Bromofluorobenzene (Surr)</i>	88		70 - 118		10/06/15 17:08	1
<i>Dibromofluoromethane (Surr)</i>	104		70 - 128		10/06/15 17:08	1

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

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

Client Sample ID: HD-MW-147A-0/1-0

Date Collected: 09/25/15 10:05

Date Received: 09/26/15 09:00

Lab Sample ID: 180-48181-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.28	ug/L			10/03/15 13:50	1
Vinyl chloride	ND		1.0	0.23	ug/L			10/03/15 13:50	1
Bromomethane	ND		1.0	0.31	ug/L			10/03/15 13:50	1
Chloroethane	ND		1.0	0.21	ug/L			10/03/15 13:50	1
1,1-Dichloroethene	0.53	J	1.0	0.30	ug/L			10/03/15 13:50	1
Acetone	ND		5.0	2.5	ug/L			10/03/15 13:50	1
Carbon disulfide	ND		1.0	0.21	ug/L			10/03/15 13:50	1
Methylene Chloride	ND		1.0	0.13	ug/L			10/03/15 13:50	1
trans-1,2-Dichloroethene	ND		1.0	0.17	ug/L			10/03/15 13:50	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			10/03/15 13:50	1
1,1-Dichloroethane	0.14	J	1.0	0.12	ug/L			10/03/15 13:50	1
cis-1,2-Dichloroethene	11	F1	1.0	0.24	ug/L			10/03/15 13:50	1
Bromochloromethane	ND		1.0	0.18	ug/L			10/03/15 13:50	1
2-Butanone (MEK)	ND		5.0	0.55	ug/L			10/03/15 13:50	1
Chloroform	0.24	J	1.0	0.17	ug/L			10/03/15 13:50	1
1,1,1-Trichloroethane	0.46	J	1.0	0.29	ug/L			10/03/15 13:50	1
Carbon tetrachloride	ND		1.0	0.14	ug/L			10/03/15 13:50	1
Benzene	ND		1.0	0.11	ug/L			10/03/15 13:50	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/03/15 13:50	1
Trichloroethene	11	F1	1.0	0.14	ug/L			10/03/15 13:50	1
1,2-Dichloropropane	ND		1.0	0.095	ug/L			10/03/15 13:50	1
Bromodichloromethane	ND		1.0	0.13	ug/L			10/03/15 13:50	1
cis-1,3-Dichloropropene	ND		1.0	0.19	ug/L			10/03/15 13:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.53	ug/L			10/03/15 13:50	1
Toluene	ND		1.0	0.15	ug/L			10/03/15 13:50	1
trans-1,3-Dichloropropene	ND		1.0	0.15	ug/L			10/03/15 13:50	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/03/15 13:50	1
Tetrachloroethene	6.3		1.0	0.15	ug/L			10/03/15 13:50	1
2-Hexanone	ND		5.0	0.16	ug/L			10/03/15 13:50	1
Dibromochloromethane	ND		1.0	0.14	ug/L			10/03/15 13:50	1
1,2-Dibromoethane (EDB)	ND		1.0	0.18	ug/L			10/03/15 13:50	1
Chlorobenzene	ND		1.0	0.14	ug/L			10/03/15 13:50	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			10/03/15 13:50	1
Ethylbenzene	ND		1.0	0.23	ug/L			10/03/15 13:50	1
Xylenes, Total	ND		3.0	0.49	ug/L			10/03/15 13:50	1
Styrene	ND		1.0	0.097	ug/L			10/03/15 13:50	1
Bromoform	ND		1.0	0.19	ug/L			10/03/15 13:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/03/15 13:50	1
Acrylonitrile	ND		20	0.55	ug/L			10/03/15 13:50	1
1,4-Dioxane	ND		200	34	ug/L			10/03/15 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		64 - 135		10/03/15 13:50	1
Toluene-d8 (Surr)	93		71 - 118		10/03/15 13:50	1
4-Bromofluorobenzene (Surr)	86		70 - 118		10/03/15 13:50	1
Dibromofluoromethane (Surr)	108		70 - 128		10/03/15 13:50	1

TestAmerica Pittsburgh

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

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

Client Sample ID: HD-MW-93S-0/1-0

Date Collected: 09/25/15 12:25

Date Received: 09/26/15 09:00

Lab Sample ID: 180-48181-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.28	ug/L			10/06/15 20:21	1
Vinyl chloride	ND		1.0	0.23	ug/L			10/06/15 20:21	1
Bromomethane	ND		1.0	0.31	ug/L			10/06/15 20:21	1
Chloroethane	ND	^c	1.0	0.21	ug/L			10/06/15 20:21	1
1,1-Dichloroethene	0.95	J	1.0	0.30	ug/L			10/06/15 20:21	1
Acetone	ND		5.0	2.5	ug/L			10/06/15 20:21	1
Carbon disulfide	ND		1.0	0.21	ug/L			10/06/15 20:21	1
Methylene Chloride	ND		1.0	0.13	ug/L			10/06/15 20:21	1
trans-1,2-Dichloroethene	ND		1.0	0.17	ug/L			10/06/15 20:21	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			10/06/15 20:21	1
1,1-Dichloroethane	1.1		1.0	0.12	ug/L			10/06/15 20:21	1
cis-1,2-Dichloroethene	23		1.0	0.24	ug/L			10/06/15 20:21	1
Bromochloromethane	ND		1.0	0.18	ug/L			10/06/15 20:21	1
2-Butanone (MEK)	ND		5.0	0.55	ug/L			10/06/15 20:21	1
Chloroform	ND		1.0	0.17	ug/L			10/06/15 20:21	1
1,1,1-Trichloroethane	6.8		1.0	0.29	ug/L			10/06/15 20:21	1
Carbon tetrachloride	ND		1.0	0.14	ug/L			10/06/15 20:21	1
Benzene	ND		1.0	0.11	ug/L			10/06/15 20:21	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/06/15 20:21	1
Trichloroethene	31		1.0	0.14	ug/L			10/06/15 20:21	1
1,2-Dichloropropane	ND		1.0	0.095	ug/L			10/06/15 20:21	1
Bromodichloromethane	ND		1.0	0.13	ug/L			10/06/15 20:21	1
cis-1,3-Dichloropropene	ND		1.0	0.19	ug/L			10/06/15 20:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.53	ug/L			10/06/15 20:21	1
Toluene	ND		1.0	0.15	ug/L			10/06/15 20:21	1
trans-1,3-Dichloropropene	ND		1.0	0.15	ug/L			10/06/15 20:21	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/06/15 20:21	1
Tetrachloroethene	110	E	1.0	0.15	ug/L			10/06/15 20:21	1
2-Hexanone	ND		5.0	0.16	ug/L			10/06/15 20:21	1
Dibromochloromethane	ND		1.0	0.14	ug/L			10/06/15 20:21	1
1,2-Dibromoethane (EDB)	ND		1.0	0.18	ug/L			10/06/15 20:21	1
Chlorobenzene	ND		1.0	0.14	ug/L			10/06/15 20:21	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			10/06/15 20:21	1
Ethylbenzene	ND		1.0	0.23	ug/L			10/06/15 20:21	1
Xylenes, Total	ND		3.0	0.49	ug/L			10/06/15 20:21	1
Styrene	ND		1.0	0.097	ug/L			10/06/15 20:21	1
Bromoform	ND		1.0	0.19	ug/L			10/06/15 20:21	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/06/15 20:21	1
Acrylonitrile	ND		20	0.55	ug/L			10/06/15 20:21	1
1,4-Dioxane	ND		200	34	ug/L			10/06/15 20:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		64 - 135		10/06/15 20:21	1
Toluene-d8 (Surr)	93		71 - 118		10/06/15 20:21	1
4-Bromofluorobenzene (Surr)	88		70 - 118		10/06/15 20:21	1
Dibromofluoromethane (Surr)	109		70 - 128		10/06/15 20:21	1

TestAmerica Pittsburgh

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

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

Client Sample ID: HD-MW-93D-0/1-0

Date Collected: 09/25/15 13:10

Date Received: 09/26/15 09:00

Lab Sample ID: 180-48181-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.28	ug/L			10/06/15 21:09	1
Vinyl chloride	0.54	J	1.0	0.23	ug/L			10/06/15 21:09	1
Bromomethane	ND		1.0	0.31	ug/L			10/06/15 21:09	1
Chloroethane	ND	^c	1.0	0.21	ug/L			10/06/15 21:09	1
1,1-Dichloroethene	4.3		1.0	0.30	ug/L			10/06/15 21:09	1
Acetone	ND		5.0	2.5	ug/L			10/06/15 21:09	1
Carbon disulfide	ND		1.0	0.21	ug/L			10/06/15 21:09	1
Methylene Chloride	ND		1.0	0.13	ug/L			10/06/15 21:09	1
trans-1,2-Dichloroethene	0.26	J	1.0	0.17	ug/L			10/06/15 21:09	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			10/06/15 21:09	1
1,1-Dichloroethane	2.9		1.0	0.12	ug/L			10/06/15 21:09	1
cis-1,2-Dichloroethene	44		1.0	0.24	ug/L			10/06/15 21:09	1
Bromochloromethane	ND		1.0	0.18	ug/L			10/06/15 21:09	1
2-Butanone (MEK)	ND		5.0	0.55	ug/L			10/06/15 21:09	1
Chloroform	ND		1.0	0.17	ug/L			10/06/15 21:09	1
1,1,1-Trichloroethane	8.2		1.0	0.29	ug/L			10/06/15 21:09	1
Carbon tetrachloride	ND		1.0	0.14	ug/L			10/06/15 21:09	1
Benzene	ND		1.0	0.11	ug/L			10/06/15 21:09	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/06/15 21:09	1
Trichloroethene	140	E	1.0	0.14	ug/L			10/06/15 21:09	1
1,2-Dichloropropane	ND		1.0	0.095	ug/L			10/06/15 21:09	1
Bromodichloromethane	ND		1.0	0.13	ug/L			10/06/15 21:09	1
cis-1,3-Dichloropropene	ND		1.0	0.19	ug/L			10/06/15 21:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.53	ug/L			10/06/15 21:09	1
Toluene	ND		1.0	0.15	ug/L			10/06/15 21:09	1
trans-1,3-Dichloropropene	ND		1.0	0.15	ug/L			10/06/15 21:09	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/06/15 21:09	1
Tetrachloroethene	180	E	1.0	0.15	ug/L			10/06/15 21:09	1
2-Hexanone	ND		5.0	0.16	ug/L			10/06/15 21:09	1
Dibromochloromethane	ND		1.0	0.14	ug/L			10/06/15 21:09	1
1,2-Dibromoethane (EDB)	ND		1.0	0.18	ug/L			10/06/15 21:09	1
Chlorobenzene	ND		1.0	0.14	ug/L			10/06/15 21:09	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			10/06/15 21:09	1
Ethylbenzene	ND		1.0	0.23	ug/L			10/06/15 21:09	1
Xylenes, Total	ND		3.0	0.49	ug/L			10/06/15 21:09	1
Styrene	ND		1.0	0.097	ug/L			10/06/15 21:09	1
Bromoform	ND		1.0	0.19	ug/L			10/06/15 21:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/06/15 21:09	1
Acrylonitrile	ND		20	0.55	ug/L			10/06/15 21:09	1
1,4-Dioxane	ND		200	34	ug/L			10/06/15 21:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		64 - 135		10/06/15 21:09	1
Toluene-d8 (Surr)	89		71 - 118		10/06/15 21:09	1
4-Bromofluorobenzene (Surr)	85		70 - 118		10/06/15 21:09	1
Dibromofluoromethane (Surr)	108		70 - 128		10/06/15 21:09	1

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

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

Client Sample ID: HD-MW-75S-0/1-0

Date Collected: 09/25/15 13:47

Date Received: 09/26/15 09:00

Lab Sample ID: 180-48181-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		50	14	ug/L			10/05/15 17:59	50
Vinyl chloride	ND		50	11	ug/L			10/05/15 17:59	50
Bromomethane	ND		50	16	ug/L			10/05/15 17:59	50
Chloroethane	ND	^c	50	11	ug/L			10/05/15 17:59	50
1,1-Dichloroethene	53		50	15	ug/L			10/05/15 17:59	50
Acetone	ND		250	130	ug/L			10/05/15 17:59	50
Carbon disulfide	ND		50	11	ug/L			10/05/15 17:59	50
Methylene Chloride	ND		50	6.3	ug/L			10/05/15 17:59	50
trans-1,2-Dichloroethene	ND		50	8.5	ug/L			10/05/15 17:59	50
Methyl tert-butyl ether	ND		50	9.2	ug/L			10/05/15 17:59	50
1,1-Dichloroethane	6.8	J	50	5.8	ug/L			10/05/15 17:59	50
cis-1,2-Dichloroethene	130		50	12	ug/L			10/05/15 17:59	50
Bromochloromethane	ND		50	9.0	ug/L			10/05/15 17:59	50
2-Butanone (MEK)	ND		250	27	ug/L			10/05/15 17:59	50
Chloroform	ND		50	8.5	ug/L			10/05/15 17:59	50
1,1,1-Trichloroethane	250		50	14	ug/L			10/05/15 17:59	50
Carbon tetrachloride	ND		50	6.8	ug/L			10/05/15 17:59	50
Benzene	ND		50	5.3	ug/L			10/05/15 17:59	50
1,2-Dichloroethane	ND		50	11	ug/L			10/05/15 17:59	50
Trichloroethene	2900	E	50	7.2	ug/L			10/05/15 17:59	50
1,2-Dichloropropane	ND		50	4.7	ug/L			10/05/15 17:59	50
Bromodichloromethane	ND		50	6.5	ug/L			10/05/15 17:59	50
cis-1,3-Dichloropropene	ND		50	9.3	ug/L			10/05/15 17:59	50
4-Methyl-2-pentanone (MIBK)	ND		250	26	ug/L			10/05/15 17:59	50
Toluene	ND		50	7.5	ug/L			10/05/15 17:59	50
trans-1,3-Dichloropropene	ND		50	7.4	ug/L			10/05/15 17:59	50
1,1,2-Trichloroethane	120		50	10	ug/L			10/05/15 17:59	50
Tetrachloroethene	14000	E	50	7.4	ug/L			10/05/15 17:59	50
2-Hexanone	ND		250	8.0	ug/L			10/05/15 17:59	50
Dibromochloromethane	ND		50	6.8	ug/L			10/05/15 17:59	50
1,2-Dibromoethane (EDB)	ND		50	9.0	ug/L			10/05/15 17:59	50
Chlorobenzene	ND		50	6.8	ug/L			10/05/15 17:59	50
1,1,1,2-Tetrachloroethane	ND		50	14	ug/L			10/05/15 17:59	50
Ethylbenzene	ND		50	11	ug/L			10/05/15 17:59	50
Xylenes, Total	ND		150	24	ug/L			10/05/15 17:59	50
Styrene	ND		50	4.8	ug/L			10/05/15 17:59	50
Bromoform	ND		50	9.6	ug/L			10/05/15 17:59	50
1,1,1,2-Tetrachloroethane	ND		50	10	ug/L			10/05/15 17:59	50
Acrylonitrile	ND		1000	27	ug/L			10/05/15 17:59	50
1,4-Dioxane	ND		10000	1700	ug/L			10/05/15 17:59	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	100		64 - 135		10/05/15 17:59	50
<i>Toluene-d8 (Surr)</i>	88		71 - 118		10/05/15 17:59	50
<i>4-Bromofluorobenzene (Surr)</i>	84		70 - 118		10/05/15 17:59	50
<i>Dibromofluoromethane (Surr)</i>	110		70 - 128		10/05/15 17:59	50

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

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

Client Sample ID: HD-MW-75D-0/1-0

Date Collected: 09/25/15 11:12

Date Received: 09/26/15 09:00

Lab Sample ID: 180-48181-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		50	14	ug/L			10/05/15 18:23	50
Vinyl chloride	ND		50	11	ug/L			10/05/15 18:23	50
Bromomethane	ND		50	16	ug/L			10/05/15 18:23	50
Chloroethane	ND	^c	50	11	ug/L			10/05/15 18:23	50
1,1-Dichloroethene	54		50	15	ug/L			10/05/15 18:23	50
Acetone	ND		250	130	ug/L			10/05/15 18:23	50
Carbon disulfide	ND		50	11	ug/L			10/05/15 18:23	50
Methylene Chloride	ND		50	6.3	ug/L			10/05/15 18:23	50
trans-1,2-Dichloroethene	ND		50	8.5	ug/L			10/05/15 18:23	50
Methyl tert-butyl ether	ND		50	9.2	ug/L			10/05/15 18:23	50
1,1-Dichloroethane	34	J	50	5.8	ug/L			10/05/15 18:23	50
cis-1,2-Dichloroethene	550		50	12	ug/L			10/05/15 18:23	50
Bromochloromethane	ND		50	9.0	ug/L			10/05/15 18:23	50
2-Butanone (MEK)	ND		250	27	ug/L			10/05/15 18:23	50
Chloroform	ND		50	8.5	ug/L			10/05/15 18:23	50
1,1,1-Trichloroethane	240		50	14	ug/L			10/05/15 18:23	50
Carbon tetrachloride	ND		50	6.8	ug/L			10/05/15 18:23	50
Benzene	ND		50	5.3	ug/L			10/05/15 18:23	50
1,2-Dichloroethane	ND		50	11	ug/L			10/05/15 18:23	50
Trichloroethene	3100	E	50	7.2	ug/L			10/05/15 18:23	50
1,2-Dichloropropane	ND		50	4.7	ug/L			10/05/15 18:23	50
Bromodichloromethane	ND		50	6.5	ug/L			10/05/15 18:23	50
cis-1,3-Dichloropropene	ND		50	9.3	ug/L			10/05/15 18:23	50
4-Methyl-2-pentanone (MIBK)	ND		250	26	ug/L			10/05/15 18:23	50
Toluene	ND		50	7.5	ug/L			10/05/15 18:23	50
trans-1,3-Dichloropropene	ND		50	7.4	ug/L			10/05/15 18:23	50
1,1,2-Trichloroethane	ND		50	10	ug/L			10/05/15 18:23	50
Tetrachloroethene	12000	E	50	7.4	ug/L			10/05/15 18:23	50
2-Hexanone	ND		250	8.0	ug/L			10/05/15 18:23	50
Dibromochloromethane	ND		50	6.8	ug/L			10/05/15 18:23	50
1,2-Dibromoethane (EDB)	ND		50	9.0	ug/L			10/05/15 18:23	50
Chlorobenzene	ND		50	6.8	ug/L			10/05/15 18:23	50
1,1,1,2-Tetrachloroethane	ND		50	14	ug/L			10/05/15 18:23	50
Ethylbenzene	ND		50	11	ug/L			10/05/15 18:23	50
Xylenes, Total	ND		150	24	ug/L			10/05/15 18:23	50
Styrene	ND		50	4.8	ug/L			10/05/15 18:23	50
Bromoform	ND		50	9.6	ug/L			10/05/15 18:23	50
1,1,2,2-Tetrachloroethane	ND		50	10	ug/L			10/05/15 18:23	50
Acrylonitrile	ND		1000	27	ug/L			10/05/15 18:23	50
1,4-Dioxane	ND		10000	1700	ug/L			10/05/15 18:23	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		64 - 135		10/05/15 18:23	50
Toluene-d8 (Surr)	90		71 - 118		10/05/15 18:23	50
4-Bromofluorobenzene (Surr)	86		70 - 118		10/05/15 18:23	50
Dibromofluoromethane (Surr)	113		70 - 128		10/05/15 18:23	50

TestAmerica Pittsburgh

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

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

Client Sample ID: HD-MW-37D-0/1-0

Date Collected: 09/25/15 12:37

Date Received: 09/26/15 09:00

Lab Sample ID: 180-48181-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		40	11	ug/L			10/05/15 17:46	40
Vinyl chloride	ND		40	9.1	ug/L			10/05/15 17:46	40
Bromomethane	ND		40	13	ug/L			10/05/15 17:46	40
Chloroethane	ND		40	8.6	ug/L			10/05/15 17:46	40
1,1-Dichloroethene	17	J	40	12	ug/L			10/05/15 17:46	40
Acetone	ND		200	100	ug/L			10/05/15 17:46	40
Carbon disulfide	ND		40	8.5	ug/L			10/05/15 17:46	40
Methylene Chloride	ND		40	5.0	ug/L			10/05/15 17:46	40
trans-1,2-Dichloroethene	ND		40	6.8	ug/L			10/05/15 17:46	40
Methyl tert-butyl ether	ND		40	7.3	ug/L			10/05/15 17:46	40
1,1-Dichloroethane	ND		40	4.7	ug/L			10/05/15 17:46	40
cis-1,2-Dichloroethene	77		40	9.5	ug/L			10/05/15 17:46	40
Bromochloromethane	ND		40	7.2	ug/L			10/05/15 17:46	40
2-Butanone (MEK)	ND		200	22	ug/L			10/05/15 17:46	40
Chloroform	ND		40	6.8	ug/L			10/05/15 17:46	40
1,1,1-Trichloroethane	97		40	11	ug/L			10/05/15 17:46	40
Carbon tetrachloride	ND		40	5.5	ug/L			10/05/15 17:46	40
Benzene	ND		40	4.2	ug/L			10/05/15 17:46	40
1,2-Dichloroethane	ND		40	8.5	ug/L			10/05/15 17:46	40
Trichloroethene	460		40	5.7	ug/L			10/05/15 17:46	40
1,2-Dichloropropane	ND		40	3.8	ug/L			10/05/15 17:46	40
Bromodichloromethane	ND		40	5.2	ug/L			10/05/15 17:46	40
cis-1,3-Dichloropropene	ND		40	7.5	ug/L			10/05/15 17:46	40
4-Methyl-2-pentanone (MIBK)	ND		200	21	ug/L			10/05/15 17:46	40
Toluene	ND		40	6.0	ug/L			10/05/15 17:46	40
trans-1,3-Dichloropropene	ND		40	5.9	ug/L			10/05/15 17:46	40
1,1,2-Trichloroethane	ND		40	8.1	ug/L			10/05/15 17:46	40
Tetrachloroethene	1100		40	5.9	ug/L			10/05/15 17:46	40
2-Hexanone	ND		200	6.4	ug/L			10/05/15 17:46	40
Dibromochloromethane	ND		40	5.5	ug/L			10/05/15 17:46	40
1,2-Dibromoethane (EDB)	ND		40	7.2	ug/L			10/05/15 17:46	40
Chlorobenzene	ND		40	5.4	ug/L			10/05/15 17:46	40
1,1,1,2-Tetrachloroethane	ND		40	11	ug/L			10/05/15 17:46	40
Ethylbenzene	ND		40	9.1	ug/L			10/05/15 17:46	40
Xylenes, Total	ND		120	20	ug/L			10/05/15 17:46	40
Styrene	ND		40	3.9	ug/L			10/05/15 17:46	40
Bromoform	ND		40	7.7	ug/L			10/05/15 17:46	40
1,1,2,2-Tetrachloroethane	ND		40	8.0	ug/L			10/05/15 17:46	40
Acrylonitrile	ND		800	22	ug/L			10/05/15 17:46	40
1,4-Dioxane	ND		8000	1400	ug/L			10/05/15 17:46	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	110		64 - 135		10/05/15 17:46	40
<i>Toluene-d8 (Surr)</i>	96		71 - 118		10/05/15 17:46	40
<i>4-Bromofluorobenzene (Surr)</i>	90		70 - 118		10/05/15 17:46	40
<i>Dibromofluoromethane (Surr)</i>	110		70 - 128		10/05/15 17:46	40

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

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

Client Sample ID: HD-QC3-0/1-1

Date Collected: 09/25/15 08:00

Date Received: 09/26/15 09:00

Lab Sample ID: 180-48181-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.28	ug/L			10/05/15 18:10	1
Vinyl chloride	ND		1.0	0.23	ug/L			10/05/15 18:10	1
Bromomethane	ND		1.0	0.31	ug/L			10/05/15 18:10	1
Chloroethane	ND		1.0	0.21	ug/L			10/05/15 18:10	1
1,1-Dichloroethene	0.77	J	1.0	0.30	ug/L			10/05/15 18:10	1
Acetone	ND		5.0	2.5	ug/L			10/05/15 18:10	1
Carbon disulfide	ND		1.0	0.21	ug/L			10/05/15 18:10	1
Methylene Chloride	ND		1.0	0.13	ug/L			10/05/15 18:10	1
trans-1,2-Dichloroethene	ND		1.0	0.17	ug/L			10/05/15 18:10	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			10/05/15 18:10	1
1,1-Dichloroethane	1.1		1.0	0.12	ug/L			10/05/15 18:10	1
cis-1,2-Dichloroethene	22		1.0	0.24	ug/L			10/05/15 18:10	1
Bromochloromethane	ND		1.0	0.18	ug/L			10/05/15 18:10	1
2-Butanone (MEK)	ND		5.0	0.55	ug/L			10/05/15 18:10	1
Chloroform	ND		1.0	0.17	ug/L			10/05/15 18:10	1
1,1,1-Trichloroethane	6.0		1.0	0.29	ug/L			10/05/15 18:10	1
Carbon tetrachloride	ND		1.0	0.14	ug/L			10/05/15 18:10	1
Benzene	ND		1.0	0.11	ug/L			10/05/15 18:10	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/05/15 18:10	1
Trichloroethene	31		1.0	0.14	ug/L			10/05/15 18:10	1
1,2-Dichloropropane	ND		1.0	0.095	ug/L			10/05/15 18:10	1
Bromodichloromethane	ND		1.0	0.13	ug/L			10/05/15 18:10	1
cis-1,3-Dichloropropene	ND		1.0	0.19	ug/L			10/05/15 18:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.53	ug/L			10/05/15 18:10	1
Toluene	ND		1.0	0.15	ug/L			10/05/15 18:10	1
trans-1,3-Dichloropropene	ND		1.0	0.15	ug/L			10/05/15 18:10	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/05/15 18:10	1
Tetrachloroethene	87	E	1.0	0.15	ug/L			10/05/15 18:10	1
2-Hexanone	ND		5.0	0.16	ug/L			10/05/15 18:10	1
Dibromochloromethane	ND		1.0	0.14	ug/L			10/05/15 18:10	1
1,2-Dibromoethane (EDB)	ND		1.0	0.18	ug/L			10/05/15 18:10	1
Chlorobenzene	ND		1.0	0.14	ug/L			10/05/15 18:10	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			10/05/15 18:10	1
Ethylbenzene	ND		1.0	0.23	ug/L			10/05/15 18:10	1
Xylenes, Total	ND		3.0	0.49	ug/L			10/05/15 18:10	1
Styrene	ND		1.0	0.097	ug/L			10/05/15 18:10	1
Bromoform	ND		1.0	0.19	ug/L			10/05/15 18:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/05/15 18:10	1
Acrylonitrile	ND		20	0.55	ug/L			10/05/15 18:10	1
1,4-Dioxane	ND		200	34	ug/L			10/05/15 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		64 - 135		10/05/15 18:10	1
Toluene-d8 (Surr)	95		71 - 118		10/05/15 18:10	1
4-Bromofluorobenzene (Surr)	83		70 - 118		10/05/15 18:10	1
Dibromofluoromethane (Surr)	109		70 - 128		10/05/15 18:10	1

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

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

Client Sample ID: HD-QC9-0/1-2

Date Collected: 09/25/15 12:00

Date Received: 09/26/15 09:00

Lab Sample ID: 180-48181-9

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		64 - 135		10/03/15 14:14	1
Toluene-d8 (Surr)	92		71 - 118		10/03/15 14:14	1
4-Bromofluorobenzene (Surr)	85		70 - 118		10/03/15 14:14	1
Dibromofluoromethane (Surr)	107		70 - 128		10/03/15 14:14	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

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

Client Sample ID: HD-MW-93S-0/1-0

Date Collected: 09/25/15 12:25

Date Received: 09/26/15 09:00

Lab Sample ID: 180-48181-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		5.0	1.4	ug/L			10/06/15 17:32	5
Vinyl chloride	ND		5.0	1.1	ug/L			10/06/15 17:32	5
Bromomethane	ND		5.0	1.6	ug/L			10/06/15 17:32	5
Chloroethane	ND	^c	5.0	1.1	ug/L			10/06/15 17:32	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			10/06/15 17:32	5
Acetone	ND		25	13	ug/L			10/06/15 17:32	5
Carbon disulfide	ND		5.0	1.1	ug/L			10/06/15 17:32	5
Methylene Chloride	ND		5.0	0.63	ug/L			10/06/15 17:32	5
trans-1,2-Dichloroethene	ND		5.0	0.85	ug/L			10/06/15 17:32	5
Methyl tert-butyl ether	ND		5.0	0.92	ug/L			10/06/15 17:32	5
1,1-Dichloroethane	1.1	J	5.0	0.58	ug/L			10/06/15 17:32	5
cis-1,2-Dichloroethene	20		5.0	1.2	ug/L			10/06/15 17:32	5
Bromochloromethane	ND		5.0	0.90	ug/L			10/06/15 17:32	5
2-Butanone (MEK)	ND		25	2.7	ug/L			10/06/15 17:32	5
Chloroform	ND		5.0	0.85	ug/L			10/06/15 17:32	5
1,1,1-Trichloroethane	5.5		5.0	1.4	ug/L			10/06/15 17:32	5
Carbon tetrachloride	ND		5.0	0.68	ug/L			10/06/15 17:32	5
Benzene	ND		5.0	0.53	ug/L			10/06/15 17:32	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			10/06/15 17:32	5
Trichloroethene	27		5.0	0.72	ug/L			10/06/15 17:32	5
1,2-Dichloropropane	ND		5.0	0.47	ug/L			10/06/15 17:32	5
Bromodichloromethane	ND		5.0	0.65	ug/L			10/06/15 17:32	5
cis-1,3-Dichloropropene	ND		5.0	0.93	ug/L			10/06/15 17:32	5
4-Methyl-2-pentanone (MIBK)	ND		25	2.6	ug/L			10/06/15 17:32	5
Toluene	ND		5.0	0.75	ug/L			10/06/15 17:32	5
trans-1,3-Dichloropropene	ND		5.0	0.74	ug/L			10/06/15 17:32	5
1,1,2-Trichloroethane	ND		5.0	1.0	ug/L			10/06/15 17:32	5
Tetrachloroethene	90		5.0	0.74	ug/L			10/06/15 17:32	5
2-Hexanone	ND		25	0.80	ug/L			10/06/15 17:32	5
Dibromochloromethane	ND		5.0	0.68	ug/L			10/06/15 17:32	5
1,2-Dibromoethane (EDB)	ND		5.0	0.90	ug/L			10/06/15 17:32	5
Chlorobenzene	ND		5.0	0.68	ug/L			10/06/15 17:32	5
1,1,1,2-Tetrachloroethane	ND		5.0	1.4	ug/L			10/06/15 17:32	5
Ethylbenzene	ND		5.0	1.1	ug/L			10/06/15 17:32	5
Xylenes, Total	ND		15	2.4	ug/L			10/06/15 17:32	5
Styrene	ND		5.0	0.48	ug/L			10/06/15 17:32	5
Bromoform	ND		5.0	0.96	ug/L			10/06/15 17:32	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.0	ug/L			10/06/15 17:32	5
Acrylonitrile	ND		100	2.7	ug/L			10/06/15 17:32	5
1,4-Dioxane	ND		1000	170	ug/L			10/06/15 17:32	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		64 - 135		10/06/15 17:32	5
Toluene-d8 (Surr)	91		71 - 118		10/06/15 17:32	5
4-Bromofluorobenzene (Surr)	88		70 - 118		10/06/15 17:32	5
Dibromofluoromethane (Surr)	106		70 - 128		10/06/15 17:32	5

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

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

Client Sample ID: HD-MW-93D-0/1-0

Date Collected: 09/25/15 13:10

Date Received: 09/26/15 09:00

Lab Sample ID: 180-48181-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		10	2.8	ug/L			10/05/15 17:35	10
Vinyl chloride	ND		10	2.3	ug/L			10/05/15 17:35	10
Bromomethane	ND		10	3.1	ug/L			10/05/15 17:35	10
Chloroethane	ND	^c	10	2.1	ug/L			10/05/15 17:35	10
1,1-Dichloroethene	ND		10	3.0	ug/L			10/05/15 17:35	10
Acetone	ND		50	25	ug/L			10/05/15 17:35	10
Carbon disulfide	ND		10	2.1	ug/L			10/05/15 17:35	10
Methylene Chloride	ND		10	1.3	ug/L			10/05/15 17:35	10
trans-1,2-Dichloroethene	ND		10	1.7	ug/L			10/05/15 17:35	10
Methyl tert-butyl ether	ND		10	1.8	ug/L			10/05/15 17:35	10
1,1-Dichloroethane	2.7	J	10	1.2	ug/L			10/05/15 17:35	10
cis-1,2-Dichloroethene	37		10	2.4	ug/L			10/05/15 17:35	10
Bromochloromethane	ND		10	1.8	ug/L			10/05/15 17:35	10
2-Butanone (MEK)	ND		50	5.5	ug/L			10/05/15 17:35	10
Chloroform	ND		10	1.7	ug/L			10/05/15 17:35	10
1,1,1-Trichloroethane	6.2	J	10	2.9	ug/L			10/05/15 17:35	10
Carbon tetrachloride	ND		10	1.4	ug/L			10/05/15 17:35	10
Benzene	ND		10	1.1	ug/L			10/05/15 17:35	10
1,2-Dichloroethane	ND		10	2.1	ug/L			10/05/15 17:35	10
Trichloroethene	120		10	1.4	ug/L			10/05/15 17:35	10
1,2-Dichloropropane	ND		10	0.95	ug/L			10/05/15 17:35	10
Bromodichloromethane	ND		10	1.3	ug/L			10/05/15 17:35	10
cis-1,3-Dichloropropene	ND		10	1.9	ug/L			10/05/15 17:35	10
4-Methyl-2-pentanone (MIBK)	ND		50	5.3	ug/L			10/05/15 17:35	10
Toluene	ND		10	1.5	ug/L			10/05/15 17:35	10
trans-1,3-Dichloropropene	ND		10	1.5	ug/L			10/05/15 17:35	10
1,1,2-Trichloroethane	ND		10	2.0	ug/L			10/05/15 17:35	10
Tetrachloroethene	160		10	1.5	ug/L			10/05/15 17:35	10
2-Hexanone	ND		50	1.6	ug/L			10/05/15 17:35	10
Dibromochloromethane	ND		10	1.4	ug/L			10/05/15 17:35	10
1,2-Dibromoethane (EDB)	ND		10	1.8	ug/L			10/05/15 17:35	10
Chlorobenzene	ND		10	1.4	ug/L			10/05/15 17:35	10
1,1,1,2-Tetrachloroethane	ND		10	2.8	ug/L			10/05/15 17:35	10
Ethylbenzene	ND		10	2.3	ug/L			10/05/15 17:35	10
Xylenes, Total	ND		30	4.9	ug/L			10/05/15 17:35	10
Styrene	ND		10	0.97	ug/L			10/05/15 17:35	10
Bromoform	ND		10	1.9	ug/L			10/05/15 17:35	10
1,1,2,2-Tetrachloroethane	ND		10	2.0	ug/L			10/05/15 17:35	10
Acrylonitrile	ND		200	5.5	ug/L			10/05/15 17:35	10
1,4-Dioxane	ND		2000	340	ug/L			10/05/15 17:35	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	97		64 - 135		10/05/15 17:35	10
<i>Toluene-d8 (Surr)</i>	92		71 - 118		10/05/15 17:35	10
<i>4-Bromofluorobenzene (Surr)</i>	88		70 - 118		10/05/15 17:35	10
<i>Dibromofluoromethane (Surr)</i>	108		70 - 128		10/05/15 17:35	10

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

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

Client Sample ID: HD-MW-75S-0/1-0
Date Collected: 09/25/15 13:47
Date Received: 09/26/15 09:00

Lab Sample ID: 180-48181-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		500	140	ug/L			10/06/15 17:56	500
Vinyl chloride	ND		500	110	ug/L			10/06/15 17:56	500
Bromomethane	ND		500	160	ug/L			10/06/15 17:56	500
Chloroethane	ND	^c	500	110	ug/L			10/06/15 17:56	500
1,1-Dichloroethene	ND		500	150	ug/L			10/06/15 17:56	500
Acetone	ND		2500	1300	ug/L			10/06/15 17:56	500
Carbon disulfide	ND		500	110	ug/L			10/06/15 17:56	500
Methylene Chloride	ND		500	63	ug/L			10/06/15 17:56	500
trans-1,2-Dichloroethene	ND		500	85	ug/L			10/06/15 17:56	500
Methyl tert-butyl ether	ND		500	92	ug/L			10/06/15 17:56	500
1,1-Dichloroethane	ND		500	58	ug/L			10/06/15 17:56	500
cis-1,2-Dichloroethene	160	J	500	120	ug/L			10/06/15 17:56	500
Bromochloromethane	ND		500	90	ug/L			10/06/15 17:56	500
2-Butanone (MEK)	ND		2500	270	ug/L			10/06/15 17:56	500
Chloroform	ND		500	85	ug/L			10/06/15 17:56	500
1,1,1-Trichloroethane	240	J	500	140	ug/L			10/06/15 17:56	500
Carbon tetrachloride	ND		500	68	ug/L			10/06/15 17:56	500
Benzene	ND		500	53	ug/L			10/06/15 17:56	500
1,2-Dichloroethane	ND		500	110	ug/L			10/06/15 17:56	500
Trichloroethene	2800		500	72	ug/L			10/06/15 17:56	500
1,2-Dichloropropane	ND		500	47	ug/L			10/06/15 17:56	500
Bromodichloromethane	ND		500	65	ug/L			10/06/15 17:56	500
cis-1,3-Dichloropropene	ND		500	93	ug/L			10/06/15 17:56	500
4-Methyl-2-pentanone (MIBK)	ND		2500	260	ug/L			10/06/15 17:56	500
Toluene	ND		500	75	ug/L			10/06/15 17:56	500
trans-1,3-Dichloropropene	ND		500	74	ug/L			10/06/15 17:56	500
1,1,2-Trichloroethane	ND		500	100	ug/L			10/06/15 17:56	500
Tetrachloroethene	16000		500	74	ug/L			10/06/15 17:56	500
2-Hexanone	ND		2500	80	ug/L			10/06/15 17:56	500
Dibromochloromethane	ND		500	68	ug/L			10/06/15 17:56	500
1,2-Dibromoethane (EDB)	ND		500	90	ug/L			10/06/15 17:56	500
Chlorobenzene	ND		500	68	ug/L			10/06/15 17:56	500
1,1,1,2-Tetrachloroethane	ND		500	140	ug/L			10/06/15 17:56	500
Ethylbenzene	ND		500	110	ug/L			10/06/15 17:56	500
Xylenes, Total	ND		1500	240	ug/L			10/06/15 17:56	500
Styrene	ND		500	48	ug/L			10/06/15 17:56	500
Bromoform	ND		500	96	ug/L			10/06/15 17:56	500
1,1,1,2-Tetrachloroethane	ND		500	100	ug/L			10/06/15 17:56	500
Acrylonitrile	ND		10000	270	ug/L			10/06/15 17:56	500
1,4-Dioxane	ND		100000	17000	ug/L			10/06/15 17:56	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		64 - 135		10/06/15 17:56	500
Toluene-d8 (Surr)	88		71 - 118		10/06/15 17:56	500
4-Bromofluorobenzene (Surr)	85		70 - 118		10/06/15 17:56	500
Dibromofluoromethane (Surr)	107		70 - 128		10/06/15 17:56	500

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

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

Client Sample ID: HD-MW-75D-0/1-0

Date Collected: 09/25/15 11:12

Date Received: 09/26/15 09:00

Lab Sample ID: 180-48181-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		500	140	ug/L			10/06/15 18:44	500
Vinyl chloride	ND		500	110	ug/L			10/06/15 18:44	500
Bromomethane	ND		500	160	ug/L			10/06/15 18:44	500
Chloroethane	ND	^c	500	110	ug/L			10/06/15 18:44	500
1,1-Dichloroethene	ND		500	150	ug/L			10/06/15 18:44	500
Acetone	ND		2500	1300	ug/L			10/06/15 18:44	500
Carbon disulfide	ND		500	110	ug/L			10/06/15 18:44	500
Methylene Chloride	ND		500	63	ug/L			10/06/15 18:44	500
trans-1,2-Dichloroethene	ND		500	85	ug/L			10/06/15 18:44	500
Methyl tert-butyl ether	ND		500	92	ug/L			10/06/15 18:44	500
1,1-Dichloroethane	ND		500	58	ug/L			10/06/15 18:44	500
cis-1,2-Dichloroethene	560		500	120	ug/L			10/06/15 18:44	500
Bromochloromethane	ND		500	90	ug/L			10/06/15 18:44	500
2-Butanone (MEK)	ND		2500	270	ug/L			10/06/15 18:44	500
Chloroform	ND		500	85	ug/L			10/06/15 18:44	500
1,1,1-Trichloroethane	220	J	500	140	ug/L			10/06/15 18:44	500
Carbon tetrachloride	ND		500	68	ug/L			10/06/15 18:44	500
Benzene	ND		500	53	ug/L			10/06/15 18:44	500
1,2-Dichloroethane	ND		500	110	ug/L			10/06/15 18:44	500
Trichloroethene	3200		500	72	ug/L			10/06/15 18:44	500
1,2-Dichloropropane	ND		500	47	ug/L			10/06/15 18:44	500
Bromodichloromethane	ND		500	65	ug/L			10/06/15 18:44	500
cis-1,3-Dichloropropene	ND		500	93	ug/L			10/06/15 18:44	500
4-Methyl-2-pentanone (MIBK)	ND		2500	260	ug/L			10/06/15 18:44	500
Toluene	ND		500	75	ug/L			10/06/15 18:44	500
trans-1,3-Dichloropropene	ND		500	74	ug/L			10/06/15 18:44	500
1,1,2-Trichloroethane	ND		500	100	ug/L			10/06/15 18:44	500
Tetrachloroethene	15000		500	74	ug/L			10/06/15 18:44	500
2-Hexanone	ND		2500	80	ug/L			10/06/15 18:44	500
Dibromochloromethane	ND		500	68	ug/L			10/06/15 18:44	500
1,2-Dibromoethane (EDB)	ND		500	90	ug/L			10/06/15 18:44	500
Chlorobenzene	ND		500	68	ug/L			10/06/15 18:44	500
1,1,1,2-Tetrachloroethane	ND		500	140	ug/L			10/06/15 18:44	500
Ethylbenzene	ND		500	110	ug/L			10/06/15 18:44	500
Xylenes, Total	ND		1500	240	ug/L			10/06/15 18:44	500
Styrene	ND		500	48	ug/L			10/06/15 18:44	500
Bromoform	ND		500	96	ug/L			10/06/15 18:44	500
1,1,2,2-Tetrachloroethane	ND		500	100	ug/L			10/06/15 18:44	500
Acrylonitrile	ND		10000	270	ug/L			10/06/15 18:44	500
1,4-Dioxane	ND		100000	17000	ug/L			10/06/15 18:44	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		64 - 135		10/06/15 18:44	500
Toluene-d8 (Surr)	90		71 - 118		10/06/15 18:44	500
4-Bromofluorobenzene (Surr)	85		70 - 118		10/06/15 18:44	500
Dibromofluoromethane (Surr)	107		70 - 128		10/06/15 18:44	500

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

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

Client Sample ID: HD-QC3-0/1-1

Date Collected: 09/25/15 08:00

Date Received: 09/26/15 09:00

Lab Sample ID: 180-48181-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		5.0	1.4	ug/L			10/06/15 19:08	5
Vinyl chloride	ND		5.0	1.1	ug/L			10/06/15 19:08	5
Bromomethane	ND		5.0	1.6	ug/L			10/06/15 19:08	5
Chloroethane	ND	^c	5.0	1.1	ug/L			10/06/15 19:08	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			10/06/15 19:08	5
Acetone	ND		25	13	ug/L			10/06/15 19:08	5
Carbon disulfide	ND		5.0	1.1	ug/L			10/06/15 19:08	5
Methylene Chloride	ND		5.0	0.63	ug/L			10/06/15 19:08	5
trans-1,2-Dichloroethene	ND		5.0	0.85	ug/L			10/06/15 19:08	5
Methyl tert-butyl ether	ND		5.0	0.92	ug/L			10/06/15 19:08	5
1,1-Dichloroethane	1.0	J	5.0	0.58	ug/L			10/06/15 19:08	5
cis-1,2-Dichloroethene	21		5.0	1.2	ug/L			10/06/15 19:08	5
Bromochloromethane	ND		5.0	0.90	ug/L			10/06/15 19:08	5
2-Butanone (MEK)	ND		25	2.7	ug/L			10/06/15 19:08	5
Chloroform	ND		5.0	0.85	ug/L			10/06/15 19:08	5
1,1,1-Trichloroethane	5.2		5.0	1.4	ug/L			10/06/15 19:08	5
Carbon tetrachloride	ND		5.0	0.68	ug/L			10/06/15 19:08	5
Benzene	ND		5.0	0.53	ug/L			10/06/15 19:08	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			10/06/15 19:08	5
Trichloroethene	26		5.0	0.72	ug/L			10/06/15 19:08	5
1,2-Dichloropropane	ND		5.0	0.47	ug/L			10/06/15 19:08	5
Bromodichloromethane	ND		5.0	0.65	ug/L			10/06/15 19:08	5
cis-1,3-Dichloropropene	ND		5.0	0.93	ug/L			10/06/15 19:08	5
4-Methyl-2-pentanone (MIBK)	ND		25	2.6	ug/L			10/06/15 19:08	5
Toluene	ND		5.0	0.75	ug/L			10/06/15 19:08	5
trans-1,3-Dichloropropene	ND		5.0	0.74	ug/L			10/06/15 19:08	5
1,1,2-Trichloroethane	ND		5.0	1.0	ug/L			10/06/15 19:08	5
Tetrachloroethene	82		5.0	0.74	ug/L			10/06/15 19:08	5
2-Hexanone	ND		25	0.80	ug/L			10/06/15 19:08	5
Dibromochloromethane	ND		5.0	0.68	ug/L			10/06/15 19:08	5
1,2-Dibromoethane (EDB)	ND		5.0	0.90	ug/L			10/06/15 19:08	5
Chlorobenzene	ND		5.0	0.68	ug/L			10/06/15 19:08	5
1,1,1,2-Tetrachloroethane	ND		5.0	1.4	ug/L			10/06/15 19:08	5
Ethylbenzene	ND		5.0	1.1	ug/L			10/06/15 19:08	5
Xylenes, Total	ND		15	2.4	ug/L			10/06/15 19:08	5
Styrene	ND		5.0	0.48	ug/L			10/06/15 19:08	5
Bromoform	ND		5.0	0.96	ug/L			10/06/15 19:08	5
1,1,1,2-Tetrachloroethane	ND		5.0	1.0	ug/L			10/06/15 19:08	5
Acrylonitrile	ND		100	2.7	ug/L			10/06/15 19:08	5
1,4-Dioxane	ND		1000	170	ug/L			10/06/15 19:08	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		64 - 135		10/06/15 19:08	5
Toluene-d8 (Surr)	90		71 - 118		10/06/15 19:08	5
4-Bromofluorobenzene (Surr)	86		70 - 118		10/06/15 19:08	5
Dibromofluoromethane (Surr)	104		70 - 128		10/06/15 19:08	5

Default Detection Limits

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

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
1,1,1,2-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: 180-48181-1

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)
180-48181-1	HD-MW-18S-0/1-0	94	92	88	104
180-48181-2	HD-MW-147A-0/1-0	98	93	86	108
180-48181-2 MS	HD-MW-147A-0/1-0	83	97	93	92
180-48181-2 MSD	HD-MW-147A-0/1-0	85	98	93	93
180-48181-3 - DL	HD-MW-93S-0/1-0	91	91	88	106
180-48181-3	HD-MW-93S-0/1-0	94	93	88	109
180-48181-4 - DL	HD-MW-93D-0/1-0	97	92	88	108
180-48181-4	HD-MW-93D-0/1-0	95	89	85	108
180-48181-5	HD-MW-75S-0/1-0	100	88	84	110
180-48181-5 - DL	HD-MW-75S-0/1-0	92	88	85	107
180-48181-6	HD-MW-75D-0/1-0	97	90	86	113
180-48181-6 - DL	HD-MW-75D-0/1-0	95	90	85	107
180-48181-7	HD-MW-37D-0/1-0	110	96	90	110
180-48181-8	HD-QC3-0/1-1	106	95	83	109
180-48181-8 - DL	HD-QC3-0/1-1	96	90	86	104
180-48181-9	HD-QC9-0/1-2	98	92	85	107
LCS 180-155766/8	Lab Control Sample	88	95	88	92
LCS 180-155869/7	Lab Control Sample	105	111	101	106
LCS 180-155884/7	Lab Control Sample	82	99	90	91
LCS 180-156037/11	Lab Control Sample	84	100	96	91
MB 180-155766/5	Method Blank	97	94	87	102
MB 180-155869/5	Method Blank	103	99	88	105
MB 180-155884/4	Method Blank	93	91	88	105
MB 180-156037/6	Method Blank	95	93	88	105

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: 180-48181-1

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

Lab Sample ID: MB 180-155766/5

Matrix: Water

Analysis Batch: 155766

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.28	ug/L			10/03/15 13:16	1
Vinyl chloride	ND		1.0	0.23	ug/L			10/03/15 13:16	1
Bromomethane	ND		1.0	0.31	ug/L			10/03/15 13:16	1
Chloroethane	ND		1.0	0.21	ug/L			10/03/15 13:16	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/03/15 13:16	1
Acetone	ND		5.0	2.5	ug/L			10/03/15 13:16	1
Carbon disulfide	ND		1.0	0.21	ug/L			10/03/15 13:16	1
Methylene Chloride	ND		1.0	0.13	ug/L			10/03/15 13:16	1
trans-1,2-Dichloroethene	ND		1.0	0.17	ug/L			10/03/15 13:16	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			10/03/15 13:16	1
1,1-Dichloroethane	ND		1.0	0.12	ug/L			10/03/15 13:16	1
cis-1,2-Dichloroethene	ND		1.0	0.24	ug/L			10/03/15 13:16	1
Bromochloromethane	ND		1.0	0.18	ug/L			10/03/15 13:16	1
2-Butanone (MEK)	ND		5.0	0.55	ug/L			10/03/15 13:16	1
Chloroform	ND		1.0	0.17	ug/L			10/03/15 13:16	1
1,1,1-Trichloroethane	ND		1.0	0.29	ug/L			10/03/15 13:16	1
Carbon tetrachloride	ND		1.0	0.14	ug/L			10/03/15 13:16	1
Benzene	ND		1.0	0.11	ug/L			10/03/15 13:16	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/03/15 13:16	1
Trichloroethene	ND		1.0	0.14	ug/L			10/03/15 13:16	1
1,2-Dichloropropane	ND		1.0	0.095	ug/L			10/03/15 13:16	1
Bromodichloromethane	ND		1.0	0.13	ug/L			10/03/15 13:16	1
cis-1,3-Dichloropropene	ND		1.0	0.19	ug/L			10/03/15 13:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.53	ug/L			10/03/15 13:16	1
Toluene	ND		1.0	0.15	ug/L			10/03/15 13:16	1
trans-1,3-Dichloropropene	ND		1.0	0.15	ug/L			10/03/15 13:16	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/03/15 13:16	1
Tetrachloroethene	ND		1.0	0.15	ug/L			10/03/15 13:16	1
2-Hexanone	ND		5.0	0.16	ug/L			10/03/15 13:16	1
Dibromochloromethane	ND		1.0	0.14	ug/L			10/03/15 13:16	1
1,2-Dibromoethane (EDB)	ND		1.0	0.18	ug/L			10/03/15 13:16	1
Chlorobenzene	ND		1.0	0.14	ug/L			10/03/15 13:16	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			10/03/15 13:16	1
Ethylbenzene	ND		1.0	0.23	ug/L			10/03/15 13:16	1
Xylenes, Total	ND		3.0	0.49	ug/L			10/03/15 13:16	1
Styrene	ND		1.0	0.097	ug/L			10/03/15 13:16	1
Bromoform	ND		1.0	0.19	ug/L			10/03/15 13:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/03/15 13:16	1
Acrylonitrile	ND		20	0.55	ug/L			10/03/15 13:16	1
1,4-Dioxane	ND		200	34	ug/L			10/03/15 13:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		64 - 135		10/03/15 13:16	1
Toluene-d8 (Surr)	94		71 - 118		10/03/15 13:16	1
4-Bromofluorobenzene (Surr)	87		70 - 118		10/03/15 13:16	1
Dibromofluoromethane (Surr)	102		70 - 128		10/03/15 13:16	1

TestAmerica Pittsburgh

QC Sample Results

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

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

Lab Sample ID: LCS 180-155766/8

Matrix: Water

Analysis Batch: 155766

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	10.0	11.1		ug/L		111	50 - 139
Vinyl chloride	10.0	10.1		ug/L		101	53 - 138
Bromomethane	10.0	11.0		ug/L		110	33 - 150
Chloroethane	10.0	9.10		ug/L		91	36 - 142
1,1-Dichloroethene	10.0	9.39		ug/L		94	65 - 136
Acetone	20.0	18.5		ug/L		92	22 - 150
Carbon disulfide	10.0	8.56		ug/L		86	54 - 132
Methylene Chloride	10.0	9.86		ug/L		99	63 - 129
trans-1,2-Dichloroethene	10.0	9.72		ug/L		97	73 - 126
Methyl tert-butyl ether	10.0	9.38		ug/L		94	64 - 123
1,1-Dichloroethane	10.0	8.94		ug/L		89	73 - 126
cis-1,2-Dichloroethene	10.0	9.55		ug/L		96	70 - 120
Bromochloromethane	10.0	10.4		ug/L		104	70 - 127
2-Butanone (MEK)	20.0	21.6		ug/L		108	39 - 138
Chloroform	10.0	9.29		ug/L		93	72 - 127
1,1,1-Trichloroethane	10.0	9.23		ug/L		92	63 - 133
Carbon tetrachloride	10.0	9.88		ug/L		99	55 - 150
Benzene	10.0	9.60		ug/L		96	80 - 120
1,2-Dichloroethane	10.0	9.16		ug/L		92	68 - 132
Trichloroethene	10.0	10.2		ug/L		102	73 - 120
1,2-Dichloropropane	10.0	9.55		ug/L		95	76 - 124
Bromodichloromethane	10.0	9.03		ug/L		90	66 - 130
cis-1,3-Dichloropropene	10.0	8.34		ug/L		83	66 - 120
4-Methyl-2-pentanone (MIBK)	20.0	18.4		ug/L		92	45 - 145
Toluene	10.0	10.2		ug/L		102	80 - 123
trans-1,3-Dichloropropene	10.0	8.65		ug/L		86	65 - 125
1,1,2-Trichloroethane	10.0	10.4		ug/L		104	77 - 127
Tetrachloroethene	10.0	10.8		ug/L		108	70 - 135
2-Hexanone	20.0	18.5		ug/L		93	25 - 132
Dibromochloromethane	10.0	9.76		ug/L		98	60 - 140
1,2-Dibromoethane (EDB)	10.0	10.2		ug/L		102	74 - 123
Chlorobenzene	10.0	10.2		ug/L		102	80 - 120
1,1,1,2-Tetrachloroethane	10.0	10.3		ug/L		103	63 - 140
Ethylbenzene	10.0	10.2		ug/L		102	72 - 126
Xylenes, Total	20.0	20.9		ug/L		105	76 - 128
Styrene	10.0	10.9		ug/L		109	71 - 127
Bromoform	10.0	9.91		ug/L		99	46 - 150
1,1,2,2-Tetrachloroethane	10.0	10.6		ug/L		106	62 - 125
Acrylonitrile	100	104		ug/L		104	30 - 140
1,4-Dioxane	200	248		ug/L		124	10 - 160

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	88		64 - 135
Toluene-d8 (Surr)	95		71 - 118
4-Bromofluorobenzene (Surr)	88		70 - 118
Dibromofluoromethane (Surr)	92		70 - 128

QC Sample Results

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

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

Lab Sample ID: 180-48181-2 MS

Matrix: Water

Analysis Batch: 155766

Client Sample ID: HD-MW-147A-0/1-0

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Chloromethane	ND		10.0	10.3		ug/L		103	50 - 139
Vinyl chloride	ND		10.0	9.47		ug/L		95	53 - 138
Bromomethane	ND		10.0	10.1		ug/L		101	33 - 150
Chloroethane	ND		10.0	8.27		ug/L		83	36 - 142
1,1-Dichloroethene	0.53	J	10.0	9.39		ug/L		89	65 - 136
Acetone	ND		20.0	17.9		ug/L		89	22 - 150
Carbon disulfide	ND		10.0	8.15		ug/L		81	54 - 132
Methylene Chloride	ND		10.0	8.53		ug/L		85	63 - 129
trans-1,2-Dichloroethene	ND		10.0	8.99		ug/L		90	73 - 126
Methyl tert-butyl ether	ND		10.0	8.71		ug/L		87	64 - 123
1,1-Dichloroethane	0.14	J	10.0	8.57		ug/L		84	73 - 126
cis-1,2-Dichloroethene	11	F1	10.0	16.9	F1	ug/L		64	70 - 120
Bromochloromethane	ND		10.0	9.25		ug/L		92	70 - 127
2-Butanone (MEK)	ND		20.0	18.9		ug/L		95	39 - 138
Chloroform	0.24	J	10.0	8.78		ug/L		85	72 - 127
1,1,1-Trichloroethane	0.46	J	10.0	8.87		ug/L		84	63 - 133
Carbon tetrachloride	ND		10.0	9.14		ug/L		91	55 - 150
Benzene	ND		10.0	8.88		ug/L		89	80 - 120
1,2-Dichloroethane	ND		10.0	8.16		ug/L		82	68 - 132
Trichloroethene	11	F1	10.0	17.7	F1	ug/L		68	73 - 120
1,2-Dichloropropane	ND		10.0	8.66		ug/L		87	76 - 124
Bromodichloromethane	ND		10.0	8.43		ug/L		84	66 - 130
cis-1,3-Dichloropropene	ND		10.0	8.08		ug/L		81	66 - 120
4-Methyl-2-pentanone (MIBK)	ND		20.0	17.5		ug/L		88	45 - 145
Toluene	ND		10.0	9.72		ug/L		97	80 - 123
trans-1,3-Dichloropropene	ND		10.0	8.31		ug/L		83	65 - 125
1,1,2-Trichloroethane	ND		10.0	9.75		ug/L		97	77 - 127
Tetrachloroethene	6.3		10.0	15.7		ug/L		94	70 - 135
2-Hexanone	ND		20.0	16.3		ug/L		82	25 - 132
Dibromochloromethane	ND		10.0	9.29		ug/L		93	60 - 140
1,2-Dibromoethane (EDB)	ND		10.0	9.85		ug/L		98	74 - 123
Chlorobenzene	ND		10.0	9.70		ug/L		97	80 - 120
1,1,1,2-Tetrachloroethane	ND		10.0	9.94		ug/L		99	63 - 140
Ethylbenzene	ND		10.0	9.63		ug/L		96	72 - 126
Xylenes, Total	ND		20.0	19.6		ug/L		98	76 - 128
Styrene	ND		10.0	10.2		ug/L		102	71 - 127
Bromoform	ND		10.0	8.83		ug/L		88	46 - 150
1,1,2,2-Tetrachloroethane	ND		10.0	9.96		ug/L		100	62 - 125
Acrylonitrile	ND		100	91.4		ug/L		91	30 - 140
1,4-Dioxane	ND		200	231		ug/L		116	10 - 160
		MS MS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	83		64 - 135						
Toluene-d8 (Surr)	97		71 - 118						
4-Bromofluorobenzene (Surr)	93		70 - 118						
Dibromofluoromethane (Surr)	92		70 - 128						

QC Sample Results

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

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

Lab Sample ID: 180-48181-2 MSD

Matrix: Water

Analysis Batch: 155766

Client Sample ID: HD-MW-147A-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	ND		10.0	10.4		ug/L		104	50 - 139	1	35
Vinyl chloride	ND		10.0	9.13		ug/L		91	53 - 138	4	35
Bromomethane	ND		10.0	10.4		ug/L		104	33 - 150	3	35
Chloroethane	ND		10.0	8.27		ug/L		83	36 - 142	0	35
1,1-Dichloroethene	0.53	J	10.0	8.89		ug/L		84	65 - 136	5	35
Acetone	ND		20.0	20.6		ug/L		103	22 - 150	14	35
Carbon disulfide	ND		10.0	7.61		ug/L		76	54 - 132	7	35
Methylene Chloride	ND		10.0	8.98		ug/L		90	63 - 129	5	35
trans-1,2-Dichloroethene	ND		10.0	8.78		ug/L		88	73 - 126	2	35
Methyl tert-butyl ether	ND		10.0	9.07		ug/L		91	64 - 123	4	35
1,1-Dichloroethane	0.14	J	10.0	8.56		ug/L		84	73 - 126	0	35
cis-1,2-Dichloroethene	11	F1	10.0	17.2	F1	ug/L		66	70 - 120	2	35
Bromochloromethane	ND		10.0	10.3		ug/L		103	70 - 127	10	35
2-Butanone (MEK)	ND		20.0	20.2		ug/L		101	39 - 138	6	35
Chloroform	0.24	J	10.0	8.93		ug/L		87	72 - 127	2	35
1,1,1-Trichloroethane	0.46	J	10.0	8.73		ug/L		83	63 - 133	2	35
Carbon tetrachloride	ND		10.0	8.74		ug/L		87	55 - 150	4	35
Benzene	ND		10.0	9.12		ug/L		91	80 - 120	3	32
1,2-Dichloroethane	ND		10.0	8.55		ug/L		85	68 - 132	5	32
Trichloroethene	11	F1	10.0	17.6	F1	ug/L		67	73 - 120	0	35
1,2-Dichloropropane	ND		10.0	9.06		ug/L		91	76 - 124	4	34
Bromodichloromethane	ND		10.0	8.39		ug/L		84	66 - 130	1	35
cis-1,3-Dichloropropene	ND		10.0	8.65		ug/L		87	66 - 120	7	35
4-Methyl-2-pentanone (MIBK)	ND		20.0	18.1		ug/L		90	45 - 145	3	35
Toluene	ND		10.0	9.70		ug/L		97	80 - 123	0	35
trans-1,3-Dichloropropene	ND		10.0	8.65		ug/L		87	65 - 125	4	35
1,1,2-Trichloroethane	ND		10.0	9.88		ug/L		99	77 - 127	1	35
Tetrachloroethene	6.3		10.0	15.4		ug/L		91	70 - 135	2	35
2-Hexanone	ND		20.0	17.9		ug/L		90	25 - 132	9	35
Dibromochloromethane	ND		10.0	9.32		ug/L		93	60 - 140	0	35
1,2-Dibromoethane (EDB)	ND		10.0	10.1		ug/L		101	74 - 123	2	35
Chlorobenzene	ND		10.0	9.85		ug/L		99	80 - 120	2	29
1,1,1,2-Tetrachloroethane	ND		10.0	9.72		ug/L		97	63 - 140	2	34
Ethylbenzene	ND		10.0	9.59		ug/L		96	72 - 126	0	33
Xylenes, Total	ND		20.0	19.4		ug/L		97	76 - 128	1	32
Styrene	ND		10.0	10.3		ug/L		103	71 - 127	1	34
Bromoform	ND		10.0	9.28		ug/L		93	46 - 150	5	35
1,1,2,2-Tetrachloroethane	ND		10.0	9.80		ug/L		98	62 - 125	2	35
Acrylonitrile	ND		100	93.3		ug/L		93	30 - 140	2	35
1,4-Dioxane	ND		200	247		ug/L		123	10 - 160	6	35

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	85		64 - 135
Toluene-d8 (Surr)	98		71 - 118
4-Bromofluorobenzene (Surr)	93		70 - 118
Dibromofluoromethane (Surr)	93		70 - 128

QC Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

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

Lab Sample ID: MB 180-155869/5
Matrix: Water
Analysis Batch: 155869

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.28	ug/L			10/05/15 11:25	1
Vinyl chloride	ND		1.0	0.23	ug/L			10/05/15 11:25	1
Bromomethane	ND		1.0	0.31	ug/L			10/05/15 11:25	1
Chloroethane	ND		1.0	0.21	ug/L			10/05/15 11:25	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/05/15 11:25	1
Acetone	ND		5.0	2.5	ug/L			10/05/15 11:25	1
Carbon disulfide	ND		1.0	0.21	ug/L			10/05/15 11:25	1
Methylene Chloride	ND		1.0	0.13	ug/L			10/05/15 11:25	1
trans-1,2-Dichloroethene	ND		1.0	0.17	ug/L			10/05/15 11:25	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			10/05/15 11:25	1
1,1-Dichloroethane	ND		1.0	0.12	ug/L			10/05/15 11:25	1
cis-1,2-Dichloroethene	ND		1.0	0.24	ug/L			10/05/15 11:25	1
Bromochloromethane	ND		1.0	0.18	ug/L			10/05/15 11:25	1
2-Butanone (MEK)	ND		5.0	0.55	ug/L			10/05/15 11:25	1
Chloroform	ND		1.0	0.17	ug/L			10/05/15 11:25	1
1,1,1-Trichloroethane	ND		1.0	0.29	ug/L			10/05/15 11:25	1
Carbon tetrachloride	ND		1.0	0.14	ug/L			10/05/15 11:25	1
Benzene	ND		1.0	0.11	ug/L			10/05/15 11:25	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/05/15 11:25	1
Trichloroethene	ND		1.0	0.14	ug/L			10/05/15 11:25	1
1,2-Dichloropropane	ND		1.0	0.095	ug/L			10/05/15 11:25	1
Bromodichloromethane	ND		1.0	0.13	ug/L			10/05/15 11:25	1
cis-1,3-Dichloropropene	ND		1.0	0.19	ug/L			10/05/15 11:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.53	ug/L			10/05/15 11:25	1
Toluene	ND		1.0	0.15	ug/L			10/05/15 11:25	1
trans-1,3-Dichloropropene	ND		1.0	0.15	ug/L			10/05/15 11:25	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/05/15 11:25	1
Tetrachloroethene	ND		1.0	0.15	ug/L			10/05/15 11:25	1
2-Hexanone	ND		5.0	0.16	ug/L			10/05/15 11:25	1
Dibromochloromethane	ND		1.0	0.14	ug/L			10/05/15 11:25	1
1,2-Dibromoethane (EDB)	ND		1.0	0.18	ug/L			10/05/15 11:25	1
Chlorobenzene	ND		1.0	0.14	ug/L			10/05/15 11:25	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			10/05/15 11:25	1
Ethylbenzene	ND		1.0	0.23	ug/L			10/05/15 11:25	1
Xylenes, Total	ND		3.0	0.49	ug/L			10/05/15 11:25	1
Styrene	ND		1.0	0.097	ug/L			10/05/15 11:25	1
Bromoform	ND		1.0	0.19	ug/L			10/05/15 11:25	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/05/15 11:25	1
Acrylonitrile	ND		20	0.55	ug/L			10/05/15 11:25	1
1,4-Dioxane	ND		200	34	ug/L			10/05/15 11:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		64 - 135		10/05/15 11:25	1
Toluene-d8 (Surr)	99		71 - 118		10/05/15 11:25	1
4-Bromofluorobenzene (Surr)	88		70 - 118		10/05/15 11:25	1
Dibromofluoromethane (Surr)	105		70 - 128		10/05/15 11:25	1

TestAmerica Pittsburgh

QC Sample Results

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

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

Lab Sample ID: LCS 180-155869/7

Matrix: Water

Analysis Batch: 155869

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	10.0	12.9		ug/L		129	50 - 139
Vinyl chloride	10.0	10.9		ug/L		109	53 - 138
Bromomethane	10.0	8.96		ug/L		90	33 - 150
Chloroethane	10.0	10.8		ug/L		108	36 - 142
1,1-Dichloroethene	10.0	9.60		ug/L		96	65 - 136
Acetone	20.0	23.0		ug/L		115	22 - 150
Carbon disulfide	10.0	9.74		ug/L		97	54 - 132
Methylene Chloride	10.0	9.67		ug/L		97	63 - 129
trans-1,2-Dichloroethene	10.0	9.82		ug/L		98	73 - 126
Methyl tert-butyl ether	10.0	9.56		ug/L		96	64 - 123
1,1-Dichloroethane	10.0	10.7		ug/L		107	73 - 126
cis-1,2-Dichloroethene	10.0	9.33		ug/L		93	70 - 120
Bromochloromethane	10.0	11.1		ug/L		111	70 - 127
2-Butanone (MEK)	20.0	22.5		ug/L		113	39 - 138
Chloroform	10.0	9.92		ug/L		99	72 - 127
1,1,1-Trichloroethane	10.0	9.71		ug/L		97	63 - 133
Carbon tetrachloride	10.0	11.2		ug/L		112	55 - 150
Benzene	10.0	10.9		ug/L		109	80 - 120
1,2-Dichloroethane	10.0	10.6		ug/L		106	68 - 132
Trichloroethene	10.0	11.7		ug/L		117	73 - 120
1,2-Dichloropropane	10.0	11.3		ug/L		113	76 - 124
Bromodichloromethane	10.0	9.91		ug/L		99	66 - 130
cis-1,3-Dichloropropene	10.0	10.6		ug/L		106	66 - 120
4-Methyl-2-pentanone (MIBK)	20.0	23.0		ug/L		115	45 - 145
Toluene	10.0	10.7		ug/L		107	80 - 123
trans-1,3-Dichloropropene	10.0	10.3		ug/L		103	65 - 125
1,1,2-Trichloroethane	10.0	10.8		ug/L		108	77 - 127
Tetrachloroethene	10.0	11.8		ug/L		118	70 - 135
2-Hexanone	20.0	25.9		ug/L		130	25 - 132
Dibromochloromethane	10.0	11.6		ug/L		116	60 - 140
1,2-Dibromoethane (EDB)	10.0	10.8		ug/L		108	74 - 123
Chlorobenzene	10.0	10.9		ug/L		109	80 - 120
1,1,1,2-Tetrachloroethane	10.0	11.7		ug/L		117	63 - 140
Ethylbenzene	10.0	10.7		ug/L		107	72 - 126
Xylenes, Total	20.0	21.3		ug/L		107	76 - 128
Styrene	10.0	11.4		ug/L		114	71 - 127
Bromoform	10.0	12.6		ug/L		126	46 - 150
1,1,2,2-Tetrachloroethane	10.0	10.5		ug/L		105	62 - 125
Acrylonitrile	100	128		ug/L		128	30 - 140
1,4-Dioxane	200	207		ug/L		103	10 - 160

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		64 - 135
Toluene-d8 (Surr)	111		71 - 118
4-Bromofluorobenzene (Surr)	101		70 - 118
Dibromofluoromethane (Surr)	106		70 - 128

QC Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

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

Lab Sample ID: MB 180-155884/4
Matrix: Water
Analysis Batch: 155884

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.28	ug/L			10/05/15 11:57	1
Vinyl chloride	ND		1.0	0.23	ug/L			10/05/15 11:57	1
Bromomethane	ND		1.0	0.31	ug/L			10/05/15 11:57	1
Chloroethane	ND		1.0	0.21	ug/L			10/05/15 11:57	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/05/15 11:57	1
Acetone	ND		5.0	2.5	ug/L			10/05/15 11:57	1
Carbon disulfide	ND		1.0	0.21	ug/L			10/05/15 11:57	1
Methylene Chloride	ND		1.0	0.13	ug/L			10/05/15 11:57	1
trans-1,2-Dichloroethene	ND		1.0	0.17	ug/L			10/05/15 11:57	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			10/05/15 11:57	1
1,1-Dichloroethane	ND		1.0	0.12	ug/L			10/05/15 11:57	1
cis-1,2-Dichloroethene	ND		1.0	0.24	ug/L			10/05/15 11:57	1
Bromochloromethane	ND		1.0	0.18	ug/L			10/05/15 11:57	1
2-Butanone (MEK)	ND		5.0	0.55	ug/L			10/05/15 11:57	1
Chloroform	ND		1.0	0.17	ug/L			10/05/15 11:57	1
1,1,1-Trichloroethane	ND		1.0	0.29	ug/L			10/05/15 11:57	1
Carbon tetrachloride	ND		1.0	0.14	ug/L			10/05/15 11:57	1
Benzene	ND		1.0	0.11	ug/L			10/05/15 11:57	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/05/15 11:57	1
Trichloroethene	ND		1.0	0.14	ug/L			10/05/15 11:57	1
1,2-Dichloropropane	ND		1.0	0.095	ug/L			10/05/15 11:57	1
Bromodichloromethane	ND		1.0	0.13	ug/L			10/05/15 11:57	1
cis-1,3-Dichloropropene	ND		1.0	0.19	ug/L			10/05/15 11:57	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.53	ug/L			10/05/15 11:57	1
Toluene	ND		1.0	0.15	ug/L			10/05/15 11:57	1
trans-1,3-Dichloropropene	ND		1.0	0.15	ug/L			10/05/15 11:57	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/05/15 11:57	1
Tetrachloroethene	ND		1.0	0.15	ug/L			10/05/15 11:57	1
2-Hexanone	ND		5.0	0.16	ug/L			10/05/15 11:57	1
Dibromochloromethane	ND		1.0	0.14	ug/L			10/05/15 11:57	1
1,2-Dibromoethane (EDB)	ND		1.0	0.18	ug/L			10/05/15 11:57	1
Chlorobenzene	ND		1.0	0.14	ug/L			10/05/15 11:57	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			10/05/15 11:57	1
Ethylbenzene	ND		1.0	0.23	ug/L			10/05/15 11:57	1
Xylenes, Total	ND		3.0	0.49	ug/L			10/05/15 11:57	1
Styrene	ND		1.0	0.097	ug/L			10/05/15 11:57	1
Bromoform	ND		1.0	0.19	ug/L			10/05/15 11:57	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/05/15 11:57	1
Acrylonitrile	ND		20	0.55	ug/L			10/05/15 11:57	1
1,4-Dioxane	ND		200	34	ug/L			10/05/15 11:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		64 - 135		10/05/15 11:57	1
Toluene-d8 (Surr)	91		71 - 118		10/05/15 11:57	1
4-Bromofluorobenzene (Surr)	88		70 - 118		10/05/15 11:57	1
Dibromofluoromethane (Surr)	105		70 - 128		10/05/15 11:57	1

QC Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

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

Lab Sample ID: LCS 180-155884/7
Matrix: Water
Analysis Batch: 155884

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	10.3		ug/L		103	50 - 139
Vinyl chloride	10.0	9.58		ug/L		96	53 - 138
Bromomethane	10.0	9.95		ug/L		100	33 - 150
Chloroethane	10.0	8.88		ug/L		89	36 - 142
1,1-Dichloroethene	10.0	8.87		ug/L		89	65 - 136
Acetone	20.0	17.7		ug/L		88	22 - 150
Carbon disulfide	10.0	8.59		ug/L		86	54 - 132
Methylene Chloride	10.0	8.64		ug/L		86	63 - 129
trans-1,2-Dichloroethene	10.0	8.88		ug/L		89	73 - 126
Methyl tert-butyl ether	10.0	8.16		ug/L		82	64 - 123
1,1-Dichloroethane	10.0	8.25		ug/L		83	73 - 126
cis-1,2-Dichloroethene	10.0	8.60		ug/L		86	70 - 120
Bromochloromethane	10.0	9.33		ug/L		93	70 - 127
2-Butanone (MEK)	20.0	17.9		ug/L		89	39 - 138
Chloroform	10.0	8.43		ug/L		84	72 - 127
1,1,1-Trichloroethane	10.0	8.58		ug/L		86	63 - 133
Carbon tetrachloride	10.0	9.51		ug/L		95	55 - 150
Benzene	10.0	8.97		ug/L		90	80 - 120
1,2-Dichloroethane	10.0	8.12		ug/L		81	68 - 132
Trichloroethene	10.0	9.53		ug/L		95	73 - 120
1,2-Dichloropropane	10.0	8.90		ug/L		89	76 - 124
Bromodichloromethane	10.0	8.82		ug/L		88	66 - 130
cis-1,3-Dichloropropene	10.0	8.07		ug/L		81	66 - 120
4-Methyl-2-pentanone (MIBK)	20.0	16.0		ug/L		80	45 - 145
Toluene	10.0	9.74		ug/L		97	80 - 123
trans-1,3-Dichloropropene	10.0	8.30		ug/L		83	65 - 125
1,1,2-Trichloroethane	10.0	9.41		ug/L		94	77 - 127
Tetrachloroethene	10.0	10.3		ug/L		103	70 - 135
2-Hexanone	20.0	15.4		ug/L		77	25 - 132
Dibromochloromethane	10.0	9.52		ug/L		95	60 - 140
1,2-Dibromoethane (EDB)	10.0	9.34		ug/L		93	74 - 123
Chlorobenzene	10.0	9.61		ug/L		96	80 - 120
1,1,1,2-Tetrachloroethane	10.0	9.60		ug/L		96	63 - 140
Ethylbenzene	10.0	9.77		ug/L		98	72 - 126
Xylenes, Total	20.0	19.6		ug/L		98	76 - 128
Styrene	10.0	10.1		ug/L		101	71 - 127
Bromoform	10.0	9.47		ug/L		95	46 - 150
1,1,2,2-Tetrachloroethane	10.0	9.54		ug/L		95	62 - 125
Acrylonitrile	100	90.6		ug/L		91	30 - 140
1,4-Dioxane	200	213		ug/L		107	10 - 160

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	82		64 - 135
Toluene-d8 (Surr)	99		71 - 118
4-Bromofluorobenzene (Surr)	90		70 - 118
Dibromofluoromethane (Surr)	91		70 - 128

QC Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

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

Lab Sample ID: MB 180-156037/6
Matrix: Water
Analysis Batch: 156037

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.28	ug/L			10/06/15 13:50	1
Vinyl chloride	ND		1.0	0.23	ug/L			10/06/15 13:50	1
Bromomethane	ND		1.0	0.31	ug/L			10/06/15 13:50	1
Chloroethane	ND		1.0	0.21	ug/L			10/06/15 13:50	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/06/15 13:50	1
Acetone	ND		5.0	2.5	ug/L			10/06/15 13:50	1
Carbon disulfide	ND		1.0	0.21	ug/L			10/06/15 13:50	1
Methylene Chloride	ND		1.0	0.13	ug/L			10/06/15 13:50	1
trans-1,2-Dichloroethene	ND		1.0	0.17	ug/L			10/06/15 13:50	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			10/06/15 13:50	1
1,1-Dichloroethane	ND		1.0	0.12	ug/L			10/06/15 13:50	1
cis-1,2-Dichloroethene	ND		1.0	0.24	ug/L			10/06/15 13:50	1
Bromochloromethane	ND		1.0	0.18	ug/L			10/06/15 13:50	1
2-Butanone (MEK)	ND		5.0	0.55	ug/L			10/06/15 13:50	1
Chloroform	ND		1.0	0.17	ug/L			10/06/15 13:50	1
1,1,1-Trichloroethane	ND		1.0	0.29	ug/L			10/06/15 13:50	1
Carbon tetrachloride	ND		1.0	0.14	ug/L			10/06/15 13:50	1
Benzene	ND		1.0	0.11	ug/L			10/06/15 13:50	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/06/15 13:50	1
Trichloroethene	ND		1.0	0.14	ug/L			10/06/15 13:50	1
1,2-Dichloropropane	ND		1.0	0.095	ug/L			10/06/15 13:50	1
Bromodichloromethane	ND		1.0	0.13	ug/L			10/06/15 13:50	1
cis-1,3-Dichloropropene	ND		1.0	0.19	ug/L			10/06/15 13:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.53	ug/L			10/06/15 13:50	1
Toluene	ND		1.0	0.15	ug/L			10/06/15 13:50	1
trans-1,3-Dichloropropene	ND		1.0	0.15	ug/L			10/06/15 13:50	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/06/15 13:50	1
Tetrachloroethene	ND		1.0	0.15	ug/L			10/06/15 13:50	1
2-Hexanone	ND		5.0	0.16	ug/L			10/06/15 13:50	1
Dibromochloromethane	ND		1.0	0.14	ug/L			10/06/15 13:50	1
1,2-Dibromoethane (EDB)	ND		1.0	0.18	ug/L			10/06/15 13:50	1
Chlorobenzene	ND		1.0	0.14	ug/L			10/06/15 13:50	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			10/06/15 13:50	1
Ethylbenzene	ND		1.0	0.23	ug/L			10/06/15 13:50	1
Xylenes, Total	ND		3.0	0.49	ug/L			10/06/15 13:50	1
Styrene	ND		1.0	0.097	ug/L			10/06/15 13:50	1
Bromoform	ND		1.0	0.19	ug/L			10/06/15 13:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/06/15 13:50	1
Acrylonitrile	ND		20	0.55	ug/L			10/06/15 13:50	1
1,4-Dioxane	ND		200	34	ug/L			10/06/15 13:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		64 - 135		10/06/15 13:50	1
Toluene-d8 (Surr)	93		71 - 118		10/06/15 13:50	1
4-Bromofluorobenzene (Surr)	88		70 - 118		10/06/15 13:50	1
Dibromofluoromethane (Surr)	105		70 - 128		10/06/15 13:50	1

QC Sample Results

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

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

Lab Sample ID: LCS 180-156037/11

Matrix: Water

Analysis Batch: 156037

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	9.24		ug/L		92	50 - 139
Vinyl chloride	10.0	8.06		ug/L		81	53 - 138
Bromomethane	10.0	8.51		ug/L		85	33 - 150
Chloroethane	10.0	6.73		ug/L		67	36 - 142
1,1-Dichloroethene	10.0	9.30		ug/L		93	65 - 136
Acetone	20.0	18.6		ug/L		93	22 - 150
Carbon disulfide	10.0	9.90		ug/L		99	54 - 132
Methylene Chloride	10.0	9.89		ug/L		99	63 - 129
trans-1,2-Dichloroethene	10.0	9.43		ug/L		94	73 - 126
Methyl tert-butyl ether	10.0	9.32		ug/L		93	64 - 123
1,1-Dichloroethane	10.0	8.69		ug/L		87	73 - 126
cis-1,2-Dichloroethene	10.0	9.50		ug/L		95	70 - 120
Bromochloromethane	10.0	10.5		ug/L		105	70 - 127
2-Butanone (MEK)	20.0	20.7		ug/L		103	39 - 138
Chloroform	10.0	8.86		ug/L		89	72 - 127
1,1,1-Trichloroethane	10.0	8.97		ug/L		90	63 - 133
Carbon tetrachloride	10.0	9.48		ug/L		95	55 - 150
Benzene	10.0	9.28		ug/L		93	80 - 120
1,2-Dichloroethane	10.0	8.53		ug/L		85	68 - 132
Trichloroethene	10.0	10.1		ug/L		101	73 - 120
1,2-Dichloropropane	10.0	9.17		ug/L		92	76 - 124
Bromodichloromethane	10.0	9.23		ug/L		92	66 - 130
cis-1,3-Dichloropropene	10.0	8.67		ug/L		87	66 - 120
4-Methyl-2-pentanone (MIBK)	20.0	20.7		ug/L		103	45 - 145
Toluene	10.0	10.3		ug/L		103	80 - 123
trans-1,3-Dichloropropene	10.0	9.13		ug/L		91	65 - 125
1,1,2-Trichloroethane	10.0	10.4		ug/L		104	77 - 127
Tetrachloroethene	10.0	10.8		ug/L		108	70 - 135
2-Hexanone	20.0	21.2		ug/L		106	25 - 132
Dibromochloromethane	10.0	10.9		ug/L		109	60 - 140
1,2-Dibromoethane (EDB)	10.0	10.6		ug/L		106	74 - 123
Chlorobenzene	10.0	10.6		ug/L		106	80 - 120
1,1,1,2-Tetrachloroethane	10.0	10.6		ug/L		106	63 - 140
Ethylbenzene	10.0	10.7		ug/L		107	72 - 126
Xylenes, Total	20.0	21.6		ug/L		108	76 - 128
Styrene	10.0	11.2		ug/L		112	71 - 127
Bromoform	10.0	11.0		ug/L		110	46 - 150
1,1,2,2-Tetrachloroethane	10.0	10.7		ug/L		107	62 - 125
Acrylonitrile	100	99.4		ug/L		99	30 - 140
1,4-Dioxane	200	234		ug/L		117	10 - 160

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		64 - 135
Toluene-d8 (Surr)	100		71 - 118
4-Bromofluorobenzene (Surr)	96		70 - 118
Dibromofluoromethane (Surr)	91		70 - 128

QC Association Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

GC/MS VOA

Analysis Batch: 155766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-48181-2	HD-MW-147A-0/1-0	Total/NA	Water	8260C	
180-48181-2 MS	HD-MW-147A-0/1-0	Total/NA	Water	8260C	
180-48181-2 MSD	HD-MW-147A-0/1-0	Total/NA	Water	8260C	
180-48181-9	HD-QC9-0/1-2	Total/NA	Water	8260C	
LCS 180-155766/8	Lab Control Sample	Total/NA	Water	8260C	
MB 180-155766/5	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 155869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-48181-7	HD-MW-37D-0/1-0	Total/NA	Water	8260C	
180-48181-8	HD-QC3-0/1-1	Total/NA	Water	8260C	
LCS 180-155869/7	Lab Control Sample	Total/NA	Water	8260C	
MB 180-155869/5	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 155884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-48181-4 - DL	HD-MW-93D-0/1-0	Total/NA	Water	8260C	
180-48181-5	HD-MW-75S-0/1-0	Total/NA	Water	8260C	
180-48181-6	HD-MW-75D-0/1-0	Total/NA	Water	8260C	
LCS 180-155884/7	Lab Control Sample	Total/NA	Water	8260C	
MB 180-155884/4	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 156037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-48181-1	HD-MW-18S-0/1-0	Total/NA	Water	8260C	
180-48181-3 - DL	HD-MW-93S-0/1-0	Total/NA	Water	8260C	
180-48181-3	HD-MW-93S-0/1-0	Total/NA	Water	8260C	
180-48181-4	HD-MW-93D-0/1-0	Total/NA	Water	8260C	
180-48181-5 - DL	HD-MW-75S-0/1-0	Total/NA	Water	8260C	
180-48181-6 - DL	HD-MW-75D-0/1-0	Total/NA	Water	8260C	
180-48181-8 - DL	HD-QC3-0/1-1	Total/NA	Water	8260C	
LCS 180-156037/11	Lab Control Sample	Total/NA	Water	8260C	
MB 180-156037/6	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

Client Sample ID: HD-MW-18S-0/1-0

Date Collected: 09/25/15 08:20

Date Received: 09/26/15 09:00

Lab Sample ID: 180-48181-1

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	156037	10/06/15 17:08	DLF	TAL PIT
	Instrument ID: CHHP5									

Client Sample ID: HD-MW-147A-0/1-0

Date Collected: 09/25/15 10:05

Date Received: 09/26/15 09:00

Lab Sample ID: 180-48181-2

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	155766	10/03/15 13:50	DLF	TAL PIT
	Instrument ID: CHHP5									

Client Sample ID: HD-MW-93S-0/1-0

Date Collected: 09/25/15 12:25

Date Received: 09/26/15 09:00

Lab Sample ID: 180-48181-3

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	DL	5	5 mL	5 mL	156037	10/06/15 17:32	DLF	TAL PIT
	Instrument ID: CHHP5									
Total/NA	Analysis	8260C		1	5 mL	5 mL	156037	10/06/15 20:21	DLF	TAL PIT
	Instrument ID: CHHP5									

Client Sample ID: HD-MW-93D-0/1-0

Date Collected: 09/25/15 13:10

Date Received: 09/26/15 09:00

Lab Sample ID: 180-48181-4

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	DL	10	5 mL	5 mL	155884	10/05/15 17:35	DLF	TAL PIT
	Instrument ID: CHHP5									
Total/NA	Analysis	8260C		1	5 mL	5 mL	156037	10/06/15 21:09	DLF	TAL PIT
	Instrument ID: CHHP5									

Client Sample ID: HD-MW-75S-0/1-0

Date Collected: 09/25/15 13:47

Date Received: 09/26/15 09:00

Lab Sample ID: 180-48181-5

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		50	5 mL	5 mL	155884	10/05/15 17:59	DLF	TAL PIT
	Instrument ID: CHHP5									
Total/NA	Analysis	8260C	DL	500	5 mL	5 mL	156037	10/06/15 17:56	DLF	TAL PIT
	Instrument ID: CHHP5									

TestAmerica Pittsburgh

Lab Chronicle

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

Client Sample ID: HD-MW-75D-0/1-0
Date Collected: 09/25/15 11:12
Date Received: 09/26/15 09:00

Lab Sample ID: 180-48181-6
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		50	5 mL	5 mL	155884	10/05/15 18:23	DLF	TAL PIT
Instrument ID: CHHP5										
Total/NA	Analysis	8260C	DL	500	5 mL	5 mL	156037	10/06/15 18:44	DLF	TAL PIT
Instrument ID: CHHP5										

Client Sample ID: HD-MW-37D-0/1-0
Date Collected: 09/25/15 12:37
Date Received: 09/26/15 09:00

Lab Sample ID: 180-48181-7
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		40	5 mL	5 mL	155869	10/05/15 17:46	DLF	TAL PIT
Instrument ID: CHHP6										

Client Sample ID: HD-QC3-0/1-1
Date Collected: 09/25/15 08:00
Date Received: 09/26/15 09:00

Lab Sample ID: 180-48181-8
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	DL	5	5 mL	5 mL	156037	10/06/15 19:08	DLF	TAL PIT
Instrument ID: CHHP5										
Total/NA	Analysis	8260C		1	5 mL	5 mL	155869	10/05/15 18:10	DLF	TAL PIT
Instrument ID: CHHP6										

Client Sample ID: HD-QC9-0/1-2
Date Collected: 09/25/15 12:00
Date Received: 09/26/15 09:00

Lab Sample ID: 180-48181-9
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	155766	10/03/15 14:14	DLF	TAL PIT
Instrument ID: CHHP5										

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Analysis

DLF = Donald Ferguson

Certification Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

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	04-30-16

Method Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48181-1

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: 180-48181-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-48181-1	HD-MW-18S-0/1-0	Water	09/25/15 08:20	09/26/15 09:00
180-48181-2	HD-MW-147A-0/1-0	Water	09/25/15 10:05	09/26/15 09:00
180-48181-3	HD-MW-93S-0/1-0	Water	09/25/15 12:25	09/26/15 09:00
180-48181-4	HD-MW-93D-0/1-0	Water	09/25/15 13:10	09/26/15 09:00
180-48181-5	HD-MW-75S-0/1-0	Water	09/25/15 13:47	09/26/15 09:00
180-48181-6	HD-MW-75D-0/1-0	Water	09/25/15 11:12	09/26/15 09:00
180-48181-7	HD-MW-37D-0/1-0	Water	09/25/15 12:37	09/26/15 09:00
180-48181-8	HD-QC3-0/1-1	Water	09/25/15 08:00	09/26/15 09:00
180-48181-9	HD-QC9-0/1-2	Water	09/25/15 12:00	09/26/15 09:00

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1

SDG No.: _____

Instrument ID: CHHP5 Analysis Batch Number: 151868Lab Sample ID: IC 180-151868/6 Client Sample ID: _____Date Analyzed: 08/26/15 15:04 Lab File ID: 50826006.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	2.65	Incomplete Integration	fergusond	08/27/15 10:07
Acetone	3.45	Peak Tail	fergusond	08/27/15 10:07

Lab Sample ID: IC 180-151868/12 Client Sample ID: _____Date Analyzed: 08/26/15 17:04 Lab File ID: 50826012.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.03	Incomplete Integration	fergusond	08/27/15 10:34

Lab Sample ID: IC 180-151868/14 Client Sample ID: _____Date Analyzed: 08/26/15 17:52 Lab File ID: 50826014.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	2.70	Incomplete Integration	fergusond	08/27/15 10:43

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1

SDG No.: _____

Instrument ID: CHHP5 Analysis Batch Number: 155766Lab Sample ID: CCVIS 180-155766/2 Client Sample ID: _____Date Analyzed: 10/03/15 12:18 Lab File ID: 51003002.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.04	Incomplete Integration	fergusond	10/03/15 12:35

Lab Sample ID: 180-48181-2 Client Sample ID: HD-MW-147A-0/1-0Date Analyzed: 10/03/15 13:50 Lab File ID: 51003006.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethane	5.21	Missed Peak	fergusond	10/03/15 14:42

Lab Sample ID: 180-48181-9 Client Sample ID: HD-QC9-0/1-2Date Analyzed: 10/03/15 14:14 Lab File ID: 51003007.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.46	Missed Peak	fergusond	10/03/15 14:43

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1

SDG No.: _____

Instrument ID: CHHP5 Analysis Batch Number: 155884

Lab Sample ID: LCS 180-155884/7 Client Sample ID: _____

Date Analyzed: 10/05/15 13:34 Lab File ID: 51005007.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.04	Incomplete Integration	fergusond	10/05/15 13:53

Lab Sample ID: 180-48181-4 DL Client Sample ID: HD-MW-93D-0/1-0 DL

Date Analyzed: 10/05/15 17:35 Lab File ID: 51005017.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	3.36	Incomplete Integration	fergusond	10/06/15 08:06

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1

SDG No.: _____

Instrument ID: CHHP5 Analysis Batch Number: 156037Lab Sample ID: CCVIS 180-156037/2 Client Sample ID: _____Date Analyzed: 10/06/15 12:41 Lab File ID: 51006002.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	2.70	Incomplete Integration	fergusond	10/06/15 13:21

Lab Sample ID: 180-48181-1 Client Sample ID: HD-MW-18S-0/1-0Date Analyzed: 10/06/15 17:08 Lab File ID: 51006013.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.77	Incomplete Integration	fergusond	10/07/15 07:48
Methyl tert-butyl ether	4.57	Incomplete Integration	fergusond	10/07/15 07:48

Lab Sample ID: 180-48181-3 DL Client Sample ID: HD-MW-93S-0/1-0 DLDate Analyzed: 10/06/15 17:32 Lab File ID: 51006014.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	3.34	Missed Peak	fergusond	10/07/15 07:52

Lab Sample ID: 180-48181-8 DL Client Sample ID: HD-QC3-0/1-1 DLDate Analyzed: 10/06/15 19:08 Lab File ID: 51006018.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	3.40	Missed Peak	fergusond	10/07/15 07:56

Lab Sample ID: 180-48181-3 Client Sample ID: HD-MW-93S-0/1-0Date Analyzed: 10/06/15 20:21 Lab File ID: 51006021.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
trans-1,2-Dichloroethene	4.56	Incomplete Integration	fergusond	10/07/15 08:06

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1

SDG No.: _____

Instrument ID: CHHP5 Analysis Batch Number: 156037

Lab Sample ID: 180-48181-4 Client Sample ID: HD-MW-93D-0/1-0

Date Analyzed: 10/06/15 21:09 Lab File ID: 51006023.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroform	6.39	Incomplete Integration	fergusond	10/07/15 08:10

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1

SDG No.: _____

Instrument ID: CHHP6 Analysis Batch Number: 149469Lab Sample ID: IC 180-149469/4 Client Sample ID: _____Date Analyzed: 07/31/15 14:00 Lab File ID: 60731004.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.23	Incomplete Integration	fergusond	08/03/15 10:46
1,4-Dioxane	8.03	Incomplete Integration	fergusond	08/03/15 10:46

Lab Sample ID: ICIS 180-149469/5 Client Sample ID: _____Date Analyzed: 07/31/15 14:24 Lab File ID: 60731005.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.03	Peak Tail	fergusond	08/03/15 10:47

Lab Sample ID: IC 180-149469/7 Client Sample ID: _____Date Analyzed: 07/31/15 15:13 Lab File ID: 60731007.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.03	Peak Tail	fergusond	08/03/15 10:27

Lab Sample ID: IC 180-149469/8 Client Sample ID: _____Date Analyzed: 07/31/15 15:37 Lab File ID: 60731008.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.03	Peak Tail	fergusond	08/03/15 10:13

Lab Sample ID: IC 180-149469/9 Client Sample ID: _____Date Analyzed: 07/31/15 16:01 Lab File ID: 60731009.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.03	Peak Tail	fergusond	08/03/15 10:06

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1

SDG No.: _____

Instrument ID: CHHP6 Analysis Batch Number: 149469Lab Sample ID: IC 180-149469/10 Client Sample ID: _____Date Analyzed: 07/31/15 16:25 Lab File ID: 60731010.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.03	Peak Tail	fergusond	08/03/15 10:08

Lab Sample ID: IC 180-149469/14 Client Sample ID: _____Date Analyzed: 07/31/15 18:02 Lab File ID: 60731014.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	2.68	Poor chromatography	fergusond	08/03/15 11:05
Acetone	3.42	Poor chromatography	fergusond	08/03/15 11:05
Acrylonitrile	4.51	Poor chromatography	fergusond	08/03/15 11:05
1,1,1-Trichloroethane	6.55	Poor chromatography	fergusond	08/03/15 11:05
Isobutyl alcohol	6.90	Poor chromatography	fergusond	08/03/15 11:05

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1

SDG No.: _____

Instrument ID: CHHP6 Analysis Batch Number: 155869Lab Sample ID: CCVIS 180-155869/2 Client Sample ID: _____Date Analyzed: 10/05/15 10:05 Lab File ID: 61005002.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.02	Incomplete Integration	fergusond	10/05/15 10:27

Lab Sample ID: 180-48181-8 Client Sample ID: HD-QC3-0/1-1Date Analyzed: 10/05/15 18:10 Lab File ID: 61005021.D GC Column: DB-624 ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethane	5.21	Incomplete Integration	fergusond	10/06/15 09:21
Chlorobenzene	10.43	Incomplete Integration	fergusond	10/06/15 09:21

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-48181-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VOA8260INT_00039	08/02/15	07/02/15	Methanol, Lot 85233	10 mL	VOA8260INTRES_00067	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_00067	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
VOA8260INT_00040	09/03/15	08/03/15	Methanol, Lot 85233	10 mL	VOA8260INTRES_00088	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_00088	07/31/19		Restek, Lot A0104742		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL
VOA8260INT_00042	10/11/15	09/11/15	Methanol, Lot 99494	10 mL	VOA8260INTRES_00068	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_00068	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_00039	08/02/15	07/02/15	Methanol, Lot 85233	100 mL	VOA8260SURRES_00066	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_00066	01/31/19		Restek, Lot A0100424		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VOA8260SURR_00040	09/03/15	08/03/15	Methanol, Lot 85233	100 mL	VOA8260SURRES_00067	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_00067	01/31/19		Restek, Lot A0100424		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VOA8260SURR_00042	10/11/15	09/11/15	Methanol, Lot 99494	100 mL	VOA8260SURRES_00077	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_00077	01/31/19		Restek, Lot A0101000		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-48181-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VOA8260VOA2ND_00146	10/09/15	10/02/15	Methanol, Lot 99494	10 mL	VOA8260GAS2ND_00115	0.1 mL	Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					VOA8260VOA2ND_00145	1 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_00115	04/30/18		Restek, Lot A0111273			(Purchased Reagent)	Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.VOA8260VOA2ND_00145	10/25/15	09/25/15	Methanol, Lot 99494	10 mL	VOA8260MEGA2_00037	1 mL	1,1,1,2-Tetrachloroethane	250 ug/mL
							1,1,1-Trichloroethane	250 ug/mL
							1,1,2,2-Tetrachloroethane	250 ug/mL
							1,1,2-Trichloroethane	250 ug/mL
							1,1-Dichloroethane	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-48181-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethene	250 ug/mL
							1,2-Dibromoethane (EDB)	250 ug/mL
							1,2-Dichloroethane	250 ug/mL
							1,2-Dichloropropane	250 ug/mL
							1,4-Dioxane	5000 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzene	250 ug/mL
							Bromochloromethane	250 ug/mL
							Bromodichloromethane	250 ug/mL
							Bromoform	250 ug/mL
							Carbon disulfide	250 ug/mL
							Carbon tetrachloride	250 ug/mL
							Chlorobenzene	250 ug/mL
							Chloroform	250 ug/mL
							cis-1,2-Dichloroethene	250 ug/mL
							cis-1,3-Dichloropropene	250 ug/mL
							Dibromochloromethane	250 ug/mL
							Ethylbenzene	250 ug/mL
							Methyl tert-butyl ether	250 ug/mL
							Methylene Chloride	250 ug/mL
							Styrene	250 ug/mL
							Tetrachloroethene	250 ug/mL
							Toluene	250 ug/mL
							trans-1,2-Dichloroethene	250 ug/mL
							trans-1,3-Dichloropropene	250 ug/mL
							Trichloroethene	250 ug/mL
							Xylenes, Total	500 ug/mL
..VOA8260MEGA2_00037	01/31/17		Restek, Lot A0108163			(Purchased Reagent)	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2-Dibromoethane (EDB)	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-48181-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromochloromethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
VOA8260VOAPRI_00134	08/03/15	07/27/15	Methanol, Lot 85233	10 mL	VOA8260GAS1ST_00110	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_00129	1 mL
					2-Hexanone	25 ug/mL		
					4-Methyl-2-pentanone (MIBK)	25 ug/mL		
					Acetone	25 ug/mL		
					1,1,1,2-Tetrachloroethane	25 ug/mL		
					1,1,1-Trichloroethane	25 ug/mL		
					1,1,2,2-Tetrachloroethane	25 ug/mL		
					1,1,2-Trichloro-1,2,2-trifluoroethane	25 ug/mL		
					1,1,2-Trichloroethane	25 ug/mL		
					1,1-Dichloroethane	25 ug/mL		
					1,1-Dichloroethene	25 ug/mL		
					1,1-Dichloropropene	25 ug/mL		
					1,2,3-Trichlorobenzene	25 ug/mL		
					1,2,3-Trichloropropane	25 ug/mL		
					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							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-48181-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methyl-2-propanol	250 ug/mL
							3-Chloro-1-propene	25 ug/mL
							4-Chlorotoluene	25 ug/mL
							4-Isopropyltoluene	25 ug/mL
							Acrylonitrile	250 ug/mL
							Benzene	25 ug/mL
							Bromobenzene	25 ug/mL
							Bromochloromethane	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon disulfide	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Cyclohexane	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Dibromomethane	25 ug/mL
							Ethyl ether	25 ug/mL
							Ethyl methacrylate	25 ug/mL
							Ethylbenzene	25 ug/mL
							Hexachlorobutadiene	25 ug/mL
							Hexane	25 ug/mL
							Iodomethane	25 ug/mL
							Isobutyl alcohol	625 ug/mL
							Isopropylbenzene	25 ug/mL
							m-Xylene & p-Xylene	25 ug/mL
							Methyl acetate	125 ug/mL
							Methyl tert-butyl ether	25 ug/mL
							Methylcyclohexane	25 ug/mL
							Methylene Chloride	25 ug/mL
							n-Butylbenzene	25 ug/mL
							n-Heptane	25 ug/mL
							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_00110	04/30/18		Restek, Lot A011070			(Purchased Reagent)	Bromomethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-48181-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.VOA8260VOAPRI_00129	08/07/15	07/07/15	Methanol, Lot 85233	10 mL	VOA8260KET1ST_00047	0.2 mL	2-Butanone (MEK)	250 ug/mL
							2-Hexanone	250 ug/mL
							4-Methyl-2-pentanone (MIBK)	250 ug/mL
							Acetone	250 ug/mL
							1,1,1,2-Tetrachloroethane	250 ug/mL
							1,1,1-Trichloroethane	250 ug/mL
					VOA8260MEGA1_00030	1 mL	1,1,2,2-Tetrachloroethane	250 ug/mL
					1,1,2-Trichloro-1,2,2-trifluoroethane		250 ug/mL	
					1,1,2-Trichloroethane		250 ug/mL	
					1,1-Dichloroethane		250 ug/mL	
					1,1-Dichloroethene		250 ug/mL	
					1,1-Dichloropropene		250 ug/mL	
					1,2,3-Trichlorobenzene		250 ug/mL	
					1,2,3-Trichloropropane		250 ug/mL	
					1,2,4-Trichlorobenzene		250 ug/mL	
					1,2,4-Trimethylbenzene		250 ug/mL	
					1,2-Dibromo-3-Chloropropane		250 ug/mL	
					1,2-Dibromoethane (EDB)		250 ug/mL	
					1,2-Dichlorobenzene		250 ug/mL	
					1,2-Dichloroethane		250 ug/mL	
					1,2-Dichloropropane		250 ug/mL	
					1,3,5-Trimethylbenzene		250 ug/mL	
					1,3-Dichlorobenzene		250 ug/mL	
					1,3-Dichloropropane		250 ug/mL	
					1,4-Dichlorobenzene		250 ug/mL	
					1,4-Dioxane		5000 ug/mL	
					2,2-Dichloropropane		250 ug/mL	
					2-Chlorotoluene		250 ug/mL	
					2-Methyl-2-propanol		2500 ug/mL	
					3-Chloro-1-propene		250 ug/mL	
					4-Chlorotoluene		250 ug/mL	
					4-Isopropyltoluene		250 ug/mL	
					Acrylonitrile		2500 ug/mL	
Benzene	250 ug/mL							
Bromobenzene	250 ug/mL							
Bromochloromethane	250 ug/mL							
Bromodichloromethane	250 ug/mL							
Bromoform	250 ug/mL							
Carbon disulfide	250 ug/mL							
Carbon tetrachloride	250 ug/mL							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-48181-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	250 ug/mL
							Chloroform	250 ug/mL
							cis-1,2-Dichloroethene	250 ug/mL
							cis-1,3-Dichloropropene	250 ug/mL
							Cyclohexane	250 ug/mL
							Dibromochloromethane	250 ug/mL
							Dibromomethane	250 ug/mL
							Ethyl ether	250 ug/mL
							Ethyl methacrylate	250 ug/mL
							Ethylbenzene	250 ug/mL
							Hexachlorobutadiene	250 ug/mL
							Hexane	250 ug/mL
							Iodomethane	250 ug/mL
							Isobutyl alcohol	6250 ug/mL
							Isopropylbenzene	250 ug/mL
							m-Xylene & p-Xylene	250 ug/mL
							Methyl acetate	1250 ug/mL
							Methyl tert-butyl ether	250 ug/mL
							Methylcyclohexane	250 ug/mL
							Methylene Chloride	250 ug/mL
							n-Butylbenzene	250 ug/mL
							n-Heptane	250 ug/mL
							N-Propylbenzene	250 ug/mL
							Naphthalene	250 ug/mL
							o-Xylene	250 ug/mL
							sec-Butylbenzene	250 ug/mL
							Styrene	250 ug/mL
							tert-Butylbenzene	250 ug/mL
							Tetrachloroethene	250 ug/mL
							Tetrahydrofuran	500 ug/mL
							Toluene	250 ug/mL
							trans-1,2-Dichloroethene	250 ug/mL
							trans-1,3-Dichloropropene	250 ug/mL
							trans-1,4-Dichloro-2-butene	250 ug/mL
							Trichloroethene	250 ug/mL
..VOA8260KET1ST_00047	04/30/18		Restek, Lot A0110400			(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
..VOA8260MEGA1_00030	02/28/16		Restek, Lot A0108166			(Purchased Reagent)	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-48181-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane (EDB)	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-48181-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
							n-Butylbenzene	2500 ug/mL		
							n-Heptane	2500 ug/mL		
							N-Propylbenzene	2500 ug/mL		
							Naphthalene	2500 ug/mL		
							o-Xylene	2500 ug/mL		
							sec-Butylbenzene	2500 ug/mL		
							Styrene	2500 ug/mL		
							tert-Butylbenzene	2500 ug/mL		
							Tetrachloroethene	2500 ug/mL		
							Tetrahydrofuran	5000 ug/mL		
							Toluene	2500 ug/mL		
							trans-1,2-Dichloroethene	2500 ug/mL		
							trans-1,3-Dichloropropene	2500 ug/mL		
							trans-1,4-Dichloro-2-butene	2500 ug/mL		
							Trichloroethene	2500 ug/mL		
VOA8260VOAPRI_00139	09/01/15	08/25/15	Methanol, Lot 85233	10 mL	VOA8260GAS1ST_00113	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_00136	1 mL	2-Butanone (MEK)	25 ug/mL
									2-Hexanone	25 ug/mL
					4-Methyl-2-pentanone (MIBK)	25 ug/mL				
					Acetone	25 ug/mL				
					1,1,1,2-Tetrachloroethane	25 ug/mL				
					1,1,1-Trichloroethane	25 ug/mL				
					1,1,2,2-Tetrachloroethane	25 ug/mL				
					1,1,2-Trichloro-1,2,2-trifluor	25 ug/mL				
					oethane					
					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									

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-48181-1

SDG No.: _____

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-48181-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	25 ug/mL
							trans-1,4-Dichloro-2-butene	25 ug/mL
							Trichloroethene	25 ug/mL
.VOA8260GAS1ST_00113	04/30/18		Restek, Lot A0110070		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.VOA8260VOAPRI_00136	09/06/15	08/06/15	Methanol, Lot 85233	10 mL	VOA8260KET1ST_00048	0.2 mL	2-Butanone (MEK)	250 ug/mL
							2-Hexanone	250 ug/mL
							4-Methyl-2-pentanone (MIBK)	250 ug/mL
							Acetone	250 ug/mL
					VOA8260MEGA1_00032	1 mL	1,1,1,2-Tetrachloroethane	250 ug/mL
							1,1,1-Trichloroethane	250 ug/mL
							1,1,2,2-Tetrachloroethane	250 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	250 ug/mL
							1,1,2-Trichloroethane	250 ug/mL
							1,1-Dichloroethane	250 ug/mL
							1,1-Dichloroethene	250 ug/mL
							1,1-Dichloropropene	250 ug/mL
							1,2,3-Trichlorobenzene	250 ug/mL
							1,2,3-Trichloropropane	250 ug/mL
							1,2,4-Trichlorobenzene	250 ug/mL
							1,2,4-Trimethylbenzene	250 ug/mL
							1,2-Dibromo-3-Chloropropane	250 ug/mL
							1,2-Dibromoethane (EDB)	250 ug/mL
							1,2-Dichlorobenzene	250 ug/mL
							1,2-Dichloroethane	250 ug/mL
							1,2-Dichloropropane	250 ug/mL
							1,3,5-Trimethylbenzene	250 ug/mL
							1,3-Dichlorobenzene	250 ug/mL
							1,3-Dichloropropane	250 ug/mL
							1,4-Dichlorobenzene	250 ug/mL
							1,4-Dioxane	5000 ug/mL
							2,2-Dichloropropane	250 ug/mL
							2-Chlorotoluene	250 ug/mL
							2-Methyl-2-propanol	2500 ug/mL
							3-Chloro-1-propene	250 ug/mL
							4-Chlorotoluene	250 ug/mL
							4-Isopropyltoluene	250 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzene	250 ug/mL
							Bromobenzene	250 ug/mL
							Bromochloromethane	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-48181-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromodichloromethane	250 ug/mL
							Bromoform	250 ug/mL
							Carbon disulfide	250 ug/mL
							Carbon tetrachloride	250 ug/mL
							Chlorobenzene	250 ug/mL
							Chloroform	250 ug/mL
							cis-1,2-Dichloroethene	250 ug/mL
							cis-1,3-Dichloropropene	250 ug/mL
							Cyclohexane	250 ug/mL
							Dibromochloromethane	250 ug/mL
							Dibromomethane	250 ug/mL
							Ethyl ether	250 ug/mL
							Ethyl methacrylate	250 ug/mL
							Ethylbenzene	250 ug/mL
							Hexachlorobutadiene	250 ug/mL
							Hexane	250 ug/mL
							Iodomethane	250 ug/mL
							Isobutyl alcohol	6250 ug/mL
							Isopropylbenzene	250 ug/mL
							m-Xylene & p-Xylene	250 ug/mL
							Methyl acetate	1250 ug/mL
							Methyl tert-butyl ether	250 ug/mL
							Methylcyclohexane	250 ug/mL
							Methylene Chloride	250 ug/mL
							n-Butylbenzene	250 ug/mL
							n-Heptane	250 ug/mL
							N-Propylbenzene	250 ug/mL
							Naphthalene	250 ug/mL
							o-Xylene	250 ug/mL
							sec-Butylbenzene	250 ug/mL
							Styrene	250 ug/mL
							tert-Butylbenzene	250 ug/mL
							Tetrachloroethene	250 ug/mL
							Tetrahydrofuran	500 ug/mL
							Toluene	250 ug/mL
							trans-1,2-Dichloroethene	250 ug/mL
							trans-1,3-Dichloropropene	250 ug/mL
							trans-1,4-Dichloro-2-butene	250 ug/mL
							Trichloroethene	250 ug/mL
..VOA8260KET1ST_00048	04/30/18		Restek, Lot A0110400			(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
..VOA8260MEGA1_00032	02/28/16		Restek, Lot A0108166			(Purchased Reagent)	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-48181-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane (EDB)	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-48181-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration					
					Reagent ID	Volume Added							
							Methyl acetate	12500 ug/mL					
							Methyl tert-butyl ether	2500 ug/mL					
							Methylcyclohexane	2500 ug/mL					
							Methylene Chloride	2500 ug/mL					
							n-Butylbenzene	2500 ug/mL					
							n-Heptane	2500 ug/mL					
							N-Propylbenzene	2500 ug/mL					
							Naphthalene	2500 ug/mL					
							o-Xylene	2500 ug/mL					
							sec-Butylbenzene	2500 ug/mL					
							Styrene	2500 ug/mL					
							tert-Butylbenzene	2500 ug/mL					
							Tetrachloroethene	2500 ug/mL					
							Tetrahydrofuran	5000 ug/mL					
							Toluene	2500 ug/mL					
							trans-1,2-Dichloroethene	2500 ug/mL					
							trans-1,3-Dichloropropene	2500 ug/mL					
							trans-1,4-Dichloro-2-butene	2500 ug/mL					
							Trichloroethene	2500 ug/mL					
VOA8260VOAPRI_00147	10/09/15	10/02/15	Methanol, Lot 99494	10 mL	VOA8260GAS1ST_00118	0.1 mL	Bromomethane	25 ug/mL					
							Chloroethane	25 ug/mL					
							Chloromethane	25 ug/mL					
										VOA8260VOAPRI_00146	1 mL	Vinyl chloride	25 ug/mL
									1,1,1,2-Tetrachloroethane			25 ug/mL	
									1,1,1-Trichloroethane			25 ug/mL	
									1,1,2,2-Tetrachloroethane			25 ug/mL	
									1,1,2-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								

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-48181-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00118	04/30/18		Restek, Lot A0110070			(Purchased Reagent)	Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.VOA8260VOAPRI_00146	10/25/15	09/25/15	Methanol, Lot 99494	10 mL	VOA8260MEGA1_00034	1 mL	1,1,1,2-Tetrachloroethane	250 ug/mL
							1,1,1-Trichloroethane	250 ug/mL
							1,1,2,2-Tetrachloroethane	250 ug/mL
							1,1,2-Trichloroethane	250 ug/mL
							1,1-Dichloroethane	250 ug/mL
							1,1-Dichloroethene	250 ug/mL
							1,2-Dibromoethane (EDB)	250 ug/mL
							1,2-Dichloroethane	250 ug/mL
							1,2-Dichloropropane	250 ug/mL
							1,4-Dioxane	5000 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzene	250 ug/mL
							Bromochloromethane	250 ug/mL
							Bromodichloromethane	250 ug/mL
							Bromoform	250 ug/mL
							Carbon disulfide	250 ug/mL
							Carbon tetrachloride	250 ug/mL
							Chlorobenzene	250 ug/mL
							Chloroform	250 ug/mL
							cis-1,2-Dichloroethene	250 ug/mL
							cis-1,3-Dichloropropene	250 ug/mL
							Dibromochloromethane	250 ug/mL
							Ethylbenzene	250 ug/mL
							Methyl tert-butyl ether	250 ug/mL
							Methylene Chloride	250 ug/mL
							Styrene	250 ug/mL
							Tetrachloroethene	250 ug/mL
							Toluene	250 ug/mL
							trans-1,2-Dichloroethene	250 ug/mL
							trans-1,3-Dichloropropene	250 ug/mL
							Trichloroethene	250 ug/mL
							Xylenes, Total	500 ug/mL
..VOA8260MEGA1_00034	02/28/16		Restek, Lot A0108166			(Purchased Reagent)	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-48181-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2-Dibromoethane (EDB)	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
VOAACROLEINPR_00006	09/11/15	08/11/15	Methanol, Lot 85233	100 mL	VOAACRORES_00077	0.125 mL	Acrolein	25 ug/mL
.VOAACRORES_00077	09/30/15		Restek, Lot A0111006		(Purchased Reagent)		Acrolein	20000 ug/mL
VOAVAPRI_00006	08/31/15	08/25/15	Methanol, Lot 85233	50 mL	VOA8260VARES_00054	0.25 mL	Vinyl acetate	25 ug/mL
.VOA8260VARES_00054	08/31/15		Restek, Lot A0109190		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
voaWAcro2nd_R_00006	08/07/15	07/07/15	Methanol, Lot 85233	100 mL	VOAACRRRES2ND_00065	0.125 mL	Acrolein	25 ug/mL
.VOAACRRRES2ND_00065	09/30/15		Restek, Lot A0111005		(Purchased Reagent)		Acrolein	20000 ug/mL
voaWEE1stRest_00001	09/21/15	08/21/15	Methanol, Lot 85233	25 mL	VOARESEE1ST_00021	0.125 mL	1,2-dichloro-4-(trifluoromethyl)benzene	25 ug/mL
							2,3,6-Trichlorotoluene	25 ug/mL
							2,3- & 3,4- Dichlorotoluene	50 ug/mL
							2,4,5-Trichlorotoluene	25 ug/mL
							2,4- & 2,5- & 2,6-Dichlorotoluene	75 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-48181-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.VOARESEE1ST_00021	09/30/16		Restek, Lot A0109701			(Purchased Reagent)	4-Chlorobenzotrifluoride	25 ug/mL
							1,2-dichloro-4-(trifluoromethyl)benzene	5000 ug/mL
							2,3,6-Trichlorotoluene	5000 ug/mL
							2,3- & 3,4- Dichlorotoluene	10000 ug/mL
							2,4,5-Trichlorotoluene	5000 ug/mL
							2,4- & 2,5- & 2,6-Dichlorotoluene	15000 ug/mL
							2,4-Dichloro-1-(trifluoromethyl)-benzene	5000 ug/mL
							2,5-Dichlorobenzotrifluoride	5000 ug/mL
							2-Chlorobenzotrifluoride	5000 ug/mL
							3-Chlorobenzotrifluoride	5000 ug/mL
							3-Chlorotoluene	5000 ug/mL
4-Chlorobenzotrifluoride	5000 ug/mL							
voaWeemix1Res_00001	08/20/15	07/20/15	Methanol, Lot 85233	25 mL	VOARESEE1ST_00025	0.125 mL	1,2-dichloro-4-(trifluoromethyl)benzene	25 ug/mL
							2,3,6-Trichlorotoluene	25 ug/mL
							2,3- & 3,4- Dichlorotoluene	50 ug/mL
							2,4,5-Trichlorotoluene	25 ug/mL
							2,4- & 2,5- & 2,6-Dichlorotoluene	75 ug/mL
							2,4-Dichloro-1-(trifluoromethyl)-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_00025	09/30/16		Restek, Lot A0109701			(Purchased Reagent)	1,2-dichloro-4-(trifluoromethyl)benzene	5000 ug/mL
							2,3,6-Trichlorotoluene	5000 ug/mL
							2,3- & 3,4- Dichlorotoluene	10000 ug/mL
							2,4,5-Trichlorotoluene	5000 ug/mL
							2,4- & 2,5- & 2,6-Dichlorotoluene	15000 ug/mL
							2,4-Dichloro-1-(trifluoromethyl)-benzene	5000 ug/mL
							2,5-Dichlorobenzotrifluoride	5000 ug/mL
							2-Chlorobenzotrifluoride	5000 ug/mL
							3-Chlorobenzotrifluoride	5000 ug/mL
							3-Chlorotoluene	5000 ug/mL
							4-Chlorobenzotrifluoride	5000 ug/mL
voaWKet1 Rest_00001	09/11/15	08/11/15	Methanol, Lot 85233	50 mL	VOA8260KET1ST_00049	0.1 mL	2-Butanone (MEK)	25 ug/mL
							2-Hexanone	25 ug/mL
							4-Methyl-2-pentanone (MIBK)	25 ug/mL
							Acetone	25 ug/mL
.VOA8260KET1ST_00049	04/30/18		Restek, Lot A0110400			(Purchased Reagent)	2-Butanone (MEK)	12500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-48181-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
voaWket1Reste_00001	08/02/15	07/02/15	Methanol, Lot 85233	50 mL	VOA8260KET1ST_00046	0.1 mL	2-Butanone (MEK)	25 ug/mL
							2-Hexanone	25 ug/mL
							4-Methyl-2-pentanone (MIBK)	25 ug/mL
							Acetone	25 ug/mL
.VOA8260KET1ST_00046	04/30/18		Restek, Lot A0110400		(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
voaWket1stRes_00001	10/14/15	09/14/15	Methanol, Lot 99494	50 mL	VOA8260KET1ST_00051	0.1 mL	2-Butanone (MEK)	25 ug/mL
							2-Hexanone	25 ug/mL
							4-Methyl-2-pentanone (MIBK)	25 ug/mL
							Acetone	25 ug/mL
.VOA8260KET1ST_00051	04/30/18		Restek, Lot A0110400		(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
voaWketmix2nd_00002	10/22/15	09/22/15	Methanol, Lot 99494	50 mL	VOA8260KET2ND_00054	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_00054	05/31/18		Restek, Lot A0110970		(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
voaWVA1st Res_00003	08/23/15	07/23/15	Methanol, Lot 85233	25 mL	VOA8260VARES_00055	0.125 mL	Vinyl acetate	25 ug/mL
.VOA8260VARES_00055	08/31/15		Restek, Lot A0109190		(Purchased Reagent)		Vinyl acetate	5000 ug/mL

Reagent

VOA8260GAS1ST_00110



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569722 **Lot No.:** A0110070

Description : 8260 List 1 / Std #3 Gases (2015)
8260 List 1 / Std #3 Gases (2015) 2,500 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : April 30, 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)	2,499.9 µg/mL	+/-	17.9502	µg/mL	Gravimetric
	CAS # 75-71-8 (Lot Q167-08)		+/-	30.0934	µg/mL	Unstressed
	Purity 99%		+/-	34.1055	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,500.1 µg/mL	+/-	17.2963	µg/mL	Gravimetric
	CAS # 74-87-3 (Lot SHBC8470V)		+/-	29.7101	µg/mL	Unstressed
	Purity 99%		+/-	33.7686	µg/mL	Stressed
3	Vinyl chloride	2,500.2 µg/mL	+/-	16.5642	µg/mL	Gravimetric
	CAS # 75-01-4 (Lot 17542)		+/-	29.2906	µg/mL	Unstressed
	Purity 99%		+/-	33.4004	µg/mL	Stressed
4	1,3-Butadiene	2,500.0 µg/mL	+/-	17.0072	µg/mL	Gravimetric
	CAS # 106-99-0 (Lot SHBF3387V)		+/-	29.5416	µg/mL	Unstressed
	Purity 99%		+/-	33.6200	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,499.8 µg/mL	+/-	18.9451	µg/mL	Gravimetric
	CAS # 74-83-9 (Lot 101604)		+/-	30.6969	µg/mL	Unstressed
	Purity 99%		+/-	34.6391	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,500.3 µg/mL	+/-	17.6395	µg/mL	Gravimetric
	CAS # 75-00-3 (Lot SHBD1717V)		+/-	29.9122	µg/mL	Unstressed
	Purity 99%		+/-	33.9470	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,500.2 µg/mL	+/-	16.7318	µg/mL	Gravimetric
	CAS # 75-43-4 (Lot Q9B-58)		+/-	29.3854	µg/mL	Unstressed
	Purity 99%		+/-	33.4835	µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)	2,500.3 µg/mL	+/- 16.5866	µg/mL	Gravimetric
	CAS # 75-69-4 (Lot SHBD5121V)		+/- 29.3037	µg/mL	Unstressed
	Purity 99%		+/- 33.4120	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)

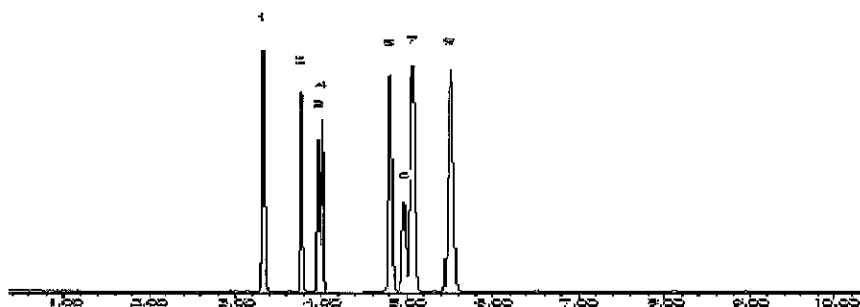
Carrier Gas:
helium-constant flow 2.0 mL/min.

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.

[Signature]
F. Joseph Tallon - Mix Technician

Date Mixed: 02-Apr-2015 **Balance:** B251644995

[Signature]
Tyler Brown - QA Analyst

Date Passed: 08-Apr-2015

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

Reagent

VOA8260GAS1ST_00113



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569722 **Lot No.:** A0110070
Description : 8260 List 1 / Std #3 Gases (2015)
8260 List 1 / Std #3 Gases (2015) 2,500 ug/ml, P&T Methanol, 1 ml/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 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)	2,499.9 µg/mL	+/-	17.9502	µg/mL	Gravimetric
	CAS # 75-71-8 (Lot Q167-08)		+/-	30.0934	µg/mL	Unstressed
	Purity 99%		+/-	34.1055	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,500.1 µg/mL	+/-	17.2963	µg/mL	Gravimetric
	CAS # 74-87-3 (Lot SHBC8470V)		+/-	29.7101	µg/mL	Unstressed
	Purity 99%		+/-	33.7686	µg/mL	Stressed
3	Vinyl chloride	2,500.2 µg/mL	+/-	16.5642	µg/mL	Gravimetric
	CAS # 75-01-4 (Lot 17542)		+/-	29.2906	µg/mL	Unstressed
	Purity 99%		+/-	33.4004	µg/mL	Stressed
4	1,3-Butadiene	2,500.0 µg/mL	+/-	17.0072	µg/mL	Gravimetric
	CAS # 106-99-0 (Lot SHBF3387V)		+/-	29.5416	µg/mL	Unstressed
	Purity 99%		+/-	33.6200	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,499.8 µg/mL	+/-	18.9451	µg/mL	Gravimetric
	CAS # 74-83-9 (Lot 101604)		+/-	30.6969	µg/mL	Unstressed
	Purity 99%		+/-	34.6391	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,500.3 µg/mL	+/-	17.6395	µg/mL	Gravimetric
	CAS # 75-00-3 (Lot SHBD1717V)		+/-	29.9122	µg/mL	Unstressed
	Purity 99%		+/-	33.9470	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,500.2 µg/mL	+/-	16.7318	µg/mL	Gravimetric
	CAS # 75-43-4 (Lot Q9B-58)		+/-	29.3854	µg/mL	Unstressed
	Purity 99%		+/-	33.4835	µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)	2,500.3 µg/mL	+/- 16.5866	µg/mL	Gravimetric
	CAS # 75-69-4 (Lot SHBD5121V)		+/- 29.3037	µg/mL	Unstressed
	Purity 99%		+/- 33.4120	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)

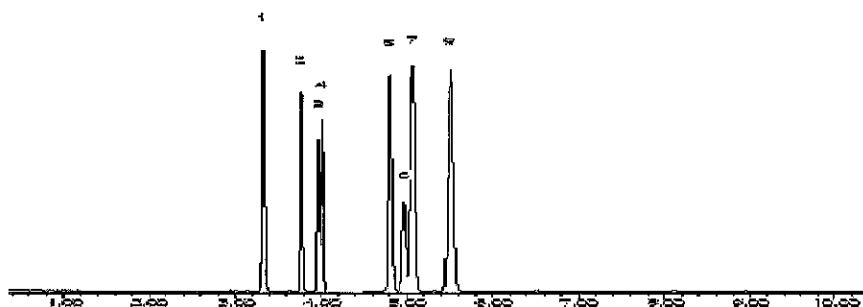
Carrier Gas:
helium-constant flow 2.0 mL/min.

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.

[Signature]
F. Joseph Tallon - Mix Technician

Date Mixed: 02-Apr-2015 **Balance:** B251644995

[Signature]
Tyler Brown - QA Analyst

Date Passed: 08-Apr-2015

<p>Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397</p>
--

Reagent

VOA8260GAS1ST_00118



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. : 569722 **Lot No.:** A0110070
Description : 8260 List 1 / Std #3 Gases (2015)
8260 List 1 / Std #3 Gases (2015) 2,500 ug/ml, P&T Methanol, 1 ml/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 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)	2,499.9 µg/mL	+/-	17.9502	µg/mL	Gravimetric
	CAS # 75-71-8 (Lot Q167-08)		+/-	30.0934	µg/mL	Unstressed
	Purity 99%		+/-	34.1055	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,500.1 µg/mL	+/-	17.2963	µg/mL	Gravimetric
	CAS # 74-87-3 (Lot SHBC8470V)		+/-	29.7101	µg/mL	Unstressed
	Purity 99%		+/-	33.7686	µg/mL	Stressed
3	Vinyl chloride	2,500.2 µg/mL	+/-	16.5642	µg/mL	Gravimetric
	CAS # 75-01-4 (Lot 17542)		+/-	29.2906	µg/mL	Unstressed
	Purity 99%		+/-	33.4004	µg/mL	Stressed
4	1,3-Butadiene	2,500.0 µg/mL	+/-	17.0072	µg/mL	Gravimetric
	CAS # 106-99-0 (Lot SHBF3387V)		+/-	29.5416	µg/mL	Unstressed
	Purity 99%		+/-	33.6200	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,499.8 µg/mL	+/-	18.9451	µg/mL	Gravimetric
	CAS # 74-83-9 (Lot 101604)		+/-	30.6969	µg/mL	Unstressed
	Purity 99%		+/-	34.6391	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,500.3 µg/mL	+/-	17.6395	µg/mL	Gravimetric
	CAS # 75-00-3 (Lot SHBD1717V)		+/-	29.9122	µg/mL	Unstressed
	Purity 99%		+/-	33.9470	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,500.2 µg/mL	+/-	16.7318	µg/mL	Gravimetric
	CAS # 75-43-4 (Lot Q9B-58)		+/-	29.3854	µg/mL	Unstressed
	Purity 99%		+/-	33.4835	µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)	2,500.3 µg/mL	+/- 16.5866	µg/mL	Gravimetric
	CAS # 75-69-4 (Lot SHBD5121V)		+/- 29.3037	µg/mL	Unstressed
	Purity 99%		+/- 33.4120	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)

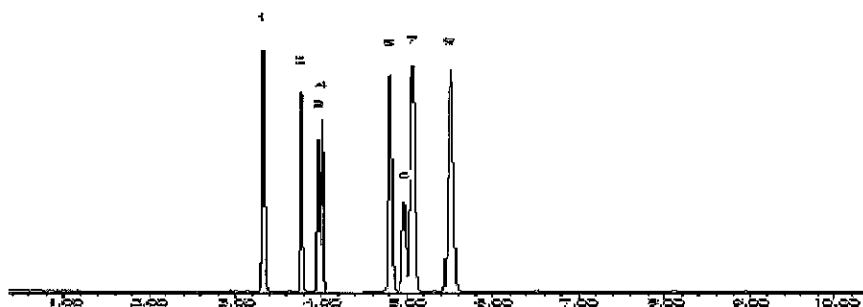
Carrier Gas:
helium-constant flow 2.0 mL/min.

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.

[Signature]
F. Joseph Tallon - Mix Technician

Date Mixed: 02-Apr-2015 **Balance:** B251644995

[Signature]
Tyler Brown - QA Analyst

Date Passed: 08-Apr-2015

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

Reagent

VOA8260GAS2ND_00115



CERTIFIED REFERENCE MATERIAL

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Certificate of Analysis



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Catalog No. : 569722.SEC **Lot No.:** A0111273
Description : 8260 List 1 / Std #3 Gases (2015)
8260 List 1 / Std #3 Gases (2015) 2,500 ug/ml, P&T Methanol, 1 ml/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : May 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)	2,497.6 µg/mL	+/-	24.0984	µg/mL	Gravimetric
	CAS # 75-71-8.SEC (Lot 21773)		+/-	34.1039	µg/mL	Unstressed
	Purity 99%		+/-	37.6853	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,503.8 µg/mL	+/-	21.5368	µg/mL	Gravimetric
	CAS # 74-87-3.SEC (Lot 18343)		+/-	32.3897	µg/mL	Unstressed
	Purity 99%		+/-	36.1592	µg/mL	Stressed
3	Vinyl chloride	2,492.0 µg/mL	+/-	23.1023	µg/mL	Gravimetric
	CAS # 75-01-4.SEC (Lot MKBK6872V)		+/-	33.3685	µg/mL	Unstressed
	Purity 99%		+/-	37.0056	µg/mL	Stressed
4	1,3-Butadiene	2,488.6 µg/mL	+/-	19.2643	µg/mL	Gravimetric
	CAS # 106-99-0.SEC (Lot 18349)		+/-	30.8102	µg/mL	Unstressed
	Purity 99%		+/-	34.7063	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,491.9 µg/mL	+/-	20.7776	µg/mL	Gravimetric
	CAS # 74-83-9.SEC (Lot Q119-46)		+/-	31.8022	µg/mL	Unstressed
	Purity 99%		+/-	35.5993	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,516.0 µg/mL	+/-	19.4764	µg/mL	Gravimetric
	CAS # 75-00-3.SEC (Lot 00004202)		+/-	31.1495	µg/mL	Unstressed
	Purity 99%		+/-	35.0885	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,503.3 µg/mL	+/-	18.8823	µg/mL	Gravimetric
	CAS # 75-43-4.SEC (Lot SHBC0858V)		+/-	30.6846	µg/mL	Unstressed
	Purity 99%		+/-	34.6386	µg/mL	Stressed

Reagent

VOA8260INTRES_00067



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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. : 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)			
			±	Value	Unit	Method
1	tert-Butyl-d9-alcohol CAS # 25725-11-5 Purity 99%	5,000.0 µg/mL	+/-	29.0689	µg/mL	Gravimetric
			+/-	110.6323	µg/mL	Unstressed
			+/-	111.0833	µg/mL	Stressed
2	Fluorobenzene CAS # 462-06-6 Purity 99%	250.0 µg/mL	+/-	1.4535	µg/mL	Gravimetric
			+/-	5.5316	µg/mL	Unstressed
			+/-	5.5542	µg/mL	Stressed
3	1,4-Dioxane-d8 CAS # 17647-74-4 Purity 99%	5,000.0 µg/mL	+/-	29.0689	µg/mL	Gravimetric
			+/-	110.6323	µg/mL	Unstressed
			+/-	111.0833	µg/mL	Stressed
4	Chlorobenzene-d5 CAS # 3114-55-4 Purity 99%	250.0 µg/mL	+/-	1.4535	µg/mL	Gravimetric
			+/-	5.5316	µg/mL	Unstressed
			+/-	5.5542	µg/mL	Stressed
5	1,4-Dichlorobenzene-d4 CAS # 3855-82-1 Purity 99%	250.0 µg/mL	+/-	1.4535	µg/mL	Gravimetric
			+/-	5.5316	µg/mL	Unstressed
			+/-	5.5542	µg/mL	Stressed

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

Reagent

VOA8260INTRES_00068



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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. : 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 CAS # 25725-11-5 Purity 99%	5,000.0 μg/mL	+/-	29.0689	μg/mL	Gravimetric
			+/-	110.6323	μg/mL	Unstressed
			+/-	111.0833	μg/mL	Stressed
2	Fluorobenzene CAS # 462-06-6 Purity 99%	250.0 μg/mL	+/-	1.4535	μg/mL	Gravimetric
			+/-	5.5316	μg/mL	Unstressed
			+/-	5.5542	μg/mL	Stressed
3	1,4-Dioxane-d8 CAS # 17647-74-4 Purity 99%	5,000.0 μg/mL	+/-	29.0689	μg/mL	Gravimetric
			+/-	110.6323	μg/mL	Unstressed
			+/-	111.0833	μg/mL	Stressed
4	Chlorobenzene-d5 CAS # 3114-55-4 Purity 99%	250.0 μg/mL	+/-	1.4535	μg/mL	Gravimetric
			+/-	5.5316	μg/mL	Unstressed
			+/-	5.5542	μg/mL	Stressed
5	1,4-Dichlorobenzene-d4 CAS # 3855-82-1 Purity 99%	250.0 μg/mL	+/-	1.4535	μg/mL	Gravimetric
			+/-	5.5316	μg/mL	Unstressed
			+/-	5.5542	μg/mL	Stressed

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

Reagent

VOA8260INTRES_00088



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

CERTIFIED VALUES

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

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

Reagent

VOA8260KET1ST_00046

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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. : 569721 **Lot No.:** A0110400
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 : April 30, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Acetone	12,506.8 µg/mL	+/-	73.2301	µg/mL	Gravimetric
	CAS # 67-64-1 (Lot 07196AK)		+/-	665.6407	µg/mL	Unstressed
	Purity 99%		+/-	666.3747	µg/mL	Stressed
2	2-Butanone (MEK)	12,504.8 µg/mL	+/-	73.2184	µg/mL	Gravimetric
	CAS # 78-93-3 (Lot BCBH7802V)		+/-	665.5343	µg/mL	Unstressed
	Purity 99%		+/-	666.2681	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,509.2 µg/mL	+/-	73.2441	µg/mL	Gravimetric
	CAS # 108-10-1 (Lot SHBF5332V)		+/-	665.7684	µg/mL	Unstressed
	Purity 99%		+/-	666.5025	µg/mL	Stressed
4	2-Hexanone	12,501.6 µg/mL	+/-	73.1996	µg/mL	Gravimetric
	CAS # 591-78-6 (Lot MKBN7380V)		+/-	665.3640	µg/mL	Unstressed
	Purity 99%		+/-	666.0976	µg/mL	Stressed

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

Reagent

VOA8260KET1ST_00047

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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. : 569721 **Lot No.:** A0110400
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 : April 30, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Acetone	12,506.8 µg/mL	+/-	73.2301	µg/mL	Gravimetric
	CAS # 67-64-1 (Lot 07196AK)		+/-	665.6407	µg/mL	Unstressed
	Purity 99%		+/-	666.3747	µg/mL	Stressed
2	2-Butanone (MEK)	12,504.8 µg/mL	+/-	73.2184	µg/mL	Gravimetric
	CAS # 78-93-3 (Lot BCBH7802V)		+/-	665.5343	µg/mL	Unstressed
	Purity 99%		+/-	666.2681	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,509.2 µg/mL	+/-	73.2441	µg/mL	Gravimetric
	CAS # 108-10-1 (Lot SHBF5332V)		+/-	665.7684	µg/mL	Unstressed
	Purity 99%		+/-	666.5025	µg/mL	Stressed
4	2-Hexanone	12,501.6 µg/mL	+/-	73.1996	µg/mL	Gravimetric
	CAS # 591-78-6 (Lot MKBN7380V)		+/-	665.3640	µg/mL	Unstressed
	Purity 99%		+/-	666.0976	µg/mL	Stressed

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

Reagent

VOA8260KET1ST_00048

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Catalog No. : 569721 **Lot No.:** A0110400
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 : April 30, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Acetone	12,506.8 µg/mL	+/-	73.2301	µg/mL	Gravimetric
	CAS # 67-64-1 (Lot 07196AK)		+/-	665.6407	µg/mL	Unstressed
	Purity 99%		+/-	666.3747	µg/mL	Stressed
2	2-Butanone (MEK)	12,504.8 µg/mL	+/-	73.2184	µg/mL	Gravimetric
	CAS # 78-93-3 (Lot BCBH7802V)		+/-	665.5343	µg/mL	Unstressed
	Purity 99%		+/-	666.2681	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,509.2 µg/mL	+/-	73.2441	µg/mL	Gravimetric
	CAS # 108-10-1 (Lot SHBF5332V)		+/-	665.7684	µg/mL	Unstressed
	Purity 99%		+/-	666.5025	µg/mL	Stressed
4	2-Hexanone	12,501.6 µg/mL	+/-	73.1996	µg/mL	Gravimetric
	CAS # 591-78-6 (Lot MKBN7380V)		+/-	665.3640	µg/mL	Unstressed
	Purity 99%		+/-	666.0976	µg/mL	Stressed

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

Reagent

VOA8260KET1ST_00049

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Catalog No. : 569721 **Lot No.:** A0110400
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 : April 30, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Acetone	12,506.8 µg/mL	+/-	73.2301	µg/mL	Gravimetric
	CAS # 67-64-1 (Lot 07196AK)		+/-	665.6407	µg/mL	Unstressed
	Purity 99%		+/-	666.3747	µg/mL	Stressed
2	2-Butanone (MEK)	12,504.8 µg/mL	+/-	73.2184	µg/mL	Gravimetric
	CAS # 78-93-3 (Lot BCBH7802V)		+/-	665.5343	µg/mL	Unstressed
	Purity 99%		+/-	666.2681	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,509.2 µg/mL	+/-	73.2441	µg/mL	Gravimetric
	CAS # 108-10-1 (Lot SHBF5332V)		+/-	665.7684	µg/mL	Unstressed
	Purity 99%		+/-	666.5025	µg/mL	Stressed
4	2-Hexanone	12,501.6 µg/mL	+/-	73.1996	µg/mL	Gravimetric
	CAS # 591-78-6 (Lot MKBN7380V)		+/-	665.3640	µg/mL	Unstressed
	Purity 99%		+/-	666.0976	µg/mL	Stressed

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

Reagent

VOA8260KET1ST_00051

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Catalog No. : 569721 **Lot No.:** A0110400
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 : April 30, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Acetone	12,506.8 µg/mL	+/-	73.2301	µg/mL	Gravimetric
	CAS # 67-64-1 (Lot 07196AK)		+/-	665.6407	µg/mL	Unstressed
	Purity 99%		+/-	666.3747	µg/mL	Stressed
2	2-Butanone (MEK)	12,504.8 µg/mL	+/-	73.2184	µg/mL	Gravimetric
	CAS # 78-93-3 (Lot BCBH7802V)		+/-	665.5343	µg/mL	Unstressed
	Purity 99%		+/-	666.2681	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,509.2 µg/mL	+/-	73.2441	µg/mL	Gravimetric
	CAS # 108-10-1 (Lot SHBF5332V)		+/-	665.7684	µg/mL	Unstressed
	Purity 99%		+/-	666.5025	µg/mL	Stressed
4	2-Hexanone	12,501.6 µg/mL	+/-	73.1996	µg/mL	Gravimetric
	CAS # 591-78-6 (Lot MKBN7380V)		+/-	665.3640	µg/mL	Unstressed
	Purity 99%		+/-	666.0976	µg/mL	Stressed

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

Reagent

VOA8260KET2ND_00054



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. : 569721.sec Lot No.: A0110970

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 : May 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	12,528.0 µg/mL	+/-	73.3542	µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot P14A572)		+/-	666.7690	µg/mL	Unstressed
	Purity 99%		+/-	667.5042	µg/mL	Stressed
2	2-Butanone (MEK)	12,530.0 µg/mL	+/-	73.3659	µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot RA58J)		+/-	666.8755	µg/mL	Unstressed
	Purity 99%		+/-	667.6108	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,585.0 µg/mL	+/-	73.6879	µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/-	669.8027	µg/mL	Unstressed
	Purity 99%		+/-	670.5412	µg/mL	Stressed
4	2-Hexanone	12,516.0 µg/mL	+/-	73.2839	µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot ZSVCD-FF)		+/-	666.1304	µg/mL	Unstressed
	Purity 99%		+/-	666.8648	µg/mL	Stressed

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

Reagent

VOA8260MEGA1_00030



CERTIFIED REFERENCE MATERIAL

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

Certificate of Analysis

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569720 **Lot No.:** A0108166
Description : 8260 List 1 / Std #1 MegaMix (2015)
8260 List 1 / Std #1 MegaMix (2015) 1250-62500 µg/ml, P&T Methanol, 1 ml/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : January 31, 2017 **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)	2,521.3 µg/mL	+/-	14.6588	µg/mL	Gravimetric
	CAS # 60-29-7 (Lot SHBF3466V)		+/-	134.1754	µg/mL	Unstressed
	Purity 99%		+/-	134.3233	µg/mL	Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113)	2,522.5 µg/mL	+/-	14.6660	µg/mL	Gravimetric
	CAS # 76-13-1 (Lot 00001135)		+/-	134.2419	µg/mL	Unstressed
	Purity 99%		+/-	134.3899	µg/mL	Stressed
3	1,1-Dichloroethane	2,499.5 µg/mL	+/-	14.5323	µg/mL	Gravimetric
	CAS # 75-34-3 (Lot Q179-33)		+/-	133.0173	µg/mL	Unstressed
	Purity 98%		+/-	133.1640	µg/mL	Stressed
4	tert-Butanol (TBA)	25,002.4 µg/mL	+/-	145.3584	µg/mL	Gravimetric
	CAS # 75-65-0 (Lot SHBC6893V)		+/-	1,330.5704	µg/mL	Unstressed
	Purity 99%		+/-	1,332.0378	µg/mL	Stressed
5	Iodomethane (methyl iodide)	2,510.0 µg/mL	+/-	14.5934	µg/mL	Gravimetric
	CAS # 74-88-4 (Lot SHBC7288V)		+/-	133.5767	µg/mL	Unstressed
	Purity 99%		+/-	133.7240	µg/mL	Stressed
6	Methyl acetate	12,505.4 µg/mL	+/-	72.7037	µg/mL	Gravimetric
	CAS # 79-20-9 (Lot SHBD7134V)		+/-	665.5101	µg/mL	Unstressed
	Purity 98%		+/-	666.2440	µg/mL	Stressed
7	Allyl chloride (3-chloropropene)	2,500.0 µg/mL	+/-	19.2743	µg/mL	Gravimetric
	CAS # 107-05-1 (Lot MKBG5777V)		+/-	133.6453	µg/mL	Unstressed
	Purity 99%		+/-	133.7914	µg/mL	Stressed

8	Methylene chloride (dichloromethane)		2,511.3	µg/mL	+/-	14.6006	µg/mL	Gravimetric
	CAS # 75-09-2	(Lot SHBD4974V)			+/-	133.6432	µg/mL	Unstressed
	Purity 99%				+/-	133.7906	µg/mL	Stressed
9	Carbon disulfide		2,511.7	µg/mL	+/-	14.6035	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot C30Y997)			+/-	133.6693	µg/mL	Unstressed
	Purity 98%				+/-	133.8167	µg/mL	Stressed
10	Acrylonitrile		25,017.1	µg/mL	+/-	145.4441	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot 10172706)			+/-	1,331.3554	µg/mL	Unstressed
	Purity 99%				+/-	1,332.8236	µg/mL	Stressed
11	cis-1,2-Dichloroethene		2,503.9	µg/mL	+/-	14.5577	µg/mL	Gravimetric
	CAS # 156-59-2	(Lot MKBG8424V)			+/-	133.2507	µg/mL	Unstressed
	Purity 99%				+/-	133.3977	µg/mL	Stressed
12	n-Hexane (C6)		2,511.9	µg/mL	+/-	14.6043	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBF0293V)			+/-	133.6764	µg/mL	Unstressed
	Purity 99%				+/-	133.8239	µg/mL	Stressed
13	1,1-dichloroethene		2,521.3	µg/mL	+/-	14.6588	µg/mL	Gravimetric
	CAS # 75-35-4	(Lot SHBD6170V)			+/-	134.1754	µg/mL	Unstressed
	Purity 99%				+/-	134.3233	µg/mL	Stressed
14	2,2-Dichloropropane		2,500.0	µg/mL	+/-	14.5351	µg/mL	Gravimetric
	CAS # 594-20-7	(Lot BCBH9246V)			+/-	133.0434	µg/mL	Unstressed
	Purity 98%				+/-	133.1901	µg/mL	Stressed
15	trans-1,2-Dichloroethene		2,505.0	µg/mL	+/-	14.5643	µg/mL	Gravimetric
	CAS # 156-60-5	(Lot MKBH9850V)			+/-	133.3106	µg/mL	Unstressed
	Purity 99%				+/-	133.4576	µg/mL	Stressed
16	Isobutanol (2-Methyl-1-propanol)		62,553.8	µg/mL	+/-	363.6739	µg/mL	Gravimetric
	CAS # 78-83-1	(Lot SHBF2852V)			+/-	3,328.9705	µg/mL	Unstressed
	Purity 99%				+/-	3,332.6417	µg/mL	Stressed
17	Methyl-tert-butyl ether (MTBE)		2,504.6	µg/mL	+/-	14.5621	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBF1193V)			+/-	133.2906	µg/mL	Unstressed
	Purity 99%				+/-	133.4376	µg/mL	Stressed
18	Bromochloromethane		2,505.1	µg/mL	+/-	14.5650	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00004559)			+/-	133.3172	µg/mL	Unstressed
	Purity 99%				+/-	133.4642	µg/mL	Stressed
19	Tetrahydrofuran		5,000.7	µg/mL	+/-	29.0746	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBF2660V)			+/-	266.1270	µg/mL	Unstressed
	Purity 97%				+/-	266.4204	µg/mL	Stressed
20	1,1,1-trichloroethane		2,508.1	µg/mL	+/-	14.5825	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot B14Z1114)			+/-	133.4769	µg/mL	Unstressed
	Purity 99%				+/-	133.6241	µg/mL	Stressed
21	Cyclohexane		2,504.0	µg/mL	+/-	14.5585	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot SHBD7873V)			+/-	133.2574	µg/mL	Unstressed
	Purity 99%				+/-	133.4043	µg/mL	Stressed
22	1,1-Dichloropropene		2,502.4	µg/mL	+/-	14.5493	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot PR09161302)			+/-	133.1738	µg/mL	Unstressed
	Purity 98%				+/-	133.3207	µg/mL	Stressed
23	carbon tetrachloride		2,505.3	µg/mL	+/-	14.5657	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBC1410V)			+/-	133.3239	µg/mL	Unstressed
	Purity 99%				+/-	133.4709	µg/mL	Stressed

24	n-Heptane (C7) CAS # 142-82-5 Purity 99%	(Lot SHBF2321V)	2,501.4 µg/mL	+/- 14.5432 +/- 133.1177 +/- 133.2645	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	1,2-Dichloroethane CAS # 107-06-2 Purity 99%	(Lot SHBC6595V)	2,501.6 µg/mL	+/- 14.5447 +/- 133.1310 +/- 133.2778	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	Benzene CAS # 71-43-2 Purity 99%	(Lot SHBD4617V)	2,509.1 µg/mL	+/- 14.5883 +/- 133.5301 +/- 133.6774	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Trichloroethene CAS # 79-01-6 Purity 99%	(Lot SHBF0943V)	2,504.8 µg/mL	+/- 14.5628 +/- 133.2973 +/- 133.4443	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Methylcyclohexane CAS # 108-87-2 Purity 99%	(Lot 50996APV)	2,502.5 µg/mL	+/- 14.5498 +/- 133.1775 +/- 133.3244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	1,2-Dichloropropane CAS # 78-87-5 Purity 99%	(Lot 01113D0V)	2,502.4 µg/mL	+/- 14.5490 +/- 133.1709 +/- 133.3177	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	bromodichloromethane CAS # 75-27-4 Purity 98%	(Lot MKBL1617V)	2,507.9 µg/mL	+/- 14.5814 +/- 133.4672 +/- 133.6144	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane CAS # 123-91-1 Purity 99%	(Lot SHBF2002V)	50,001.4 µg/mL	+/- 290.6971 +/- 2,660.9612 +/- 2,663.8957	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane CAS # 74-95-3 Purity 99%	(Lot 10169264)	2,508.1 µg/mL	+/- 14.5825 +/- 133.4769 +/- 133.6241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene CAS # 10061-01-5 Purity 99%	(Lot 20936)	2,507.0 µg/mL	+/- 14.5759 +/- 133.4170 +/- 133.5641	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene CAS # 108-88-3 Purity 99%	(Lot SHBF2730V)	2,502.4 µg/mL	+/- 14.5490 +/- 133.1709 +/- 133.3177	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate CAS # 97-63-2 Purity 99%	(Lot 69796APV)	2,500.9 µg/mL	+/- 14.5403 +/- 133.0911 +/- 133.2378	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene CAS # 10061-02-6 Purity 99%	(Lot C363110)	2,502.1 µg/mL	+/- 14.5476 +/- 133.1576 +/- 133.3044	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane CAS # 79-00-5 Purity 99%	(Lot FGB01)	2,507.5 µg/mL	+/- 14.5788 +/- 133.4436 +/- 133.5908	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane CAS # 142-28-9 Purity 99%	(Lot BCBG2162V)	2,505.3 µg/mL	+/- 14.5657 +/- 133.3239 +/- 133.4709	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene CAS # 127-18-4 Purity 99%	(Lot SHBD2073V)	2,506.5 µg/mL	+/- 14.5730 +/- 133.3904 +/- 133.5375	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	dibromochloromethane		2,503.2	µg/mL	+/-	14.5536	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKBP0459V)			+/-	133.2129	µg/mL	Unstressed
	Purity 98%				+/-	133.3598	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)		2,504.3	µg/mL	+/-	14.5599	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCBH3877V)			+/-	133.2707	µg/mL	Unstressed
	Purity 99%				+/-	133.4176	µg/mL	Stressed
42	Chlorobenzene		2,510.8	µg/mL	+/-	14.5977	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBD3200V)			+/-	133.6166	µg/mL	Unstressed
	Purity 99%				+/-	133.7639	µg/mL	Stressed
43	1,1,2,2-Tetrachloroethane		2,502.9	µg/mL	+/-	14.5519	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot CFA4D)			+/-	133.1975	µg/mL	Unstressed
	Purity 99%				+/-	133.3444	µg/mL	Stressed
44	Ethylbenzene		2,509.6	µg/mL	+/-	14.5912	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBC9001V)			+/-	133.5567	µg/mL	Unstressed
	Purity 99%				+/-	133.7040	µg/mL	Stressed
45	m-Xylene		1,252.6	µg/mL	+/-	7.2829	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot SHBF1720V)			+/-	66.6619	µg/mL	Unstressed
	Purity 99%				+/-	66.7355	µg/mL	Stressed
46	o-Xylene		2,503.7	µg/mL	+/-	14.5565	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBC8668V)			+/-	133.2390	µg/mL	Unstressed
	Purity 98%				+/-	133.3859	µg/mL	Stressed
47	p-Xylene		1,253.3	µg/mL	+/-	7.2865	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot SHBF3427V)			+/-	66.6952	µg/mL	Unstressed
	Purity 99%				+/-	66.7688	µg/mL	Stressed
48	Styrene		2,503.5	µg/mL	+/-	14.5556	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot 10182421)			+/-	133.2307	µg/mL	Unstressed
	Purity 99%				+/-	133.3777	µg/mL	Stressed
49	Isopropylbenzene (cumene)		2,502.5	µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot 10169400)			+/-	133.1775	µg/mL	Unstressed
	Purity 99%				+/-	133.3244	µg/mL	Stressed
50	bromoform		2,507.8	µg/mL	+/-	14.5803	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBC3410V)			+/-	133.4569	µg/mL	Unstressed
	Purity 99%				+/-	133.6041	µg/mL	Stressed
51	1,1,1,2-Tetrachloroethane		2,510.3	µg/mL	+/-	14.5948	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot MKBS3769V)			+/-	133.5900	µg/mL	Unstressed
	Purity 99%				+/-	133.7373	µg/mL	Stressed
52	chloroform		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS # 67-66-3	(Lot SHBB7498V)			+/-	133.1110	µg/mL	Unstressed
	Purity 99%				+/-	133.2578	µg/mL	Stressed
53	1,2,3-Trichloropropane		2,502.5	µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot 1428739V)			+/-	133.1775	µg/mL	Unstressed
	Purity 99%				+/-	133.3244	µg/mL	Stressed
54	trans-1,4-dichloro-2-butene		2,499.5	µg/mL	+/-	14.5322	µg/mL	Gravimetric
	CAS # 110-57-6	(Lot MKBP5371V)			+/-	133.0168	µg/mL	Unstressed
	Purity 96%				+/-	133.1635	µg/mL	Stressed
55	n-Propylbenzene		2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot MKBQ8049V)			+/-	133.0578	µg/mL	Unstressed
	Purity 99%				+/-	133.2045	µg/mL	Stressed

56	Bromobenzene CAS # 108-86-1 Purity 99%	(Lot MKBD4032V)	2,501.1 µg/mL	+/- 14.5418 +/- 133.1044 +/- 133.2511	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	1,2,4-Trimethylbenzene CAS # 95-63-6 Purity 98%	(Lot MKBJ1732V)	2,501.6 µg/mL	+/- 14.5444 +/- 133.1282 +/- 133.2750	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene CAS # 95-49-8 Purity 99%	(Lot MKBH8892V)	2,500.3 µg/mL	+/- 14.5367 +/- 133.0578 +/- 133.2045	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene CAS # 106-43-4 Purity 99%	(Lot MKBB7205V)	2,506.4 µg/mL	+/- 14.5723 +/- 133.3837 +/- 133.5308	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene CAS # 98-06-6 Purity 99%	(Lot S52237V)	2,500.1 µg/mL	+/- 14.5359 +/- 133.0511 +/- 133.1979	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	1,3,5-Trimethylbenzene CAS # 108-67-8 Purity 99%	(Lot BCBJ3305V)	2,503.1 µg/mL	+/- 14.5534 +/- 133.2108 +/- 133.3577	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene CAS # 135-98-8 Purity 99%	(Lot MKBK3151V)	2,504.0 µg/mL	+/- 14.5585 +/- 133.2574 +/- 133.4043	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	p-Isopropyltoluene (p-Cymene) CAS # 99-87-6 Purity 99%	(Lot MKBK4439V)	2,501.1 µg/mL	+/- 14.5418 +/- 133.1044 +/- 133.2511	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene CAS # 541-73-1 Purity 99%	(Lot BCBC1891V)	2,506.1 µg/mL	+/- 14.5708 +/- 133.3704 +/- 133.5175	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene CAS # 106-46-7 Purity 99%	(Lot MKBL3891V)	2,507.0 µg/mL	+/- 14.5759 +/- 133.4170 +/- 133.5641	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene CAS # 104-51-8 Purity 99%	(Lot 09418JIV)	2,502.6 µg/mL	+/- 14.5505 +/- 133.1842 +/- 133.3311	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene CAS # 95-50-1 Purity 99%	(Lot 68996CMV)	2,501.6 µg/mL	+/- 14.5447 +/- 133.1310 +/- 133.2778	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane CAS # 96-12-8 Purity 99%	(Lot FBL01)	2,505.9 µg/mL	+/- 14.5694 +/- 133.3571 +/- 133.5042	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene CAS # 120-82-1 Purity 99%	(Lot 26896BM)	2,501.5 µg/mL	+/- 14.5439 +/- 133.1243 +/- 133.2711	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene CAS # 87-68-3 Purity 98%	(Lot K22W009)	2,501.6 µg/mL	+/- 14.5444 +/- 133.1282 +/- 133.2750	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene CAS # 91-20-3 Purity 99%	(Lot MKBH4351V)	2,502.6 µg/mL	+/- 14.5505 +/- 133.1842 +/- 133.3311	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene		2,503.4 µg/mL	+/-	14.5548	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot 12912PFV)		+/-	133.2241	µg/mL	Unstressed
	Purity 99%			+/-	133.3710	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)

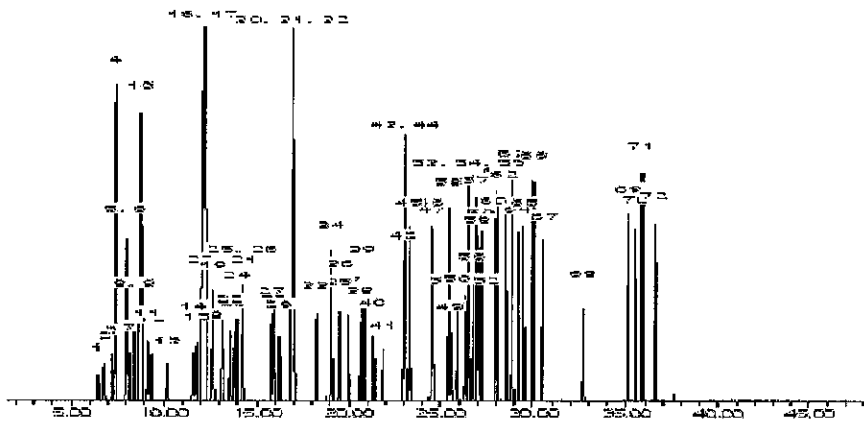
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

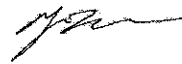
Det. Type:
MSD



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 - Mix Technician

Date Mixed: 07-Jan-2015 **Balance:** 1125113331


Tyler Brown - QA Analyst

Date Passed: 14-Jan-2015

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

Reagent

VOA8260MEGA1_00032



CERTIFIED REFERENCE MATERIAL

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

Certificate of Analysis

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569720 **Lot No.:** A0108166
Description : 8260 List 1 / Std #1 MegaMix (2015)
8260 List 1 / Std #1 MegaMix (2015) 1250-62500 µg/ml, P&T Methanol, 1 ml/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : January 31, 2017 **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)	2,521.3 µg/mL	+/-	14.6588	µg/mL	Gravimetric
	CAS # 60-29-7 (Lot SHBF3466V)		+/-	134.1754	µg/mL	Unstressed
	Purity 99%		+/-	134.3233	µg/mL	Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113)	2,522.5 µg/mL	+/-	14.6660	µg/mL	Gravimetric
	CAS # 76-13-1 (Lot 00001135)		+/-	134.2419	µg/mL	Unstressed
	Purity 99%		+/-	134.3899	µg/mL	Stressed
3	1,1-Dichloroethane	2,499.5 µg/mL	+/-	14.5323	µg/mL	Gravimetric
	CAS # 75-34-3 (Lot Q179-33)		+/-	133.0173	µg/mL	Unstressed
	Purity 98%		+/-	133.1640	µg/mL	Stressed
4	tert-Butanol (TBA)	25,002.4 µg/mL	+/-	145.3584	µg/mL	Gravimetric
	CAS # 75-65-0 (Lot SHBC6893V)		+/-	1,330.5704	µg/mL	Unstressed
	Purity 99%		+/-	1,332.0378	µg/mL	Stressed
5	Iodomethane (methyl iodide)	2,510.0 µg/mL	+/-	14.5934	µg/mL	Gravimetric
	CAS # 74-88-4 (Lot SHBC7288V)		+/-	133.5767	µg/mL	Unstressed
	Purity 99%		+/-	133.7240	µg/mL	Stressed
6	Methyl acetate	12,505.4 µg/mL	+/-	72.7037	µg/mL	Gravimetric
	CAS # 79-20-9 (Lot SHBD7134V)		+/-	665.5101	µg/mL	Unstressed
	Purity 98%		+/-	666.2440	µg/mL	Stressed
7	Allyl chloride (3-chloropropene)	2,500.0 µg/mL	+/-	19.2743	µg/mL	Gravimetric
	CAS # 107-05-1 (Lot MKBG5777V)		+/-	133.6453	µg/mL	Unstressed
	Purity 99%		+/-	133.7914	µg/mL	Stressed

8	Methylene chloride (dichloromethane)		2,511.3	µg/mL	+/-	14.6006	µg/mL	Gravimetric
	CAS # 75-09-2	(Lot SHBD4974V)				+/-	133.6432	µg/mL
	Purity 99%					+/-	133.7906	µg/mL
9	Carbon disulfide		2,511.7	µg/mL	+/-	14.6035	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot C30Y997)				+/-	133.6693	µg/mL
	Purity 98%					+/-	133.8167	µg/mL
10	Acrylonitrile		25,017.1	µg/mL	+/-	145.4441	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot 10172706)				+/-	1,331.3554	µg/mL
	Purity 99%					+/-	1,332.8236	µg/mL
11	cis-1,2-Dichloroethene		2,503.9	µg/mL	+/-	14.5577	µg/mL	Gravimetric
	CAS # 156-59-2	(Lot MKBG8424V)				+/-	133.2507	µg/mL
	Purity 99%					+/-	133.3977	µg/mL
12	n-Hexane (C6)		2,511.9	µg/mL	+/-	14.6043	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBF0293V)				+/-	133.6764	µg/mL
	Purity 99%					+/-	133.8239	µg/mL
13	1,1-dichloroethene		2,521.3	µg/mL	+/-	14.6588	µg/mL	Gravimetric
	CAS # 75-35-4	(Lot SHBD6170V)				+/-	134.1754	µg/mL
	Purity 99%					+/-	134.3233	µg/mL
14	2,2-Dichloropropane		2,500.0	µg/mL	+/-	14.5351	µg/mL	Gravimetric
	CAS # 594-20-7	(Lot BCBH9246V)				+/-	133.0434	µg/mL
	Purity 98%					+/-	133.1901	µg/mL
15	trans-1,2-Dichloroethene		2,505.0	µg/mL	+/-	14.5643	µg/mL	Gravimetric
	CAS # 156-60-5	(Lot MKBH9850V)				+/-	133.3106	µg/mL
	Purity 99%					+/-	133.4576	µg/mL
16	Isobutanol (2-Methyl-1-propanol)		62,553.8	µg/mL	+/-	363.6739	µg/mL	Gravimetric
	CAS # 78-83-1	(Lot SHBF2852V)				+/-	3,328.9705	µg/mL
	Purity 99%					+/-	3,332.6417	µg/mL
17	Methyl-tert-butyl ether (MTBE)		2,504.6	µg/mL	+/-	14.5621	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBF1193V)				+/-	133.2906	µg/mL
	Purity 99%					+/-	133.4376	µg/mL
18	Bromochloromethane		2,505.1	µg/mL	+/-	14.5650	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00004559)				+/-	133.3172	µg/mL
	Purity 99%					+/-	133.4642	µg/mL
19	Tetrahydrofuran		5,000.7	µg/mL	+/-	29.0746	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBF2660V)				+/-	266.1270	µg/mL
	Purity 97%					+/-	266.4204	µg/mL
20	1,1,1-trichloroethane		2,508.1	µg/mL	+/-	14.5825	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot B14Z1114)				+/-	133.4769	µg/mL
	Purity 99%					+/-	133.6241	µg/mL
21	Cyclohexane		2,504.0	µg/mL	+/-	14.5585	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot SHBD7873V)				+/-	133.2574	µg/mL
	Purity 99%					+/-	133.4043	µg/mL
22	1,1-Dichloropropene		2,502.4	µg/mL	+/-	14.5493	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot PR09161302)				+/-	133.1738	µg/mL
	Purity 98%					+/-	133.3207	µg/mL
23	carbon tetrachloride		2,505.3	µg/mL	+/-	14.5657	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBC1410V)				+/-	133.3239	µg/mL
	Purity 99%					+/-	133.4709	µg/mL

24	n-Heptane (C7) CAS # 142-82-5 Purity 99%	(Lot SHBF2321V)	2,501.4 µg/mL	+/- 14.5432 +/- 133.1177 +/- 133.2645	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	1,2-Dichloroethane CAS # 107-06-2 Purity 99%	(Lot SHBC6595V)	2,501.6 µg/mL	+/- 14.5447 +/- 133.1310 +/- 133.2778	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	Benzene CAS # 71-43-2 Purity 99%	(Lot SHBD4617V)	2,509.1 µg/mL	+/- 14.5883 +/- 133.5301 +/- 133.6774	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Trichloroethene CAS # 79-01-6 Purity 99%	(Lot SHBF0943V)	2,504.8 µg/mL	+/- 14.5628 +/- 133.2973 +/- 133.4443	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Methylcyclohexane CAS # 108-87-2 Purity 99%	(Lot 50996APV)	2,502.5 µg/mL	+/- 14.5498 +/- 133.1775 +/- 133.3244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	1,2-Dichloropropane CAS # 78-87-5 Purity 99%	(Lot 01113D0V)	2,502.4 µg/mL	+/- 14.5490 +/- 133.1709 +/- 133.3177	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	bromodichloromethane CAS # 75-27-4 Purity 98%	(Lot MKBL1617V)	2,507.9 µg/mL	+/- 14.5814 +/- 133.4672 +/- 133.6144	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane CAS # 123-91-1 Purity 99%	(Lot SHBF2002V)	50,001.4 µg/mL	+/- 290.6971 +/- 2,660.9612 +/- 2,663.8957	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane CAS # 74-95-3 Purity 99%	(Lot 10169264)	2,508.1 µg/mL	+/- 14.5825 +/- 133.4769 +/- 133.6241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene CAS # 10061-01-5 Purity 99%	(Lot 20936)	2,507.0 µg/mL	+/- 14.5759 +/- 133.4170 +/- 133.5641	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene CAS # 108-88-3 Purity 99%	(Lot SHBF2730V)	2,502.4 µg/mL	+/- 14.5490 +/- 133.1709 +/- 133.3177	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate CAS # 97-63-2 Purity 99%	(Lot 69796APV)	2,500.9 µg/mL	+/- 14.5403 +/- 133.0911 +/- 133.2378	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene CAS # 10061-02-6 Purity 99%	(Lot C363110)	2,502.1 µg/mL	+/- 14.5476 +/- 133.1576 +/- 133.3044	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane CAS # 79-00-5 Purity 99%	(Lot FGB01)	2,507.5 µg/mL	+/- 14.5788 +/- 133.4436 +/- 133.5908	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane CAS # 142-28-9 Purity 99%	(Lot BCBG2162V)	2,505.3 µg/mL	+/- 14.5657 +/- 133.3239 +/- 133.4709	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene CAS # 127-18-4 Purity 99%	(Lot SHBD2073V)	2,506.5 µg/mL	+/- 14.5730 +/- 133.3904 +/- 133.5375	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	dibromochloromethane		2,503.2	µg/mL	+/-	14.5536	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKBP0459V)			+/-	133.2129	µg/mL	Unstressed
	Purity 98%				+/-	133.3598	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)		2,504.3	µg/mL	+/-	14.5599	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCBH3877V)			+/-	133.2707	µg/mL	Unstressed
	Purity 99%				+/-	133.4176	µg/mL	Stressed
42	Chlorobenzene		2,510.8	µg/mL	+/-	14.5977	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBD3200V)			+/-	133.6166	µg/mL	Unstressed
	Purity 99%				+/-	133.7639	µg/mL	Stressed
43	1,1,2,2-Tetrachloroethane		2,502.9	µg/mL	+/-	14.5519	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot CFA4D)			+/-	133.1975	µg/mL	Unstressed
	Purity 99%				+/-	133.3444	µg/mL	Stressed
44	Ethylbenzene		2,509.6	µg/mL	+/-	14.5912	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBC9001V)			+/-	133.5567	µg/mL	Unstressed
	Purity 99%				+/-	133.7040	µg/mL	Stressed
45	m-Xylene		1,252.6	µg/mL	+/-	7.2829	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot SHBF1720V)			+/-	66.6619	µg/mL	Unstressed
	Purity 99%				+/-	66.7355	µg/mL	Stressed
46	o-Xylene		2,503.7	µg/mL	+/-	14.5565	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBC8668V)			+/-	133.2390	µg/mL	Unstressed
	Purity 98%				+/-	133.3859	µg/mL	Stressed
47	p-Xylene		1,253.3	µg/mL	+/-	7.2865	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot SHBF3427V)			+/-	66.6952	µg/mL	Unstressed
	Purity 99%				+/-	66.7688	µg/mL	Stressed
48	Styrene		2,503.5	µg/mL	+/-	14.5556	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot 10182421)			+/-	133.2307	µg/mL	Unstressed
	Purity 99%				+/-	133.3777	µg/mL	Stressed
49	Isopropylbenzene (cumene)		2,502.5	µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot 10169400)			+/-	133.1775	µg/mL	Unstressed
	Purity 99%				+/-	133.3244	µg/mL	Stressed
50	bromoform		2,507.8	µg/mL	+/-	14.5803	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBC3410V)			+/-	133.4569	µg/mL	Unstressed
	Purity 99%				+/-	133.6041	µg/mL	Stressed
51	1,1,1,2-Tetrachloroethane		2,510.3	µg/mL	+/-	14.5948	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot MKBS3769V)			+/-	133.5900	µg/mL	Unstressed
	Purity 99%				+/-	133.7373	µg/mL	Stressed
52	chloroform		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS # 67-66-3	(Lot SHBB7498V)			+/-	133.1110	µg/mL	Unstressed
	Purity 99%				+/-	133.2578	µg/mL	Stressed
53	1,2,3-Trichloropropane		2,502.5	µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot 1428739V)			+/-	133.1775	µg/mL	Unstressed
	Purity 99%				+/-	133.3244	µg/mL	Stressed
54	trans-1,4-dichloro-2-butene		2,499.5	µg/mL	+/-	14.5322	µg/mL	Gravimetric
	CAS # 110-57-6	(Lot MKBP5371V)			+/-	133.0168	µg/mL	Unstressed
	Purity 96%				+/-	133.1635	µg/mL	Stressed
55	n-Propylbenzene		2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot MKBQ8049V)			+/-	133.0578	µg/mL	Unstressed
	Purity 99%				+/-	133.2045	µg/mL	Stressed

56	Bromobenzene CAS # 108-86-1 Purity 99%	(Lot MKBD4032V)	2,501.1 µg/mL	+/- 14.5418 +/- 133.1044 +/- 133.2511	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	1,2,4-Trimethylbenzene CAS # 95-63-6 Purity 98%	(Lot MKBJ1732V)	2,501.6 µg/mL	+/- 14.5444 +/- 133.1282 +/- 133.2750	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene CAS # 95-49-8 Purity 99%	(Lot MKBH8892V)	2,500.3 µg/mL	+/- 14.5367 +/- 133.0578 +/- 133.2045	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene CAS # 106-43-4 Purity 99%	(Lot MKBB7205V)	2,506.4 µg/mL	+/- 14.5723 +/- 133.3837 +/- 133.5308	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene CAS # 98-06-6 Purity 99%	(Lot S52237V)	2,500.1 µg/mL	+/- 14.5359 +/- 133.0511 +/- 133.1979	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	1,3,5-Trimethylbenzene CAS # 108-67-8 Purity 99%	(Lot BCBJ3305V)	2,503.1 µg/mL	+/- 14.5534 +/- 133.2108 +/- 133.3577	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene CAS # 135-98-8 Purity 99%	(Lot MKBK3151V)	2,504.0 µg/mL	+/- 14.5585 +/- 133.2574 +/- 133.4043	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	p-Isopropyltoluene (p-Cymene) CAS # 99-87-6 Purity 99%	(Lot MKBK4439V)	2,501.1 µg/mL	+/- 14.5418 +/- 133.1044 +/- 133.2511	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene CAS # 541-73-1 Purity 99%	(Lot BCBC1891V)	2,506.1 µg/mL	+/- 14.5708 +/- 133.3704 +/- 133.5175	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene CAS # 106-46-7 Purity 99%	(Lot MKBL3891V)	2,507.0 µg/mL	+/- 14.5759 +/- 133.4170 +/- 133.5641	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene CAS # 104-51-8 Purity 99%	(Lot 09418JIV)	2,502.6 µg/mL	+/- 14.5505 +/- 133.1842 +/- 133.3311	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene CAS # 95-50-1 Purity 99%	(Lot 68996CMV)	2,501.6 µg/mL	+/- 14.5447 +/- 133.1310 +/- 133.2778	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane CAS # 96-12-8 Purity 99%	(Lot FBL01)	2,505.9 µg/mL	+/- 14.5694 +/- 133.3571 +/- 133.5042	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene CAS # 120-82-1 Purity 99%	(Lot 26896BM)	2,501.5 µg/mL	+/- 14.5439 +/- 133.1243 +/- 133.2711	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene CAS # 87-68-3 Purity 98%	(Lot K22W009)	2,501.6 µg/mL	+/- 14.5444 +/- 133.1282 +/- 133.2750	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene CAS # 91-20-3 Purity 99%	(Lot MKBH4351V)	2,502.6 µg/mL	+/- 14.5505 +/- 133.1842 +/- 133.3311	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene		2,503.4 µg/mL	+/-	14.5548	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot 12912PFV)		+/-	133.2241	µg/mL	Unstressed
	Purity 99%			+/-	133.3710	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)

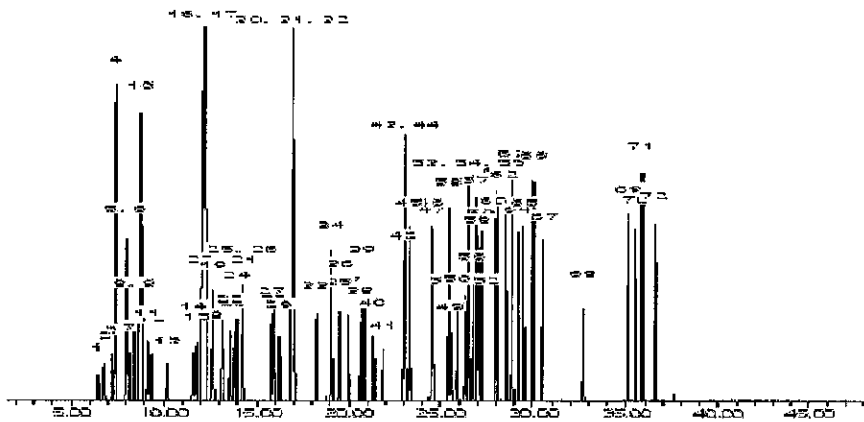
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

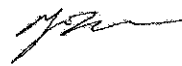
Det. Type:
MSD



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 - Mix Technician

Date Mixed: 07-Jan-2015 **Balance:** 1125113331


Tyler Brown - QA Analyst

Date Passed: 14-Jan-2015

<p>Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397</p>
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Reagent

VOA8260MEGA1_00034



CERTIFIED REFERENCE MATERIAL

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

Certificate of Analysis

www.restek.com



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569720 **Lot No.:** A0108166
Description : 8260 List 1 / Std #1 MegaMix (2015)
8260 List 1 / Std #1 MegaMix (2015) 1250-62500 µg/ml, P&T Methanol, 1 ml/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : January 31, 2017 **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)	2,521.3 µg/mL	+/-	14.6588	µg/mL	Gravimetric
	CAS # 60-29-7 (Lot SHBF3466V)		+/-	134.1754	µg/mL	Unstressed
	Purity 99%		+/-	134.3233	µg/mL	Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113)	2,522.5 µg/mL	+/-	14.6660	µg/mL	Gravimetric
	CAS # 76-13-1 (Lot 00001135)		+/-	134.2419	µg/mL	Unstressed
	Purity 99%		+/-	134.3899	µg/mL	Stressed
3	1,1-Dichloroethane	2,499.5 µg/mL	+/-	14.5323	µg/mL	Gravimetric
	CAS # 75-34-3 (Lot Q179-33)		+/-	133.0173	µg/mL	Unstressed
	Purity 98%		+/-	133.1640	µg/mL	Stressed
4	tert-Butanol (TBA)	25,002.4 µg/mL	+/-	145.3584	µg/mL	Gravimetric
	CAS # 75-65-0 (Lot SHBC6893V)		+/-	1,330.5704	µg/mL	Unstressed
	Purity 99%		+/-	1,332.0378	µg/mL	Stressed
5	Iodomethane (methyl iodide)	2,510.0 µg/mL	+/-	14.5934	µg/mL	Gravimetric
	CAS # 74-88-4 (Lot SHBC7288V)		+/-	133.5767	µg/mL	Unstressed
	Purity 99%		+/-	133.7240	µg/mL	Stressed
6	Methyl acetate	12,505.4 µg/mL	+/-	72.7037	µg/mL	Gravimetric
	CAS # 79-20-9 (Lot SHBD7134V)		+/-	665.5101	µg/mL	Unstressed
	Purity 98%		+/-	666.2440	µg/mL	Stressed
7	Allyl chloride (3-chloropropene)	2,500.0 µg/mL	+/-	19.2743	µg/mL	Gravimetric
	CAS # 107-05-1 (Lot MKBG5777V)		+/-	133.6453	µg/mL	Unstressed
	Purity 99%		+/-	133.7914	µg/mL	Stressed

8	Methylene chloride (dichloromethane)		2,511.3	µg/mL	+/-	14.6006	µg/mL	Gravimetric
	CAS # 75-09-2	(Lot SHBD4974V)			+/-	133.6432	µg/mL	Unstressed
	Purity 99%				+/-	133.7906	µg/mL	Stressed
9	Carbon disulfide		2,511.7	µg/mL	+/-	14.6035	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot C30Y997)			+/-	133.6693	µg/mL	Unstressed
	Purity 98%				+/-	133.8167	µg/mL	Stressed
10	Acrylonitrile		25,017.1	µg/mL	+/-	145.4441	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot 10172706)			+/-	1,331.3554	µg/mL	Unstressed
	Purity 99%				+/-	1,332.8236	µg/mL	Stressed
11	cis-1,2-Dichloroethene		2,503.9	µg/mL	+/-	14.5577	µg/mL	Gravimetric
	CAS # 156-59-2	(Lot MKBG8424V)			+/-	133.2507	µg/mL	Unstressed
	Purity 99%				+/-	133.3977	µg/mL	Stressed
12	n-Hexane (C6)		2,511.9	µg/mL	+/-	14.6043	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBF0293V)			+/-	133.6764	µg/mL	Unstressed
	Purity 99%				+/-	133.8239	µg/mL	Stressed
13	1,1-dichloroethene		2,521.3	µg/mL	+/-	14.6588	µg/mL	Gravimetric
	CAS # 75-35-4	(Lot SHBD6170V)			+/-	134.1754	µg/mL	Unstressed
	Purity 99%				+/-	134.3233	µg/mL	Stressed
14	2,2-Dichloropropane		2,500.0	µg/mL	+/-	14.5351	µg/mL	Gravimetric
	CAS # 594-20-7	(Lot BCBH9246V)			+/-	133.0434	µg/mL	Unstressed
	Purity 98%				+/-	133.1901	µg/mL	Stressed
15	trans-1,2-Dichloroethene		2,505.0	µg/mL	+/-	14.5643	µg/mL	Gravimetric
	CAS # 156-60-5	(Lot MKBH9850V)			+/-	133.3106	µg/mL	Unstressed
	Purity 99%				+/-	133.4576	µg/mL	Stressed
16	Isobutanol (2-Methyl-1-propanol)		62,553.8	µg/mL	+/-	363.6739	µg/mL	Gravimetric
	CAS # 78-83-1	(Lot SHBF2852V)			+/-	3,328.9705	µg/mL	Unstressed
	Purity 99%				+/-	3,332.6417	µg/mL	Stressed
17	Methyl-tert-butyl ether (MTBE)		2,504.6	µg/mL	+/-	14.5621	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBF1193V)			+/-	133.2906	µg/mL	Unstressed
	Purity 99%				+/-	133.4376	µg/mL	Stressed
18	Bromochloromethane		2,505.1	µg/mL	+/-	14.5650	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00004559)			+/-	133.3172	µg/mL	Unstressed
	Purity 99%				+/-	133.4642	µg/mL	Stressed
19	Tetrahydrofuran		5,000.7	µg/mL	+/-	29.0746	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBF2660V)			+/-	266.1270	µg/mL	Unstressed
	Purity 97%				+/-	266.4204	µg/mL	Stressed
20	1,1,1-trichloroethane		2,508.1	µg/mL	+/-	14.5825	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot B14Z1114)			+/-	133.4769	µg/mL	Unstressed
	Purity 99%				+/-	133.6241	µg/mL	Stressed
21	Cyclohexane		2,504.0	µg/mL	+/-	14.5585	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot SHBD7873V)			+/-	133.2574	µg/mL	Unstressed
	Purity 99%				+/-	133.4043	µg/mL	Stressed
22	1,1-Dichloropropene		2,502.4	µg/mL	+/-	14.5493	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot PR09161302)			+/-	133.1738	µg/mL	Unstressed
	Purity 98%				+/-	133.3207	µg/mL	Stressed
23	carbon tetrachloride		2,505.3	µg/mL	+/-	14.5657	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBC1410V)			+/-	133.3239	µg/mL	Unstressed
	Purity 99%				+/-	133.4709	µg/mL	Stressed

24	n-Heptane (C7) CAS # 142-82-5 Purity 99%	(Lot SHBF2321V)	2,501.4 µg/mL	+/- 14.5432 +/- 133.1177 +/- 133.2645	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	1,2-Dichloroethane CAS # 107-06-2 Purity 99%	(Lot SHBC6595V)	2,501.6 µg/mL	+/- 14.5447 +/- 133.1310 +/- 133.2778	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	Benzene CAS # 71-43-2 Purity 99%	(Lot SHBD4617V)	2,509.1 µg/mL	+/- 14.5883 +/- 133.5301 +/- 133.6774	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Trichloroethene CAS # 79-01-6 Purity 99%	(Lot SHBF0943V)	2,504.8 µg/mL	+/- 14.5628 +/- 133.2973 +/- 133.4443	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Methylcyclohexane CAS # 108-87-2 Purity 99%	(Lot 50996APV)	2,502.5 µg/mL	+/- 14.5498 +/- 133.1775 +/- 133.3244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	1,2-Dichloropropane CAS # 78-87-5 Purity 99%	(Lot 01113D0V)	2,502.4 µg/mL	+/- 14.5490 +/- 133.1709 +/- 133.3177	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	bromodichloromethane CAS # 75-27-4 Purity 98%	(Lot MKBL1617V)	2,507.9 µg/mL	+/- 14.5814 +/- 133.4672 +/- 133.6144	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane CAS # 123-91-1 Purity 99%	(Lot SHBF2002V)	50,001.4 µg/mL	+/- 290.6971 +/- 2,660.9612 +/- 2,663.8957	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane CAS # 74-95-3 Purity 99%	(Lot 10169264)	2,508.1 µg/mL	+/- 14.5825 +/- 133.4769 +/- 133.6241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene CAS # 10061-01-5 Purity 99%	(Lot 20936)	2,507.0 µg/mL	+/- 14.5759 +/- 133.4170 +/- 133.5641	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene CAS # 108-88-3 Purity 99%	(Lot SHBF2730V)	2,502.4 µg/mL	+/- 14.5490 +/- 133.1709 +/- 133.3177	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate CAS # 97-63-2 Purity 99%	(Lot 69796APV)	2,500.9 µg/mL	+/- 14.5403 +/- 133.0911 +/- 133.2378	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene CAS # 10061-02-6 Purity 99%	(Lot C363110)	2,502.1 µg/mL	+/- 14.5476 +/- 133.1576 +/- 133.3044	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane CAS # 79-00-5 Purity 99%	(Lot FGB01)	2,507.5 µg/mL	+/- 14.5788 +/- 133.4436 +/- 133.5908	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane CAS # 142-28-9 Purity 99%	(Lot BCBG2162V)	2,505.3 µg/mL	+/- 14.5657 +/- 133.3239 +/- 133.4709	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene CAS # 127-18-4 Purity 99%	(Lot SHBD2073V)	2,506.5 µg/mL	+/- 14.5730 +/- 133.3904 +/- 133.5375	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	dibromochloromethane CAS # 124-48-1 Purity 98%	(Lot MKBP0459V)	2,503.2 µg/mL	+/- 14.5536 +/- 133.2129 +/- 133.3598	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	1,2-Dibromoethane (EDB) CAS # 106-93-4 Purity 99%	(Lot BCBH3877V)	2,504.3 µg/mL	+/- 14.5599 +/- 133.2707 +/- 133.4176	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	Chlorobenzene CAS # 108-90-7 Purity 99%	(Lot SHBD3200V)	2,510.8 µg/mL	+/- 14.5977 +/- 133.6166 +/- 133.7639	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	1,1,2,2-Tetrachloroethane CAS # 79-34-5 Purity 99%	(Lot CFA4D)	2,502.9 µg/mL	+/- 14.5519 +/- 133.1975 +/- 133.3444	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	Ethylbenzene CAS # 100-41-4 Purity 99%	(Lot SHBC9001V)	2,509.6 µg/mL	+/- 14.5912 +/- 133.5567 +/- 133.7040	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	m-Xylene CAS # 108-38-3 Purity 99%	(Lot SHBF1720V)	1,252.6 µg/mL	+/- 7.2829 +/- 66.6619 +/- 66.7355	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	o-Xylene CAS # 95-47-6 Purity 98%	(Lot SHBC8668V)	2,503.7 µg/mL	+/- 14.5565 +/- 133.2390 +/- 133.3859	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	p-Xylene CAS # 106-42-3 Purity 99%	(Lot SHBF3427V)	1,253.3 µg/mL	+/- 7.2865 +/- 66.6952 +/- 66.7688	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Styrene CAS # 100-42-5 Purity 99%	(Lot 10182421)	2,503.5 µg/mL	+/- 14.5556 +/- 133.2307 +/- 133.3777	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Isopropylbenzene (cumene) CAS # 98-82-8 Purity 99%	(Lot 10169400)	2,502.5 µg/mL	+/- 14.5498 +/- 133.1775 +/- 133.3244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	bromoform CAS # 75-25-2 Purity 99%	(Lot SHBC3410V)	2,507.8 µg/mL	+/- 14.5803 +/- 133.4569 +/- 133.6041	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	1,1,1,2-Tetrachloroethane CAS # 630-20-6 Purity 99%	(Lot MKBS3769V)	2,510.3 µg/mL	+/- 14.5948 +/- 133.5900 +/- 133.7373	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	chloroform CAS # 67-66-3 Purity 99%	(Lot SHBB7498V)	2,501.3 µg/mL	+/- 14.5425 +/- 133.1110 +/- 133.2578	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	1,2,3-Trichloropropane CAS # 96-18-4 Purity 99%	(Lot 1428739V)	2,502.5 µg/mL	+/- 14.5498 +/- 133.1775 +/- 133.3244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	trans-1,4-dichloro-2-butene CAS # 110-57-6 Purity 96%	(Lot MKBP5371V)	2,499.5 µg/mL	+/- 14.5322 +/- 133.0168 +/- 133.1635	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	n-Propylbenzene CAS # 103-65-1 Purity 99%	(Lot MKBQ8049V)	2,500.3 µg/mL	+/- 14.5367 +/- 133.0578 +/- 133.2045	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Bromobenzene CAS # 108-86-1 Purity 99%	(Lot MKBD4032V)	2,501.1 µg/mL	+/- 14.5418 +/- 133.1044 +/- 133.2511	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	1,2,4-Trimethylbenzene CAS # 95-63-6 Purity 98%	(Lot MKBJ1732V)	2,501.6 µg/mL	+/- 14.5444 +/- 133.1282 +/- 133.2750	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene CAS # 95-49-8 Purity 99%	(Lot MKBH8892V)	2,500.3 µg/mL	+/- 14.5367 +/- 133.0578 +/- 133.2045	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene CAS # 106-43-4 Purity 99%	(Lot MKBB7205V)	2,506.4 µg/mL	+/- 14.5723 +/- 133.3837 +/- 133.5308	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene CAS # 98-06-6 Purity 99%	(Lot S52237V)	2,500.1 µg/mL	+/- 14.5359 +/- 133.0511 +/- 133.1979	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	1,3,5-Trimethylbenzene CAS # 108-67-8 Purity 99%	(Lot BCBJ3305V)	2,503.1 µg/mL	+/- 14.5534 +/- 133.2108 +/- 133.3577	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene CAS # 135-98-8 Purity 99%	(Lot MKBK3151V)	2,504.0 µg/mL	+/- 14.5585 +/- 133.2574 +/- 133.4043	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	p-Isopropyltoluene (p-Cymene) CAS # 99-87-6 Purity 99%	(Lot MKBK4439V)	2,501.1 µg/mL	+/- 14.5418 +/- 133.1044 +/- 133.2511	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene CAS # 541-73-1 Purity 99%	(Lot BCBC1891V)	2,506.1 µg/mL	+/- 14.5708 +/- 133.3704 +/- 133.5175	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene CAS # 106-46-7 Purity 99%	(Lot MKBL3891V)	2,507.0 µg/mL	+/- 14.5759 +/- 133.4170 +/- 133.5641	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene CAS # 104-51-8 Purity 99%	(Lot 09418JIV)	2,502.6 µg/mL	+/- 14.5505 +/- 133.1842 +/- 133.3311	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene CAS # 95-50-1 Purity 99%	(Lot 68996CMV)	2,501.6 µg/mL	+/- 14.5447 +/- 133.1310 +/- 133.2778	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane CAS # 96-12-8 Purity 99%	(Lot FBL01)	2,505.9 µg/mL	+/- 14.5694 +/- 133.3571 +/- 133.5042	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene CAS # 120-82-1 Purity 99%	(Lot 26896BM)	2,501.5 µg/mL	+/- 14.5439 +/- 133.1243 +/- 133.2711	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene CAS # 87-68-3 Purity 98%	(Lot K22W009)	2,501.6 µg/mL	+/- 14.5444 +/- 133.1282 +/- 133.2750	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene CAS # 91-20-3 Purity 99%	(Lot MKBH4351V)	2,502.6 µg/mL	+/- 14.5505 +/- 133.1842 +/- 133.3311	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene		2,503.4 µg/mL	+/-	14.5548	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot 12912PFV)		+/-	133.2241	µg/mL	Unstressed
	Purity 99%			+/-	133.3710	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)

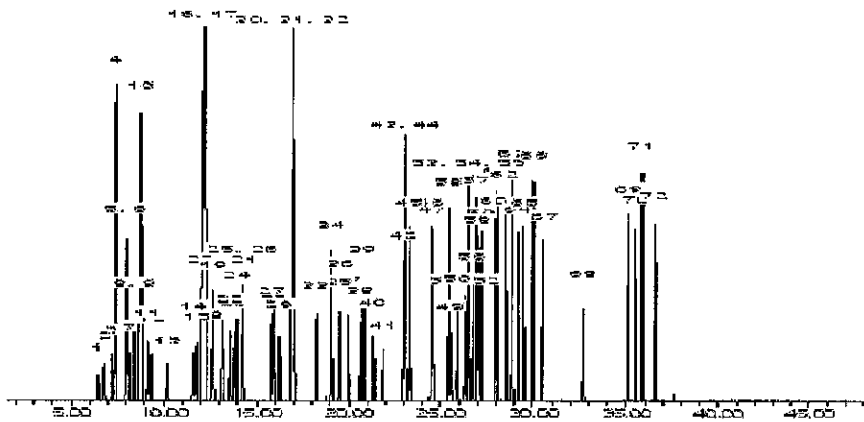
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

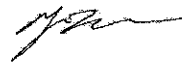
Det. Type:
MSD



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 - Mix Technician

Date Mixed: 07-Jan-2015 **Balance:** 1125113331


Tyler Brown - QA Analyst

Date Passed: 14-Jan-2015

<p>Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397</p>
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Reagent

VOA8260MEGA2_00037

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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. : 569720.sec **Lot No.:** A0108163
Description : 8260 List 1 / Std #1 MegaMix (2015)
8260 List 1 / Std #1 MegaMix (2015) 1250-62500 µg/ml, P&T Methanol, 1 ml/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : January 31, 2017 **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)	2,501.1 µg/mL	+/-	14.5418	µg/mL	Gravimetric
	CAS # 60-29-7.SEC (Lot F23X068)		+/-	133.1044	µg/mL	Unstressed
	Purity 99%		+/-	133.2511	µg/mL	Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113)	2,501.1 µg/mL	+/-	14.5418	µg/mL	Gravimetric
	CAS # 76-13-1.SEC (Lot 18342)		+/-	133.1044	µg/mL	Unstressed
	Purity 99%		+/-	133.2511	µg/mL	Stressed
3	1,1-Dichloroethene	2,502.8 µg/mL	+/-	14.5512	µg/mL	Gravimetric
	CAS # 75-35-4.SEC (Lot 903000)		+/-	133.1908	µg/mL	Unstressed
	Purity 99%		+/-	133.3377	µg/mL	Stressed
4	tert-Butanol (TBA)	25,000.5 µg/mL	+/-	145.3477	µg/mL	Gravimetric
	CAS # 75-65-0.SEC (Lot YXXDO)		+/-	1,330.4725	µg/mL	Unstressed
	Purity 98%		+/-	1,331.9397	µg/mL	Stressed
5	Iodomethane (methyl iodide)	2,500.5 µg/mL	+/-	14.5383	µg/mL	Gravimetric
	CAS # 74-88-4.SEC (Lot A13Y016)		+/-	133.0732	µg/mL	Unstressed
	Purity 97%		+/-	133.2199	µg/mL	Stressed
6	Methyl acetate	12,500.6 µg/mL	+/-	72.6759	µg/mL	Gravimetric
	CAS # 79-20-9.SEC (Lot YDQVD)		+/-	665.2553	µg/mL	Unstressed
	Purity 99%		+/-	665.9889	µg/mL	Stressed
7	Allyl chloride (3-chloropropene)	2,501.3 µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS # 107-05-1.SEC (Lot 5MNOA-DQ)		+/-	133.1110	µg/mL	Unstressed
	Purity 99%		+/-	133.2578	µg/mL	Stressed

8	Methylene chloride (dichloromethane)		2,501.4	µg/mL	+/-	14.5432	µg/mL	Gravimetric
	CAS # 75-09-2.SEC	(Lot FGM02)			+/-	133.1177	µg/mL	Unstressed
	Purity 99%				+/-	133.2645	µg/mL	Stressed
9	Carbon disulfide		2,501.2	µg/mL	+/-	14.5422	µg/mL	Gravimetric
	CAS # 75-15-0.SEC	(Lot MKBL1376V)			+/-	133.1086	µg/mL	Unstressed
	Purity 98%				+/-	133.2554	µg/mL	Stressed
10	Acrylonitrile		25,002.1	µg/mL	+/-	145.3569	µg/mL	Gravimetric
	CAS # 107-13-1.SEC	(Lot CCFKL)			+/-	1,330.5571	µg/mL	Unstressed
	Purity 99%				+/-	1,332.0244	µg/mL	Stressed
11	cis-1,2-Dichloroethene		2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	CAS # 156-59-2.SEC	(Lot HGC01-BLKT)			+/-	133.0578	µg/mL	Unstressed
	Purity 99%				+/-	133.2045	µg/mL	Stressed
12	n-Hexane (C6)		2,500.1	µg/mL	+/-	14.5358	µg/mL	Gravimetric
	CAS # 110-54-3.SEC	(Lot K24W001)			+/-	133.0499	µg/mL	Unstressed
	Purity 98%				+/-	133.1967	µg/mL	Stressed
13	1,1-Dichloroethane		2,503.0	µg/mL	+/-	14.5527	µg/mL	Gravimetric
	CAS # 75-34-3.SEC	(Lot 2663100)			+/-	133.2041	µg/mL	Unstressed
	Purity 99%				+/-	133.3510	µg/mL	Stressed
14	2,2-Dichloropropane		2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	CAS # 594-20-7.SEC	(Lot GI01)			+/-	133.0844	µg/mL	Unstressed
	Purity 99%				+/-	133.2312	µg/mL	Stressed
15	trans-1,2-Dichloroethene		2,500.2	µg/mL	+/-	14.5362	µg/mL	Gravimetric
	CAS # 156-60-5.SEC	(Lot TS5UB)			+/-	133.0538	µg/mL	Unstressed
	Purity 97%				+/-	133.2005	µg/mL	Stressed
16	Isobutanol (2-Methyl-1-propanol)		62,501.3	µg/mL	+/-	363.3687	µg/mL	Gravimetric
	CAS # 78-83-1.SEC	(Lot PH2XK)			+/-	3,326.1766	µg/mL	Unstressed
	Purity 99%				+/-	3,329.8447	µg/mL	Stressed
17	Methyl-tert-butyl ether (MTBE)		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC	(Lot ZAQTA-MS)			+/-	133.0711	µg/mL	Unstressed
	Purity 99%				+/-	133.2178	µg/mL	Stressed
18	Bromochloromethane		2,500.6	µg/mL	+/-	14.5388	µg/mL	Gravimetric
	CAS # 74-97-5.SEC	(Lot 345600)			+/-	133.0777	µg/mL	Unstressed
	Purity 99%				+/-	133.2245	µg/mL	Stressed
19	Tetrahydrofuran		5,002.3	µg/mL	+/-	29.0835	µg/mL	Gravimetric
	CAS # 109-99-9.SEC	(Lot XWFLA)			+/-	266.2087	µg/mL	Unstressed
	Purity 99%				+/-	266.5023	µg/mL	Stressed
20	1,1,1-Trichloroethane		2,501.9	µg/mL	+/-	14.5461	µg/mL	Gravimetric
	CAS # 71-55-6.SEC	(Lot 1103200)			+/-	133.1443	µg/mL	Unstressed
	Purity 99%				+/-	133.2911	µg/mL	Stressed
21	Cyclohexane		2,501.5	µg/mL	+/-	14.5439	µg/mL	Gravimetric
	CAS # 110-82-7.SEC	(Lot YADRA)			+/-	133.1243	µg/mL	Unstressed
	Purity 99%				+/-	133.2711	µg/mL	Stressed
22	1,1-Dichloropropene		2,501.1	µg/mL	+/-	14.5419	µg/mL	Gravimetric
	CAS # 563-58-6.SEC	(Lot 2028500)			+/-	133.1054	µg/mL	Unstressed
	Purity 97%				+/-	133.2522	µg/mL	Stressed
23	Carbon tetrachloride		2,501.9	µg/mL	+/-	14.5465	µg/mL	Gravimetric
	CAS # 56-23-5.SEC	(Lot 11466)			+/-	133.1477	µg/mL	Unstressed
	Purity 98%				+/-	133.2946	µg/mL	Stressed

24	n-Heptane (C7) CAS # 142-82-5.SEC Purity 99%	(Lot OGM01)	2,500.4 µg/mL	+/- 14.5374 +/- 133.0644 +/- 133.2112	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	1,2-Dichloroethane CAS # 107-06-2.SEC Purity 99%	(Lot FO6PK)	2,501.9 µg/mL	+/- 14.5461 +/- 133.1443 +/- 133.2911	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	Benzene CAS # 71-43-2.SEC Purity 99%	(Lot B28Y008)	2,500.9 µg/mL	+/- 14.5403 +/- 133.0911 +/- 133.2378	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Trichloroethene CAS # 79-01-6.SEC Purity 98%	(Lot H04X050)	2,500.6 µg/mL	+/- 14.5387 +/- 133.0760 +/- 133.2228	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Methylcyclohexane CAS # 108-87-2.SEC Purity 99%	(Lot 24MSD-CD)	2,500.5 µg/mL	+/- 14.5381 +/- 133.0711 +/- 133.2178	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	1,2-Dichloropropane CAS # 78-87-5.SEC Purity 99%	(Lot OGG01)	2,500.0 µg/mL	+/- 14.5352 +/- 133.0445 +/- 133.1912	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	Bromodichloromethane CAS # 75-27-4.SEC Purity 99%	(Lot 10171168)	2,501.5 µg/mL	+/- 14.5439 +/- 133.1243 +/- 133.2711	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane CAS # 123-91-1.SEC Purity 99%	(Lot CHA4A)	50,000.8 µg/mL	+/- 290.6935 +/- 2,660.9280 +/- 2,663.8624	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane CAS # 74-95-3.SEC Purity 99%	(Lot FGI01-OICH)	2,500.6 µg/mL	+/- 14.5388 +/- 133.0777 +/- 133.2245	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene CAS # 10061-01-5.SEC Purity 99%	(Lot 7ZLXI-TJ)	2,501.0 µg/mL	+/- 14.5410 +/- 133.0977 +/- 133.2445	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene CAS # 108-88-3.SEC Purity 99%	(Lot YND2B-BD)	2,500.1 µg/mL	+/- 14.5359 +/- 133.0511 +/- 133.1979	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate CAS # 97-63-2.SEC Purity 99%	(Lot MLWYK-LS)	2,500.8 µg/mL	+/- 14.5396 +/- 133.0844 +/- 133.2312	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene CAS # 10061-02-6.SEC Purity 98%	(Lot 2ECIC-NM)	2,501.6 µg/mL	+/- 14.5444 +/- 133.1282 +/- 133.2750	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane CAS # 79-00-5.SEC Purity 99%	(Lot 732700)	2,501.0 µg/mL	+/- 14.5410 +/- 133.0977 +/- 133.2445	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane CAS # 142-28-9.SEC Purity 99%	(Lot AGN01-EFPC)	2,500.8 µg/mL	+/- 14.5396 +/- 133.0844 +/- 133.2312	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene CAS # 127-18-4.SEC Purity 99%	(Lot F09W014)	2,500.0 µg/mL	+/- 14.5352 +/- 133.0445 +/- 133.1912	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	Dibromochloromethane		2,501.8	µg/mL	+/-	14.5454	µg/mL	Gravimetric
	CAS # 124-48-1.SEC	(Lot I13W021)			+/-	133.1377	µg/mL	Unstressed
	Purity 97%				+/-	133.2845	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)		2,502.1	µg/mL	+/-	14.5472	µg/mL	Gravimetric
	CAS # 106-93-4.SEC	(Lot 1368400)			+/-	133.1542	µg/mL	Unstressed
	Purity 98%				+/-	133.3011	µg/mL	Stressed
42	Chlorobenzene		2,501.6	µg/mL	+/-	14.5447	µg/mL	Gravimetric
	CAS # 108-90-7.SEC	(Lot H161936)			+/-	133.1310	µg/mL	Unstressed
	Purity 99%				+/-	133.2778	µg/mL	Stressed
43	1,1,1,2-Tetrachloroethane		2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	CAS # 630-20-6.SEC	(Lot GC01-QSHR)			+/-	133.0844	µg/mL	Unstressed
	Purity 99%				+/-	133.2312	µg/mL	Stressed
44	Ethylbenzene		2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	CAS # 100-41-4.SEC	(Lot PI4SE-GR)			+/-	133.0578	µg/mL	Unstressed
	Purity 99%				+/-	133.2045	µg/mL	Stressed
45	m-Xylene		1,250.4	µg/mL	+/-	7.2698	µg/mL	Gravimetric
	CAS # 108-38-3.SEC	(Lot OUKMG-GB)			+/-	66.5422	µg/mL	Unstressed
	Purity 99%				+/-	66.6156	µg/mL	Stressed
46	o-Xylene		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS # 95-47-6.SEC	(Lot FGL01-KTPK)			+/-	133.1110	µg/mL	Unstressed
	Purity 99%				+/-	133.2578	µg/mL	Stressed
47	p-Xylene		1,251.6	µg/mL	+/-	7.2771	µg/mL	Gravimetric
	CAS # 106-42-3.SEC	(Lot GM01)			+/-	66.6087	µg/mL	Unstressed
	Purity 99%				+/-	66.6822	µg/mL	Stressed
48	Styrene		2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	CAS # 100-42-5.SEC	(Lot OFIOL-IA)			+/-	133.0911	µg/mL	Unstressed
	Purity 99%				+/-	133.2378	µg/mL	Stressed
49	Isopropylbenzene (cumene)		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS # 98-82-8.SEC	(Lot 2PHXG-IH)			+/-	133.1110	µg/mL	Unstressed
	Purity 99%				+/-	133.2578	µg/mL	Stressed
50	Bromoform		2,501.5	µg/mL	+/-	14.5439	µg/mL	Gravimetric
	CAS # 75-25-2.SEC	(Lot 1039300)			+/-	133.1243	µg/mL	Unstressed
	Purity 99%				+/-	133.2711	µg/mL	Stressed
51	1,1,2,2-Tetrachloroethane		2,502.9	µg/mL	+/-	14.5519	µg/mL	Gravimetric
	CAS # 79-34-5.SEC	(Lot CFA4D-AQ)			+/-	133.1975	µg/mL	Unstressed
	Purity 99%				+/-	133.3444	µg/mL	Stressed
52	Chloroform		2,501.6	µg/mL	+/-	14.5447	µg/mL	Gravimetric
	CAS # 67-66-3.SEC	(Lot 1297547)			+/-	133.1310	µg/mL	Unstressed
	Purity 99%				+/-	133.2778	µg/mL	Stressed
53	1,2,3-Trichloropropane		2,501.9	µg/mL	+/-	14.5465	µg/mL	Gravimetric
	CAS # 96-18-4.SEC	(Lot OGI01)			+/-	133.1477	µg/mL	Unstressed
	Purity 98%				+/-	133.2946	µg/mL	Stressed
54	trans-1,4-Dichloro-2-butene		2,502.7	µg/mL	+/-	14.5510	µg/mL	Gravimetric
	CAS # 110-57-6.SEC	(Lot 100700-2)			+/-	133.1893	µg/mL	Unstressed
	Purity 97%				+/-	133.3362	µg/mL	Stressed
55	n-Propylbenzene		2,500.0	µg/mL	+/-	14.5352	µg/mL	Gravimetric
	CAS # 103-65-1.SEC	(Lot T2HFC-IT)			+/-	133.0445	µg/mL	Unstressed
	Purity 99%				+/-	133.1912	µg/mL	Stressed

56	Bromobenzene CAS # 108-86-1.SEC Purity 99%	(Lot 2FUHG-EM)	2,501.6 µg/mL	+/- 14.5447 +/- 133.1310 +/- 133.2778	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	1,2,4-Trimethylbenzene CAS # 95-63-6.SEC Purity 99%	(Lot SC7LO-QA)	2,502.4 µg/mL	+/- 14.5490 +/- 133.1709 +/- 133.3177	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene CAS # 95-49-8.SEC Purity 99%	(Lot SW8QG-AO)	2,500.5 µg/mL	+/- 14.5381 +/- 133.0711 +/- 133.2178	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene CAS # 106-43-4.SEC Purity 99%	(Lot P4XHJ-AO)	2,500.3 µg/mL	+/- 14.5367 +/- 133.0578 +/- 133.2045	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene CAS # 98-06-6.SEC Purity 99%	(Lot OGN01)	2,501.6 µg/mL	+/- 14.5447 +/- 133.1310 +/- 133.2778	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	1,3,5-Trimethylbenzene CAS # 108-67-8.SEC Purity 99%	(Lot FGH02-CMLN)	2,500.3 µg/mL	+/- 14.5367 +/- 133.0578 +/- 133.2045	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene CAS # 135-98-8.SEC Purity 99%	(Lot OGN01)	2,500.1 µg/mL	+/- 14.5359 +/- 133.0511 +/- 133.1979	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	4-Isopropyltoluene (p-cymene) CAS # 99-87-6.SEC Purity 99%	(Lot 1721700)	2,501.6 µg/mL	+/- 14.5447 +/- 133.1310 +/- 133.2778	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene CAS # 541-73-1.SEC Purity 99%	(Lot FMDFD-KA)	2,501.5 µg/mL	+/- 14.5439 +/- 133.1243 +/- 133.2711	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene CAS # 106-46-7.SEC Purity 99%	(Lot YWKDC-MK)	2,500.3 µg/mL	+/- 14.5367 +/- 133.0578 +/- 133.2045	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene CAS # 104-51-8.SEC Purity 99%	(Lot OGN01)	2,500.6 µg/mL	+/- 14.5388 +/- 133.0777 +/- 133.2245	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene CAS # 95-50-1.SEC Purity 99%	(Lot 4NRGF-OT)	2,500.0 µg/mL	+/- 14.5352 +/- 133.0445 +/- 133.1912	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane CAS # 96-12-8.SEC Purity 97%	(Lot LC00408V)	2,500.5 µg/mL	+/- 14.5383 +/- 133.0732 +/- 133.2199	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene CAS # 120-82-1.SEC Purity 99%	(Lot OGO01)	2,501.0 µg/mL	+/- 14.5410 +/- 133.0977 +/- 133.2445	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene CAS # 87-68-3.SEC Purity 97%	(Lot 2009400)	2,501.0 µg/mL	+/- 14.5412 +/- 133.0990 +/- 133.2458	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene CAS # 91-20-3.SEC Purity 99%	(Lot 4KW3H-OO)	2,500.5 µg/mL	+/- 14.5381 +/- 133.0711 +/- 133.2178	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene		2,502.4 µg/mL	+/-	14.5490	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)		+/-	133.1709	µg/mL	Unstressed
	Purity 99%			+/-	133.3177	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)

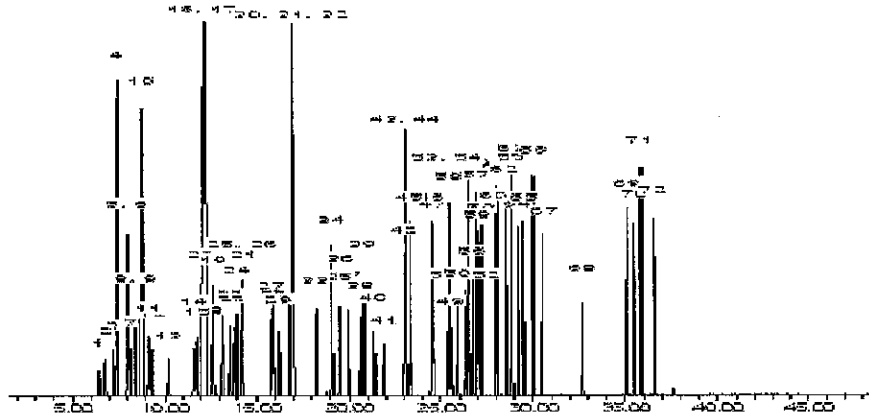
Carrier Gas:
helium-constant pressure 30 psi

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



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 Mage

Date Mixed: 07-Jan-2015 **Balance:** 1127510105

Tyler Brown

Tyler Brown - QA Analyst

Date Passed: 14-Jan-2015

<p>Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397</p>
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Reagent

VOA8260SURRES_00066

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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.:** 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_00067

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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_00077

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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. : 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_00054



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569724 **Lot No.:** A0109190

Description : 8260 List 1 / Std #6 Vinyl Acetate (2015)

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

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

Expiration Date : August 31, 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Vinyl acetate CAS # 108-05-4 Purity 99% (Lot STBC8935V)	5,023.0 µg/mL	+/- 29.4778	µg/mL	Gravimetric
			+/- 267.3430	µg/mL	Unstressed
			+/- 267.6378	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

VOA8260VARES_00055



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569724 **Lot No.:** A0109190

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

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

Expiration Date : August 31, 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Vinyl acetate CAS # 108-05-4 Purity 99%	5,023.0 µg/mL (Lot STBC8935V)	+/- 29.4778	µg/mL	Gravimetric
			+/- 267.3430	µg/mL	Unstressed
			+/- 267.6378	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_00077



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 568720 Lot No.: A0111006

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 : September 30, 2015 Storage: 10°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Acrolein CAS # 107-02-8 Purity 99% (Lot 150115JLM)	19,748.0 µg/mL	+/-	115.8923	µg/mL	Gravimetric
			+/-	633.2311	µg/mL	Unstressed
			+/-	736.0474	µg/mL	Stressed

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

Reagent

VOAACRRES2ND_00065



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. : 568720.sec **Lot No.:** A0111005

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 : September 30, 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)		
I	Acrolein CAS # 107-02-8.SEC Purity 97%	19,749.2 µg/mL (Lot 3593700)	+/- 115.6359	µg/mL	Gravimetric
			+/- 633.2214	µg/mL	Unstressed
			+/- 736.0506	µg/mL	Stressed

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

Reagent

VOARESEE1ST_00021



CERTIFIED REFERENCE MATERIAL



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Bellefonte, PA 16823-8812

Tel: (800)356-1688

Fax: (814)353-1309

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 568363-FL Lot No.: A0109701

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 : September 30, 2016 Storage: 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
			µg/mL	µg/mL	µg/mL	
1	3-Chlorobenzotrifluoride	5,000.0 µg/mL	---	+/- 29.3428	µg/mL	Gravimetric
	CAS # 98-15-7 (Lot 21324DO)		+/- 56.5231	µg/mL	Unstressed	
	Purity 99%		+/- 65.0021	µg/mL	Stressed	
2	4-Chlorobenzotrifluoride	5,003.0 µg/mL	+/- 29.3604	µg/mL	Gravimetric	
	CAS # 98-56-6 (Lot 08507BO)		+/- 56.5570	µg/mL	Unstressed	
	Purity 99%		+/- 65.0411	µg/mL	Stressed	
3	2-Chlorobenzotrifluoride	5,009.0 µg/mL	+/- 29.3956	µg/mL	Gravimetric	
	CAS # 88-16-4 (Lot I0316DQ)		+/- 56.6248	µg/mL	Unstressed	
	Purity 99%		+/- 65.1191	µg/mL	Stressed	
4	3-Chlorotoluene	5,012.0 µg/mL	+/- 29.4132	µg/mL	Gravimetric	
	CAS # 108-41-8 (Lot 13528LX)		+/- 56.6587	µg/mL	Unstressed	
	Purity 99%		+/- 65.1581	µg/mL	Stressed	
5	2,4-Dichlorobenzotrifluoride	5,013.0 µg/mL	+/- 29.4191	µg/mL	Gravimetric	
	CAS # 320-60-5 (Lot MKBL3552V)		+/- 56.6701	µg/mL	Unstressed	
	Purity 99%		+/- 65.1711	µg/mL	Stressed	
6	3,4-Dichlorobenzotrifluoride	5,018.0 µg/mL	+/- 29.4484	µg/mL	Gravimetric	
	CAS # 328-84-7 (Lot 11105EJV)		+/- 56.7266	µg/mL	Unstressed	
	Purity 99%		+/- 65.2361	µg/mL	Stressed	
7	2,5-Dichlorobenzotrifluoride	5,015.0 µg/mL	+/- 29.4308	µg/mL	Gravimetric	
	CAS # 320-50-3 (Lot 04415DSV)		+/- 56.6927	µg/mL	Unstressed	
	Purity 99%		+/- 65.1971	µg/mL	Stressed	

8	2,4-Dichlorotoluene	(Lot 07715JS)	5,021.0	$\mu\text{g/mL}$	+/-	29.4660	$\mu\text{g/mL}$	Gravimetric	
	CAS # 95-73-8					56.7605			Unstressed
	Purity 99%					65.2751			
9	2,5-Dichlorotoluene	(Lot 1381346V)	5,005.0	$\mu\text{g/mL}$	+/-	29.3721	$\mu\text{g/mL}$	Gravimetric	
	CAS # 19398-61-9					56.5796			Unstressed
	Purity 99%					65.0671			
10	2,6-Dichlorotoluene	(Lot 16921JS)	5,014.0	$\mu\text{g/mL}$	+/-	29.4250	$\mu\text{g/mL}$	Gravimetric	
	CAS # 118-69-4					56.6814			Unstressed
	Purity 99%					65.1841			
11	3,4-Dichlorotoluene	(Lot 09419AS)	5,011.0	$\mu\text{g/mL}$	+/-	29.4074	$\mu\text{g/mL}$	Gravimetric	
	CAS # 95-75-0					56.6474			Unstressed
	Purity 99%					65.1451			
12	2,3-Dichlorotoluene	(Lot 00317)	5,016.0	$\mu\text{g/mL}$	+/-	29.4367	$\mu\text{g/mL}$	Gravimetric	
	CAS # 32768-54-0					56.7040			Unstressed
	Purity 99%					65.2101			
13	2,4,5-Trichlorotoluene	(Lot 2490300)	5,000.0	$\mu\text{g/mL}$	+/-	29.3428	$\mu\text{g/mL}$	Gravimetric	
	CAS # 6639-30-1					56.5231			Unstressed
	Purity 99%					65.0021			
14	2,3,6-Trichlorotoluene	(Lot NT050444)	5,005.0	$\mu\text{g/mL}$	+/-	29.3721	$\mu\text{g/mL}$	Gravimetric	
	CAS # 2077-46-5					56.5796			Unstressed
	Purity 99%					65.0671			

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

Reagent

VOARESEE1ST_00025



CERTIFIED REFERENCE MATERIAL



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

Certificate of Analysis



www.restek.com

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 568363-FL Lot No.: A0109701

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 : September 30, 2016 Storage: 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
			µg/mL	µg/mL	µg/mL
1	3-Chlorobenzotrifluoride CAS # 98-15-7 Purity 99% (Lot 21324DO)	5,000.0 µg/mL	+/- 29.3428	µg/mL	Gravimetric
			+/- 56.5231	µg/mL	Unstressed
			+/- 65.0021	µg/mL	Stressed
2	4-Chlorobenzotrifluoride CAS # 98-56-6 Purity 99% (Lot 08507BO)	5,003.0 µg/mL	+/- 29.3604	µg/mL	Gravimetric
			+/- 56.5570	µg/mL	Unstressed
			+/- 65.0411	µg/mL	Stressed
3	2-Chlorobenzotrifluoride CAS # 88-16-4 Purity 99% (Lot I0316DQ)	5,009.0 µg/mL	+/- 29.3956	µg/mL	Gravimetric
			+/- 56.6248	µg/mL	Unstressed
			+/- 65.1191	µg/mL	Stressed
4	3-Chlorotoluene CAS # 108-41-8 Purity 99% (Lot 13528LX)	5,012.0 µg/mL	+/- 29.4132	µg/mL	Gravimetric
			+/- 56.6587	µg/mL	Unstressed
			+/- 65.1581	µg/mL	Stressed
5	2,4-Dichlorobenzotrifluoride CAS # 320-60-5 Purity 99% (Lot MKBL3552V)	5,013.0 µg/mL	+/- 29.4191	µg/mL	Gravimetric
			+/- 56.6701	µg/mL	Unstressed
			+/- 65.1711	µg/mL	Stressed
6	3,4-Dichlorobenzotrifluoride CAS # 328-84-7 Purity 99% (Lot 11105EJV)	5,018.0 µg/mL	+/- 29.4484	µg/mL	Gravimetric
			+/- 56.7266	µg/mL	Unstressed
			+/- 65.2361	µg/mL	Stressed
7	2,5-Dichlorobenzotrifluoride CAS # 320-50-3 Purity 99% (Lot 04415DSV)	5,015.0 µg/mL	+/- 29.4308	µg/mL	Gravimetric
			+/- 56.6927	µg/mL	Unstressed
			+/- 65.1971	µg/mL	Stressed

8	2,4-Dichlorotoluene	(Lot 07715JS)	5,021.0	$\mu\text{g/mL}$	+/-	29.4660	$\mu\text{g/mL}$	Gravimetric	
	CAS # 95-73-8					56.7605			Unstressed
	Purity 99%					65.2751			
9	2,5-Dichlorotoluene	(Lot 1381346V)	5,005.0	$\mu\text{g/mL}$	+/-	29.3721	$\mu\text{g/mL}$	Gravimetric	
	CAS # 19398-61-9					56.5796			Unstressed
	Purity 99%					65.0671			
10	2,6-Dichlorotoluene	(Lot 16921JS)	5,014.0	$\mu\text{g/mL}$	+/-	29.4250	$\mu\text{g/mL}$	Gravimetric	
	CAS # 118-69-4					56.6814			Unstressed
	Purity 99%					65.1841			
11	3,4-Dichlorotoluene	(Lot 09419AS)	5,011.0	$\mu\text{g/mL}$	+/-	29.4074	$\mu\text{g/mL}$	Gravimetric	
	CAS # 95-75-0					56.6474			Unstressed
	Purity 99%					65.1451			
12	2,3-Dichlorotoluene	(Lot 00317)	5,016.0	$\mu\text{g/mL}$	+/-	29.4367	$\mu\text{g/mL}$	Gravimetric	
	CAS # 32768-54-0					56.7040			Unstressed
	Purity 99%					65.2101			
13	2,4,5-Trichlorotoluene	(Lot 2490300)	5,000.0	$\mu\text{g/mL}$	+/-	29.3428	$\mu\text{g/mL}$	Gravimetric	
	CAS # 6639-30-1					56.5231			Unstressed
	Purity 99%					65.0021			
14	2,3,6-Trichlorotoluene	(Lot NT050444)	5,005.0	$\mu\text{g/mL}$	+/-	29.3721	$\mu\text{g/mL}$	Gravimetric	
	CAS # 2077-46-5					56.5796			Unstressed
	Purity 99%					65.0671			

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.: 180-48181-1

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-18S-0/1-0	180-48181-1	104	94	92	88
HD-MW-147A-0/1-0	180-48181-2	108	98	93	86
HD-MW-93S-0/1-0	180-48181-3	109	94	93	88
HD-MW-93S-0/1-0 DL	180-48181-3 DL	106	91	91	88
HD-MW-93D-0/1-0	180-48181-4	108	95	89	85
HD-MW-93D-0/1-0 DL	180-48181-4 DL	108	97	92	88
HD-MW-75S-0/1-0	180-48181-5	110	100	88	84
HD-MW-75S-0/1-0 DL	180-48181-5 DL	107	92	88	85
HD-MW-75D-0/1-0	180-48181-6	113	97	90	86
HD-MW-75D-0/1-0 DL	180-48181-6 DL	107	95	90	85
HD-MW-37D-0/1-0	180-48181-7	110	110	96	90
HD-QC3-0/1-1	180-48181-8	109	106	95	83
HD-QC3-0/1-1 DL	180-48181-8 DL	104	96	90	86
HD-QC9-0/1-2	180-48181-9	107	98	92	85
	MB 180-155766/5	102	97	94	87
	MB 180-155869/5	105	103	99	88
	MB 180-155884/4	105	93	91	88
	MB 180-156037/6	105	95	93	88
	LCS 180-155766/8	92	88	95	88
	LCS 180-155869/7	106	105	111	101
	LCS 180-155884/7	91	82	99	90
	LCS 180-156037/11	91	84	100	96
HD-MW-147A-0/1-0 MS	180-48181-2 MS	92	83	97	93
HD-MW-147A-0/1-0 MSD	180-48181-2 MSD	93	85	98	93

QC LIMITS

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

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

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Pittsburgh

Job No.: 180-48181-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: 51003008.D

Lab ID: LCS 180-155766/8

Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloromethane	10.0	11.1	111	50-139	
Vinyl chloride	10.0	10.1	101	53-138	
Bromomethane	10.0	11.0	110	33-150	
Chloroethane	10.0	9.10	91	36-142	
1,1-Dichloroethene	10.0	9.39	94	65-136	
Acetone	20.0	18.5	92	22-150	
Carbon disulfide	10.0	8.56	86	54-132	
Methylene Chloride	10.0	9.86	99	63-129	
trans-1,2-Dichloroethene	10.0	9.72	97	73-126	
Methyl tert-butyl ether	10.0	9.38	94	64-123	
1,1-Dichloroethane	10.0	8.94	89	73-126	
cis-1,2-Dichloroethene	10.0	9.55	96	70-120	
Bromochloromethane	10.0	10.4	104	70-127	
2-Butanone (MEK)	20.0	21.6	108	39-138	
Chloroform	10.0	9.29	93	72-127	
1,1,1-Trichloroethane	10.0	9.23	92	63-133	
Carbon tetrachloride	10.0	9.88	99	55-150	
Benzene	10.0	9.60	96	80-120	
1,2-Dichloroethane	10.0	9.16	92	68-132	
Trichloroethene	10.0	10.2	102	73-120	
1,2-Dichloropropane	10.0	9.55	95	76-124	
Bromodichloromethane	10.0	9.03	90	66-130	
cis-1,3-Dichloropropene	10.0	8.34	83	66-120	
4-Methyl-2-pentanone (MIBK)	20.0	18.4	92	45-145	
Toluene	10.0	10.2	102	80-123	
trans-1,3-Dichloropropene	10.0	8.65	86	65-125	
1,1,2-Trichloroethane	10.0	10.4	104	77-127	
Tetrachloroethene	10.0	10.8	108	70-135	
2-Hexanone	20.0	18.5	93	25-132	
Dibromochloromethane	10.0	9.76	98	60-140	
1,2-Dibromoethane (EDB)	10.0	10.2	102	74-123	
Chlorobenzene	10.0	10.2	102	80-120	
1,1,1,2-Tetrachloroethane	10.0	10.3	103	63-140	
Ethylbenzene	10.0	10.2	102	72-126	
Xylenes, Total	20.0	20.9	105	76-128	
Styrene	10.0	10.9	109	71-127	
Bromoform	10.0	9.91	99	46-150	
1,1,2,2-Tetrachloroethane	10.0	10.6	106	62-125	
Acrylonitrile	100	104	104	30-140	
1,4-Dioxane	200	248	124	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.: 180-48181-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: 61005007.D

Lab ID: LCS 180-155869/7

Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloromethane	10.0	12.9	129	50-139	
Vinyl chloride	10.0	10.9	109	53-138	
Bromomethane	10.0	8.96	90	33-150	
Chloroethane	10.0	10.8	108	36-142	
1,1-Dichloroethene	10.0	9.60	96	65-136	
Acetone	20.0	23.0	115	22-150	
Carbon disulfide	10.0	9.74	97	54-132	
Methylene Chloride	10.0	9.67	97	63-129	
trans-1,2-Dichloroethene	10.0	9.82	98	73-126	
Methyl tert-butyl ether	10.0	9.56	96	64-123	
1,1-Dichloroethane	10.0	10.7	107	73-126	
cis-1,2-Dichloroethene	10.0	9.33	93	70-120	
Bromochloromethane	10.0	11.1	111	70-127	
2-Butanone (MEK)	20.0	22.5	113	39-138	
Chloroform	10.0	9.92	99	72-127	
1,1,1-Trichloroethane	10.0	9.71	97	63-133	
Carbon tetrachloride	10.0	11.2	112	55-150	
Benzene	10.0	10.9	109	80-120	
1,2-Dichloroethane	10.0	10.6	106	68-132	
Trichloroethene	10.0	11.7	117	73-120	
1,2-Dichloropropane	10.0	11.3	113	76-124	
Bromodichloromethane	10.0	9.91	99	66-130	
cis-1,3-Dichloropropene	10.0	10.6	106	66-120	
4-Methyl-2-pentanone (MIBK)	20.0	23.0	115	45-145	
Toluene	10.0	10.7	107	80-123	
trans-1,3-Dichloropropene	10.0	10.3	103	65-125	
1,1,2-Trichloroethane	10.0	10.8	108	77-127	
Tetrachloroethene	10.0	11.8	118	70-135	
2-Hexanone	20.0	25.9	130	25-132	
Dibromochloromethane	10.0	11.6	116	60-140	
1,2-Dibromoethane (EDB)	10.0	10.8	108	74-123	
Chlorobenzene	10.0	10.9	109	80-120	
1,1,1,2-Tetrachloroethane	10.0	11.7	117	63-140	
Ethylbenzene	10.0	10.7	107	72-126	
Xylenes, Total	20.0	21.3	107	76-128	
Styrene	10.0	11.4	114	71-127	
Bromoform	10.0	12.6	126	46-150	
1,1,2,2-Tetrachloroethane	10.0	10.5	105	62-125	
Acrylonitrile	100	128	128	30-140	
1,4-Dioxane	200	207	103	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.: 180-48181-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: 51005007.D

Lab ID: LCS 180-155884/7

Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloromethane	10.0	10.3	103	50-139	
Vinyl chloride	10.0	9.58	96	53-138	
Bromomethane	10.0	9.95	100	33-150	
Chloroethane	10.0	8.88	89	36-142	
1,1-Dichloroethene	10.0	8.87	89	65-136	
Acetone	20.0	17.7	88	22-150	
Carbon disulfide	10.0	8.59	86	54-132	
Methylene Chloride	10.0	8.64	86	63-129	
trans-1,2-Dichloroethene	10.0	8.88	89	73-126	
Methyl tert-butyl ether	10.0	8.16	82	64-123	
1,1-Dichloroethane	10.0	8.25	83	73-126	
cis-1,2-Dichloroethene	10.0	8.60	86	70-120	
Bromochloromethane	10.0	9.33	93	70-127	
2-Butanone (MEK)	20.0	17.9	89	39-138	
Chloroform	10.0	8.43	84	72-127	
1,1,1-Trichloroethane	10.0	8.58	86	63-133	
Carbon tetrachloride	10.0	9.51	95	55-150	
Benzene	10.0	8.97	90	80-120	
1,2-Dichloroethane	10.0	8.12	81	68-132	
Trichloroethene	10.0	9.53	95	73-120	
1,2-Dichloropropane	10.0	8.90	89	76-124	
Bromodichloromethane	10.0	8.82	88	66-130	
cis-1,3-Dichloropropene	10.0	8.07	81	66-120	
4-Methyl-2-pentanone (MIBK)	20.0	16.0	80	45-145	
Toluene	10.0	9.74	97	80-123	
trans-1,3-Dichloropropene	10.0	8.30	83	65-125	
1,1,2-Trichloroethane	10.0	9.41	94	77-127	
Tetrachloroethene	10.0	10.3	103	70-135	
2-Hexanone	20.0	15.4	77	25-132	
Dibromochloromethane	10.0	9.52	95	60-140	
1,2-Dibromoethane (EDB)	10.0	9.34	93	74-123	
Chlorobenzene	10.0	9.61	96	80-120	
1,1,1,2-Tetrachloroethane	10.0	9.60	96	63-140	
Ethylbenzene	10.0	9.77	98	72-126	
Xylenes, Total	20.0	19.6	98	76-128	
Styrene	10.0	10.1	101	71-127	
Bromoform	10.0	9.47	95	46-150	
1,1,2,2-Tetrachloroethane	10.0	9.54	95	62-125	
Acrylonitrile	100	90.6	91	30-140	
1,4-Dioxane	200	213	107	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.: 180-48181-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: 51006011.D

Lab ID: LCS 180-156037/11

Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloromethane	10.0	9.24	92	50-139	
Vinyl chloride	10.0	8.06	81	53-138	
Bromomethane	10.0	8.51	85	33-150	
Chloroethane	10.0	6.73	67	36-142	
1,1-Dichloroethene	10.0	9.30	93	65-136	
Acetone	20.0	18.6	93	22-150	
Carbon disulfide	10.0	9.90	99	54-132	
Methylene Chloride	10.0	9.89	99	63-129	
trans-1,2-Dichloroethene	10.0	9.43	94	73-126	
Methyl tert-butyl ether	10.0	9.32	93	64-123	
1,1-Dichloroethane	10.0	8.69	87	73-126	
cis-1,2-Dichloroethene	10.0	9.50	95	70-120	
Bromochloromethane	10.0	10.5	105	70-127	
2-Butanone (MEK)	20.0	20.7	103	39-138	
Chloroform	10.0	8.86	89	72-127	
1,1,1-Trichloroethane	10.0	8.97	90	63-133	
Carbon tetrachloride	10.0	9.48	95	55-150	
Benzene	10.0	9.28	93	80-120	
1,2-Dichloroethane	10.0	8.53	85	68-132	
Trichloroethene	10.0	10.1	101	73-120	
1,2-Dichloropropane	10.0	9.17	92	76-124	
Bromodichloromethane	10.0	9.23	92	66-130	
cis-1,3-Dichloropropene	10.0	8.67	87	66-120	
4-Methyl-2-pentanone (MIBK)	20.0	20.7	103	45-145	
Toluene	10.0	10.3	103	80-123	
trans-1,3-Dichloropropene	10.0	9.13	91	65-125	
1,1,2-Trichloroethane	10.0	10.4	104	77-127	
Tetrachloroethene	10.0	10.8	108	70-135	
2-Hexanone	20.0	21.2	106	25-132	
Dibromochloromethane	10.0	10.9	109	60-140	
1,2-Dibromoethane (EDB)	10.0	10.6	106	74-123	
Chlorobenzene	10.0	10.6	106	80-120	
1,1,1,2-Tetrachloroethane	10.0	10.6	106	63-140	
Ethylbenzene	10.0	10.7	107	72-126	
Xylenes, Total	20.0	21.6	108	76-128	
Styrene	10.0	11.2	112	71-127	
Bromoform	10.0	11.0	110	46-150	
1,1,2,2-Tetrachloroethane	10.0	10.7	107	62-125	
Acrylonitrile	100	99.4	99	30-140	
1,4-Dioxane	200	234	117	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.: 180-48181-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: 51003009.D

Lab ID: 180-48181-2 MS

Client ID: HD-MW-147A-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	ND	10.3	103	50-139	
Vinyl chloride	10.0	ND	9.47	95	53-138	
Bromomethane	10.0	ND	10.1	101	33-150	
Chloroethane	10.0	ND	8.27	83	36-142	
1,1-Dichloroethene	10.0	0.53 J	9.39	89	65-136	
Acetone	20.0	ND	17.9	89	22-150	
Carbon disulfide	10.0	ND	8.15	81	54-132	
Methylene Chloride	10.0	ND	8.53	85	63-129	
trans-1,2-Dichloroethene	10.0	ND	8.99	90	73-126	
Methyl tert-butyl ether	10.0	ND	8.71	87	64-123	
1,1-Dichloroethane	10.0	0.14 J	8.57	84	73-126	
cis-1,2-Dichloroethene	10.0	11	16.9	64	70-120	F1
Bromochloromethane	10.0	ND	9.25	92	70-127	
2-Butanone (MEK)	20.0	ND	18.9	95	39-138	
Chloroform	10.0	0.24 J	8.78	85	72-127	
1,1,1-Trichloroethane	10.0	0.46 J	8.87	84	63-133	
Carbon tetrachloride	10.0	ND	9.14	91	55-150	
Benzene	10.0	ND	8.88	89	80-120	
1,2-Dichloroethane	10.0	ND	8.16	82	68-132	
Trichloroethene	10.0	11	17.7	68	73-120	F1
1,2-Dichloropropane	10.0	ND	8.66	87	76-124	
Bromodichloromethane	10.0	ND	8.43	84	66-130	
cis-1,3-Dichloropropene	10.0	ND	8.08	81	66-120	
4-Methyl-2-pentanone (MIBK)	20.0	ND	17.5	88	45-145	
Toluene	10.0	ND	9.72	97	80-123	
trans-1,3-Dichloropropene	10.0	ND	8.31	83	65-125	
1,1,2-Trichloroethane	10.0	ND	9.75	97	77-127	
Tetrachloroethene	10.0	6.3	15.7	94	70-135	
2-Hexanone	20.0	ND	16.3	82	25-132	
Dibromochloromethane	10.0	ND	9.29	93	60-140	
1,2-Dibromoethane (EDB)	10.0	ND	9.85	98	74-123	
Chlorobenzene	10.0	ND	9.70	97	80-120	
1,1,1,2-Tetrachloroethane	10.0	ND	9.94	99	63-140	
Ethylbenzene	10.0	ND	9.63	96	72-126	
Xylenes, Total	20.0	ND	19.6	98	76-128	
Styrene	10.0	ND	10.2	102	71-127	
Bromoform	10.0	ND	8.83	88	46-150	
1,1,2,2-Tetrachloroethane	10.0	ND	9.96	100	62-125	
Acrylonitrile	100	ND	91.4	91	30-140	
1,4-Dioxane	200	ND	231	116	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.: 180-48181-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: 51003010.D

Lab ID: 180-48181-2 MSD

Client ID: HD-MW-147A-0/1-0 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Chloromethane	10.0	10.4	104	1	35	50-139	
Vinyl chloride	10.0	9.13	91	4	35	53-138	
Bromomethane	10.0	10.4	104	3	35	33-150	
Chloroethane	10.0	8.27	83	0	35	36-142	
1,1-Dichloroethene	10.0	8.89	84	5	35	65-136	
Acetone	20.0	20.6	103	14	35	22-150	
Carbon disulfide	10.0	7.61	76	7	35	54-132	
Methylene Chloride	10.0	8.98	90	5	35	63-129	
trans-1,2-Dichloroethene	10.0	8.78	88	2	35	73-126	
Methyl tert-butyl ether	10.0	9.07	91	4	35	64-123	
1,1-Dichloroethane	10.0	8.56	84	0	35	73-126	
cis-1,2-Dichloroethene	10.0	17.2	66	2	35	70-120	F1
Bromochloromethane	10.0	10.3	103	10	35	70-127	
2-Butanone (MEK)	20.0	20.2	101	6	35	39-138	
Chloroform	10.0	8.93	87	2	35	72-127	
1,1,1-Trichloroethane	10.0	8.73	83	2	35	63-133	
Carbon tetrachloride	10.0	8.74	87	4	35	55-150	
Benzene	10.0	9.12	91	3	32	80-120	
1,2-Dichloroethane	10.0	8.55	85	5	32	68-132	
Trichloroethene	10.0	17.6	67	0	35	73-120	F1
1,2-Dichloropropane	10.0	9.06	91	4	34	76-124	
Bromodichloromethane	10.0	8.39	84	1	35	66-130	
cis-1,3-Dichloropropene	10.0	8.65	87	7	35	66-120	
4-Methyl-2-pentanone (MIBK)	20.0	18.1	90	3	35	45-145	
Toluene	10.0	9.70	97	0	35	80-123	
trans-1,3-Dichloropropene	10.0	8.65	87	4	35	65-125	
1,1,2-Trichloroethane	10.0	9.88	99	1	35	77-127	
Tetrachloroethene	10.0	15.4	91	2	35	70-135	
2-Hexanone	20.0	17.9	90	9	35	25-132	
Dibromochloromethane	10.0	9.32	93	0	35	60-140	
1,2-Dibromoethane (EDB)	10.0	10.1	101	2	35	74-123	
Chlorobenzene	10.0	9.85	99	2	29	80-120	
1,1,1,2-Tetrachloroethane	10.0	9.72	97	2	34	63-140	
Ethylbenzene	10.0	9.59	96	0	33	72-126	
Xylenes, Total	20.0	19.4	97	1	32	76-128	
Styrene	10.0	10.3	103	1	34	71-127	
Bromoform	10.0	9.28	93	5	35	46-150	
1,1,2,2-Tetrachloroethane	10.0	9.80	98	2	35	62-125	
Acrylonitrile	100	93.3	93	2	35	30-140	
1,4-Dioxane	200	247	123	6	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.: 180-48181-1
 SDG No.: _____
 Lab File ID: 51003005.D Lab Sample ID: MB 180-155766/5
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: CHHP5 Date Analyzed: 10/03/2015 13:16
 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-147A-0/1-0	180-48181-2	51003006.D	10/03/2015 13:50
HD-QC9-0/1-2	180-48181-9	51003007.D	10/03/2015 14:14
	LCS 180-155766/8	51003008.D	10/03/2015 14:38
HD-MW-147A-0/1-0 MS	180-48181-2 MS	51003009.D	10/03/2015 15:02
HD-MW-147A-0/1-0 MSD	180-48181-2 MSD	51003010.D	10/03/2015 15:27

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
SDG No.: _____
Lab File ID: 61005005.D Lab Sample ID: MB 180-155869/5
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: CHHP6 Date Analyzed: 10/05/2015 11:25
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 180-155869/7	61005007.D	10/05/2015 12:29
HD-MW-37D-0/1-0	180-48181-7	61005020.D	10/05/2015 17:46
HD-QC3-0/1-1	180-48181-8	61005021.D	10/05/2015 18:10

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Lab File ID: 51005004.D Lab Sample ID: MB 180-155884/4
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: CHHP5 Date Analyzed: 10/05/2015 11:57
 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 180-155884/7	51005007.D	10/05/2015 13:34
HD-MW-93D-0/1-0 DL	180-48181-4 DL	51005017.D	10/05/2015 17:35
HD-MW-75S-0/1-0	180-48181-5	51005018.D	10/05/2015 17:59
HD-MW-75D-0/1-0	180-48181-6	51005019.D	10/05/2015 18:23

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Lab File ID: 51006006.D Lab Sample ID: MB 180-156037/6
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: CHHP5 Date Analyzed: 10/06/2015 13:50
 GC Column: DB-624 ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 180-156037/11	51006011.D	10/06/2015 16:08
HD-MW-18S-0/1-0	180-48181-1	51006013.D	10/06/2015 17:08
HD-MW-93S-0/1-0 DL	180-48181-3 DL	51006014.D	10/06/2015 17:32
HD-MW-75S-0/1-0 DL	180-48181-5 DL	51006015.D	10/06/2015 17:56
HD-MW-75D-0/1-0 DL	180-48181-6 DL	51006017.D	10/06/2015 18:44
HD-QC3-0/1-1 DL	180-48181-8 DL	51006018.D	10/06/2015 19:08
HD-MW-93S-0/1-0	180-48181-3	51006021.D	10/06/2015 20:21
HD-MW-93D-0/1-0	180-48181-4	51006023.D	10/06/2015 21:09

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Lab File ID: 50826007.D BFB Injection Date: 08/26/2015
 Instrument ID: CHHP5 BFB Injection Time: 14:01
 Analysis Batch No.: 151868

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	23.5
75	30.0 - 60.0 % of mass 95	49.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.6
173	Less than 2.0 % of mass 174	0.4 (0.5)1
174	50.0 - 120.00 % of mass 95	77.9
175	5.0 - 9.0 % of mass 174	6.1 (7.9)1
176	95.0 - 101.0 % of mass 174	75.2 (96.6)1
177	5.0 - 9.0 % of mass 176	4.9 (6.6)2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 180-151868/6	50826006.D	08/26/2015	15:04
	IC 180-151868/8	50826008.D	08/26/2015	15:28
	ICIS 180-151868/9	50826009.D	08/26/2015	15:52
	IC 180-151868/10	50826010.D	08/26/2015	16:16
	IC 180-151868/11	50826011.D	08/26/2015	16:40
	IC 180-151868/12	50826012.D	08/26/2015	17:04
	IC 180-151868/13	50826013.D	08/26/2015	17:28
	IC 180-151868/14	50826014.D	08/26/2015	17:52

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Lab File ID: 51003004.D BFB Injection Date: 10/03/2015
 Instrument ID: CHHP5 BFB Injection Time: 11:41
 Analysis Batch No.: 155766

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	21.2
75	30.0 - 60.0 % of mass 95	45.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.8
173	Less than 2.0 % of mass 174	0.5 (0.5)1
174	50.0 - 120.00 % of mass 95	89.6
175	5.0 - 9.0 % of mass 174	6.7 (7.5)1
176	95.0 - 101.0 % of mass 174	87.5 (97.7)1
177	5.0 - 9.0 % of mass 176	5.4 (6.2)2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 180-155766/2	51003002.D	10/03/2015	12:18
	MB 180-155766/5	51003005.D	10/03/2015	13:16
HD-MW-147A-0/1-0	180-48181-2	51003006.D	10/03/2015	13:50
HD-QC9-0/1-2	180-48181-9	51003007.D	10/03/2015	14:14
	LCS 180-155766/8	51003008.D	10/03/2015	14:38
HD-MW-147A-0/1-0 MS	180-48181-2 MS	51003009.D	10/03/2015	15:02
HD-MW-147A-0/1-0 MSD	180-48181-2 MSD	51003010.D	10/03/2015	15:27

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Lab File ID: 51005001.D BFB Injection Date: 10/05/2015
 Instrument ID: CHHP5 BFB Injection Time: 10:17
 Analysis Batch No.: 155884

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	47.7
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	0.8 (0.9)1
174	50.0 - 120.00 % of mass 95	83.8
175	5.0 - 9.0 % of mass 174	6.5 (7.8)1
176	95.0 - 101.0 % of mass 174	79.8 (95.3)1
177	5.0 - 9.0 % of mass 176	5.6 (7.0)2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 180-155884/2	51005002.D	10/05/2015	10:56
	MB 180-155884/4	51005004.D	10/05/2015	11:57
	LCS 180-155884/7	51005007.D	10/05/2015	13:34
HD-MW-93D-0/1-0 DL	180-48181-4 DL	51005017.D	10/05/2015	17:35
HD-MW-75S-0/1-0	180-48181-5	51005018.D	10/05/2015	17:59
HD-MW-75D-0/1-0	180-48181-6	51005019.D	10/05/2015	18:23

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Lab File ID: 51006005.D BFB Injection Date: 10/06/2015
 Instrument ID: CHHP5 BFB Injection Time: 12:01
 Analysis Batch No.: 156037

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	21.1
75	30.0 - 60.0 % of mass 95	43.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.6
173	Less than 2.0 % of mass 174	1.2 (1.5)1
174	50.0 - 120.00 % of mass 95	81.2
175	5.0 - 9.0 % of mass 174	6.5 (8.0)1
176	95.0 - 101.0 % of mass 174	78.1 (96.2)1
177	5.0 - 9.0 % of mass 176	5.5 (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
	CCVIS 180-156037/2	51006002.D	10/06/2015	12:41
	MB 180-156037/6	51006006.D	10/06/2015	13:50
	LCS 180-156037/11	51006011.D	10/06/2015	16:08
HD-MW-18S-0/1-0	180-48181-1	51006013.D	10/06/2015	17:08
HD-MW-93S-0/1-0 DL	180-48181-3 DL	51006014.D	10/06/2015	17:32
HD-MW-75S-0/1-0 DL	180-48181-5 DL	51006015.D	10/06/2015	17:56
HD-MW-75D-0/1-0 DL	180-48181-6 DL	51006017.D	10/06/2015	18:44
HD-QC3-0/1-1 DL	180-48181-8 DL	51006018.D	10/06/2015	19:08
HD-MW-93S-0/1-0	180-48181-3	51006021.D	10/06/2015	20:21
HD-MW-93D-0/1-0	180-48181-4	51006023.D	10/06/2015	21:09

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Lab File ID: 60731001.D BFB Injection Date: 07/31/2015
 Instrument ID: CHHP6 BFB Injection Time: 12:10
 Analysis Batch No.: 149469

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	21.4
75	30.0 - 60.0 % of mass 95	56.4
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	0.2 (0.3)1
174	50.0 - 120.00 % of mass 95	62.3
175	5.0 - 9.0 % of mass 174	4.7 (7.5)1
176	95.0 - 101.0 % of mass 174	62.6 (100.6)1
177	5.0 - 9.0 % of mass 176	4.2 (6.7)2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 180-149469/4	60731004.D	07/31/2015	14:00
	ICIS 180-149469/5	60731005.D	07/31/2015	14:24
	IC 180-149469/6	60731006.D	07/31/2015	14:49
	IC 180-149469/7	60731007.D	07/31/2015	15:13
	IC 180-149469/8	60731008.D	07/31/2015	15:37
	IC 180-149469/9	60731009.D	07/31/2015	16:01
	IC 180-149469/10	60731010.D	07/31/2015	16:25
	IC 180-149469/14	60731014.D	07/31/2015	18:02

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Lab File ID: 61005001.D BFB Injection Date: 10/05/2015
 Instrument ID: CHHP6 BFB Injection Time: 09:22
 Analysis Batch No.: 155869

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	53.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.9
173	Less than 2.0 % of mass 174	0.4 (0.6)1
174	50.0 - 120.00 % of mass 95	77.0
175	5.0 - 9.0 % of mass 174	6.2 (8.0)1
176	95.0 - 101.0 % of mass 174	77.6 (100.7)1
177	5.0 - 9.0 % of mass 176	3.9 (5.1)2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 180-155869/2	61005002.D	10/05/2015	10:05
	CCV 180-155869/3	61005003.D	10/05/2015	10:29
	MB 180-155869/5	61005005.D	10/05/2015	11:25
	LCS 180-155869/7	61005007.D	10/05/2015	12:29
HD-MW-37D-0/1-0	180-48181-7	61005020.D	10/05/2015	17:46
HD-QC3-0/1-1	180-48181-8	61005021.D	10/05/2015	18:10

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Sample No.: CCVIS 180-155766/2 Date Analyzed: 10/03/2015 12:18
 Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): 51003002.D Heated Purge: (Y/N) N
 Calibration ID: 25113

	TBA		FB		CBZ		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	130763	4.28	372851	7.29	90914	10.39	
UPPER LIMIT	261526	4.78	745702	7.79	181828	10.89	
LOWER LIMIT	65382	3.78	186426	6.79	45457	9.89	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-155766/5		147960	4.26	342184	7.30	87845	10.39
180-48181-2	HD-MW-147A-0/1-0	140720	4.26	329167	7.29	86874	10.39
180-48181-9	HD-QC9-0/1-2	135615	4.26	324396	7.29	84641	10.39
LCS 180-155766/8		119352	4.29	368008	7.29	88784	10.39
180-48181-2 MS	HD-MW-147A-0/1-0 MS	136911	4.28	408628	7.29	97033	10.39
180-48181-2 MSD	HD-MW-147A-0/1-0 MSD	141804	4.29	408732	7.29	98256	10.39

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.: 180-48181-1
 SDG No.: _____
 Sample No.: CCVIS 180-155766/2 Date Analyzed: 10/03/2015 12:18
 Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): 51003002.D Heated Purge: (Y/N) N
 Calibration ID: 25113

	DCB		AREA #	RT #	AREA #	RT #	AREA #	RT #
	AREA #	RT #						
12/24 HOUR STD	139552	12.73						
UPPER LIMIT	279104	13.23						
LOWER LIMIT	69776	12.23						
LAB SAMPLE ID	CLIENT SAMPLE ID							
MB 180-155766/5		123643	12.73					
180-48181-2	HD-MW-147A-0/1-0	122150	12.73					
180-48181-9	HD-QC9-0/1-2	117836	12.73					
LCS 180-155766/8		140068	12.73					
180-48181-2 MS	HD-MW-147A-0/1-0 MS	145300	12.73					
180-48181-2 MSD	HD-MW-147A-0/1-0 MSD	147512	12.73					

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.: 180-48181-1
 SDG No.: _____
 Sample No.: CCVIS 180-155884/2 Date Analyzed: 10/05/2015 10:56
 Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): 51005002.D Heated Purge: (Y/N) N
 Calibration ID: 25113

	TBA		FB		CBZ		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	125348	4.28	389208	7.29	92325	10.39	
UPPER LIMIT	250696	4.78	778416	7.79	184650	10.89	
LOWER LIMIT	62674	3.78	194604	6.79	46163	9.89	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-155884/4		159358	4.27	345349	7.29	89221	10.39
LCS 180-155884/7		119053	4.28	418221	7.29	101020	10.39
180-48181-4 DL	HD-MW-93D-0/1-0 DL	146084	4.27	329329	7.29	84752	10.39
180-48181-5	HD-MW-75S-0/1-0	134738	4.27	312864	7.29	88426	10.39
180-48181-6	HD-MW-75D-0/1-0	120544	4.27	312294	7.30	86516	10.39

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.: 180-48181-1
 SDG No.: _____
 Sample No.: CCVIS 180-155884/2 Date Analyzed: 10/05/2015 10:56
 Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): 51005002.D Heated Purge: (Y/N) N
 Calibration ID: 25113

	DCB		AREA #	RT #	AREA #	RT #
	AREA #	RT #				
12/24 HOUR STD	138714	12.73				
UPPER LIMIT	277428	13.23				
LOWER LIMIT	69357	12.23				
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 180-155884/4		130925	12.74			
LCS 180-155884/7		143991	12.73			
180-48181-4 DL	HD-MW-93D-0/1-0 DL	124229	12.73			
180-48181-5	HD-MW-75S-0/1-0	115476	12.73			
180-48181-6	HD-MW-75D-0/1-0	116984	12.73			

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.: 180-48181-1
 SDG No.: _____
 Sample No.: CCVIS 180-156037/2 Date Analyzed: 10/06/2015 12:41
 Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): 51006002.D Heated Purge: (Y/N) N
 Calibration ID: 25113

	TBA		FB		CBZ		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	119717	4.28	353123	7.29	84941	10.39	
UPPER LIMIT	239434	4.78	706246	7.79	169882	10.89	
LOWER LIMIT	59859	3.78	176562	6.79	42471	9.89	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-156037/6		137828	4.27	302565	7.29	79543	10.39
LCS 180-156037/11		131161	4.28	352965	7.29	80867	10.39
180-48181-1	HD-MW-18S-0/1-0	155703	4.27	302798	7.29	78760	10.39
180-48181-3 DL	HD-MW-93S-0/1-0 DL	125244	4.27	291731	7.29	74641	10.39
180-48181-5 DL	HD-MW-75S-0/1-0 DL	134212	4.27	297232	7.29	79617	10.39
180-48181-6 DL	HD-MW-75D-0/1-0 DL	129312	4.27	279092	7.30	72002	10.39
180-48181-8 DL	HD-QC3-0/1-1 DL	133712	4.26	278190	7.30	75395	10.39
180-48181-3	HD-MW-93S-0/1-0	118735	4.27	275532	7.30	71803	10.39
180-48181-4	HD-MW-93D-0/1-0	134499	4.27	278811	7.30	76162	10.39

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.: 180-48181-1
 SDG No.: _____
 Sample No.: CCVIS 180-156037/2 Date Analyzed: 10/06/2015 12:41
 Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): 51006002.D Heated Purge: (Y/N) N
 Calibration ID: 25113

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		132831	12.73				
UPPER LIMIT		265662	13.23				
LOWER LIMIT		66416	12.23				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-156037/6		115658	12.73				
LCS 180-156037/11		132044	12.73				
180-48181-1	HD-MW-18S-0/1-0	118157	12.73				
180-48181-3 DL	HD-MW-93S-0/1-0 DL	109330	12.73				
180-48181-5 DL	HD-MW-75S-0/1-0 DL	108903	12.73				
180-48181-6 DL	HD-MW-75D-0/1-0 DL	102041	12.73				
180-48181-8 DL	HD-QC3-0/1-1 DL	108160	12.73				
180-48181-3	HD-MW-93S-0/1-0	105955	12.73				
180-48181-4	HD-MW-93D-0/1-0	110395	12.73				

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.: 180-48181-1
 SDG No.: _____
 Sample No.: CCVIS 180-155869/2 Date Analyzed: 10/05/2015 10:05
 Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): 61005002.D Heated Purge: (Y/N) N
 Calibration ID: 25315

	TBA		FB		CBZ		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	149860	4.24	445228	7.29	102974	10.40	
UPPER LIMIT	299720	4.74	890456	7.79	205948	10.90	
LOWER LIMIT	74930	3.74	222614	6.79	51487	9.90	
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 180-155869/3		167523	4.23	410675	7.29	91258	10.40
MB 180-155869/5		183859	4.24	425468	7.29	103279	10.40
LCS 180-155869/7		175396	4.24	416212	7.28	93412	10.40
180-48181-7	HD-MW-37D-0/1-0	186034	4.24	408980	7.29	107815	10.40
180-48181-8	HD-QC3-0/1-1	178621	4.23	412104	7.29	107887	10.39

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.: 180-48181-1
 SDG No.: _____
 Sample No.: CCVIS 180-155869/2 Date Analyzed: 10/05/2015 10:05
 Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): 61005002.D Heated Purge: (Y/N) N
 Calibration ID: 25315

	DCB					
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	183514	12.75				
UPPER LIMIT	367028	13.25				
LOWER LIMIT	91757	12.25				
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCV 180-155869/3		143774	12.75			
MB 180-155869/5		169357	12.75			
LCS 180-155869/7		168494	12.75			
180-48181-7	HD-MW-37D-0/1-0	175358	12.75			
180-48181-8	HD-QC3-0/1-1	176422	12.75			

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.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-MW-18S-0/1-0 Lab Sample ID: 180-48181-1
 Matrix: Water Lab File ID: 51006013.D
 Analysis Method: 8260C Date Collected: 09/25/2015 08:20
 Sample wt/vol: 5 (mL) Date Analyzed: 10/06/2015 17:08
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 156037 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.28	J	1.0	0.28
75-01-4	Vinyl chloride	0.57	J	1.0	0.23
74-83-9	Bromomethane	ND		1.0	0.31
75-00-3	Chloroethane	ND	^c	1.0	0.21
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
67-64-1	Acetone	ND		5.0	2.5
75-15-0	Carbon disulfide	ND		1.0	0.21
75-09-2	Methylene Chloride	ND		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.17
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.18
75-34-3	1,1-Dichloroethane	ND		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	22		1.0	0.24
74-97-5	Bromochloromethane	ND		1.0	0.18
78-93-3	2-Butanone (MEK)	ND		5.0	0.55
67-66-3	Chloroform	ND		1.0	0.17
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.29
56-23-5	Carbon tetrachloride	ND		1.0	0.14
71-43-2	Benzene	ND		1.0	0.11
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
79-01-6	Trichloroethene	11		1.0	0.14
78-87-5	1,2-Dichloropropane	ND		1.0	0.095
75-27-4	Bromodichloromethane	ND		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.53
108-88-3	Toluene	ND		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.20
127-18-4	Tetrachloroethene	ND		1.0	0.15
591-78-6	2-Hexanone	ND		5.0	0.16
124-48-1	Dibromochloromethane	ND		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.28
100-41-4	Ethylbenzene	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		3.0	0.49
100-42-5	Styrene	ND		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-MW-18S-0/1-0 Lab Sample ID: 180-48181-1
 Matrix: Water Lab File ID: 51006013.D
 Analysis Method: 8260C Date Collected: 09/25/2015 08:20
 Sample wt/vol: 5 (mL) Date Analyzed: 10/06/2015 17:08
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 156037 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		64-135
2037-26-5	Toluene-d8 (Surr)	92		71-118
460-00-4	4-Bromofluorobenzene (Surr)	88		70-118
1868-53-7	Dibromofluoromethane (Surr)	104		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006013.D
 Lims ID: 180-48181-A-1 Lab Sample ID: 180-48181-1
 Client ID: HD-MW-18S-0/1-0
 Sample Type: Client
 Inject. Date: 06-Oct-2015 17:08:30 ALS Bottle#: 11 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-48181-A-1
 Misc. Info.: 180-0008850-013
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 07-Oct-2015 07:48:10 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: fergusond

Date: 07-Oct-2015 07:48:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.272	4.279	-0.007	0	155703	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.290	-0.001	98	302798	50.0	
* 3 Chlorobenzene-d5	119	10.392	10.387	0.005	87	78760	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.734	12.729	0.005	95	118157	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.565	6.560	0.005	93	77553	52.2	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.936	6.937	-0.001	0	96076	47.0	
\$ 7 Toluene-d8 (Surr)	98	8.938	8.939	-0.001	94	278591	45.9	
\$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.573	-0.001	92	100716	43.9	
12 Chloromethane	50	1.765	1.779	-0.014	84	3512	1.40	M
13 Vinyl chloride	62	1.917	1.912	0.005	87	6341	2.85	
15 Bromomethane	94		2.247				ND	
16 Chloroethane	64		2.399				ND	
22 1,1-Dichloroethene	96		3.348				ND	
24 Acetone	43		3.451				ND	
26 Carbon disulfide	76		3.652				ND	
31 Methylene Chloride	84		4.133				ND	
33 Acrylonitrile	53		4.528				ND	
34 trans-1,2-Dichloroethene	96		4.565				ND	
35 Methyl tert-butyl ether	73	4.570	4.583	-0.013	1	1332	0.3143	M
37 1,1-Dichloroethane	63		5.204				ND	
45 cis-1,2-Dichloroethene	96	5.951	5.958	-0.007	81	210592	107.6	
46 2-Butanone (MEK)	43		5.964				ND	
49 Chlorobromomethane	128		6.238				ND	
52 Chloroform	83		6.384				ND	
53 1,1,1-Trichloroethane	97		6.542				ND	
56 Carbon tetrachloride	117		6.718				ND	
58 Benzene	78		6.943				ND	
59 1,2-Dichloroethane	62		7.022				ND	
64 Trichloroethene	130	7.678	7.679	-0.001	94	97709	53.5	
67 1,2-Dichloropropane	63		7.947				ND	
70 1,4-Dioxane	88		8.032				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.233				ND	
74 cis-1,3-Dichloropropene	75		8.677				ND	
75 4-Methyl-2-pentanone (MIBK)	43		8.829				ND	
76 Toluene	91		9.006				ND	
77 trans-1,3-Dichloropropene	75		9.255				ND	
79 1,1,2-Trichloroethane	97		9.450				ND	
80 Tetrachloroethene	164		9.517				ND	
82 2-Hexanone	43		9.663				ND	
84 Chlorodibromomethane	129		9.815				ND	
85 Ethylene Dibromide	107		9.930				ND	
87 Chlorobenzene	112		10.417				ND	
89 1,1,1,2-Tetrachloroethane	131		10.514				ND	
90 Ethylbenzene	106		10.514				ND	
91 m-Xylene & p-Xylene	106		10.648				ND	
92 o-Xylene	106		11.031				ND	
93 Styrene	104		11.050				ND	
94 Bromoform	173		11.232				ND	
99 1,1,2,2-Tetrachloroethane	83		11.707				ND	
S 133 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00042

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00042

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006013.D

Injection Date: 06-Oct-2015 17:08:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: 180-48181-A-1

Lab Sample ID: 180-48181-1

Worklist Smp#: 13

Client ID: HD-MW-18S-0/1-0

Purge Vol: 5.000 mL

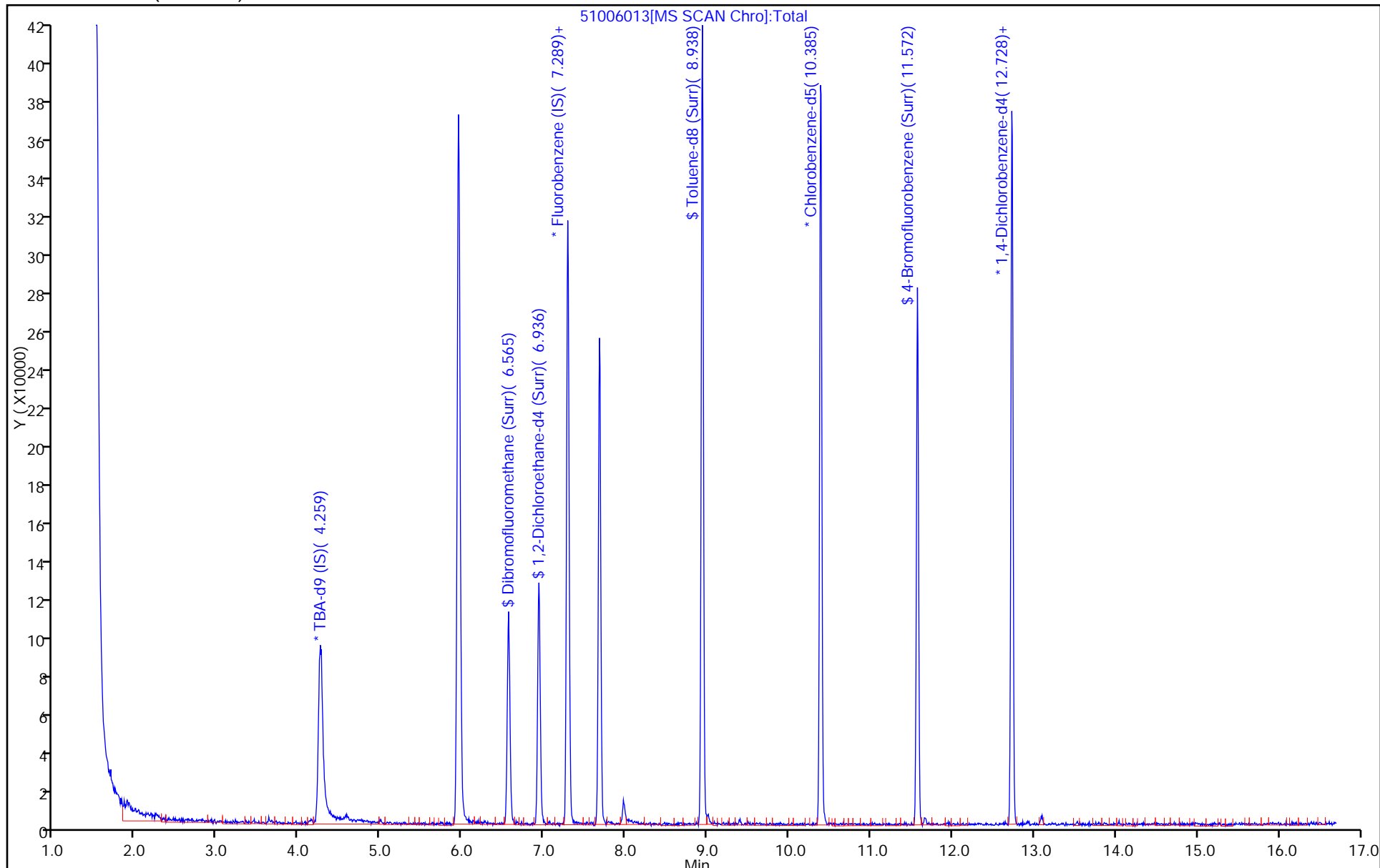
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006013.D

Injection Date: 06-Oct-2015 17:08:30

Instrument ID: CHHP5

Lims ID: 180-48181-A-1

Lab Sample ID: 180-48181-1

Client ID: HD-MW-18S-0/1-0

Operator ID: 001562

ALS Bottle#: 11

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

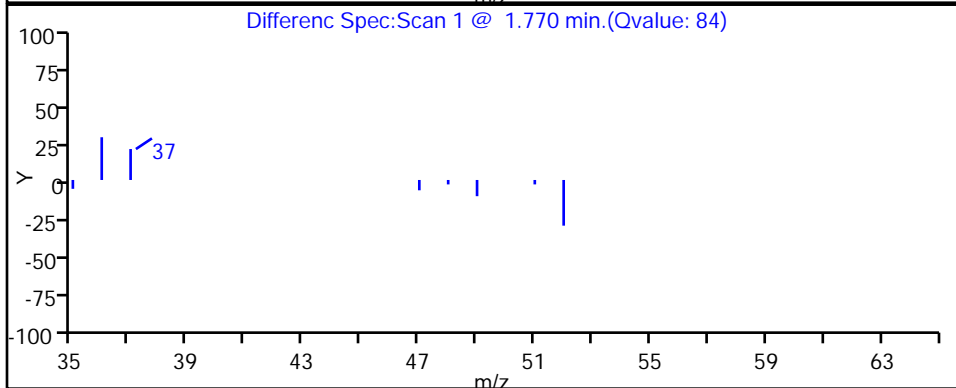
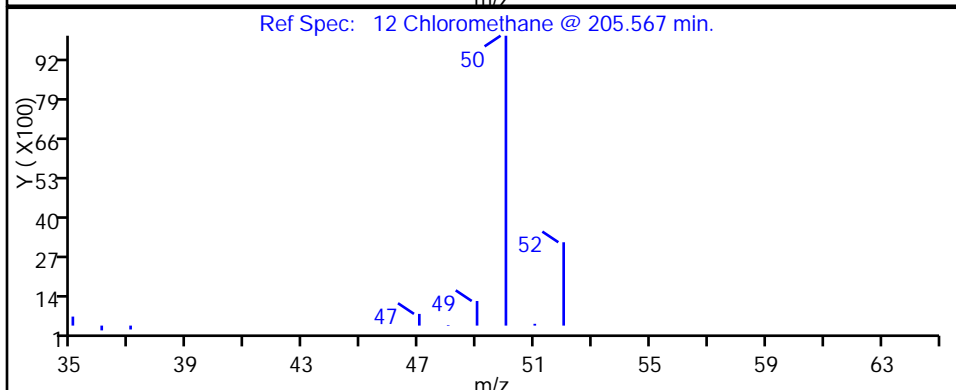
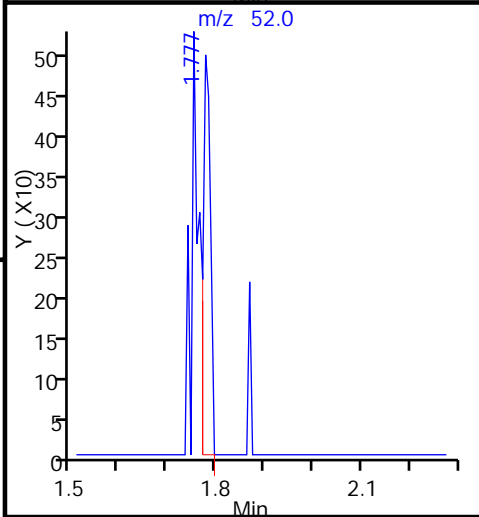
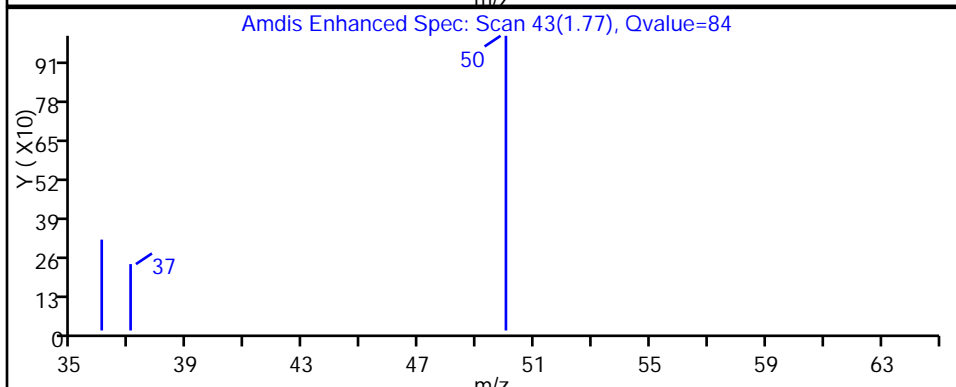
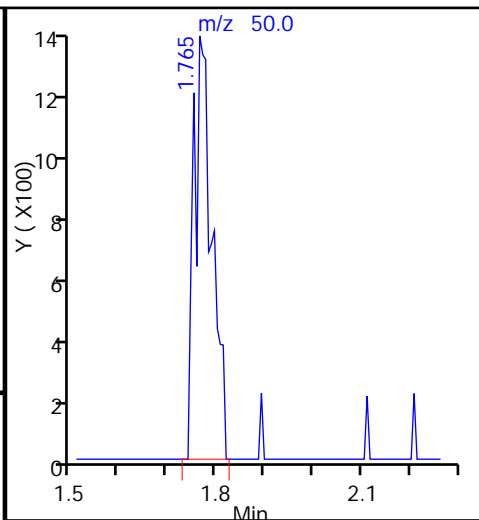
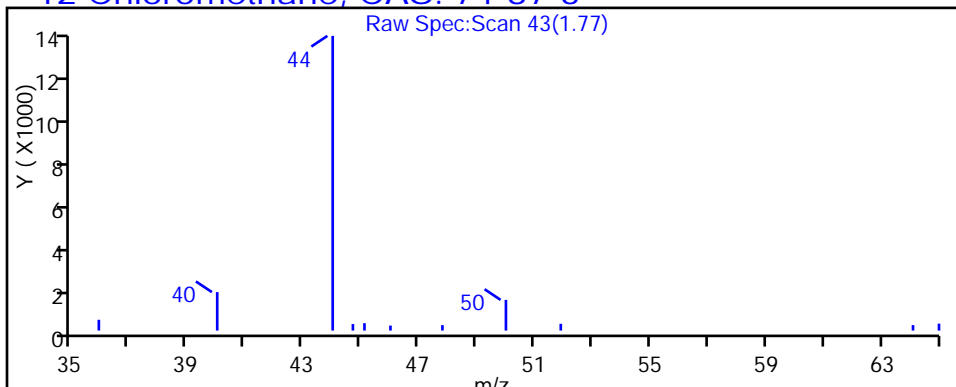
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006013.D

Injection Date: 06-Oct-2015 17:08:30

Instrument ID: CHHP5

Lims ID: 180-48181-A-1

Lab Sample ID: 180-48181-1

Client ID: HD-MW-18S-0/1-0

Operator ID: 001562

ALS Bottle#: 11 Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

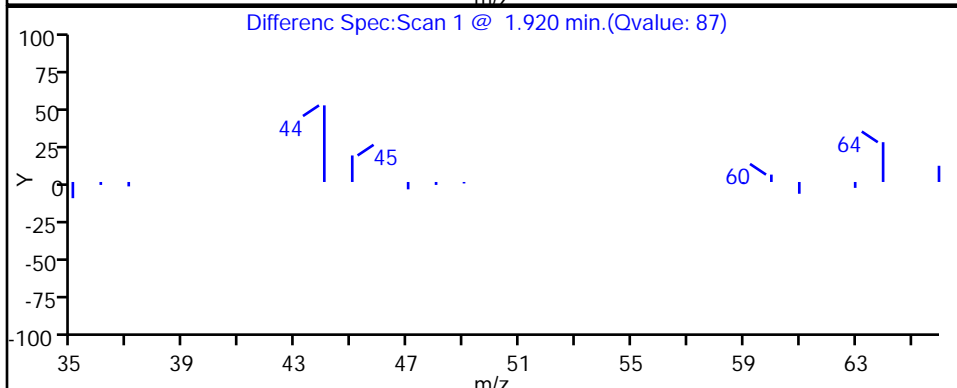
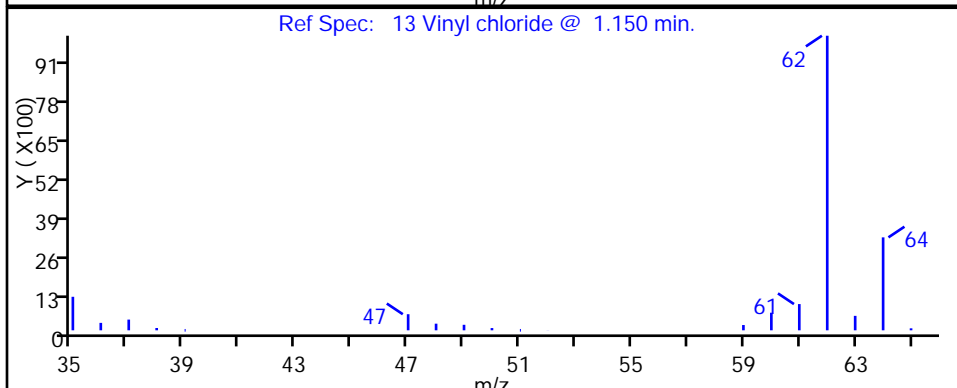
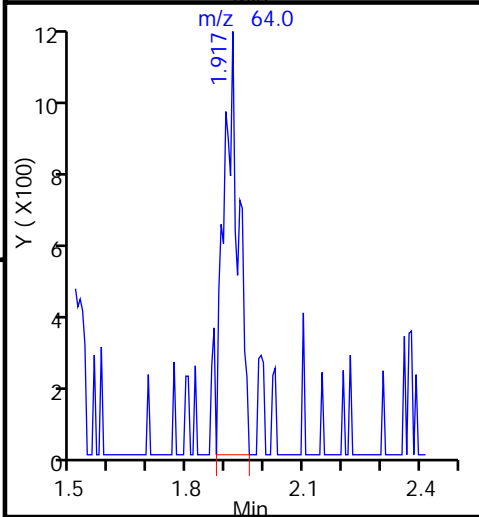
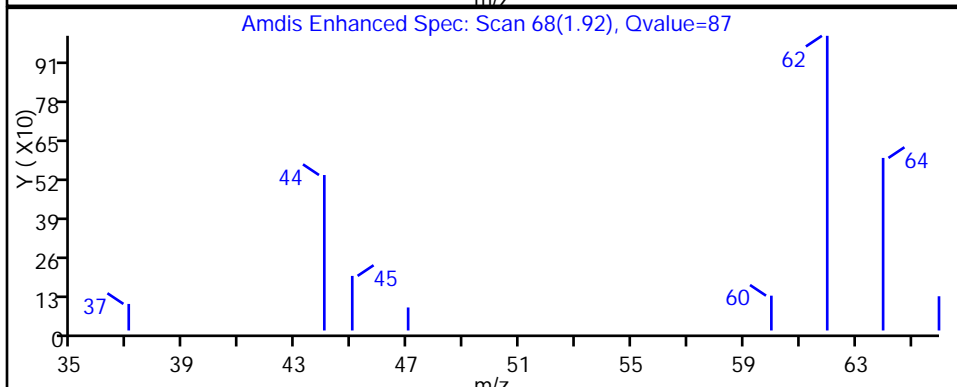
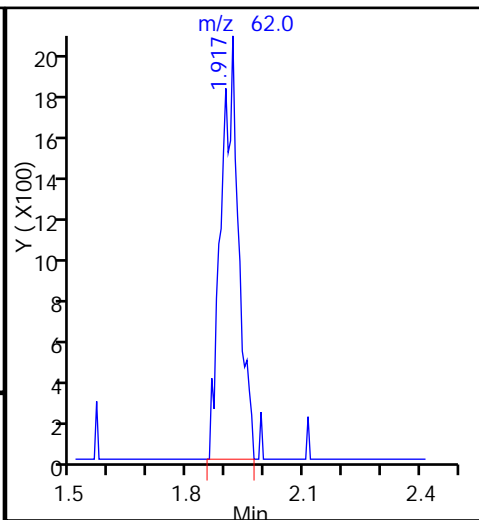
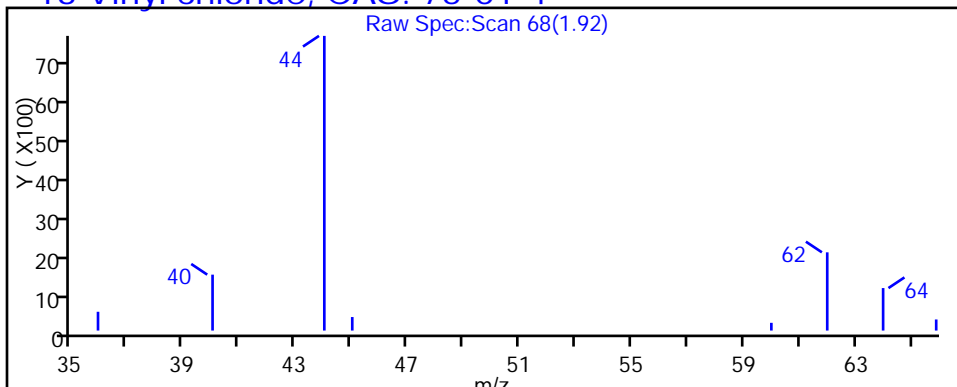
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006013.D

Injection Date: 06-Oct-2015 17:08:30

Instrument ID: CHHP5

Lims ID: 180-48181-A-1

Lab Sample ID: 180-48181-1

Client ID: HD-MW-18S-0/1-0

Operator ID: 001562

ALS Bottle#: 11

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

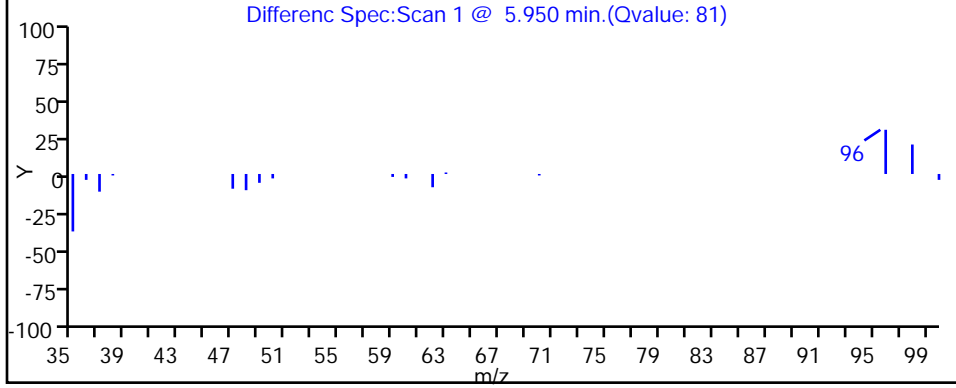
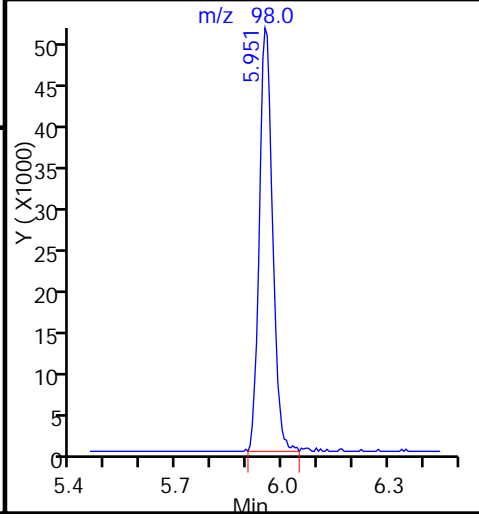
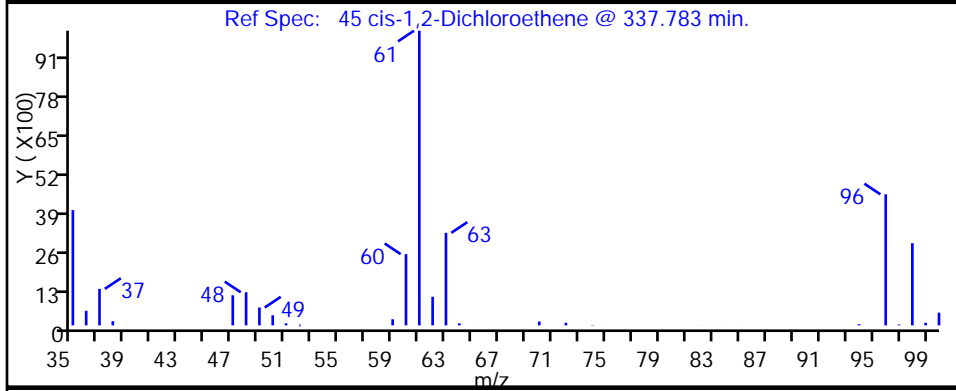
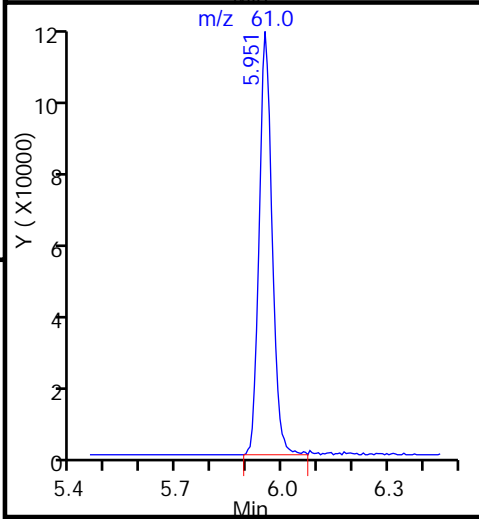
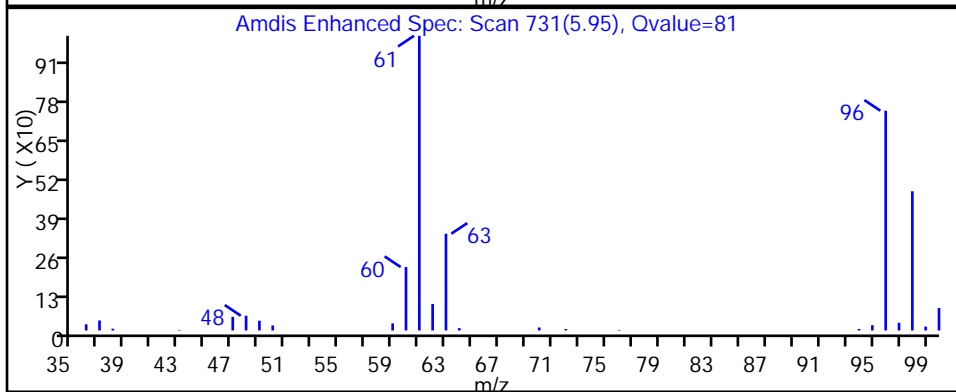
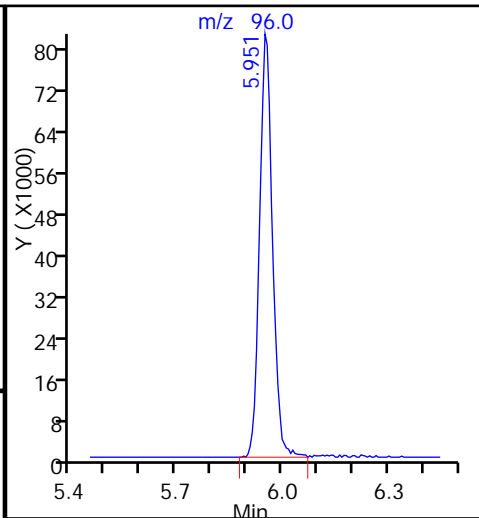
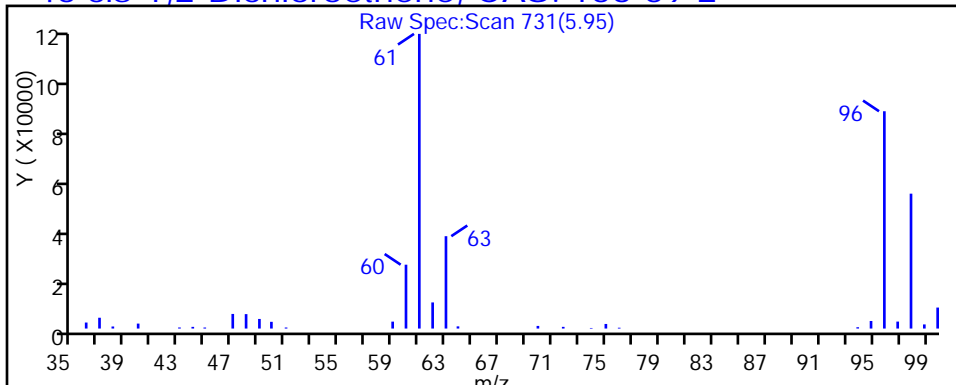
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006013.D

Injection Date: 06-Oct-2015 17:08:30

Instrument ID: CHHP5

Lims ID: 180-48181-A-1

Lab Sample ID: 180-48181-1

Client ID: HD-MW-18S-0/1-0

Operator ID: 001562

ALS Bottle#: 11

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

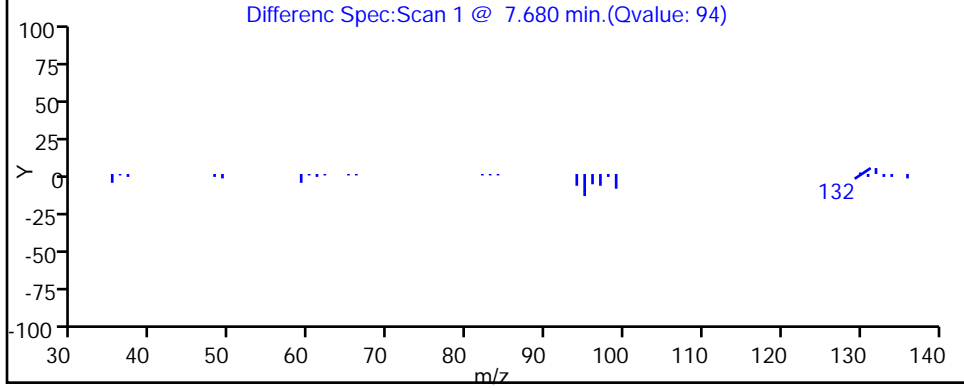
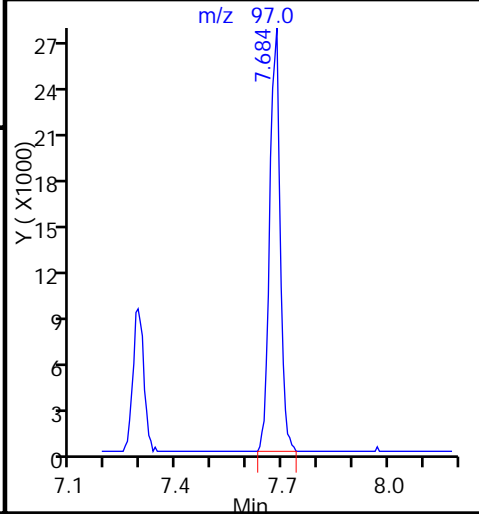
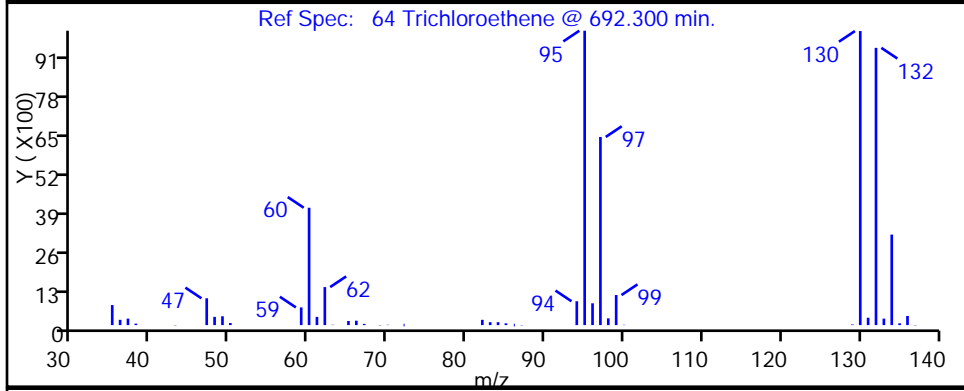
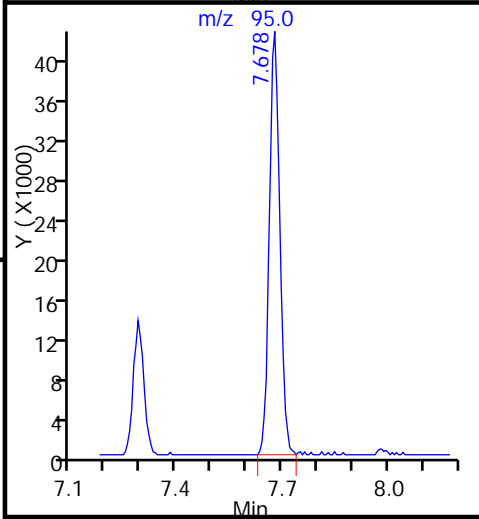
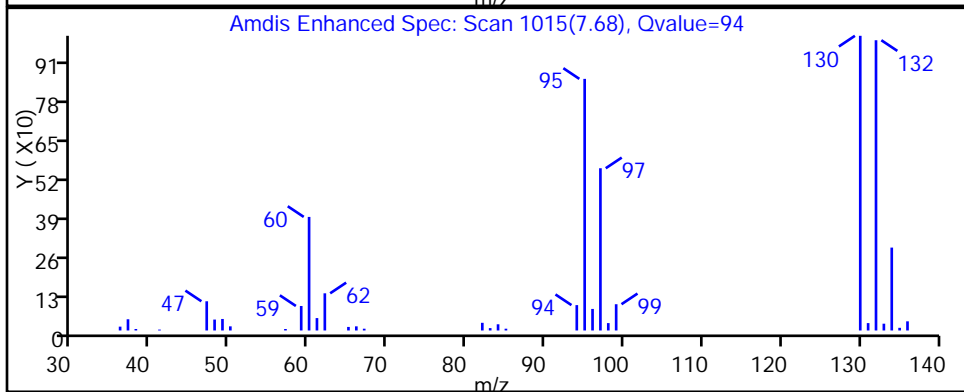
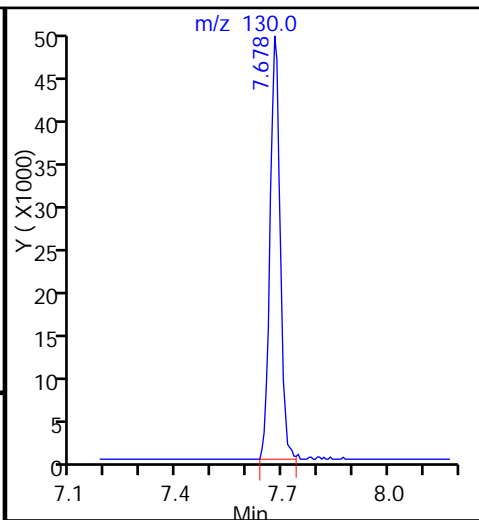
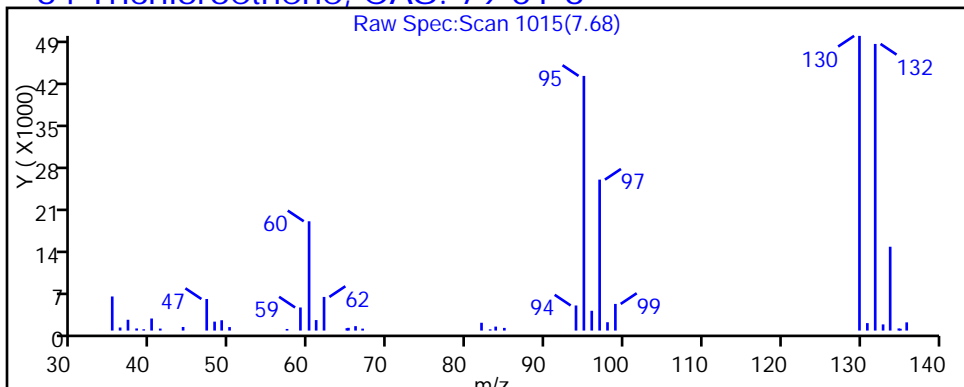
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

64 Trichloroethene, CAS: 79-01-6



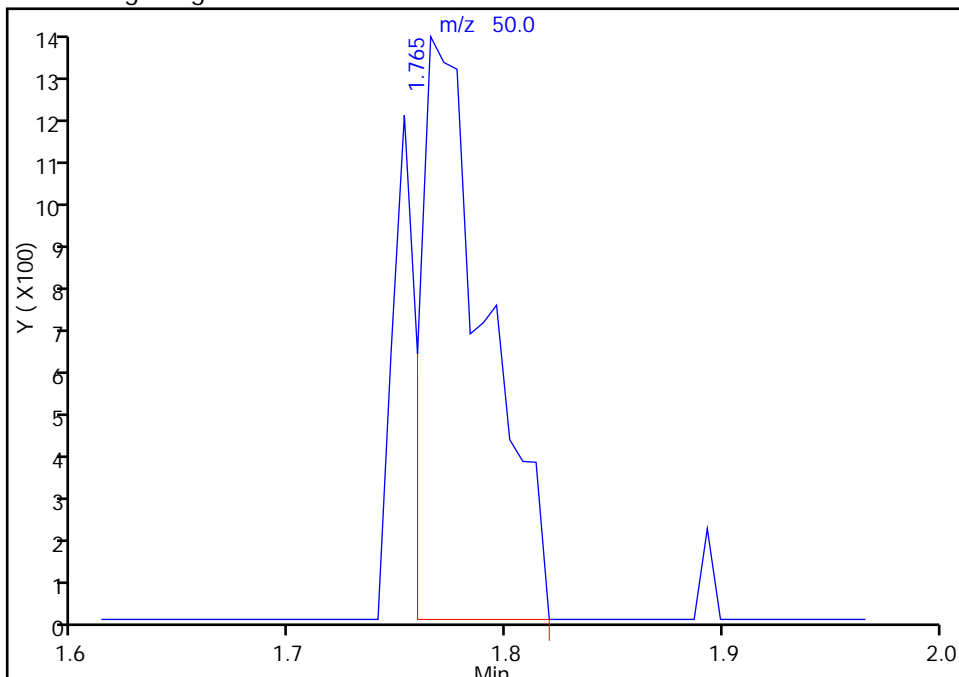
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006013.D
Injection Date: 06-Oct-2015 17:08:30 Instrument ID: CHHP5
Lims ID: 180-48181-A-1 Lab Sample ID: 180-48181-1
Client ID: HD-MW-18S-0/1-0
Operator ID: 001562 ALS Bottle#: 11 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

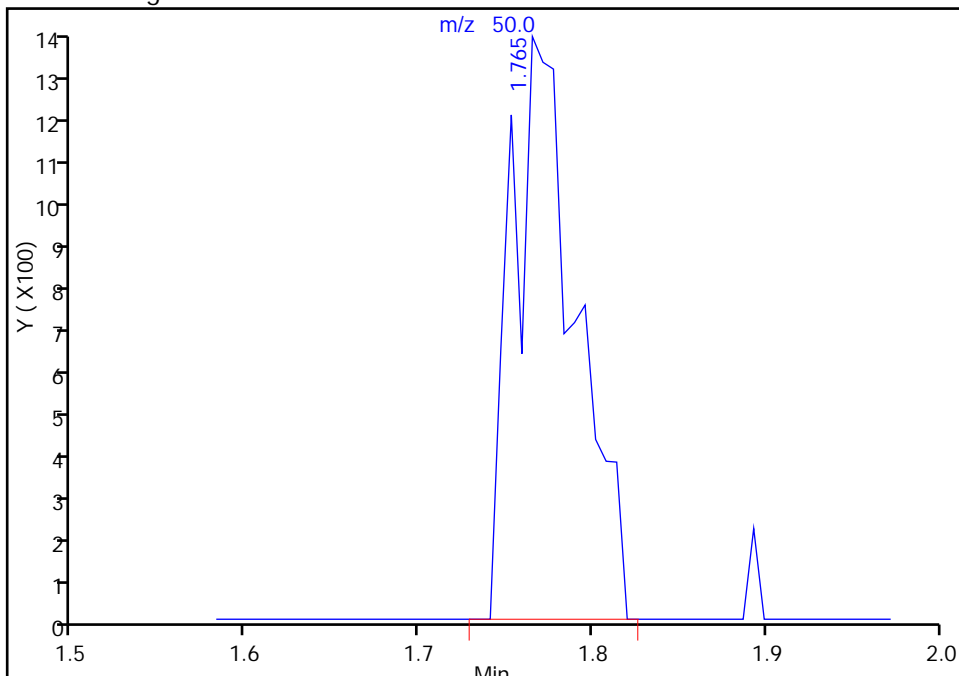
RT: 1.77
Area: 2853
Amount: 1.135847
Amount Units: ng

Processing Integration Results



RT: 1.77
Area: 3512
Amount: 1.398211
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 07-Oct-2015 07:48:10
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

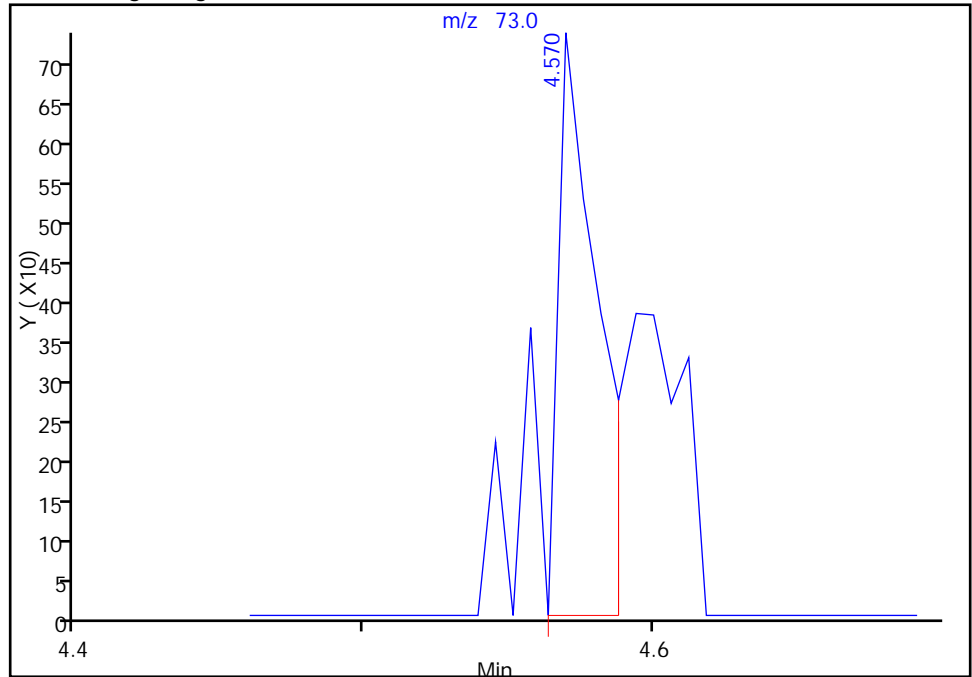
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006013.D
Injection Date: 06-Oct-2015 17:08:30 Instrument ID: CHHP5
Lims ID: 180-48181-A-1 Lab Sample ID: 180-48181-1
Client ID: HD-MW-18S-0/1-0
Operator ID: 001562 ALS Bottle#: 11 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

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

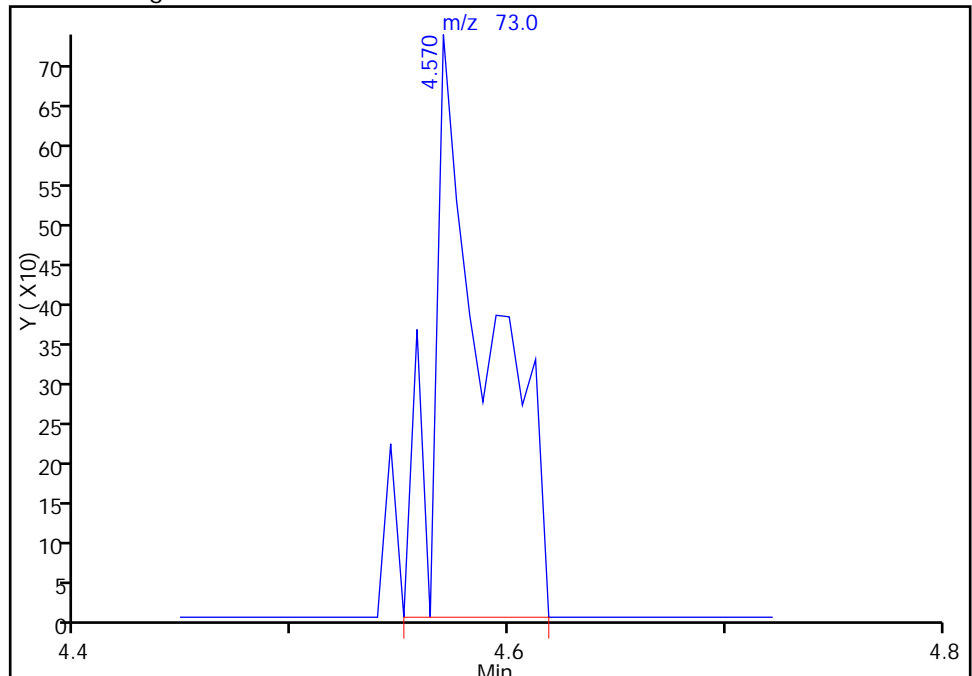
RT: 4.57
Area: 702
Amount: 0.165631
Amount Units: ng

Processing Integration Results



RT: 4.57
Area: 1332
Amount: 0.314273
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 07-Oct-2015 07:48:10
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-MW-147A-0/1-0 Lab Sample ID: 180-48181-2
 Matrix: Water Lab File ID: 51003006.D
 Analysis Method: 8260C Date Collected: 09/25/2015 10:05
 Sample wt/vol: 5 (mL) Date Analyzed: 10/03/2015 13:50
 Soil Aliquot Vol.: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 155766 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		1.0	0.28
75-01-4	Vinyl chloride	ND		1.0	0.23
74-83-9	Bromomethane	ND		1.0	0.31
75-00-3	Chloroethane	ND		1.0	0.21
75-35-4	1,1-Dichloroethene	0.53	J	1.0	0.30
67-64-1	Acetone	ND		5.0	2.5
75-15-0	Carbon disulfide	ND		1.0	0.21
75-09-2	Methylene Chloride	ND		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.17
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.18
75-34-3	1,1-Dichloroethane	0.14	J	1.0	0.12
156-59-2	cis-1,2-Dichloroethene	11	F1	1.0	0.24
74-97-5	Bromochloromethane	ND		1.0	0.18
78-93-3	2-Butanone (MEK)	ND		5.0	0.55
67-66-3	Chloroform	0.24	J	1.0	0.17
71-55-6	1,1,1-Trichloroethane	0.46	J	1.0	0.29
56-23-5	Carbon tetrachloride	ND		1.0	0.14
71-43-2	Benzene	ND		1.0	0.11
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
79-01-6	Trichloroethene	11	F1	1.0	0.14
78-87-5	1,2-Dichloropropane	ND		1.0	0.095
75-27-4	Bromodichloromethane	ND		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.53
108-88-3	Toluene	ND		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.20
127-18-4	Tetrachloroethene	6.3		1.0	0.15
591-78-6	2-Hexanone	ND		5.0	0.16
124-48-1	Dibromochloromethane	ND		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.28
100-41-4	Ethylbenzene	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		3.0	0.49
100-42-5	Styrene	ND		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-MW-147A-0/1-0 Lab Sample ID: 180-48181-2
 Matrix: Water Lab File ID: 51003006.D
 Analysis Method: 8260C Date Collected: 09/25/2015 10:05
 Sample wt/vol: 5 (mL) Date Analyzed: 10/03/2015 13:50
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 155766 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		64-135
2037-26-5	Toluene-d8 (Surr)	93		71-118
460-00-4	4-Bromofluorobenzene (Surr)	86		70-118
1868-53-7	Dibromofluoromethane (Surr)	108		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\51003006.D
 Lims ID: 180-48181-A-2 Lab Sample ID: 180-48181-2
 Client ID: HD-MW-147A-0/1-0
 Sample Type: Client
 Inject. Date: 03-Oct-2015 13:50:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-48181-A-2
 Misc. Info.: 180-0008807-006
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 03-Oct-2015 14:43:24 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: fergusond

Date: 03-Oct-2015 14:42:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.259	4.283	-0.024	0	140720	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.289	0.000	98	329167	50.0	
* 3 Chlorobenzene-d5	119	10.385	10.385	0.000	87	86874	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.728	12.727	0.001	96	122150	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.565	6.565	0.000	93	87059	53.9	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.936	6.936	0.000	0	108631	48.9	
\$ 7 Toluene-d8 (Surr)	98	8.938	8.937	0.001	94	313000	46.7	
\$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.571	0.001	89	108788	43.0	
11 Dichlorodifluoromethane	85		1.607				ND	
12 Chloromethane	50		1.771				ND	
13 Vinyl chloride	62		1.905				ND	
14 Butadiene	39		1.941				ND	
15 Bromomethane	94		2.239				ND	
16 Chloroethane	64		2.391				ND	
17 Dichlorofluoromethane	67		2.665				ND	
18 Trichlorofluoromethane	101		2.702				ND	
19 Ethanol	45		2.957				ND	
20 Ethyl ether	59		3.048				ND	
21 Acrolein	56		3.231				ND	
22 1,1-Dichloroethene	96	3.359	3.346	0.013	94	4874	2.66	
23 1,1,2-Trichloro-1,2,2-trif	101		3.407				ND	
24 Acetone	43		3.444				ND	
25 Iodomethane	142		3.553				ND	
26 Carbon disulfide	76		3.638				ND	
27 Isopropyl alcohol	45		3.706				ND	
29 Acetonitrile	40		3.870				ND	
28 3-Chloro-1-propene	76		3.918				ND	
30 Methyl acetate	43		3.937				ND	
31 Methylene Chloride	84		4.137				ND	
32 2-Methyl-2-propanol	59		4.405				ND	
33 Acrylonitrile	53		4.527				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
34 trans-1,2-Dichloroethene	96		4.563				ND	
35 Methyl tert-butyl ether	73		4.581				ND	
36 Hexane	57	4.996	4.989	0.007	54	1243	0.3720	
37 1,1-Dichloroethane	63	5.208	5.202	0.006	0	2720	0.6936	M
38 Vinyl acetate	43		5.251				ND	
41 Isopropyl ether	45		5.299				ND	
39 2-Chloro-1,3-butadiene	53		5.299				ND	
40 Isopropyl ether TIC	45		5.409				ND	
42 Tert-butyl ethyl ether	59		5.780				ND	
44 2,2-Dichloropropane	77		5.944				ND	
45 cis-1,2-Dichloroethene	96	5.951	5.950	0.001	82	112491	52.9	
43 Tert-butyl ethyl ether (TI	59		5.961				ND	
46 2-Butanone (MEK)	43		5.962				ND	
48 Ethyl acetate	43		6.036				ND	
47 Propionitrile	54		6.036				ND	
50 Methacrylonitrile	41		6.212				ND	
49 Chlorobromomethane	128		6.236				ND	
51 Tetrahydrofuran	42		6.248				ND	
52 Chloroform	83	6.389	6.382	0.007	85	4031	1.19	
53 1,1,1-Trichloroethane	97	6.547	6.540	0.007	35	5700	2.28	
54 Cyclohexane	56		6.613				ND	
56 Carbon tetrachloride	117		6.717				ND	
55 1,1-Dichloropropene	75		6.735				ND	
57 Isobutyl alcohol	41		6.924				ND	
58 Benzene	78		6.942				ND	
59 1,2-Dichloroethane	62		7.021				ND	
61 Tert-amyl methyl ether	73		7.125				ND	
60 Tert-amyl methyl ether (TI	73		7.262				ND	
62 n-Heptane	43		7.307				ND	
63 n-Butanol	56		7.629				ND	
64 Trichloroethene	130	7.678	7.678	0.000	96	108173	54.5	
65 Ethyl acrylate	55		7.800				ND	
66 Methylcyclohexane	83		7.915				ND	
67 1,2-Dichloropropane	63		7.946				ND	
69 Methyl methacrylate	69		8.031				ND	
68 Dibromomethane	93		8.037				ND	
70 1,4-Dioxane	88		8.037				ND	
71 Dichlorobromomethane	83		8.232				ND	
72 2-Nitropropane	41		8.451				ND	
73 2-Chloroethyl vinyl ether	63		8.526				ND	
74 cis-1,3-Dichloropropene	75		8.676				ND	
75 4-Methyl-2-pentanone (MIBK	43		8.828				ND	
76 Toluene	91		9.004				ND	
77 trans-1,3-Dichloropropene	75		9.254				ND	
78 Ethyl methacrylate	69		9.308				ND	
79 1,1,2-Trichloroethane	97		9.442				ND	
80 Tetrachloroethene	164	9.516	9.515	0.001	96	52798	31.6	
81 1,3-Dichloropropane	76		9.600				ND	
82 2-Hexanone	43		9.655				ND	
83 n-Butyl acetate	43		9.783				ND	
84 Chlorodibromomethane	129		9.819				ND	
85 Ethylene Dibromide	107		9.929				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
86 3-Chlorobenzotrifluoride	180		10.391				ND	
87 Chlorobenzene	112		10.415				ND	
88 4-Chlorobenzotrifluoride	180		10.476				ND	
89 1,1,1,2-Tetrachloroethane	131		10.513				ND	
90 Ethylbenzene	106		10.519				ND	
91 m-Xylene & p-Xylene	106		10.647				ND	
92 o-Xylene	106		11.030				ND	
93 Styrene	104		11.048				ND	
94 Bromoform	173		11.231				ND	
95 Cyclohexanol	57		11.245				ND	
96 2-Chlorobenzotrifluoride	180		11.298				ND	
97 Isopropylbenzene	105		11.395				ND	
98 Cyclohexanone	55		11.480				ND	
99 1,1,2,2-Tetrachloroethane	83		11.705				ND	
100 Bromobenzene	156		11.711				ND	
102 trans-1,4-Dichloro-2-buten	53		11.742				ND	
101 1,2,3-Trichloropropane	110		11.766				ND	
103 N-Propylbenzene	120		11.815				ND	
104 2-Chlorotoluene	126		11.900				ND	
105 3-Chlorotoluene	126		11.967				ND	
106 1,3,5-Trimethylbenzene	105		11.997				ND	
107 4-Chlorotoluene	126		12.022				ND	
108 tert-Butylbenzene	119		12.307				ND	
109 Pentachloroethane	167		12.338				ND	
110 1,2,4-Trimethylbenzene	105		12.368				ND	
111 1,2-dichloro-4-(trifluorom	214		12.411				ND	
112 sec-Butylbenzene	105		12.533				ND	
113 1,3-Dichlorobenzene	146		12.648				ND	
114 4-Isopropyltoluene	119		12.691				ND	
115 1,4-Dichlorobenzene	146		12.752				ND	
117 1,2,3-Trimethylbenzene	105		12.776				ND	
116 2,4-Dichloro-1-(triflourom	214		12.782				ND	
118 2,5-Dichlorobenzotrifluori	214		12.818				ND	
119 Benzyl chloride	91		12.867				ND	
120 n-Butylbenzene	91		13.098				ND	
121 1,2-Dichlorobenzene	146		13.110				ND	
122 1,2-Dibromo-3-Chloropropan	75		13.907				ND	
123 2,4- & 2,5- & 2,6- Dichlor	125		14.047				ND	
124 1,3,5-Trichlorobenzene	180		14.087				ND	
125 2,3- & 3,4- Dichlorotoluen	125		14.461				ND	
126 1,2,4-Trichlorobenzene	180		14.729				ND	
127 Hexachlorobutadiene	225		14.869				ND	
128 Naphthalene	128		14.990				ND	
129 1,2,3-Trichlorobenzene	180		15.215				ND	
131 2,4,5-Trichlorotoluene	159		15.994				ND	
130 2,3,6-Trichlorotoluene	159		16.091				ND	
132 2-Methylnaphthalene	142		16.134				ND	
146 2,5-Dichlorotoluene	1		0.000				ND	
150 2,6-Dichlorotoluene	1		0.000				ND	
147 2,4-Dichlorotoluene	1		0.000				ND	
149 3,4-Dichlorotoluene	1		0.000				ND	
151 Isooctane	57		0.000				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
148 2,3-Dichlorotoluene	1		0.000				ND	
152 Formaldehyde TIC	1		0.000				ND	
S 134 1,2-Dichloroethene, Total	96				0		52.9	
S 133 Xylenes, Total	106		1.000				ND	
S 135 1,3-Dichloropropene, Total	1		0.000				ND	
T 138 Methyl n-amyl ketone TIC	43		0.000				ND	
T 136 Mesityl oxide TIC	83		0.000				ND	
T 153 1,2 Epoxybutane TIC	42		6.253				ND	
T 137 Tetrahydrofuran TIC	42		6.253				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00042

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00042

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\51003006.D

Injection Date: 03-Oct-2015 13:50:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: 180-48181-A-2

Lab Sample ID: 180-48181-2

Worklist Smp#: 6

Client ID: HD-MW-147A-0/1-0

Purge Vol: 5.000 mL

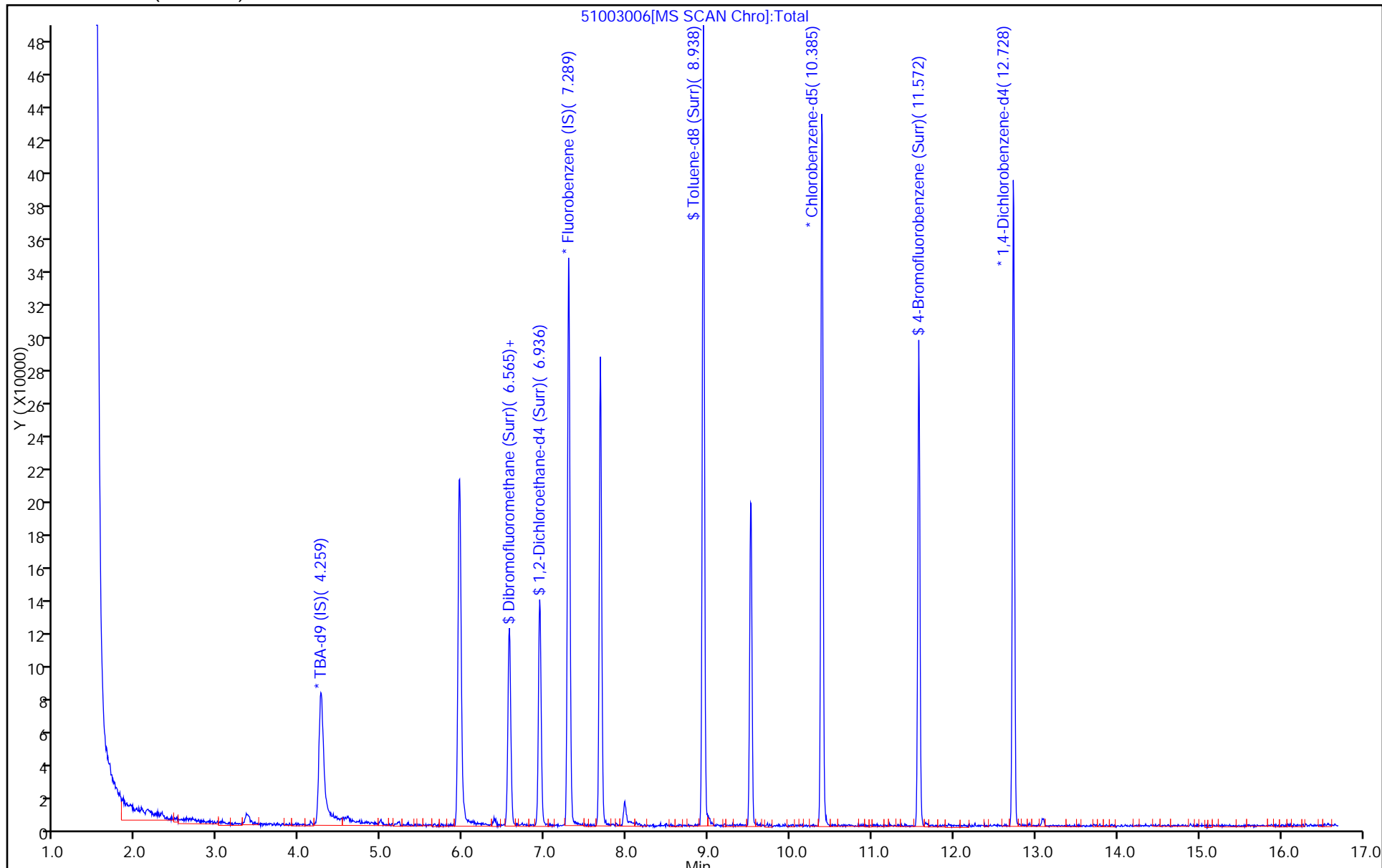
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\51003006.D

Injection Date: 03-Oct-2015 13:50:30

Instrument ID: CHHP5

Lims ID: 180-48181-A-2

Lab Sample ID: 180-48181-2

Client ID: HD-MW-147A-0/1-0

Operator ID: 001562

ALS Bottle#: 5 Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

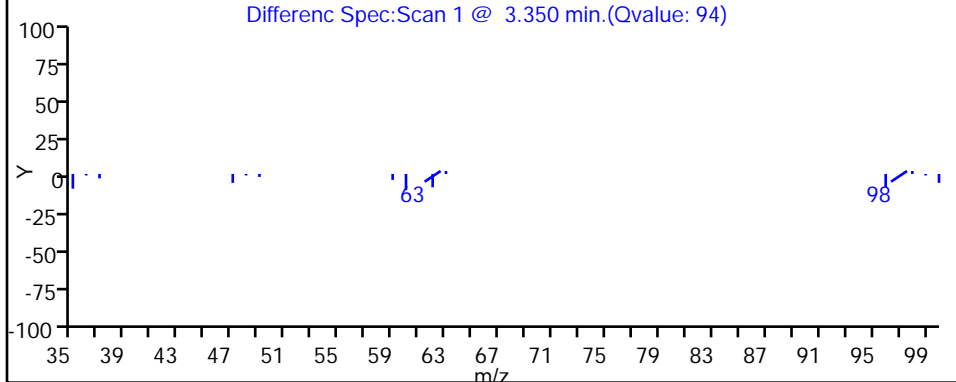
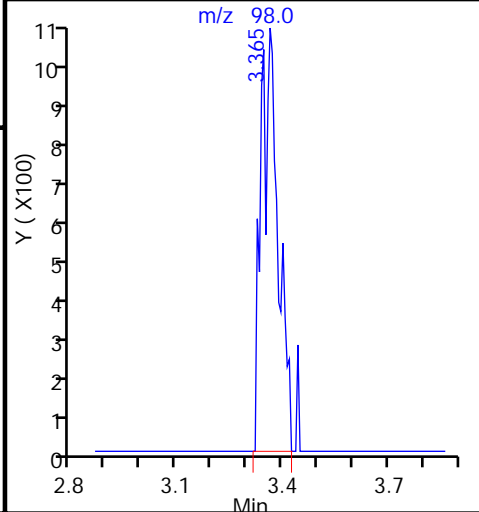
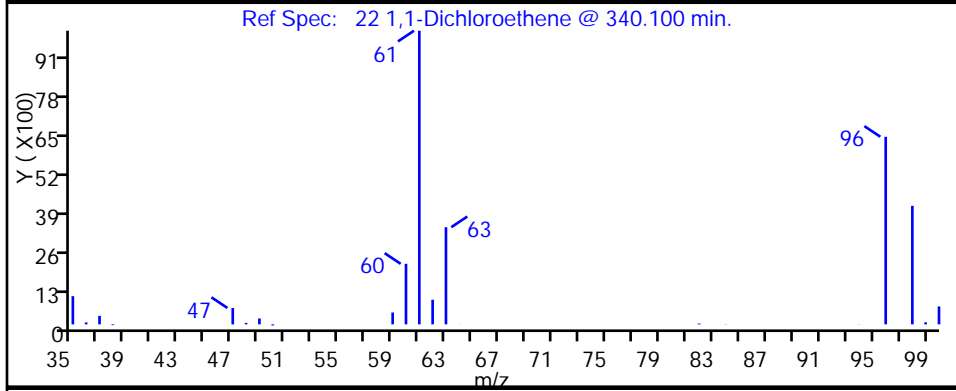
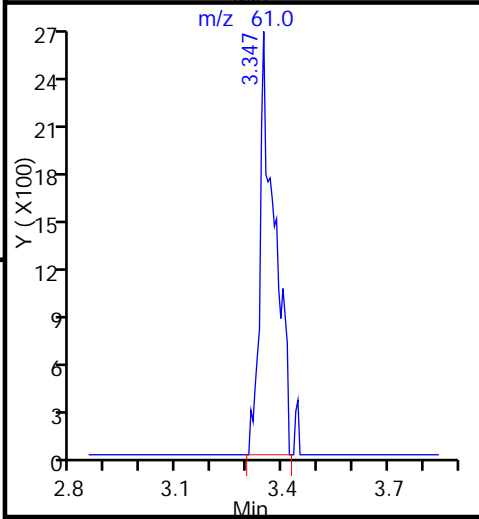
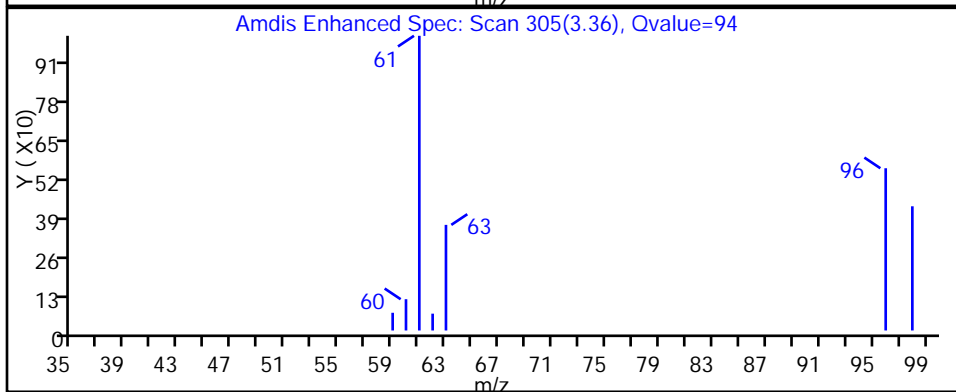
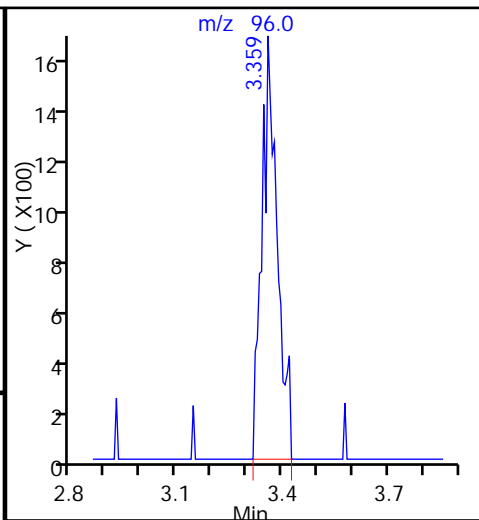
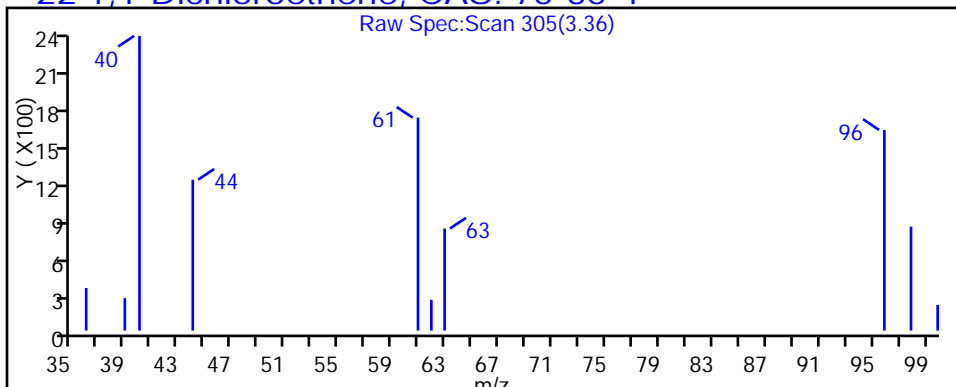
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\51003006.D

Injection Date: 03-Oct-2015 13:50:30

Instrument ID: CHHP5

Lims ID: 180-48181-A-2

Lab Sample ID: 180-48181-2

Client ID: HD-MW-147A-0/1-0

Operator ID: 001562

ALS Bottle#: 5 Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

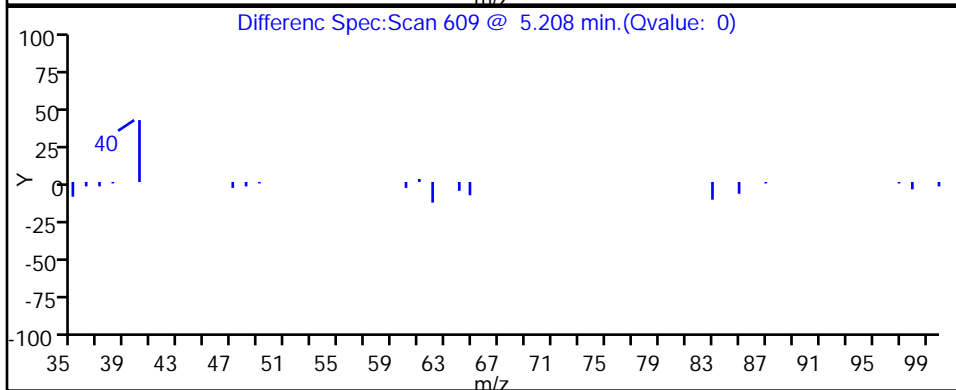
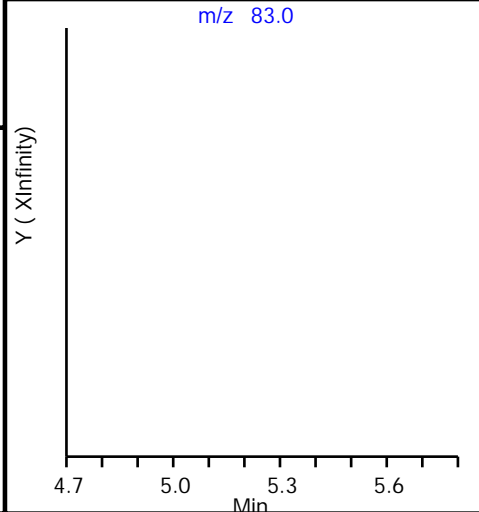
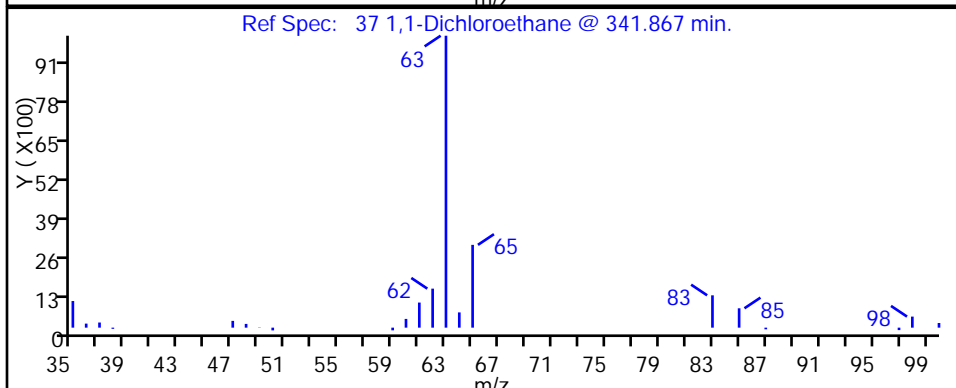
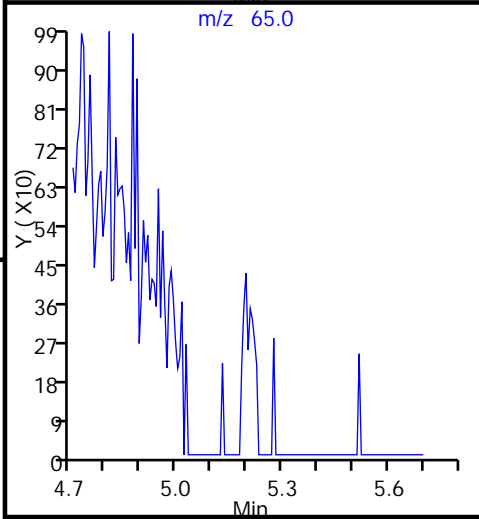
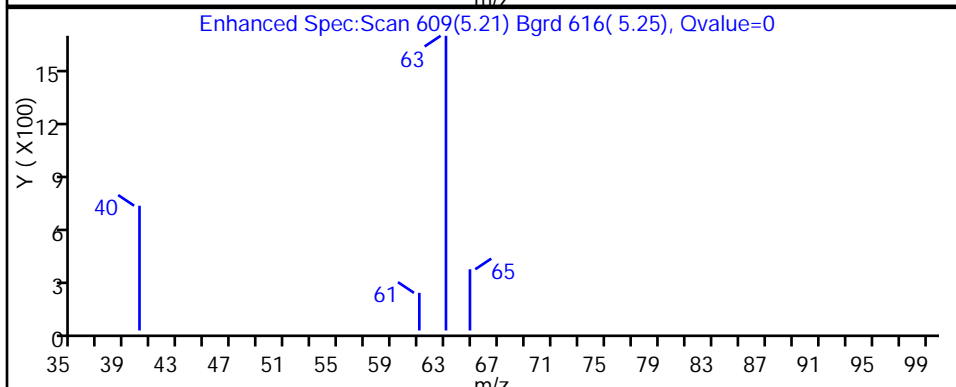
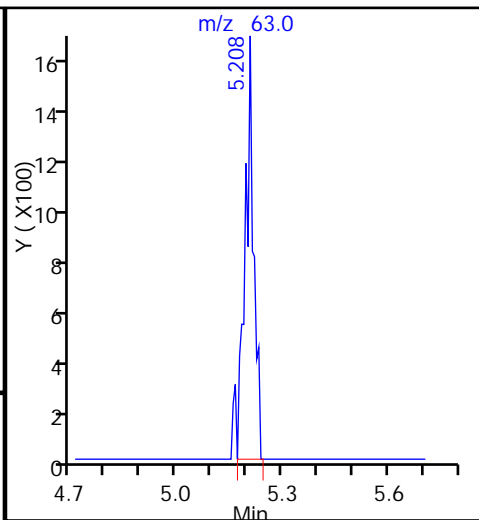
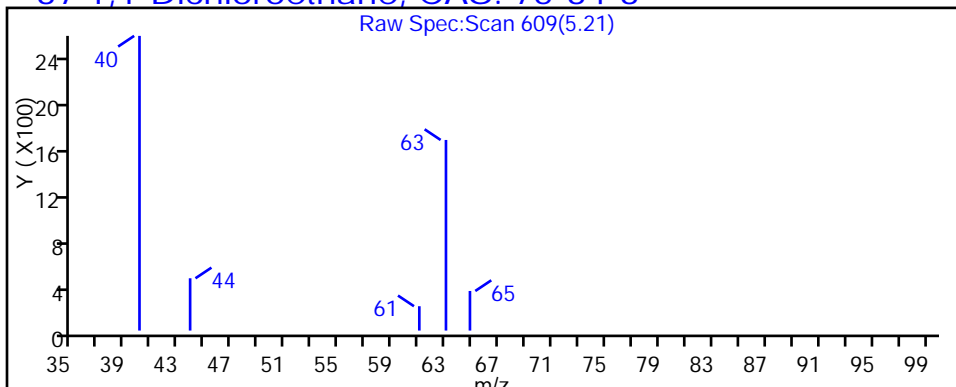
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\51003006.D

Injection Date: 03-Oct-2015 13:50:30

Instrument ID: CHHP5

Lims ID: 180-48181-A-2

Lab Sample ID: 180-48181-2

Client ID: HD-MW-147A-0/1-0

Operator ID: 001562

ALS Bottle#: 5

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

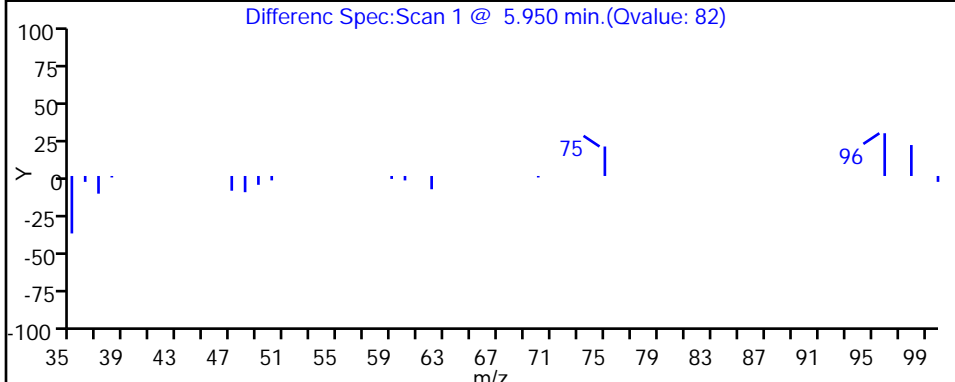
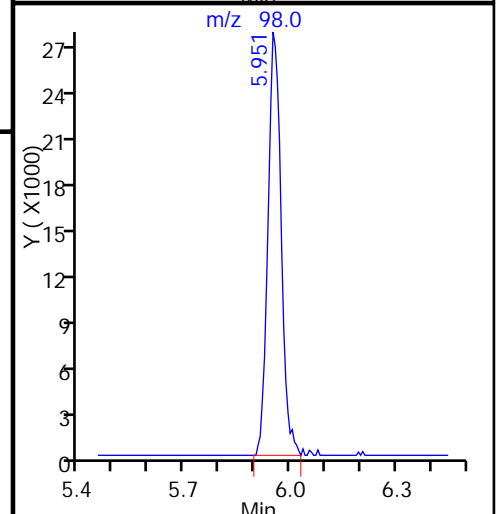
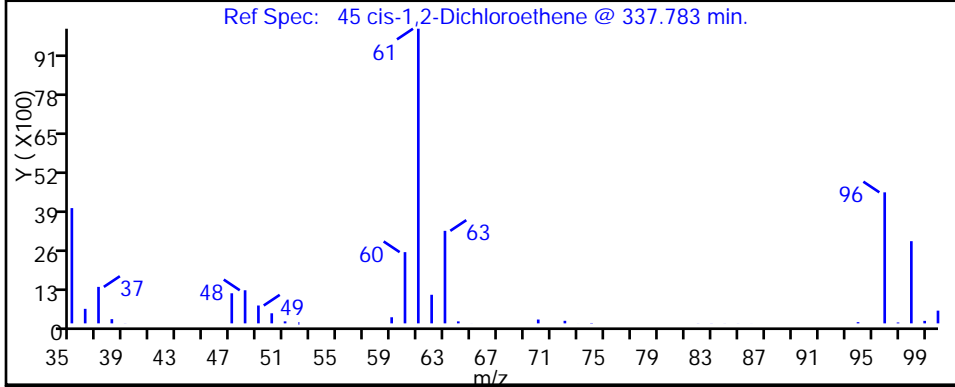
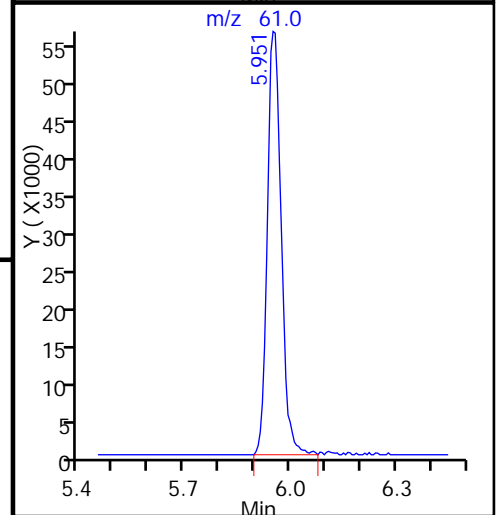
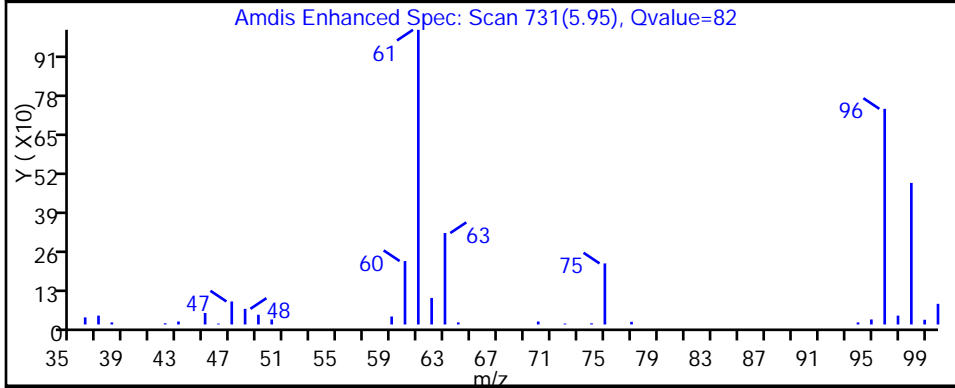
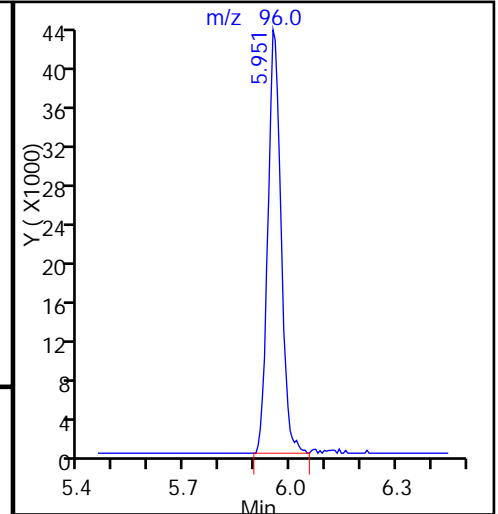
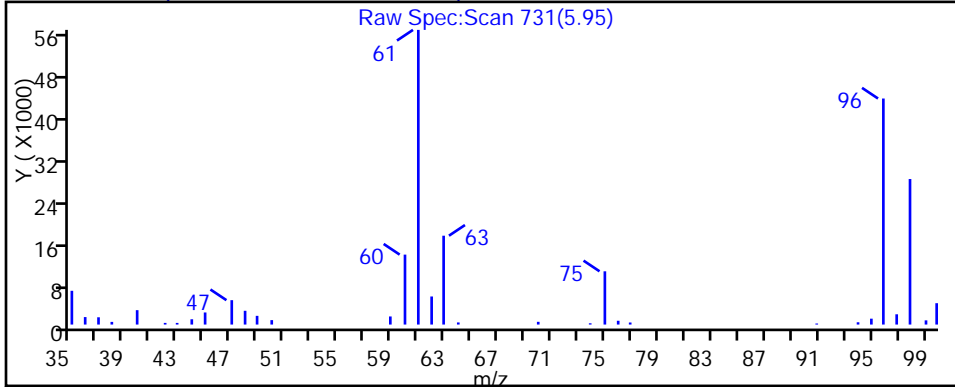
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\51003006.D

Injection Date: 03-Oct-2015 13:50:30

Instrument ID: CHHP5

Lims ID: 180-48181-A-2

Lab Sample ID: 180-48181-2

Client ID: HD-MW-147A-0/1-0

Operator ID: 001562

ALS Bottle#: 5 Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

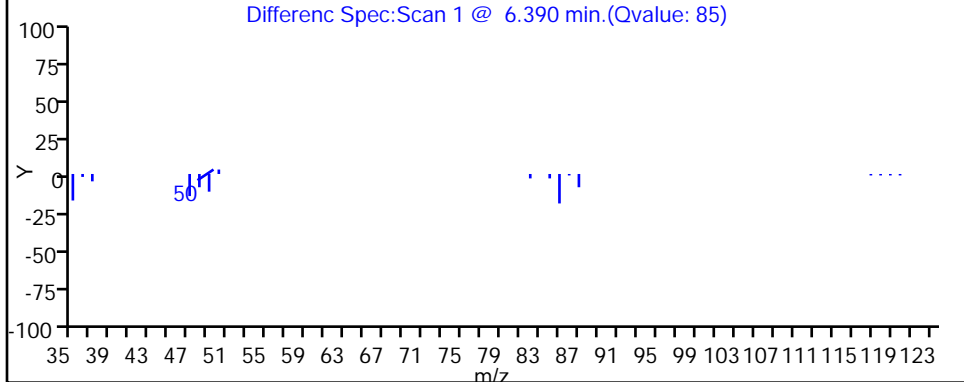
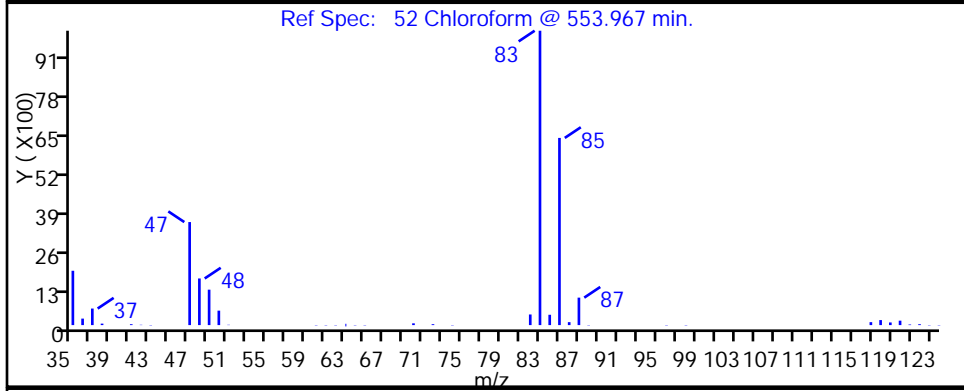
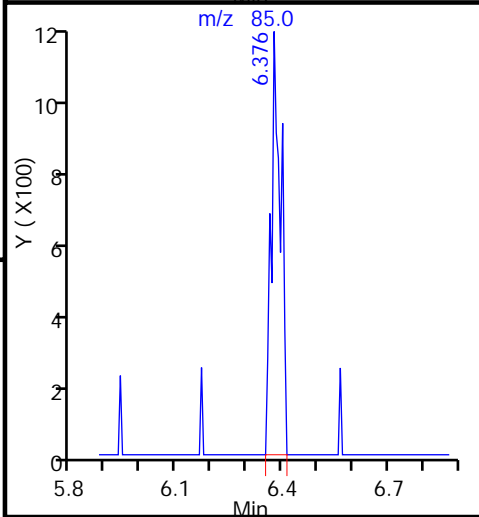
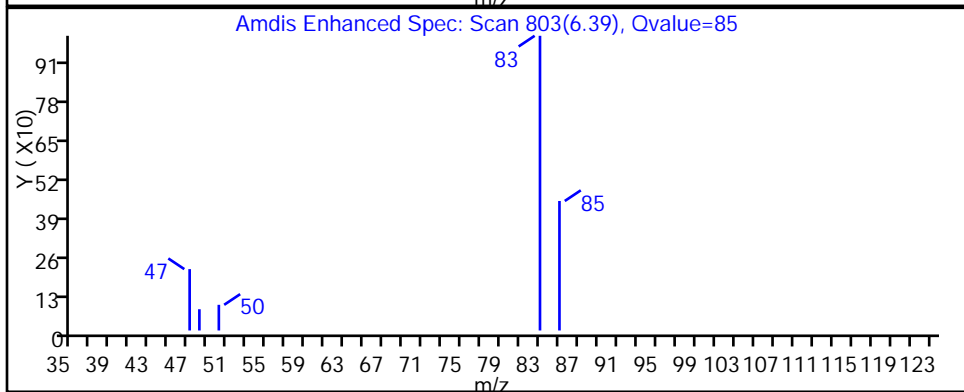
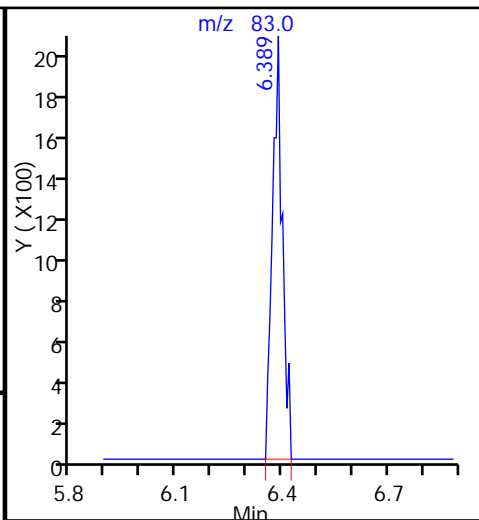
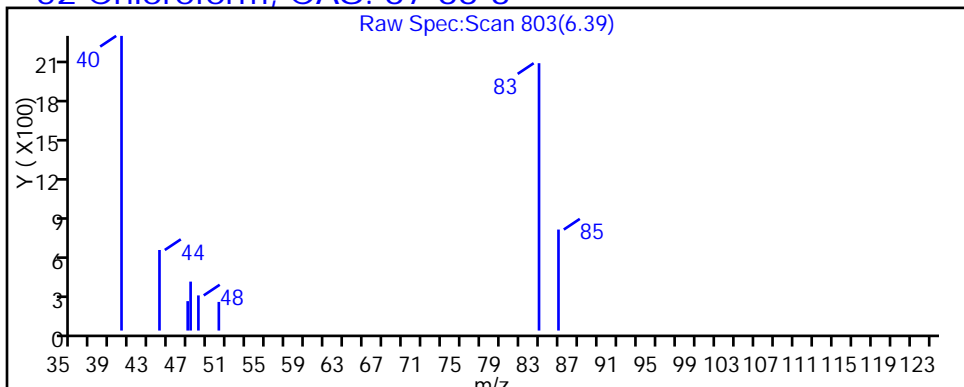
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

52 Chloroform, CAS: 67-66-3



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\51003006.D

Injection Date: 03-Oct-2015 13:50:30

Instrument ID: CHHP5

Lims ID: 180-48181-A-2

Lab Sample ID: 180-48181-2

Client ID: HD-MW-147A-0/1-0

Operator ID: 001562

ALS Bottle#: 5 Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

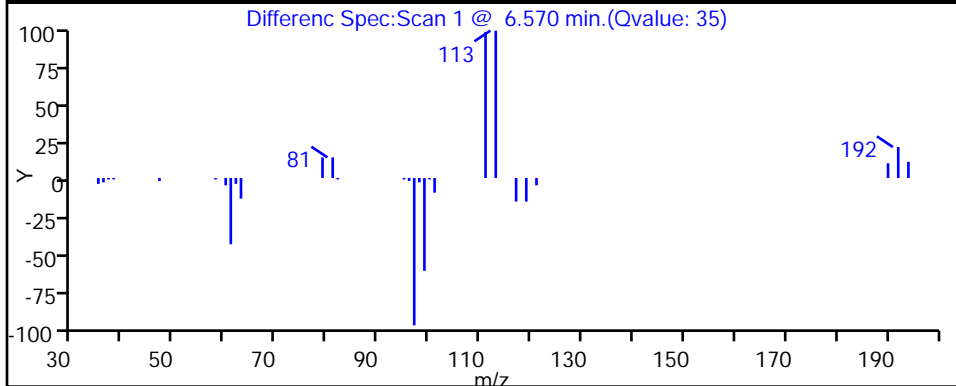
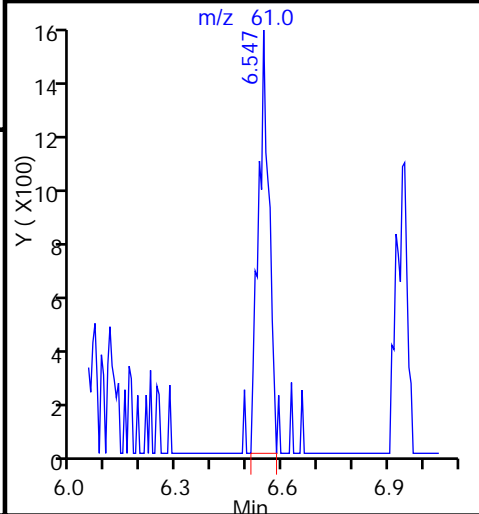
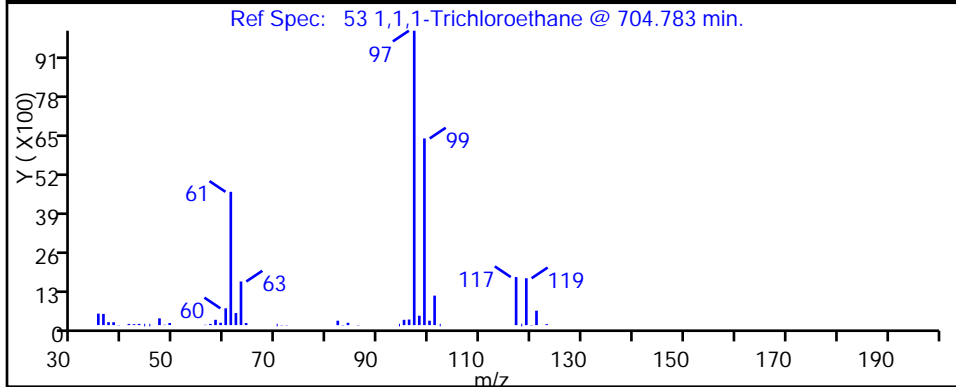
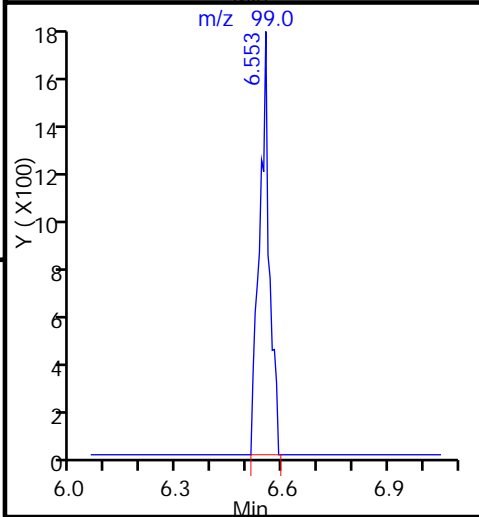
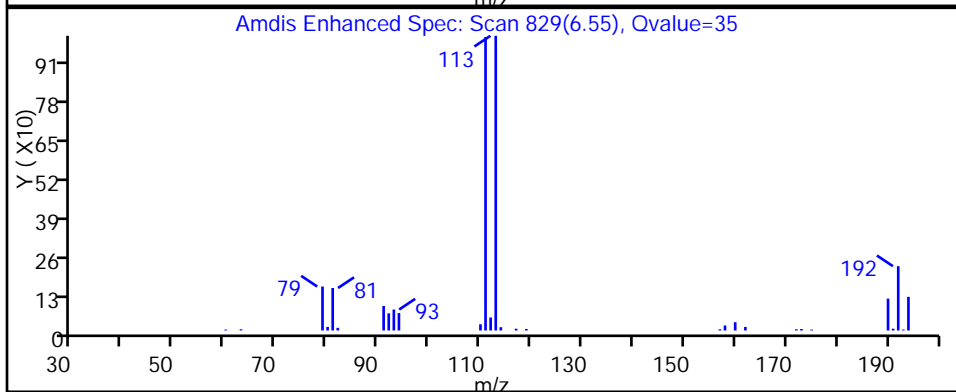
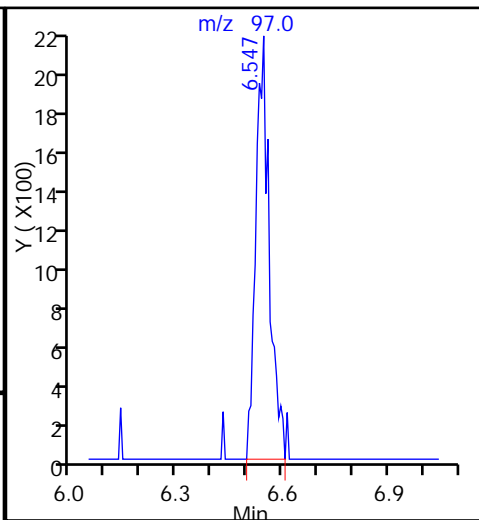
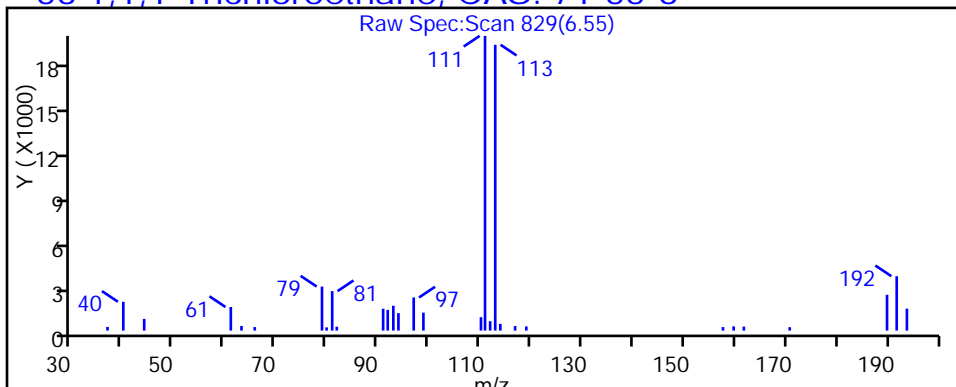
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

53 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\51003006.D

Injection Date: 03-Oct-2015 13:50:30

Instrument ID: CHHP5

Lims ID: 180-48181-A-2

Lab Sample ID: 180-48181-2

Client ID: HD-MW-147A-0/1-0

Operator ID: 001562

ALS Bottle#: 5

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

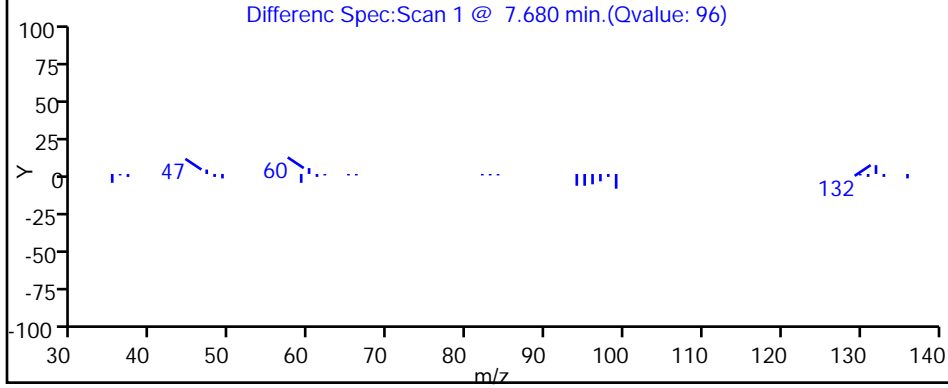
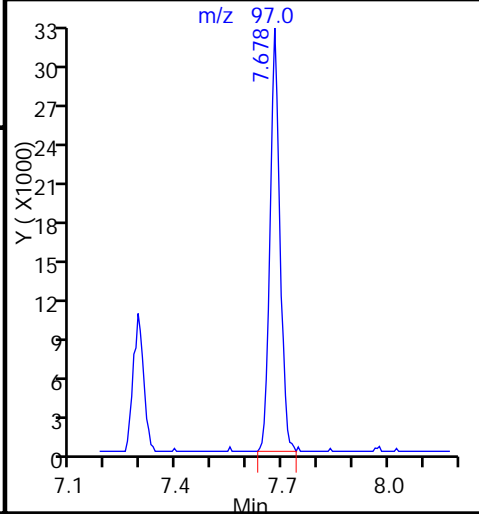
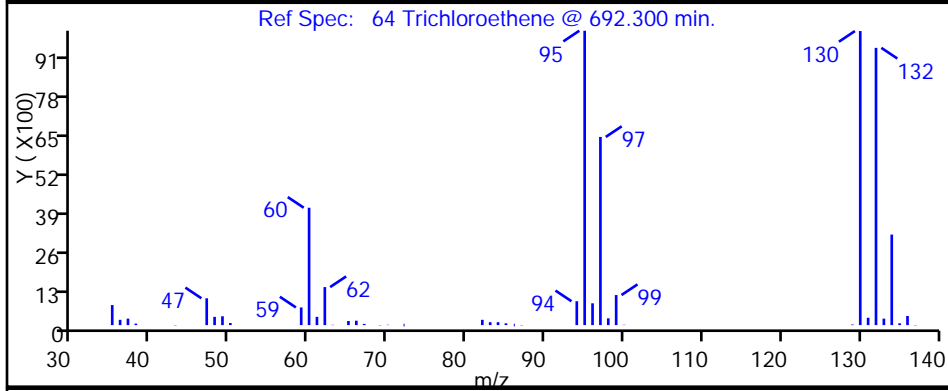
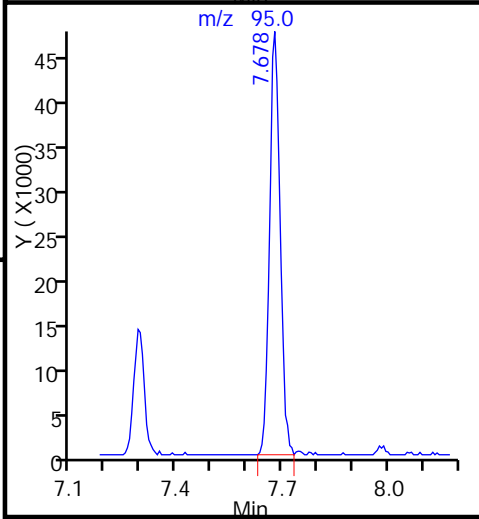
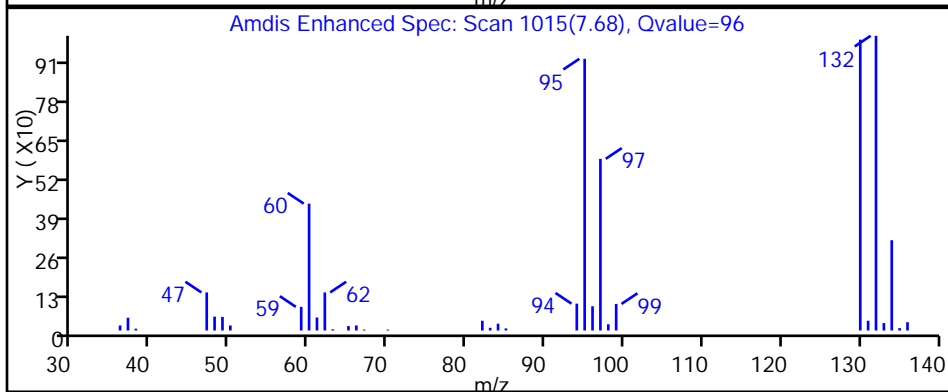
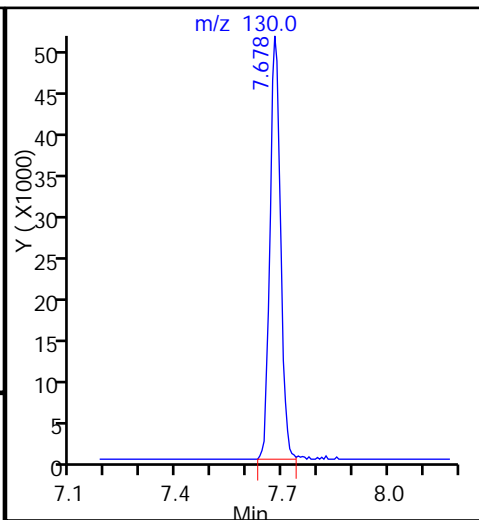
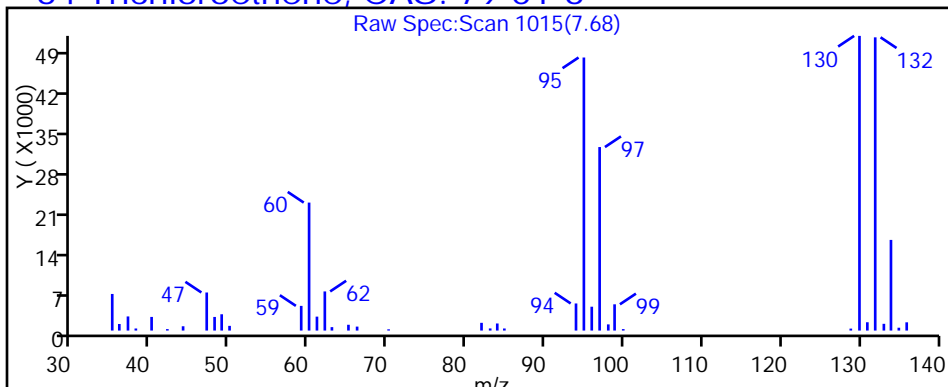
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

64 Trichloroethene, CAS: 79-01-6



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\51003006.D

Injection Date: 03-Oct-2015 13:50:30

Instrument ID: CHHP5

Lims ID: 180-48181-A-2

Lab Sample ID: 180-48181-2

Client ID: HD-MW-147A-0/1-0

Operator ID: 001562

ALS Bottle#: 5 Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

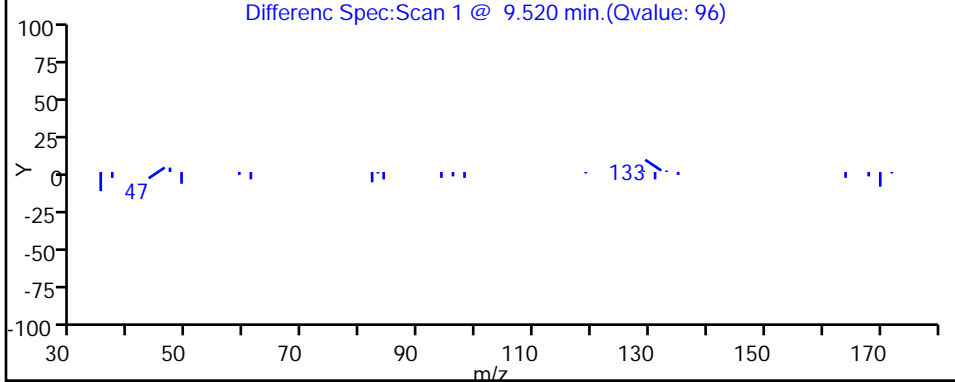
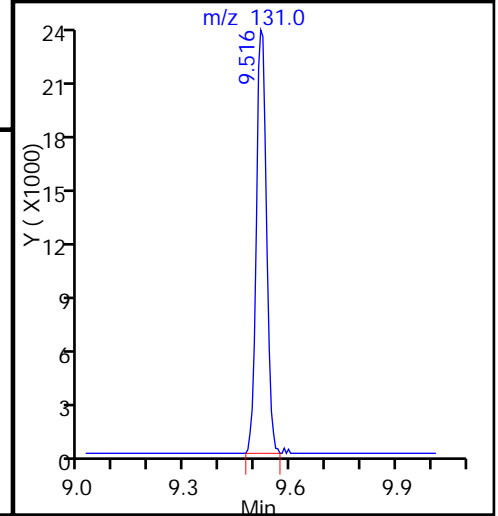
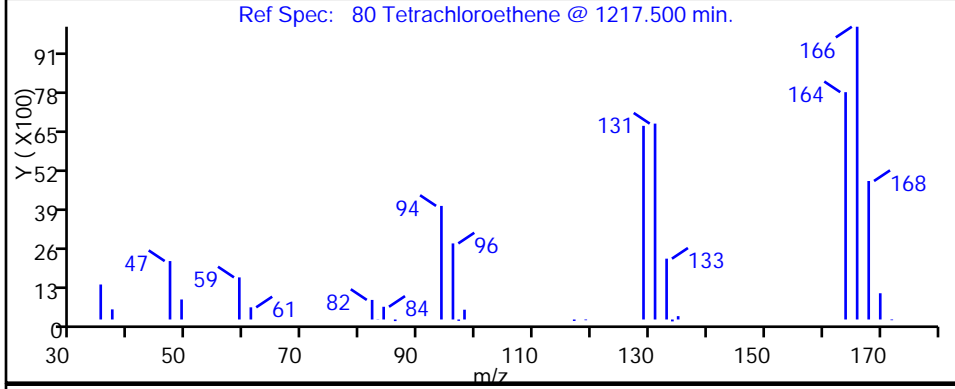
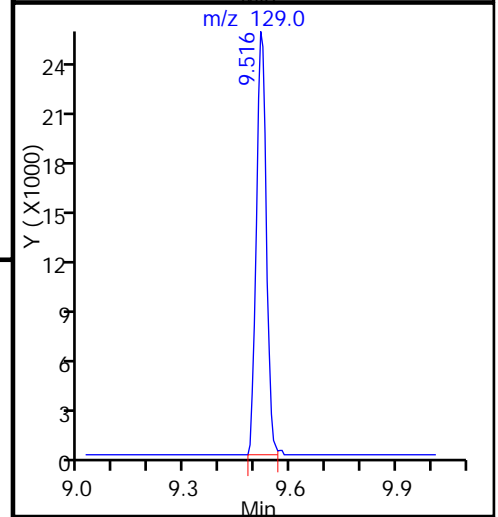
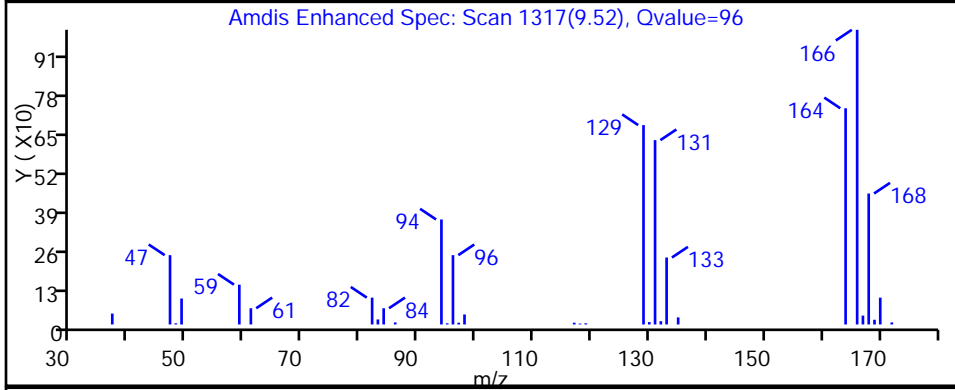
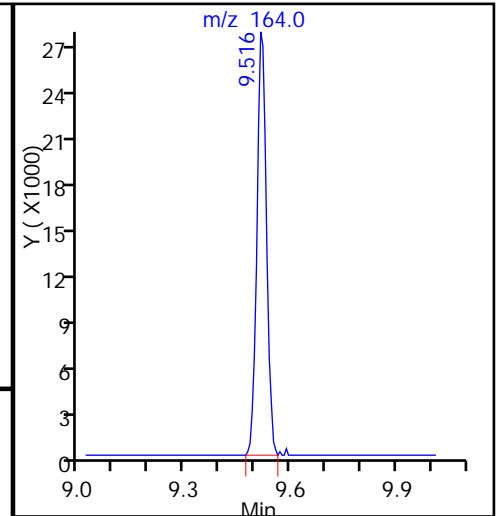
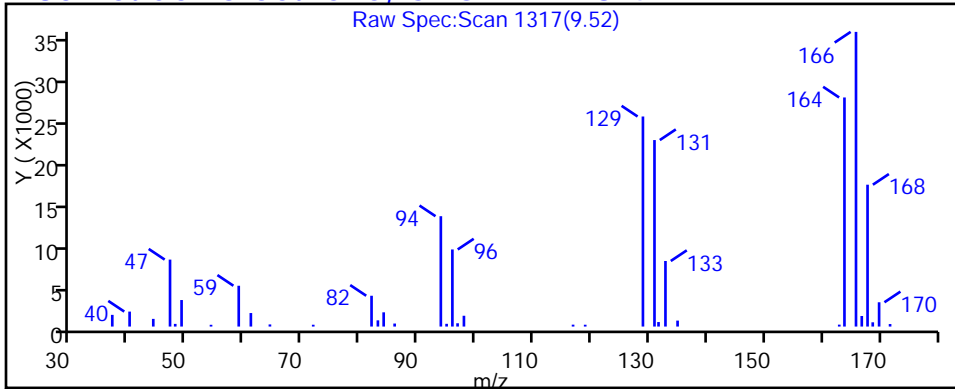
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

80 Tetrachloroethene, CAS: 127-18-4



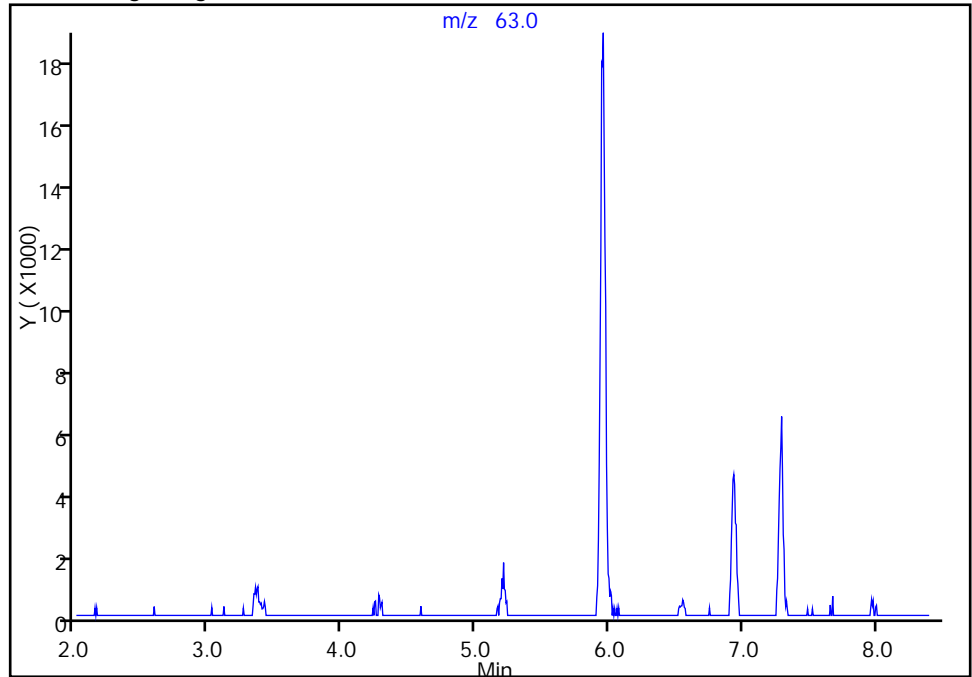
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\51003006.D
Injection Date: 03-Oct-2015 13:50:30 Instrument ID: CHHP5
Lims ID: 180-48181-A-2 Lab Sample ID: 180-48181-2
Client ID: HD-MW-147A-0/1-0
Operator ID: 001562 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

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

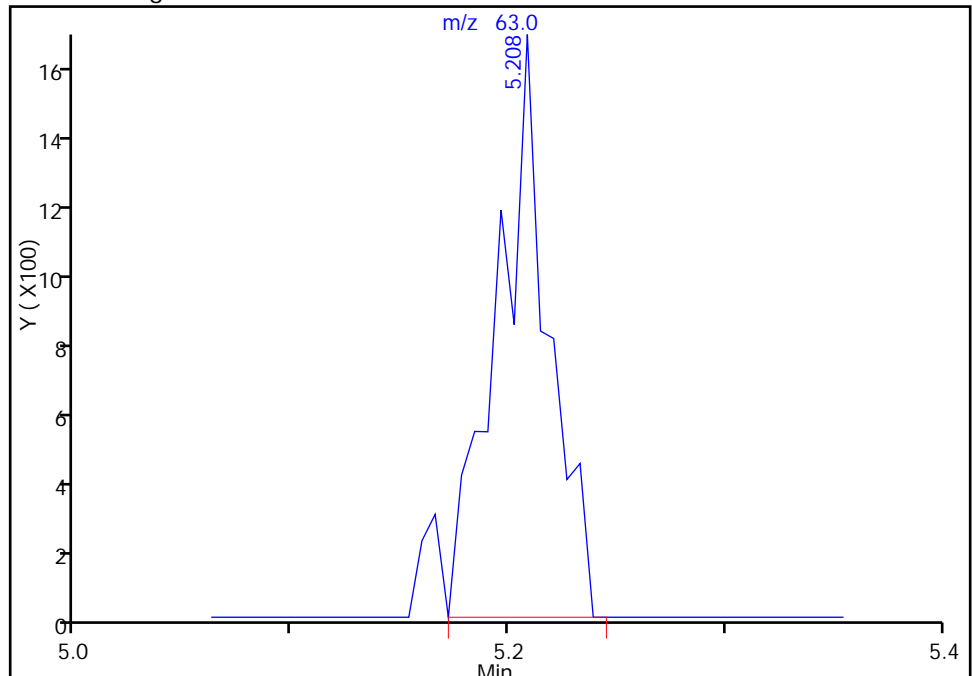
Not Detected
Expected RT: 5.20

Processing Integration Results



Manual Integration Results

RT: 5.21
Area: 2720
Amount: 0.693628
Amount Units: ng



Reviewer: fergusond, 03-Oct-2015 14:42:20
Audit Action: Manually Integrated
Audit Reason: Missed Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-MW-93S-0/1-0 Lab Sample ID: 180-48181-3
 Matrix: Water Lab File ID: 51006021.D
 Analysis Method: 8260C Date Collected: 09/25/2015 12:25
 Sample wt/vol: 5 (mL) Date Analyzed: 10/06/2015 20:21
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 156037 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		1.0	0.28
75-01-4	Vinyl chloride	ND		1.0	0.23
74-83-9	Bromomethane	ND		1.0	0.31
75-00-3	Chloroethane	ND	^c	1.0	0.21
75-35-4	1,1-Dichloroethene	0.95	J	1.0	0.30
67-64-1	Acetone	ND		5.0	2.5
75-15-0	Carbon disulfide	ND		1.0	0.21
75-09-2	Methylene Chloride	ND		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.17
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.18
75-34-3	1,1-Dichloroethane	1.1		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	23		1.0	0.24
74-97-5	Bromochloromethane	ND		1.0	0.18
78-93-3	2-Butanone (MEK)	ND		5.0	0.55
67-66-3	Chloroform	ND		1.0	0.17
71-55-6	1,1,1-Trichloroethane	6.8		1.0	0.29
56-23-5	Carbon tetrachloride	ND		1.0	0.14
71-43-2	Benzene	ND		1.0	0.11
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
79-01-6	Trichloroethene	31		1.0	0.14
78-87-5	1,2-Dichloropropane	ND		1.0	0.095
75-27-4	Bromodichloromethane	ND		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.53
108-88-3	Toluene	ND		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.20
127-18-4	Tetrachloroethene	110	E	1.0	0.15
591-78-6	2-Hexanone	ND		5.0	0.16
124-48-1	Dibromochloromethane	ND		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.28
100-41-4	Ethylbenzene	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		3.0	0.49
100-42-5	Styrene	ND		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-MW-93S-0/1-0 Lab Sample ID: 180-48181-3
 Matrix: Water Lab File ID: 51006021.D
 Analysis Method: 8260C Date Collected: 09/25/2015 12:25
 Sample wt/vol: 5 (mL) Date Analyzed: 10/06/2015 20:21
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 156037 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		64-135
2037-26-5	Toluene-d8 (Surr)	93		71-118
460-00-4	4-Bromofluorobenzene (Surr)	88		70-118
1868-53-7	Dibromofluoromethane (Surr)	109		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006021.D
 Lims ID: 180-48181-B-3 Lab Sample ID: 180-48181-3
 Client ID: HD-MW-93S-0/1-0
 Sample Type: Client
 Inject. Date: 06-Oct-2015 20:21:30 ALS Bottle#: 19 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-48181-B-3
 Misc. Info.: 180-0008850-021
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 07-Oct-2015 08:06:14 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: fergusond

Date: 07-Oct-2015 08:06:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.265	4.279	-0.014	0	118735	1000.0	
* 2 Fluorobenzene (IS)	96	7.295	7.290	0.005	99	275532	50.0	
* 3 Chlorobenzene-d5	119	10.391	10.387	0.004	87	71803	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.727	12.729	-0.002	95	105955	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.571	6.560	0.011	94	73595	54.4	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.942	6.937	0.005	0	87252	46.9	
\$ 7 Toluene-d8 (Surr)	98	8.937	8.939	-0.002	94	258050	46.6	
\$ 8 4-Bromofluorobenzene (Surr	95	11.571	11.573	-0.002	91	91607	43.8	
12 Chloromethane	50		1.779				ND	
13 Vinyl chloride	62		1.912				ND	
15 Bromomethane	94		2.247				ND	
16 Chloroethane	64		2.399				ND	
22 1,1-Dichloroethene	96	3.401	3.348	0.053	43	7308	4.76	
24 Acetone	43		3.451				ND	
26 Carbon disulfide	76		3.652				ND	
31 Methylene Chloride	84		4.133				ND	
33 Acrylonitrile	53		4.528				ND	
34 trans-1,2-Dichloroethene	96	4.563	4.565	-0.002	1	654	0.3925	M
35 Methyl tert-butyl ether	73		4.583				ND	
37 1,1-Dichloroethane	63	5.202	5.204	-0.002	97	18530	5.65	
45 cis-1,2-Dichloroethene	96	5.956	5.958	-0.002	82	200940	112.9	
46 2-Butanone (MEK)	43		5.964				ND	
49 Chlorobromomethane	128		6.238				ND	
52 Chloroform	83	6.388	6.384	0.004	38	1144	0.4034	
53 1,1,1-Trichloroethane	97	6.546	6.542	0.004	96	71179	33.9	
56 Carbon tetrachloride	117		6.718				ND	
58 Benzene	78		6.943				ND	
59 1,2-Dichloroethane	62		7.022				ND	
64 Trichloroethene	130	7.678	7.679	-0.001	96	256326	154.2	
67 1,2-Dichloropropane	63		7.947				ND	
70 1,4-Dioxane	88		8.032				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.233				ND	
74 cis-1,3-Dichloropropene	75		8.677				ND	
75 4-Methyl-2-pentanone (MIBK)	43		8.829				ND	
76 Toluene	91		9.006				ND	
77 trans-1,3-Dichloropropene	75		9.255				ND	
79 1,1,2-Trichloroethane	97		9.450				ND	
80 Tetrachloroethene	164	9.515	9.517	-0.002	98	745322	540.1	E
82 2-Hexanone	43		9.663				ND	
84 Chlorodibromomethane	129		9.815				ND	
85 Ethylene Dibromide	107		9.930				ND	
87 Chlorobenzene	112	10.422	10.417	0.005	1	1283	0.2803	
89 1,1,1,2-Tetrachloroethane	131		10.514				ND	
90 Ethylbenzene	106		10.514				ND	
91 m-Xylene & p-Xylene	106		10.648				ND	
92 o-Xylene	106		11.031				ND	
93 Styrene	104		11.050				ND	
94 Bromoform	173		11.232				ND	
99 1,1,2,2-Tetrachloroethane	83		11.707				ND	
S 133 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00042

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00042

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006021.D

Injection Date: 06-Oct-2015 20:21:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: 180-48181-B-3

Lab Sample ID: 180-48181-3

Worklist Smp#: 21

Client ID: HD-MW-93S-0/1-0

Purge Vol: 5.000 mL

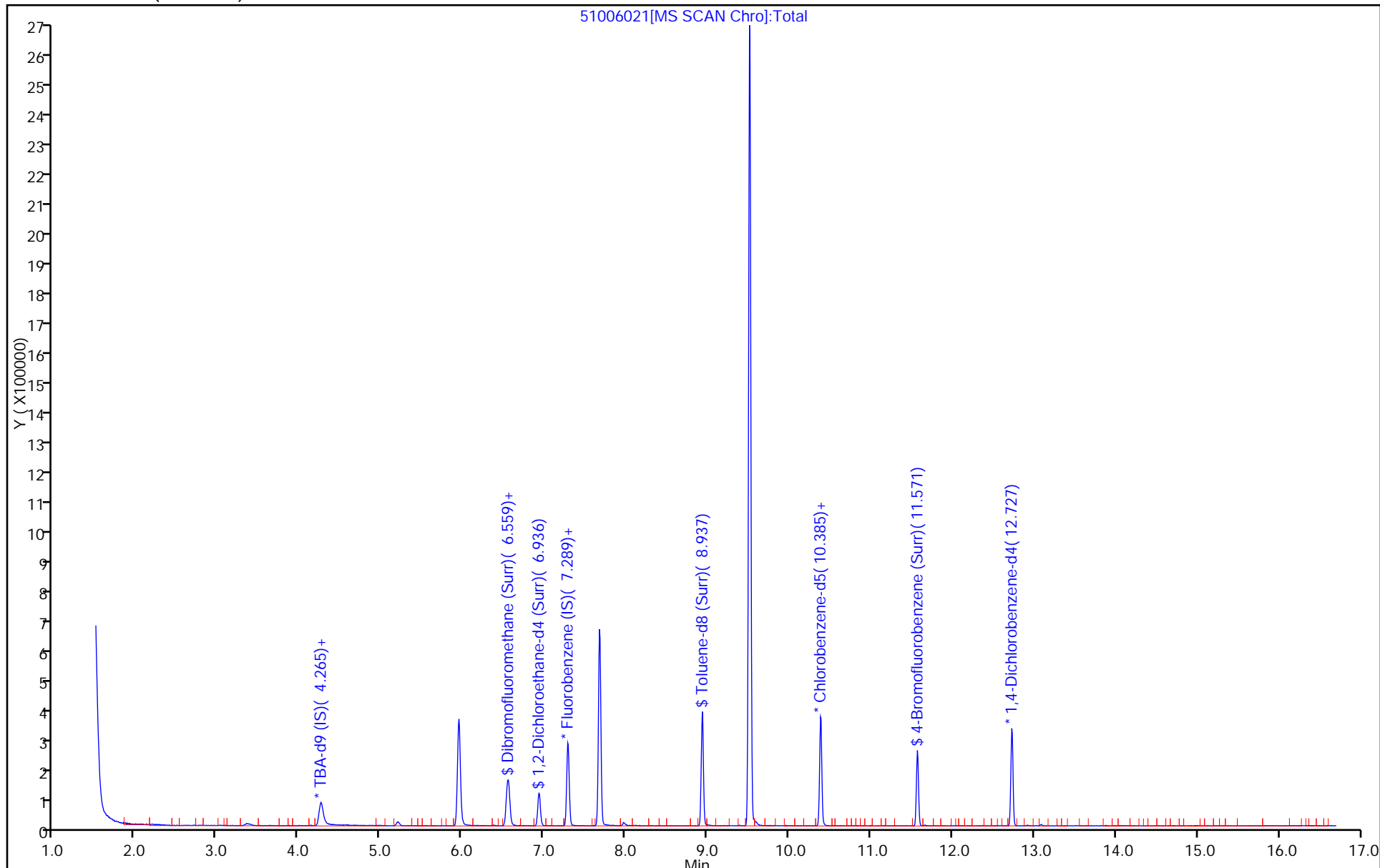
Dil. Factor: 1.0000

ALS Bottle#: 19

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006021.D

Injection Date: 06-Oct-2015 20:21:30

Instrument ID: CHHP5

Lims ID: 180-48181-B-3

Lab Sample ID: 180-48181-3

Client ID: HD-MW-93S-0/1-0

Operator ID: 001562

ALS Bottle#: 19

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

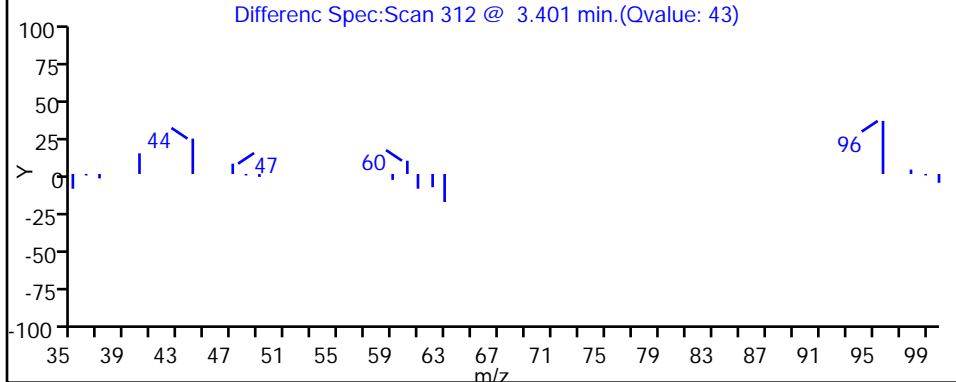
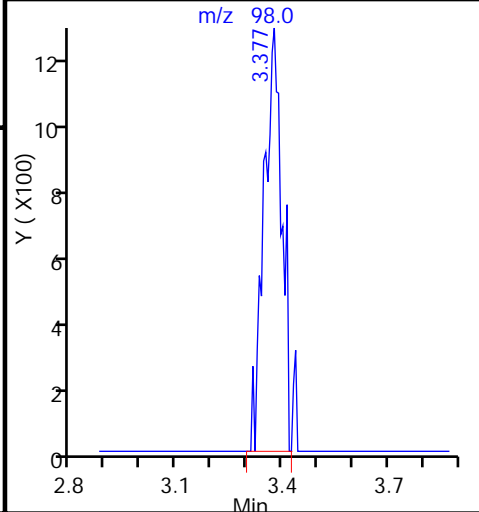
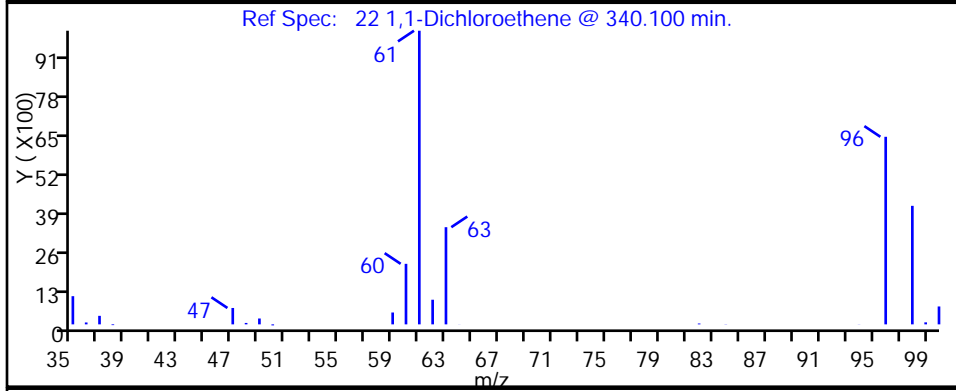
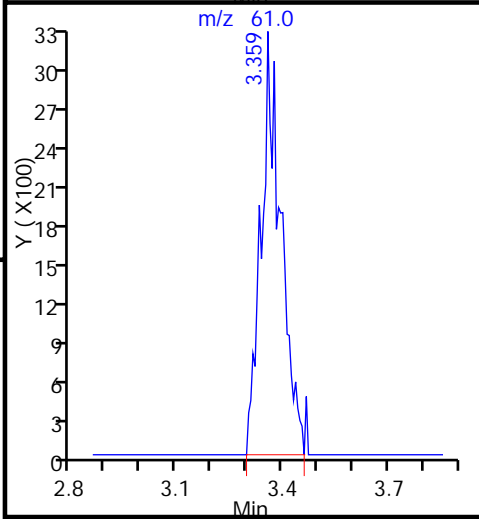
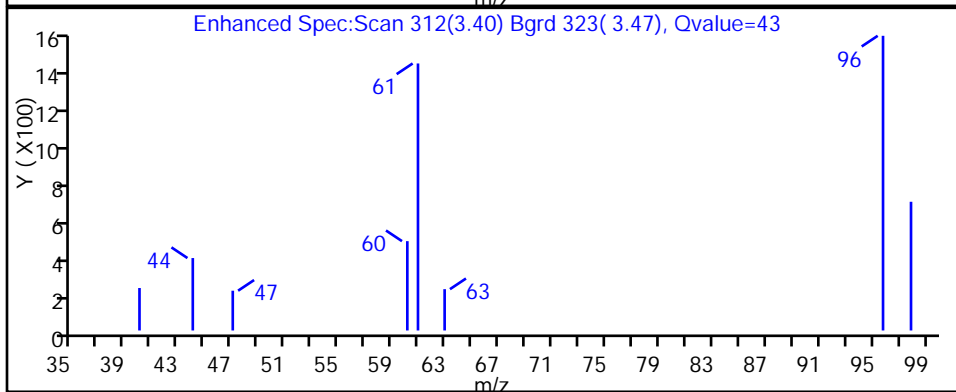
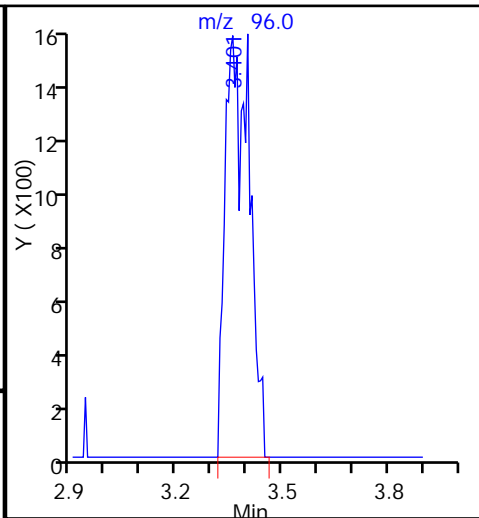
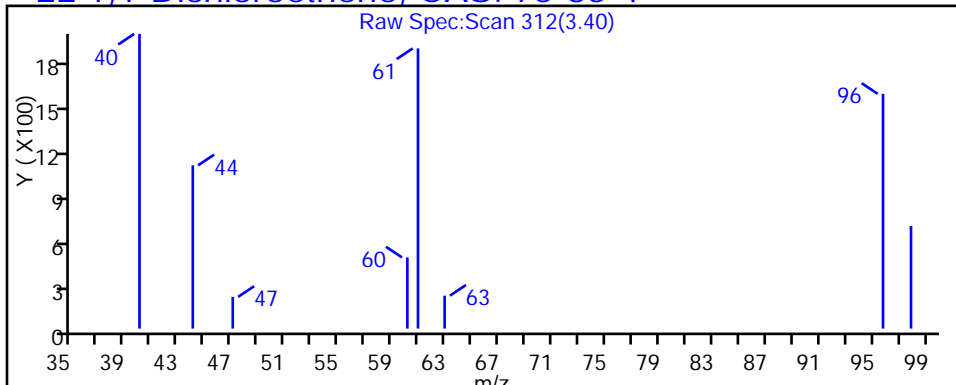
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006021.D

Injection Date: 06-Oct-2015 20:21:30

Instrument ID: CHHP5

Lims ID: 180-48181-B-3

Lab Sample ID: 180-48181-3

Client ID: HD-MW-93S-0/1-0

Operator ID: 001562

ALS Bottle#: 19

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

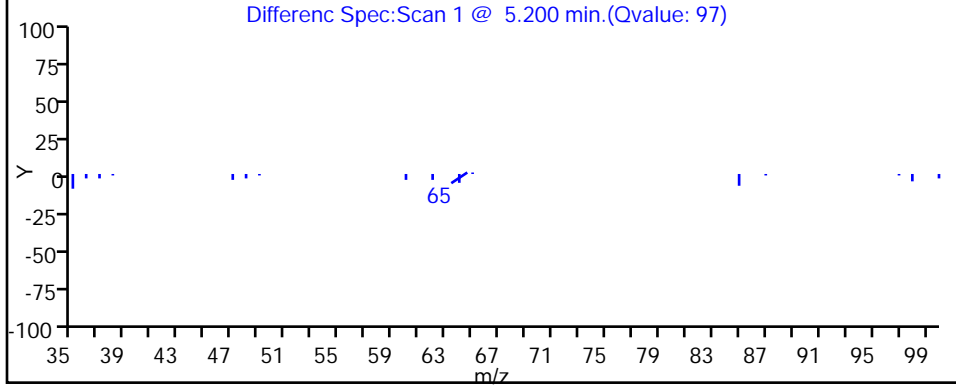
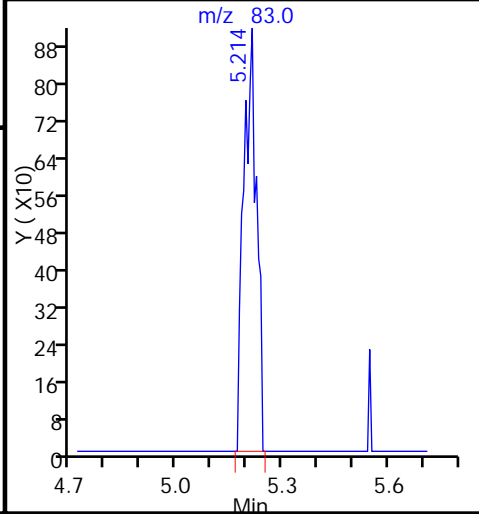
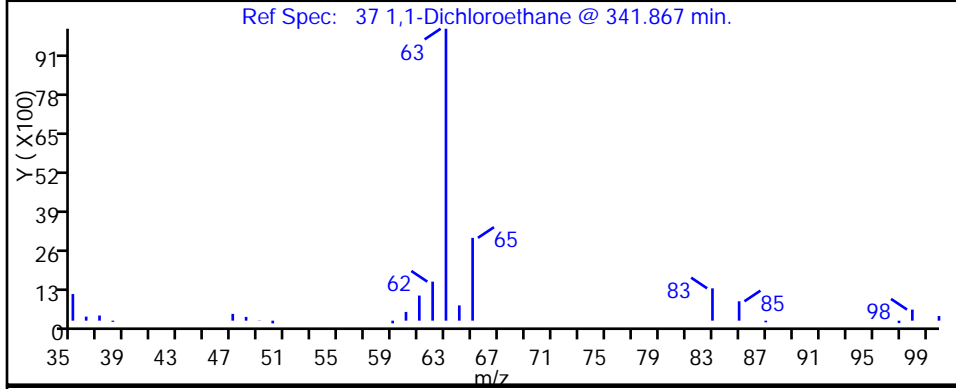
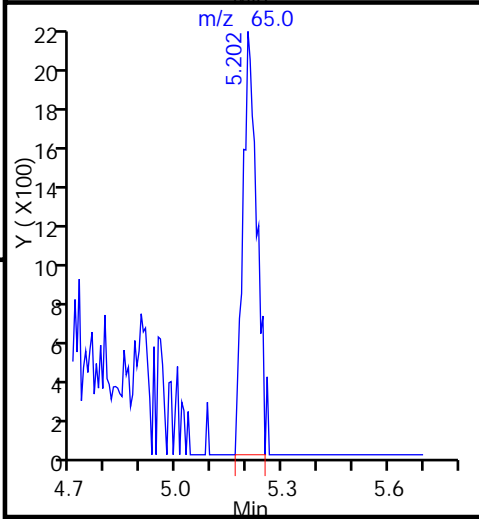
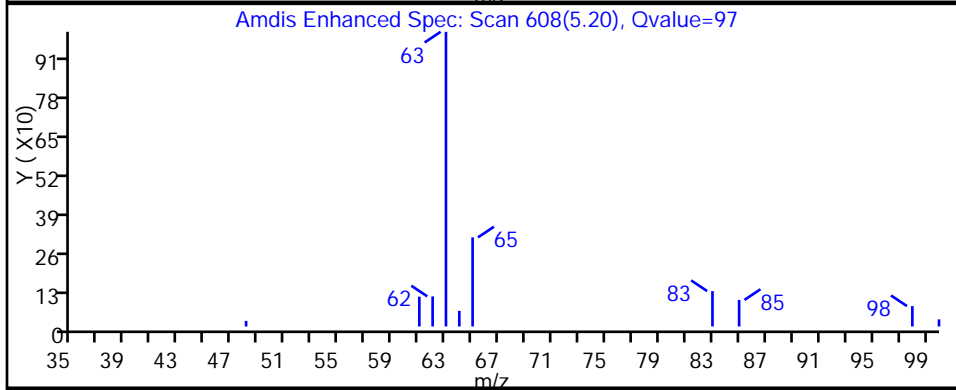
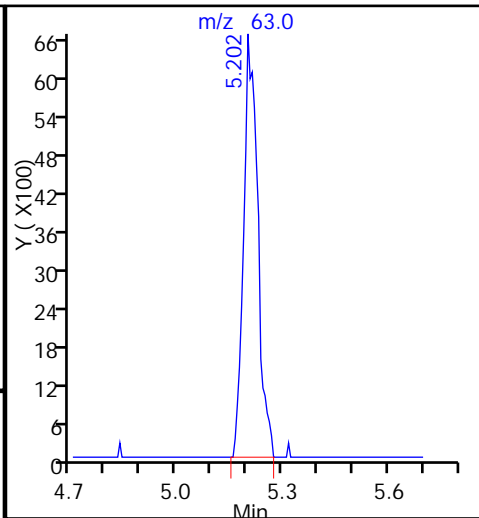
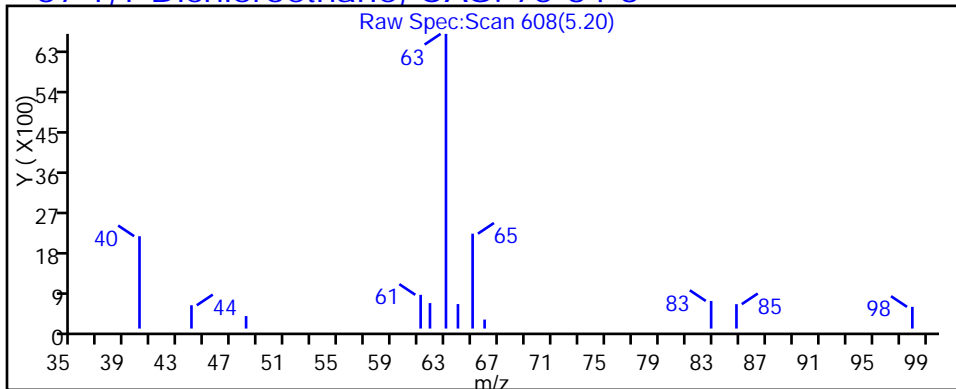
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006021.D

Injection Date: 06-Oct-2015 20:21:30

Instrument ID: CHHP5

Lims ID: 180-48181-B-3

Lab Sample ID: 180-48181-3

Client ID: HD-MW-93S-0/1-0

Operator ID: 001562

ALS Bottle#: 19

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

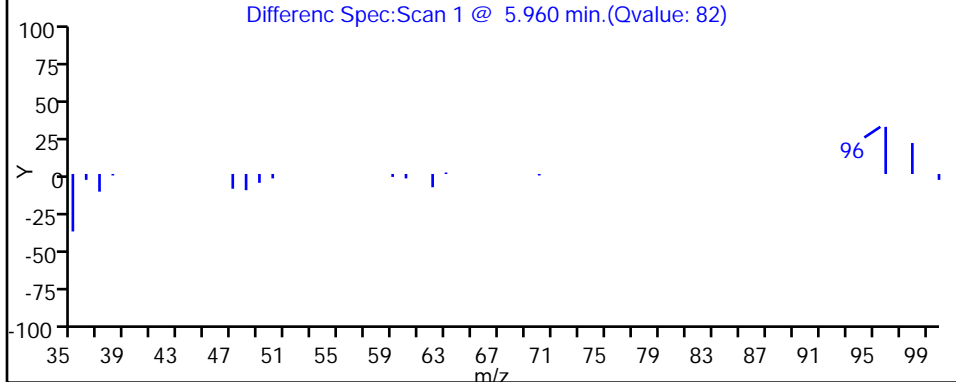
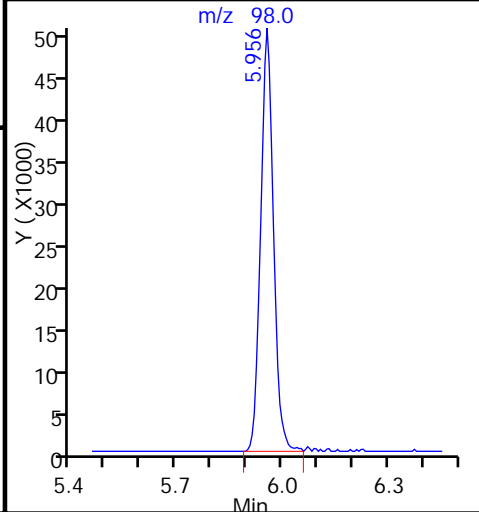
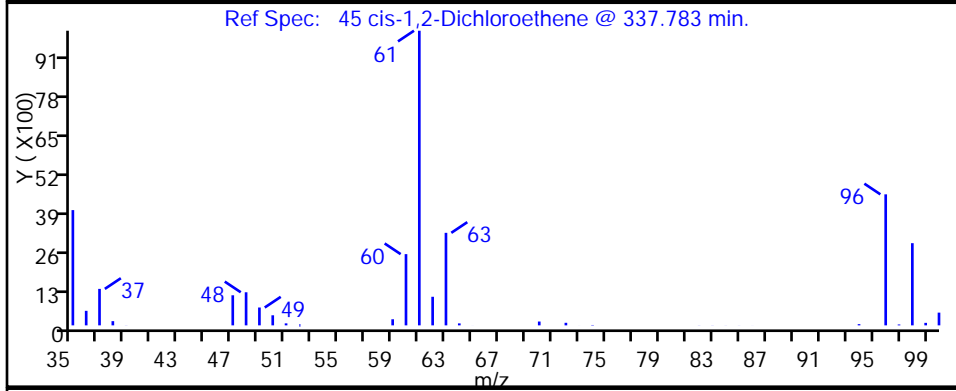
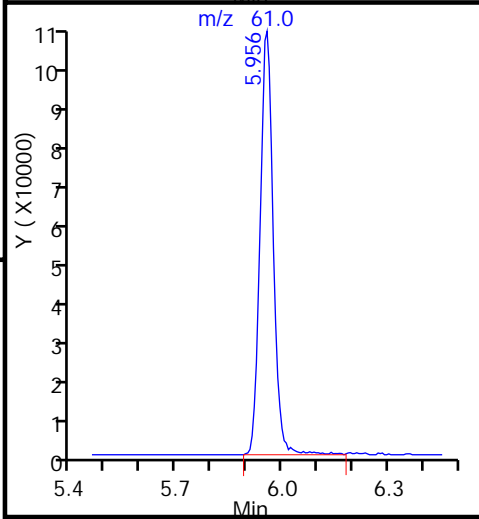
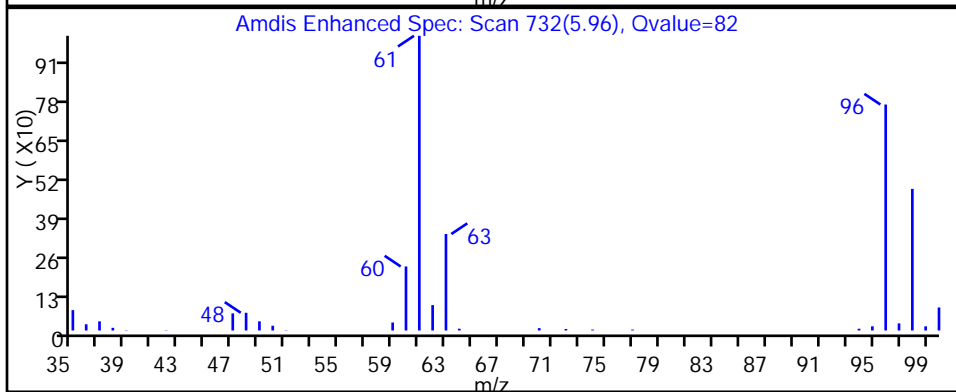
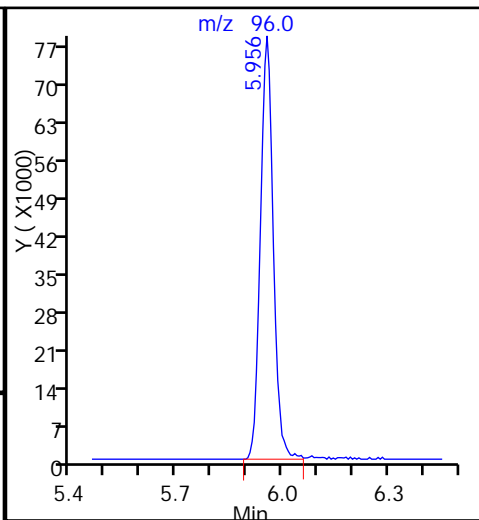
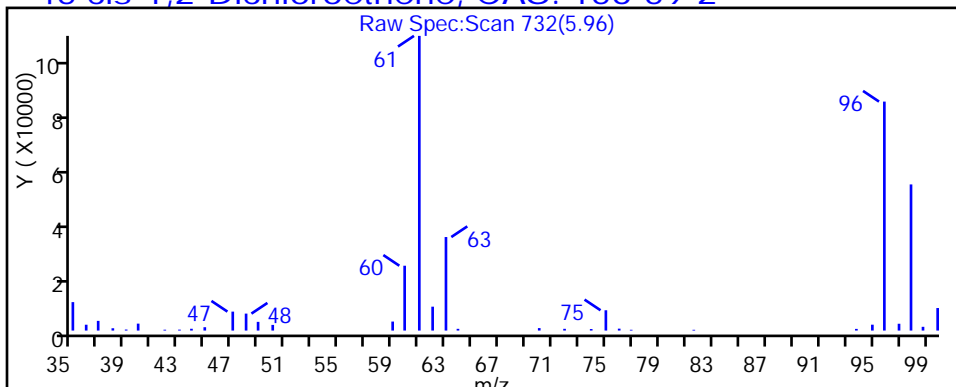
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006021.D

Injection Date: 06-Oct-2015 20:21:30

Instrument ID: CHHP5

Lims ID: 180-48181-B-3

Lab Sample ID: 180-48181-3

Client ID: HD-MW-93S-0/1-0

Operator ID: 001562

ALS Bottle#: 19

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

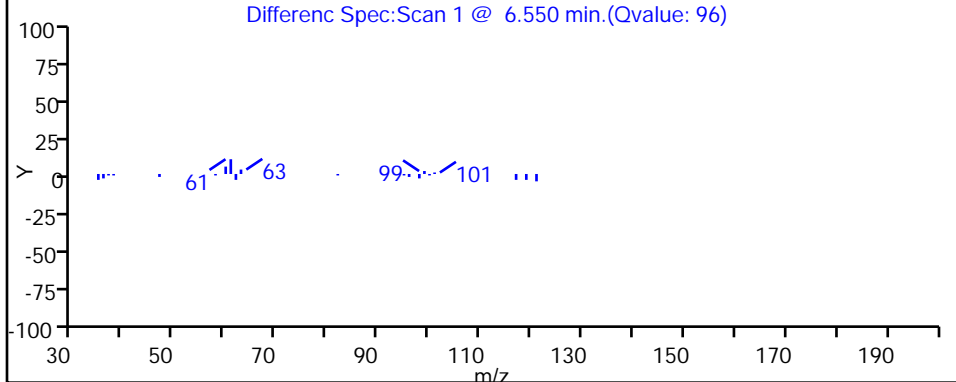
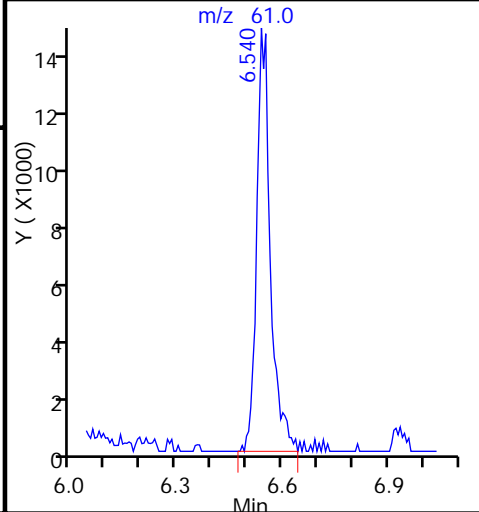
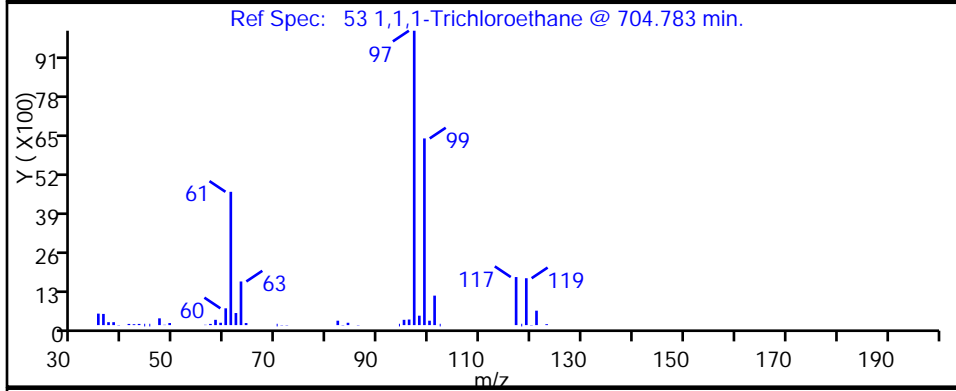
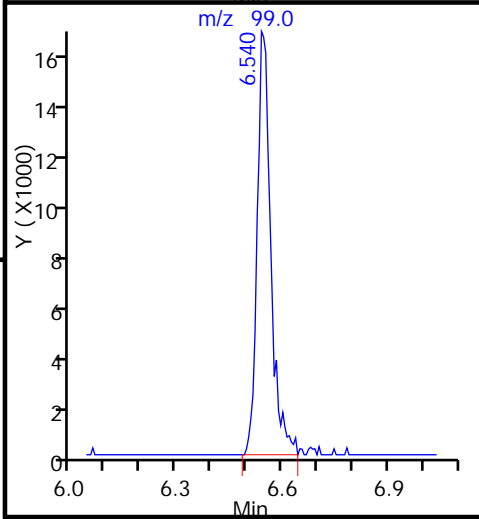
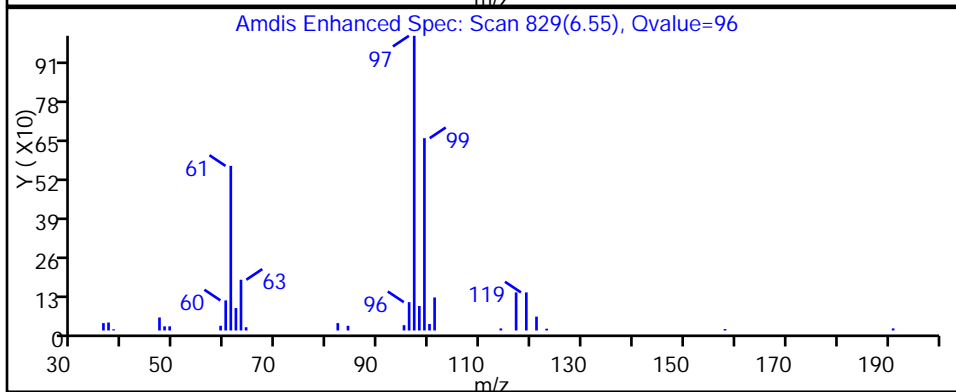
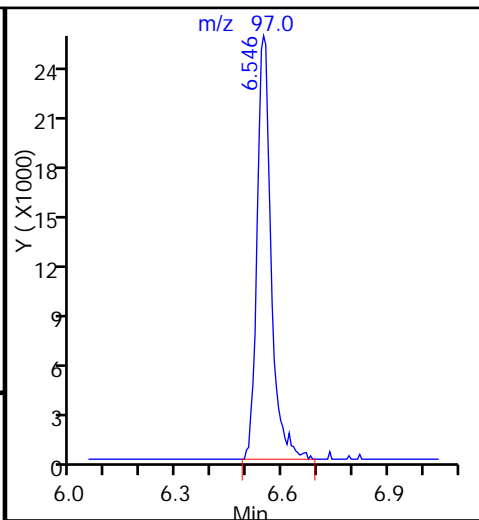
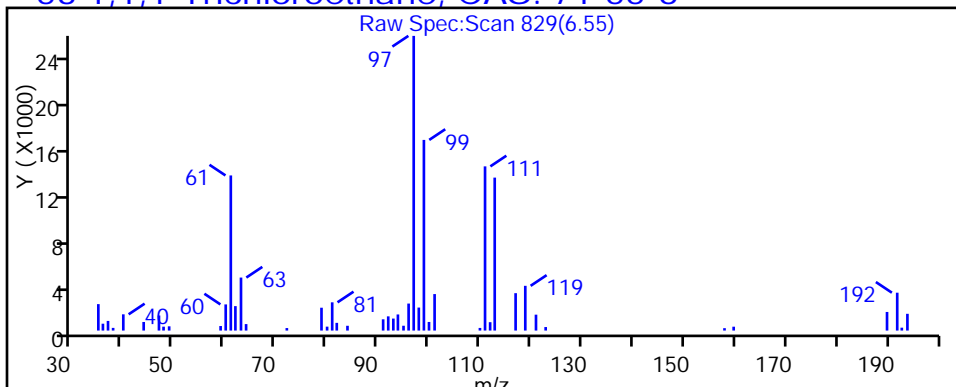
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

53 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006021.D

Injection Date: 06-Oct-2015 20:21:30

Instrument ID: CHHP5

Lims ID: 180-48181-B-3

Lab Sample ID: 180-48181-3

Client ID: HD-MW-93S-0/1-0

Operator ID: 001562

ALS Bottle#: 19

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

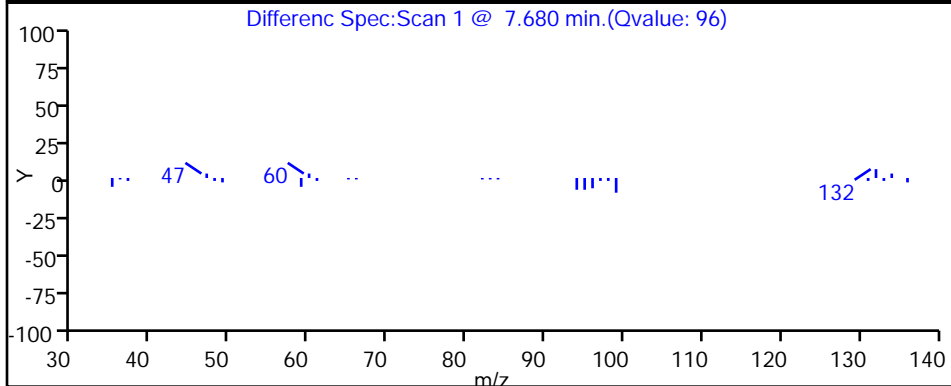
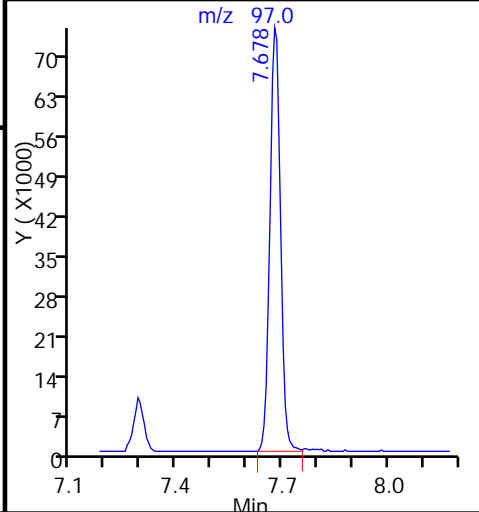
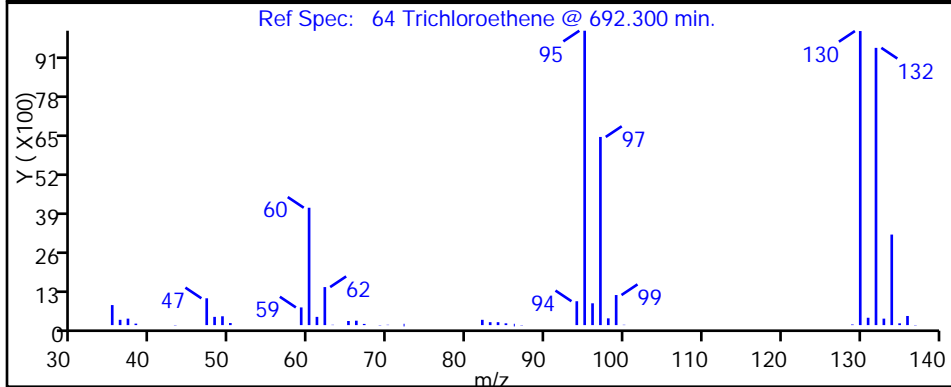
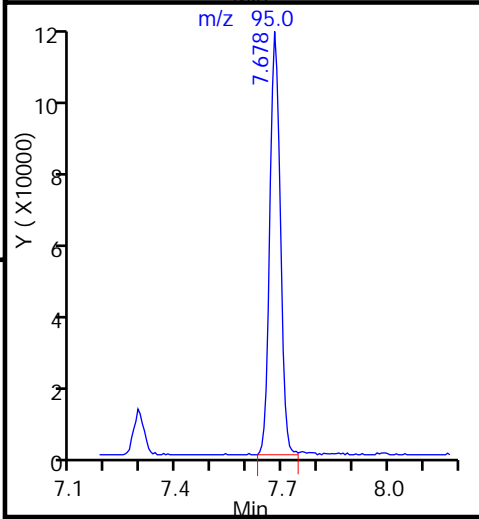
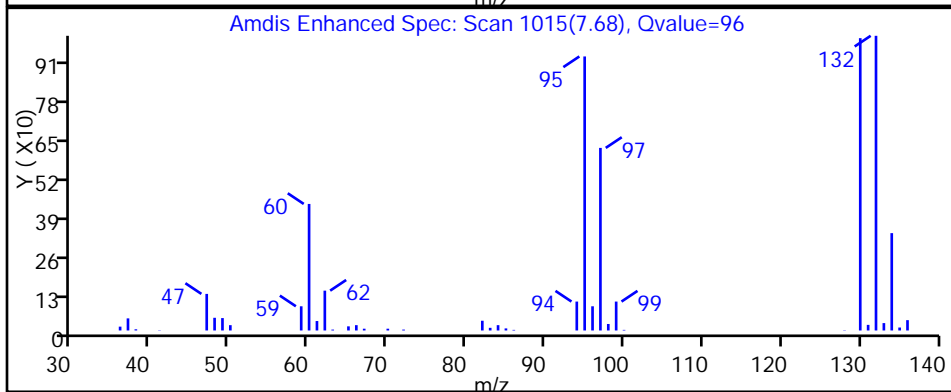
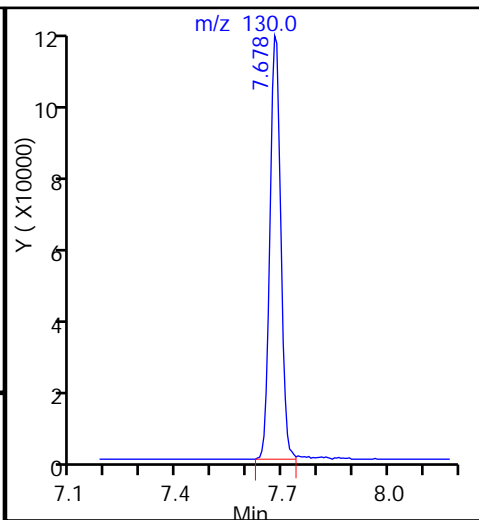
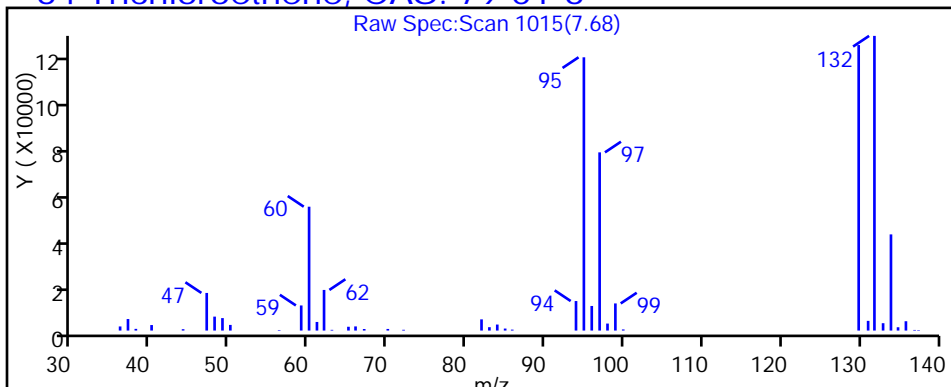
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

64 Trichloroethene, CAS: 79-01-6



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006021.D

Injection Date: 06-Oct-2015 20:21:30

Instrument ID: CHHP5

Lims ID: 180-48181-B-3

Lab Sample ID: 180-48181-3

Client ID: HD-MW-93S-0/1-0

Operator ID: 001562

ALS Bottle#: 19

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

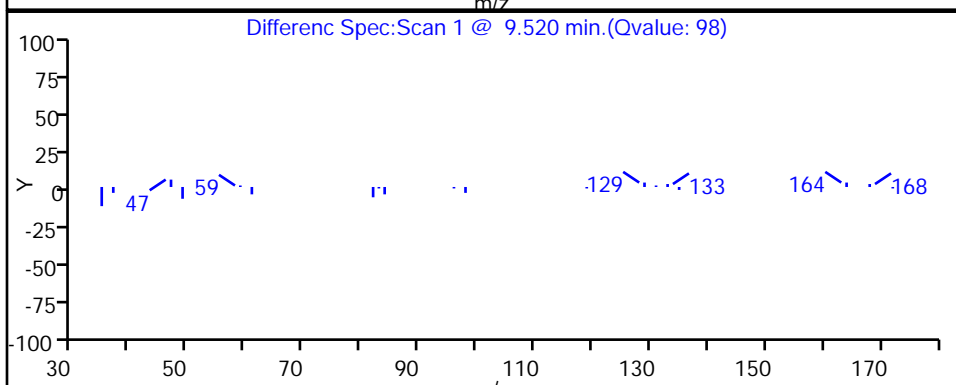
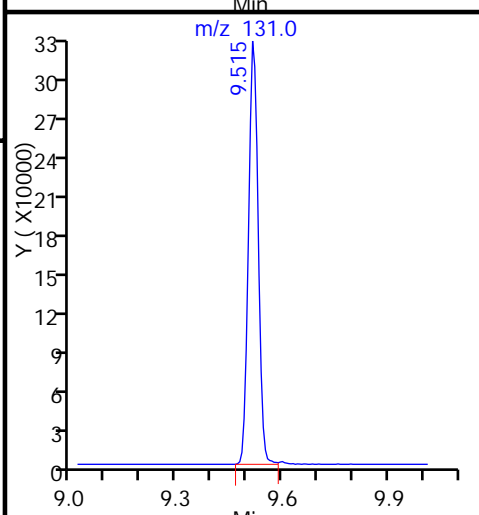
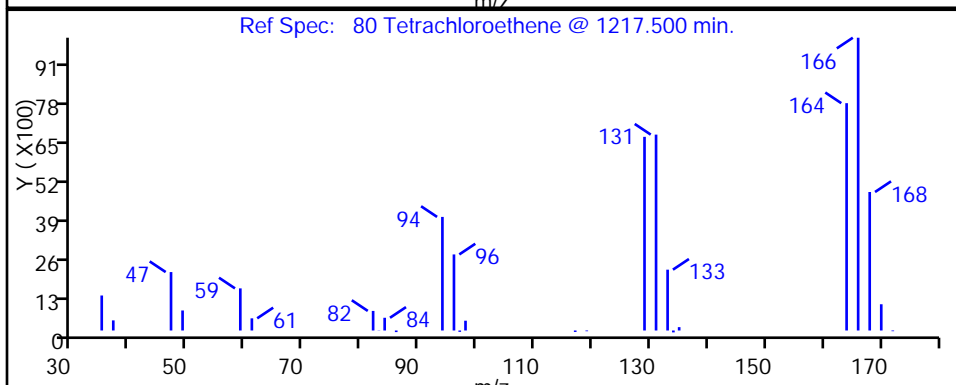
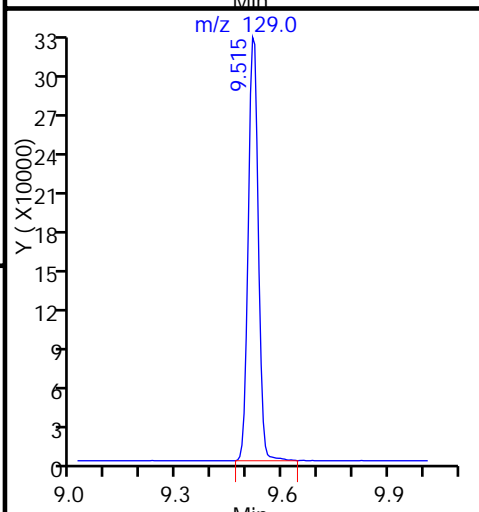
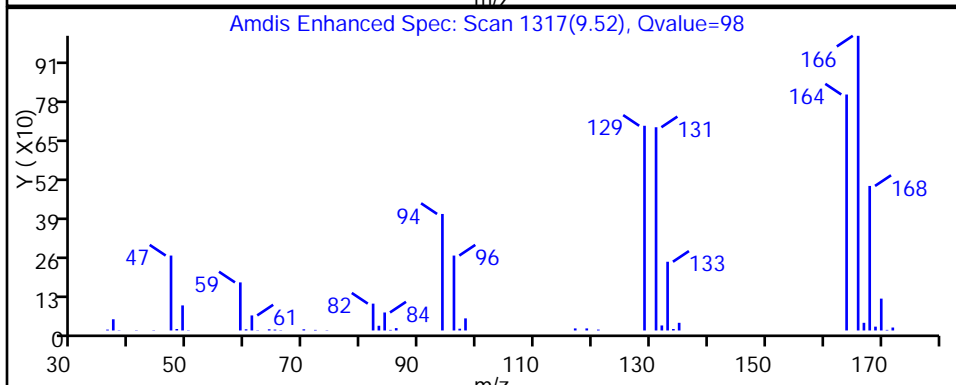
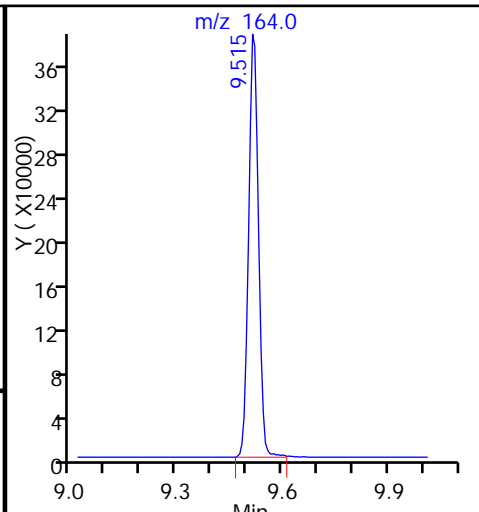
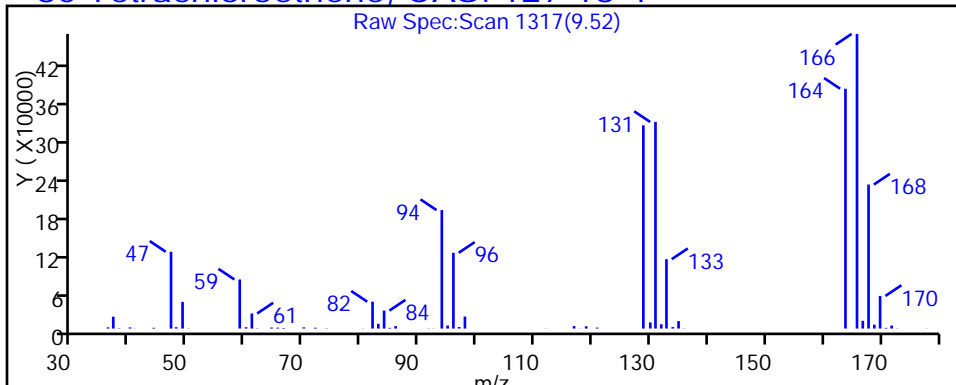
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

80 Tetrachloroethene, CAS: 127-18-4



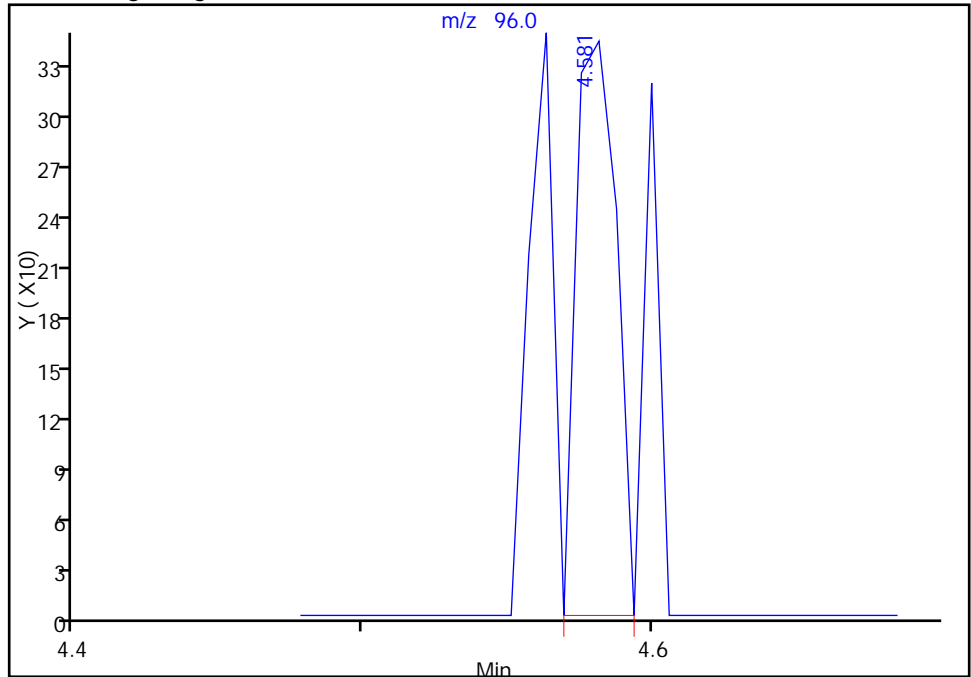
TestAmerica Pittsburgh

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Injection Date: 06-Oct-2015 20:21:30 Instrument ID: CHHP5
Lims ID: 180-48181-B-3 Lab Sample ID: 180-48181-3
Client ID: HD-MW-93S-0/1-0
Operator ID: 001562 ALS Bottle#: 19 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

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

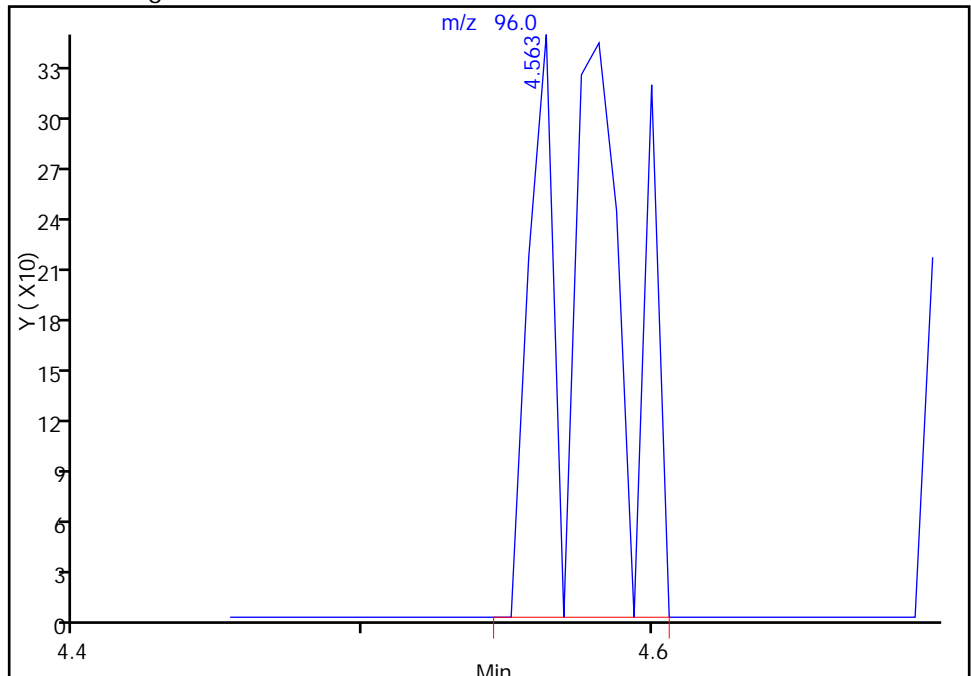
RT: 4.58
Area: 332
Amount: 0.199258
Amount Units: ng

Processing Integration Results



RT: 4.56
Area: 654
Amount: 0.392514
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 07-Oct-2015 08:06:14
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-MW-93S-0/1-0 DL Lab Sample ID: 180-48181-3 DL
 Matrix: Water Lab File ID: 51006014.D
 Analysis Method: 8260C Date Collected: 09/25/2015 12:25
 Sample wt/vol: 5 (mL) Date Analyzed: 10/06/2015 17:32
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 156037 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		5.0	1.4
75-01-4	Vinyl chloride	ND		5.0	1.1
74-83-9	Bromomethane	ND		5.0	1.6
75-00-3	Chloroethane	ND	^c	5.0	1.1
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
67-64-1	Acetone	ND		25	13
75-15-0	Carbon disulfide	ND		5.0	1.1
75-09-2	Methylene Chloride	ND		5.0	0.63
156-60-5	trans-1,2-Dichloroethene	ND		5.0	0.85
1634-04-4	Methyl tert-butyl ether	ND		5.0	0.92
75-34-3	1,1-Dichloroethane	1.1	J	5.0	0.58
156-59-2	cis-1,2-Dichloroethene	20		5.0	1.2
74-97-5	Bromochloromethane	ND		5.0	0.90
78-93-3	2-Butanone (MEK)	ND		25	2.7
67-66-3	Chloroform	ND		5.0	0.85
71-55-6	1,1,1-Trichloroethane	5.5		5.0	1.4
56-23-5	Carbon tetrachloride	ND		5.0	0.68
71-43-2	Benzene	ND		5.0	0.53
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
79-01-6	Trichloroethene	27		5.0	0.72
78-87-5	1,2-Dichloropropane	ND		5.0	0.47
75-27-4	Bromodichloromethane	ND		5.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	0.93
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	2.6
108-88-3	Toluene	ND		5.0	0.75
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	0.74
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.0
127-18-4	Tetrachloroethene	90		5.0	0.74
591-78-6	2-Hexanone	ND		25	0.80
124-48-1	Dibromochloromethane	ND		5.0	0.68
106-93-4	1,2-Dibromoethane (EDB)	ND		5.0	0.90
108-90-7	Chlorobenzene	ND		5.0	0.68
630-20-6	1,1,1,2-Tetrachloroethane	ND		5.0	1.4
100-41-4	Ethylbenzene	ND		5.0	1.1
1330-20-7	Xylenes, Total	ND		15	2.4
100-42-5	Styrene	ND		5.0	0.48

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-MW-93S-0/1-0 DL Lab Sample ID: 180-48181-3 DL
 Matrix: Water Lab File ID: 51006014.D
 Analysis Method: 8260C Date Collected: 09/25/2015 12:25
 Sample wt/vol: 5 (mL) Date Analyzed: 10/06/2015 17:32
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 156037 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	ND		5.0	0.96
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.0
107-13-1	Acrylonitrile	ND		100	2.7
123-91-1	1,4-Dioxane	ND		1000	170

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		64-135
2037-26-5	Toluene-d8 (Surr)	91		71-118
460-00-4	4-Bromofluorobenzene (Surr)	88		70-118
1868-53-7	Dibromofluoromethane (Surr)	106		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006014.D
 Lims ID: 180-48181-C-3 Lab Sample ID: 180-48181-3
 Client ID: HD-MW-93S-0/1-0
 Sample Type: Client
 Inject. Date: 06-Oct-2015 17:32:30 ALS Bottle#: 12 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 180-48181-C-3, 5x
 Misc. Info.: 180-0008850-014
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 07-Oct-2015 07:52:21 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: fergusond

Date: 07-Oct-2015 07:52:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.266	4.279	-0.013	0	125244	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.290	0.000	98	291731	50.0	
* 3 Chlorobenzene-d5	119	10.386	10.387	-0.001	86	74641	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.728	12.729	-0.001	95	109330	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.566	6.560	0.006	94	76057	53.1	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.937	6.937	0.000	0	89497	45.5	
\$ 7 Toluene-d8 (Surr)	98	8.938	8.939	-0.001	94	260957	45.3	
\$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.573	-0.001	92	95305	43.9	
12 Chloromethane	50		1.779				ND	
13 Vinyl chloride	62		1.912				ND	
15 Bromomethane	94		2.247				ND	
16 Chloroethane	64		2.399				ND	
22 1,1-Dichloroethene	96	3.341	3.348	-0.007	0	717	0.4413	M
24 Acetone	43		3.451				ND	
26 Carbon disulfide	76		3.652				ND	
31 Methylene Chloride	84		4.133				ND	
33 Acrylonitrile	53		4.528				ND	
34 trans-1,2-Dichloroethene	96		4.565				ND	
35 Methyl tert-butyl ether	73		4.583				ND	
37 1,1-Dichloroethane	63	5.215	5.204	0.011	83	3716	1.07	
45 cis-1,2-Dichloroethene	96	5.957	5.958	-0.001	81	37498	19.9	
46 2-Butanone (MEK)	43		5.964				ND	
49 Chlorobromomethane	128		6.238				ND	
52 Chloroform	83		6.384				ND	
53 1,1,1-Trichloroethane	97	6.547	6.542	0.005	94	12225	5.51	
56 Carbon tetrachloride	117		6.718				ND	
58 Benzene	78		6.943				ND	
59 1,2-Dichloroethane	62		7.022				ND	
64 Trichloroethene	130	7.679	7.679	0.000	97	46751	26.6	
67 1,2-Dichloropropane	63		7.947				ND	
70 1,4-Dioxane	88		8.032				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.233				ND	
74 cis-1,3-Dichloropropene	75		8.677				ND	
75 4-Methyl-2-pentanone (MIBK)	43		8.829				ND	
76 Toluene	91		9.006				ND	
77 trans-1,3-Dichloropropene	75		9.255				ND	
79 1,1,2-Trichloroethane	97		9.450				ND	
80 Tetrachloroethene	164	9.516	9.517	-0.001	98	129572	90.3	
82 2-Hexanone	43		9.663				ND	
84 Chlorodibromomethane	129		9.815				ND	
85 Ethylene Dibromide	107		9.930				ND	
87 Chlorobenzene	112		10.417				ND	
89 1,1,1,2-Tetrachloroethane	131		10.514				ND	
90 Ethylbenzene	106		10.514				ND	
91 m-Xylene & p-Xylene	106		10.648				ND	
92 o-Xylene	106		11.031				ND	
93 Styrene	104		11.050				ND	
94 Bromoform	173		11.232				ND	
99 1,1,2,2-Tetrachloroethane	83		11.707				ND	
S 133 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00042

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00042

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006014.D

Injection Date: 06-Oct-2015 17:32:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: 180-48181-C-3

Lab Sample ID: 180-48181-3

Worklist Smp#: 14

Client ID: HD-MW-93S-0/1-0

Purge Vol: 5.000 mL

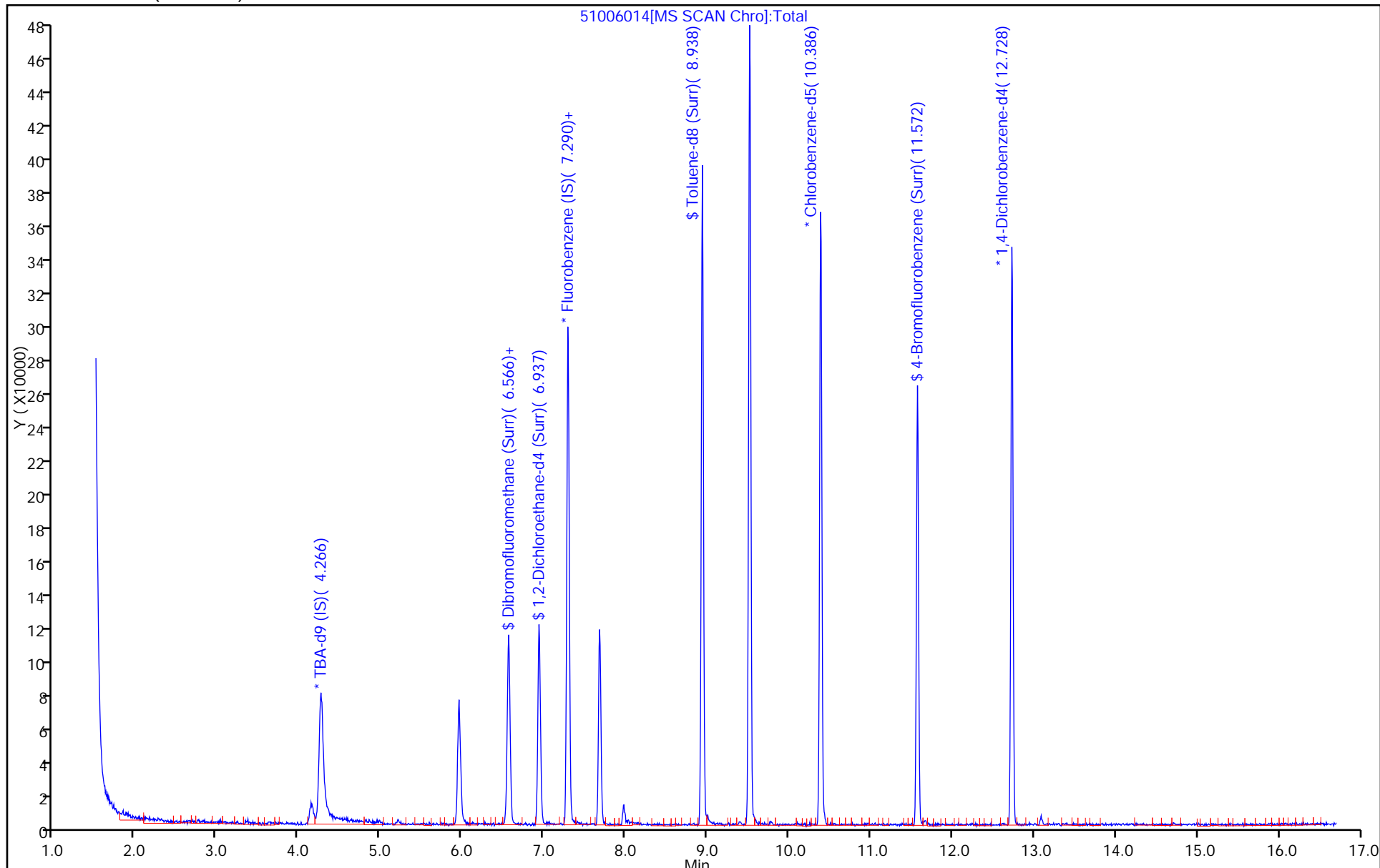
Dil. Factor: 5.0000

ALS Bottle#: 12

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006014.D

Injection Date: 06-Oct-2015 17:32:30

Instrument ID: CHHP5

Lims ID: 180-48181-C-3

Lab Sample ID: 180-48181-3

Client ID: HD-MW-93S-0/1-0

Operator ID: 001562

ALS Bottle#: 12

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

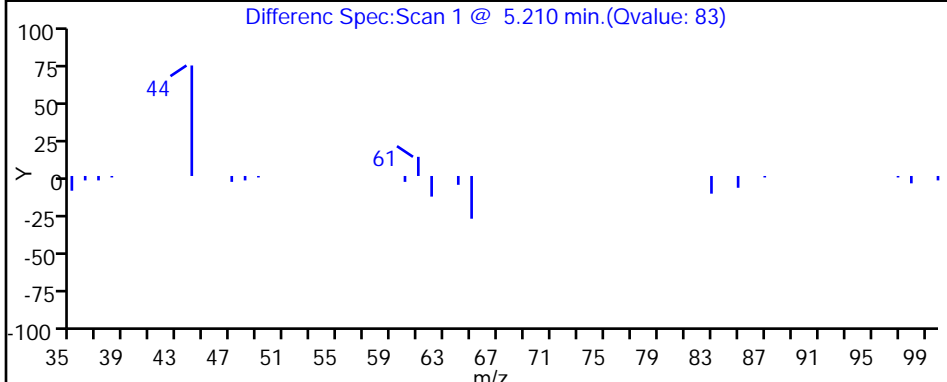
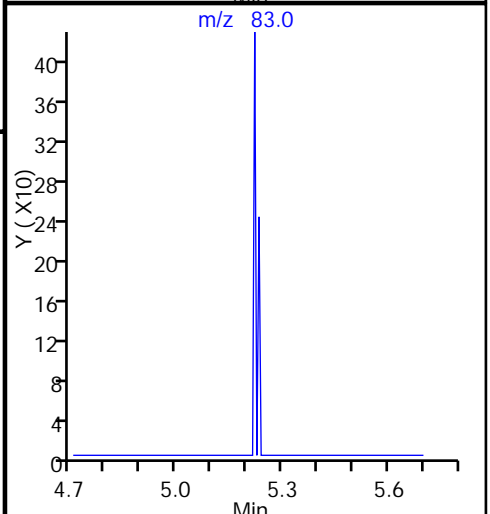
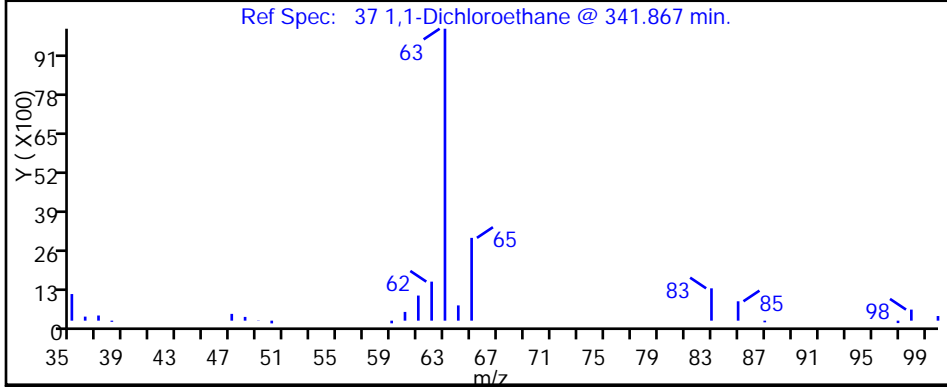
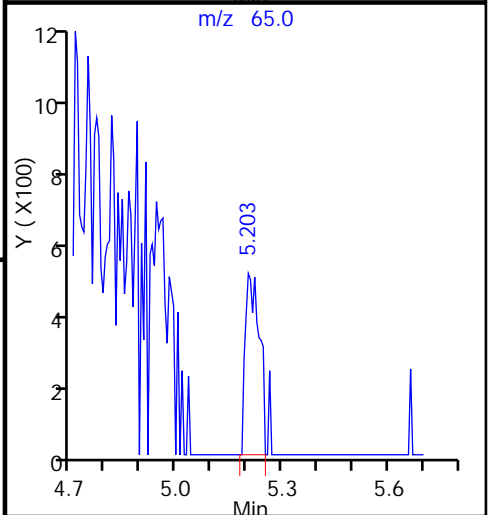
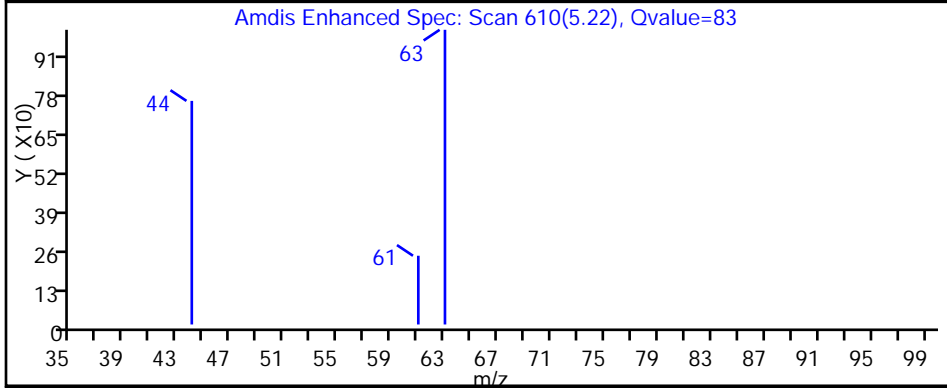
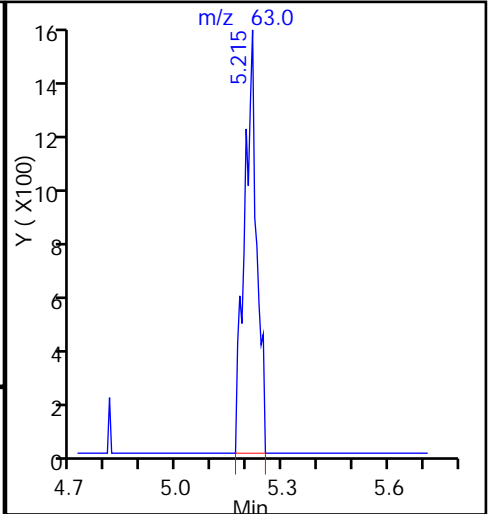
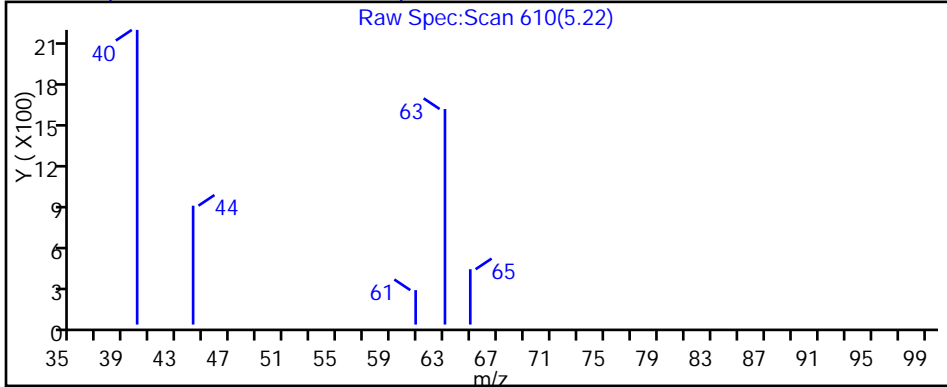
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006014.D

Injection Date: 06-Oct-2015 17:32:30

Instrument ID: CHHP5

Lims ID: 180-48181-C-3

Lab Sample ID: 180-48181-3

Client ID: HD-MW-93S-0/1-0

Operator ID: 001562

ALS Bottle#: 12

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

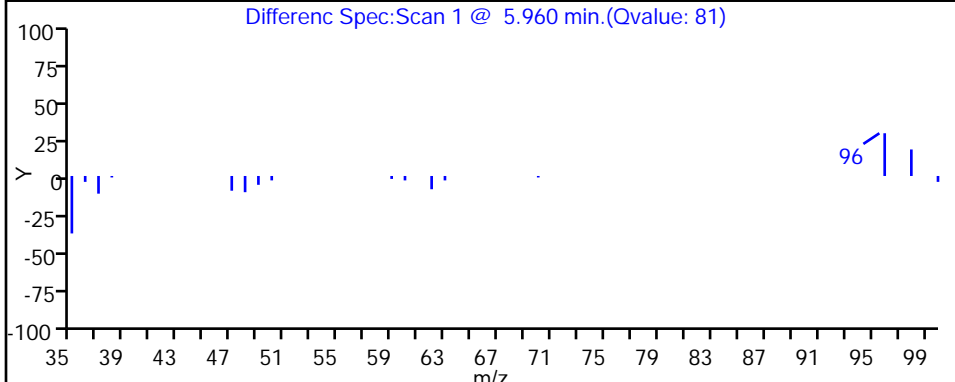
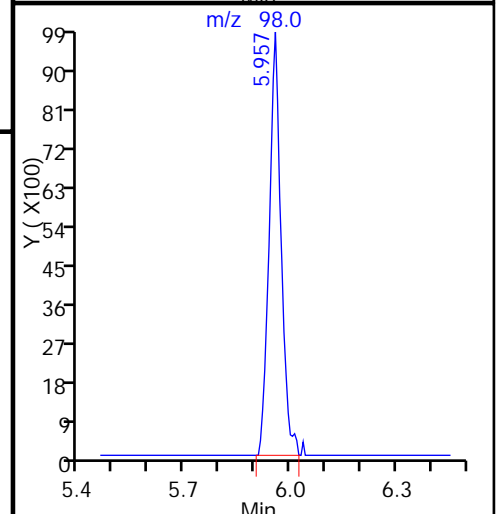
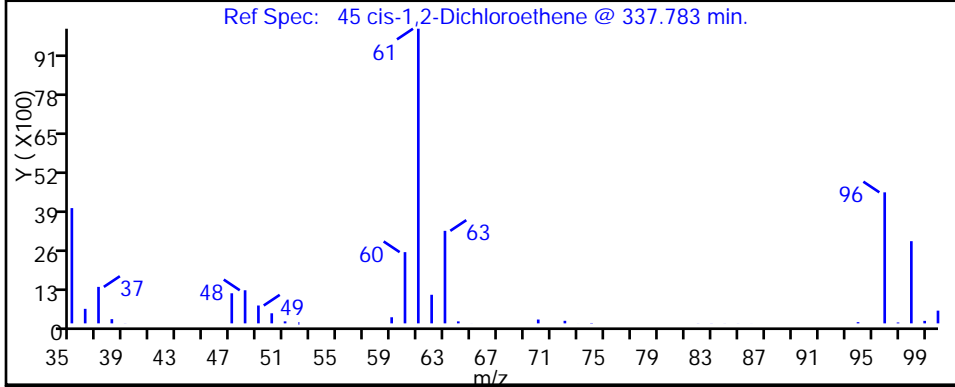
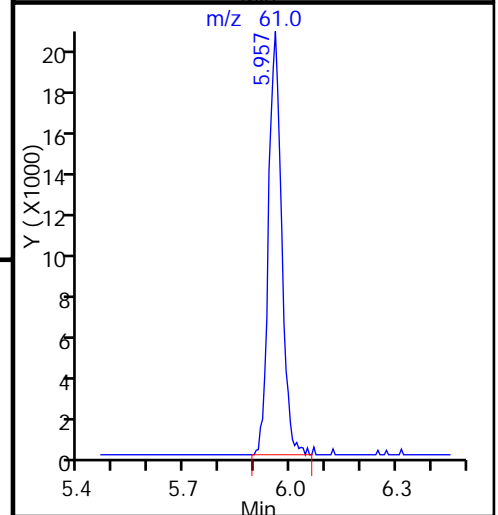
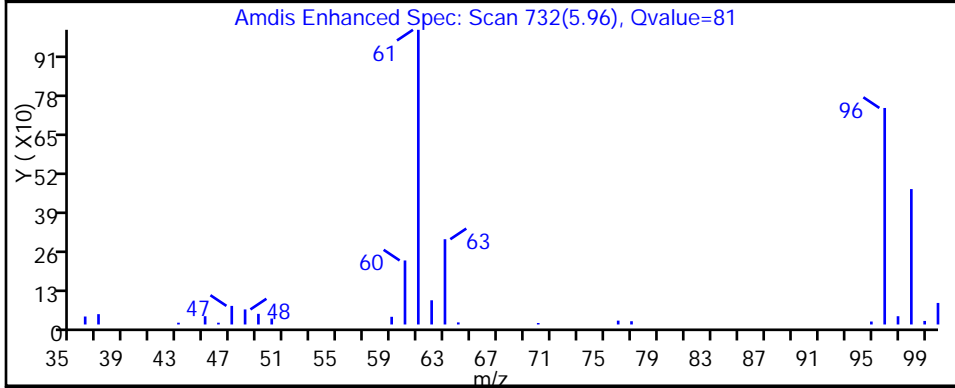
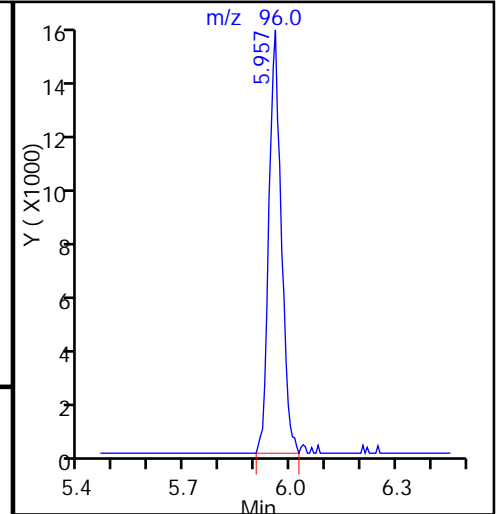
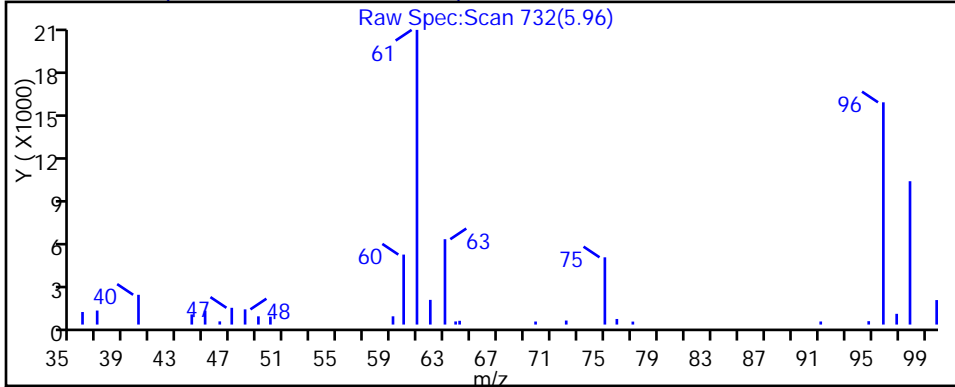
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006014.D

Injection Date: 06-Oct-2015 17:32:30

Instrument ID: CHHP5

Lims ID: 180-48181-C-3

Lab Sample ID: 180-48181-3

Client ID: HD-MW-93S-0/1-0

Operator ID: 001562

ALS Bottle#: 12

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

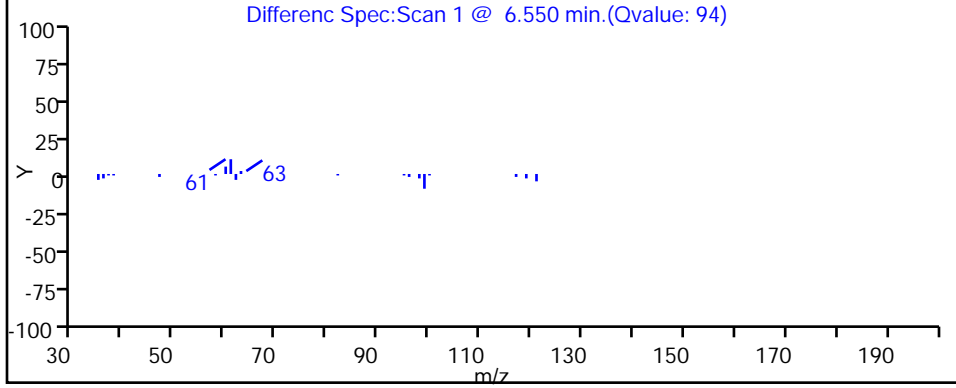
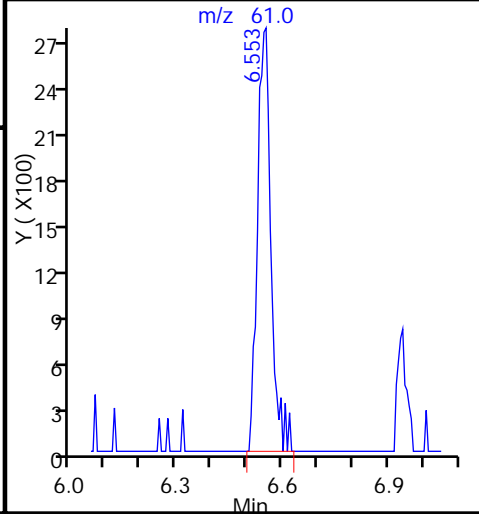
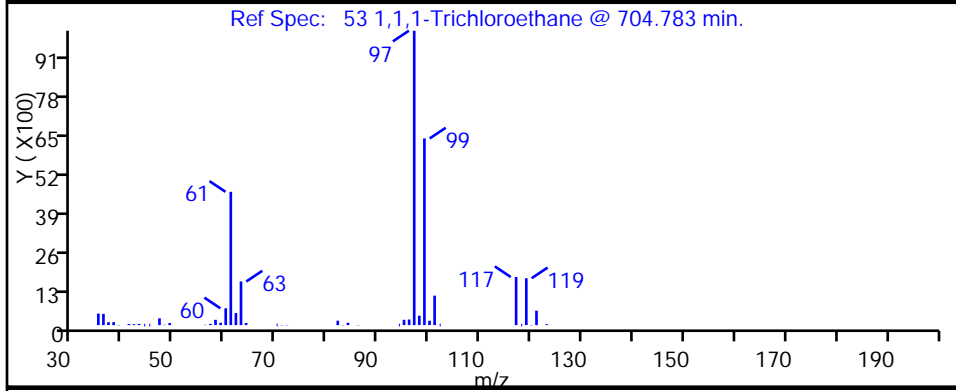
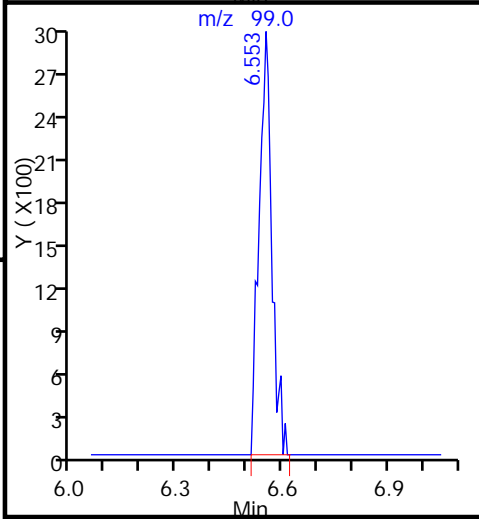
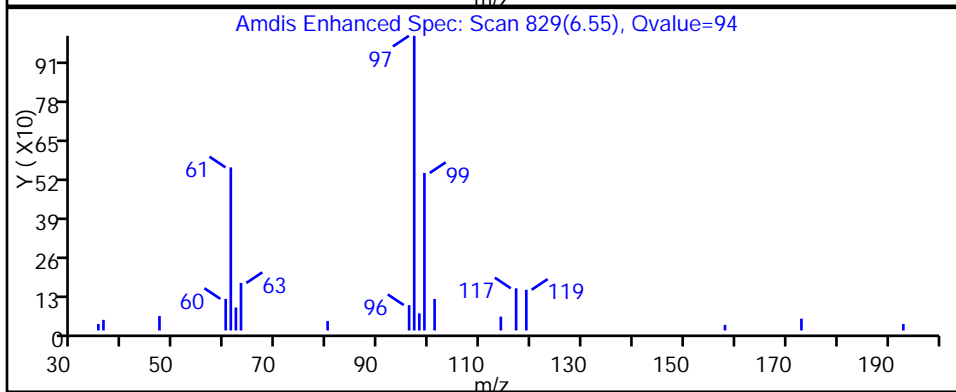
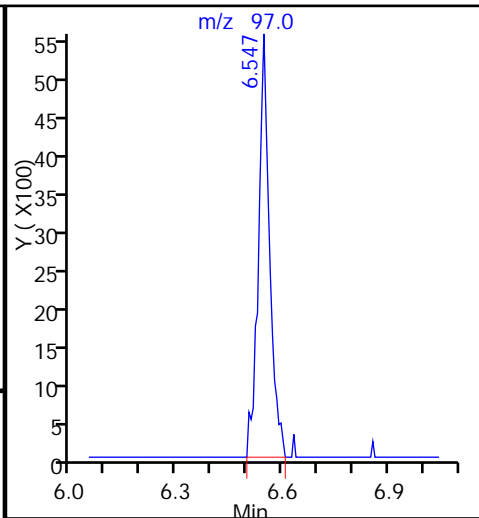
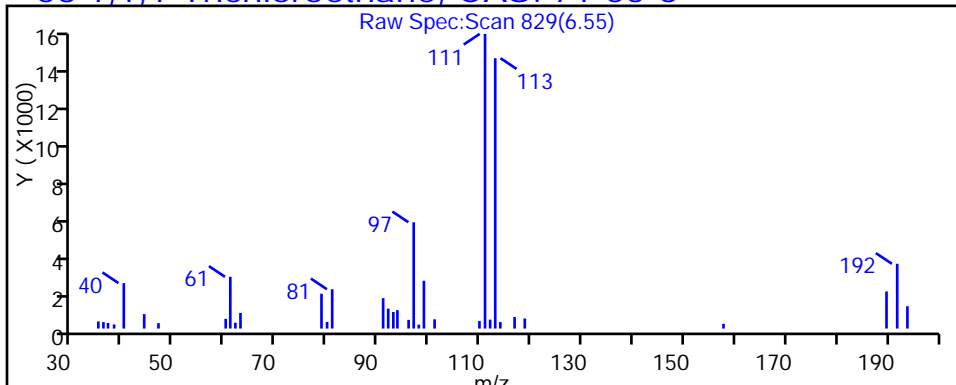
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

53 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006014.D

Injection Date: 06-Oct-2015 17:32:30

Instrument ID: CHHP5

Lims ID: 180-48181-C-3

Lab Sample ID: 180-48181-3

Client ID: HD-MW-93S-0/1-0

Operator ID: 001562

ALS Bottle#: 12

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

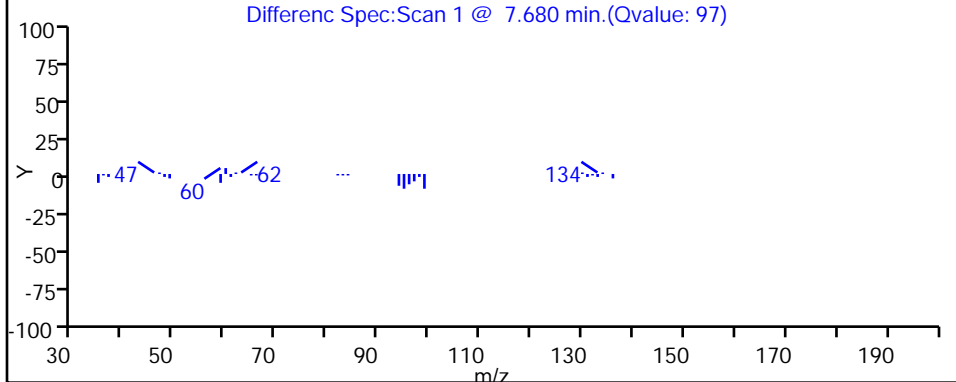
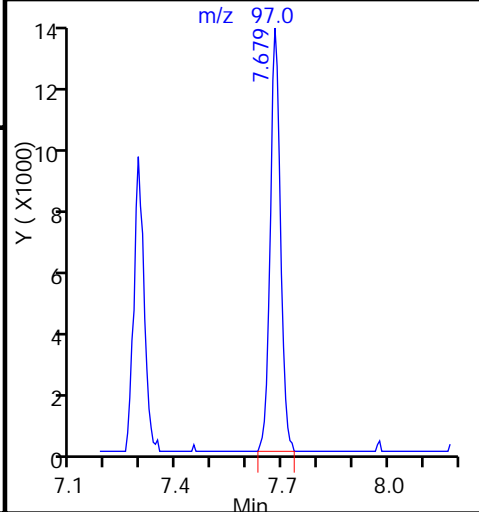
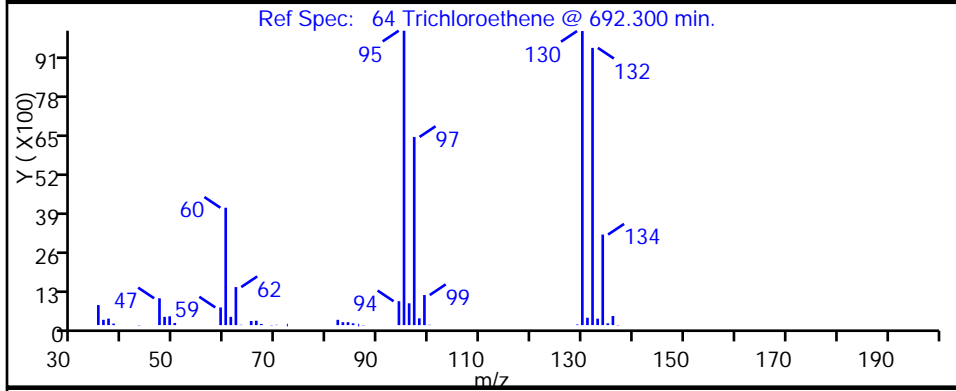
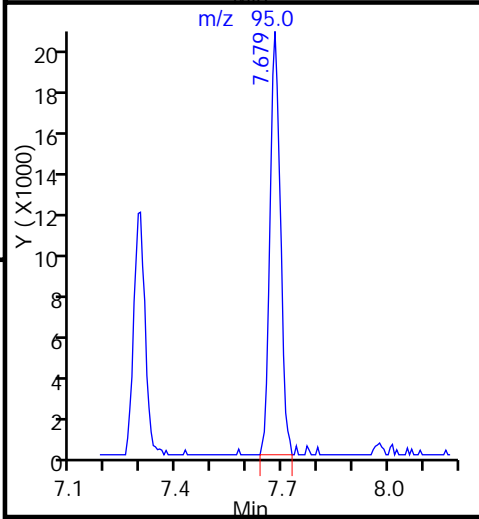
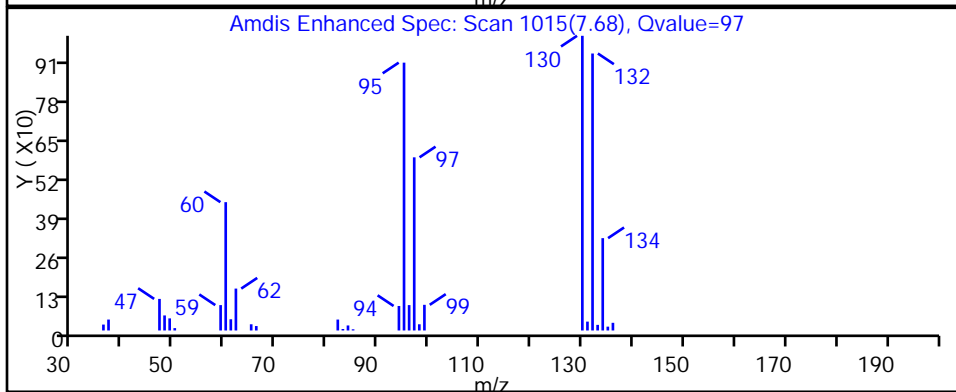
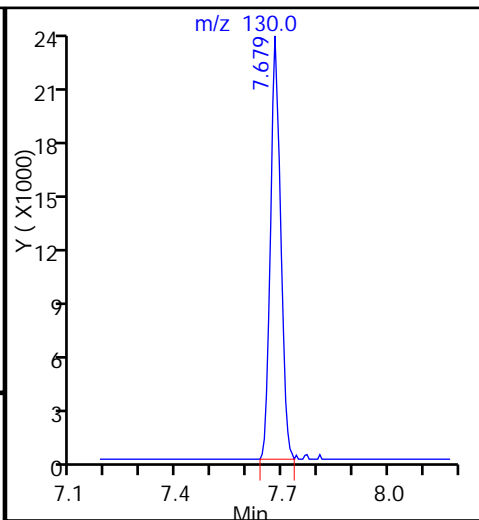
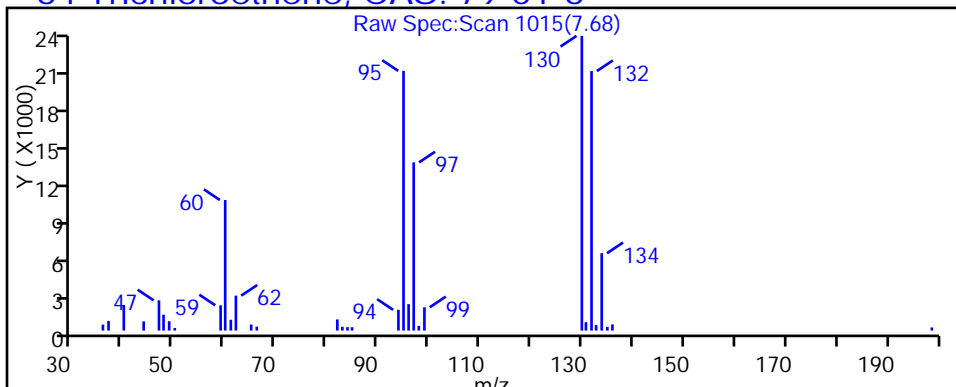
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

64 Trichloroethene, CAS: 79-01-6



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006014.D

Injection Date: 06-Oct-2015 17:32:30

Instrument ID: CHHP5

Lims ID: 180-48181-C-3

Lab Sample ID: 180-48181-3

Client ID: HD-MW-93S-0/1-0

Operator ID: 001562

ALS Bottle#: 12

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

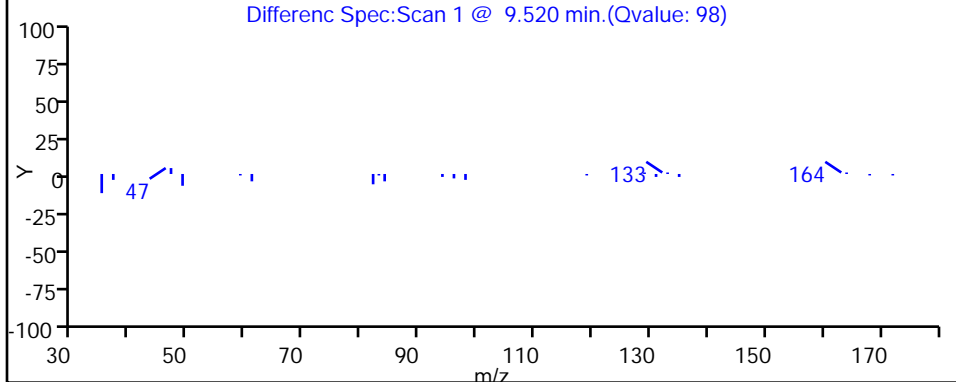
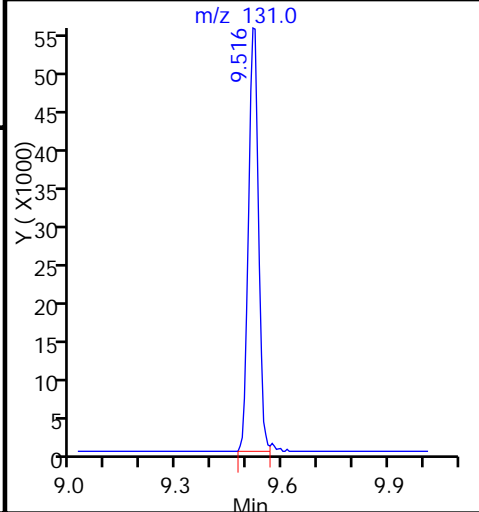
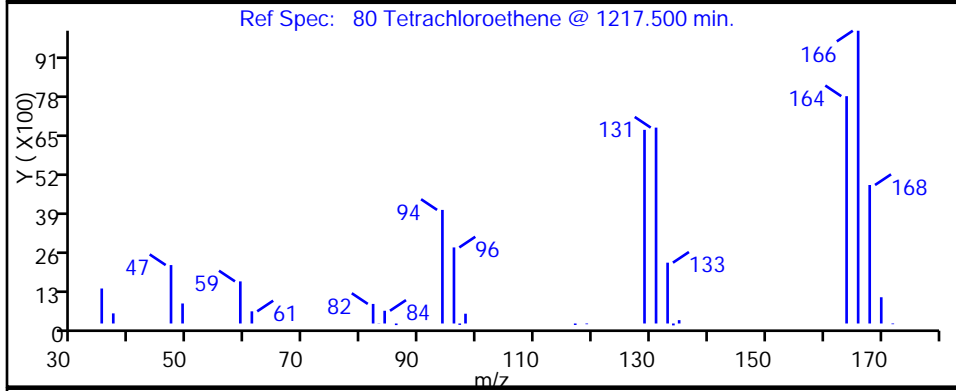
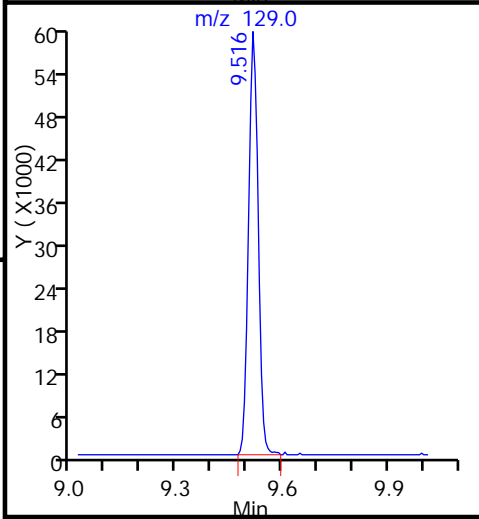
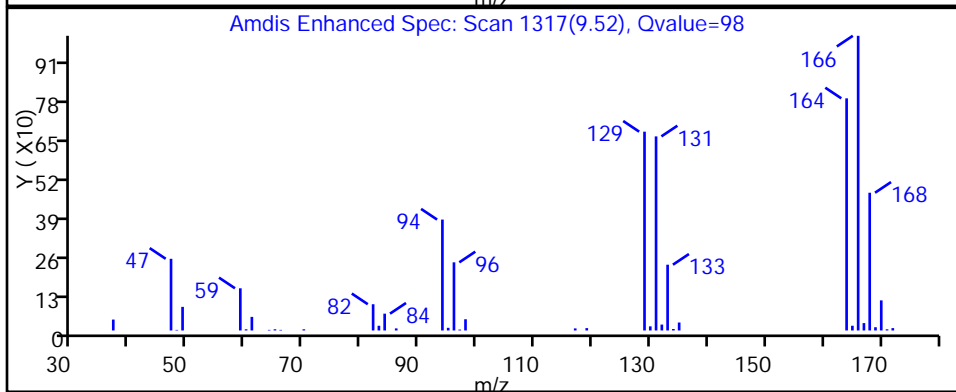
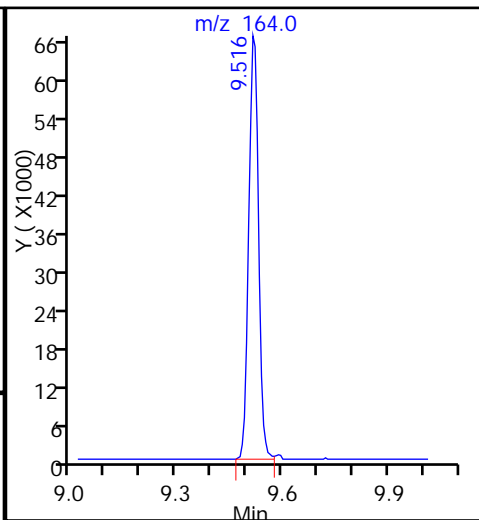
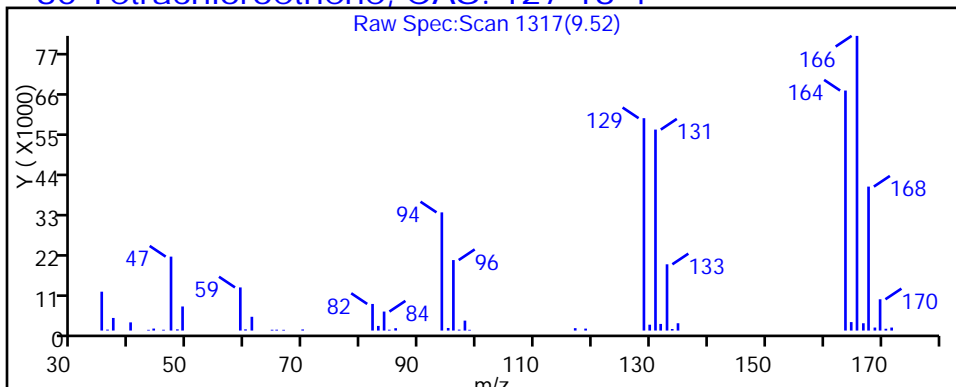
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

80 Tetrachloroethene, CAS: 127-18-4



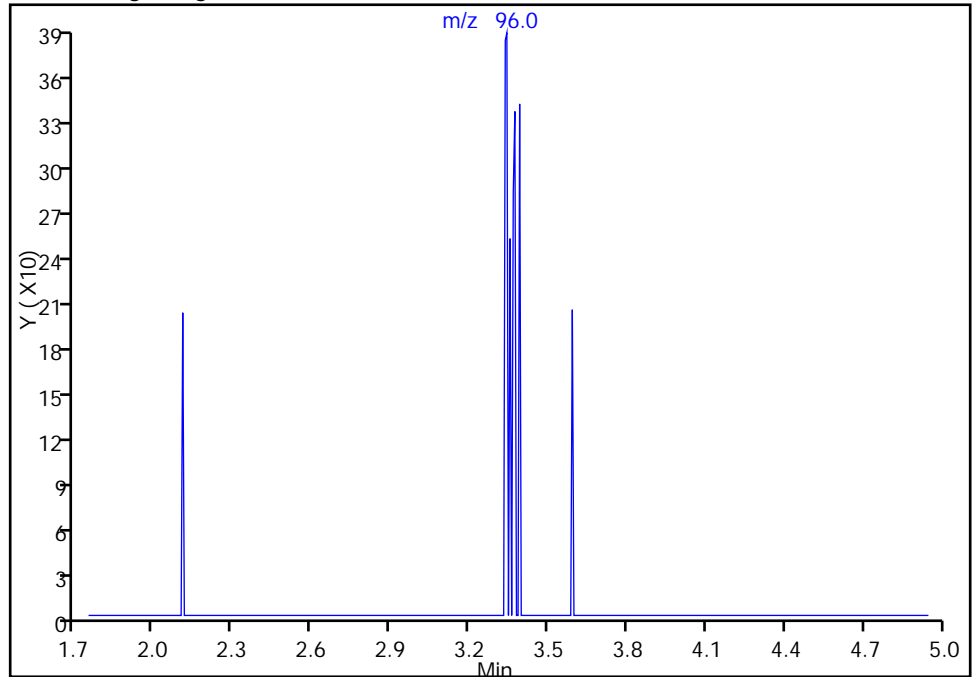
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006014.D
Injection Date: 06-Oct-2015 17:32:30 Instrument ID: CHHP5
Lims ID: 180-48181-C-3 Lab Sample ID: 180-48181-3
Client ID: HD-MW-93S-0/1-0
Operator ID: 001562 ALS Bottle#: 12 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

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

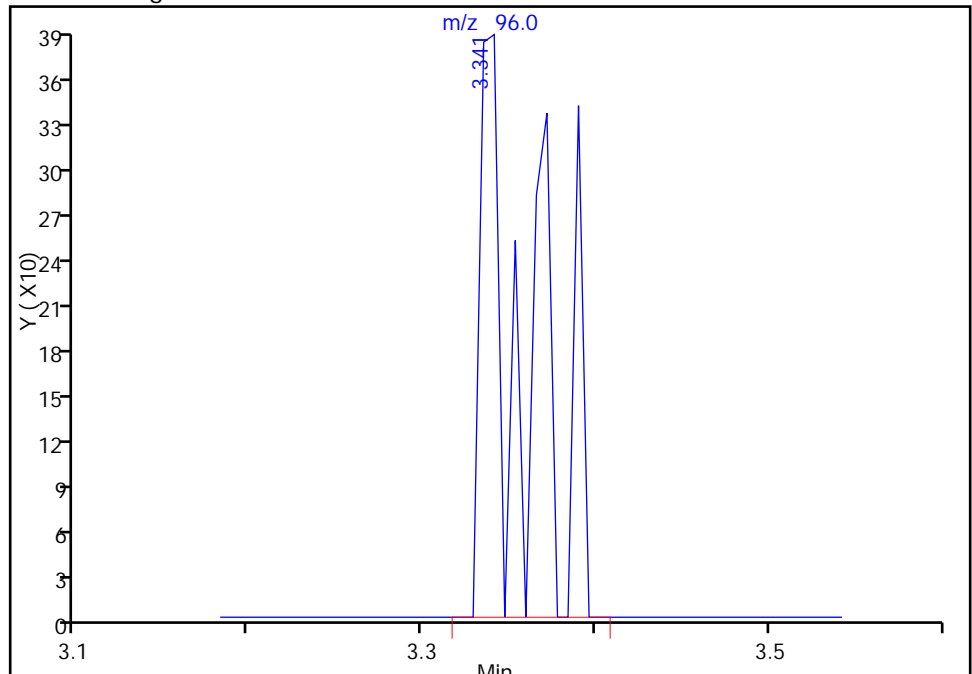
Not Detected
Expected RT: 3.35

Processing Integration Results



Manual Integration Results

RT: 3.34
Area: 717
Amount: 0.441285
Amount Units: ng



Reviewer: fergusond, 07-Oct-2015 07:52:21
Audit Action: Manually Integrated
Audit Reason: Missed Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-MW-93D-0/1-0 Lab Sample ID: 180-48181-4
 Matrix: Water Lab File ID: 51006023.D
 Analysis Method: 8260C Date Collected: 09/25/2015 13:10
 Sample wt/vol: 5 (mL) Date Analyzed: 10/06/2015 21:09
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 156037 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		1.0	0.28
75-01-4	Vinyl chloride	0.54	J	1.0	0.23
74-83-9	Bromomethane	ND		1.0	0.31
75-00-3	Chloroethane	ND	^c	1.0	0.21
75-35-4	1,1-Dichloroethene	4.3		1.0	0.30
67-64-1	Acetone	ND		5.0	2.5
75-15-0	Carbon disulfide	ND		1.0	0.21
75-09-2	Methylene Chloride	ND		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	0.26	J	1.0	0.17
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.18
75-34-3	1,1-Dichloroethane	2.9		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	44		1.0	0.24
74-97-5	Bromochloromethane	ND		1.0	0.18
78-93-3	2-Butanone (MEK)	ND		5.0	0.55
67-66-3	Chloroform	ND		1.0	0.17
71-55-6	1,1,1-Trichloroethane	8.2		1.0	0.29
56-23-5	Carbon tetrachloride	ND		1.0	0.14
71-43-2	Benzene	ND		1.0	0.11
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
79-01-6	Trichloroethene	140	E	1.0	0.14
78-87-5	1,2-Dichloropropane	ND		1.0	0.095
75-27-4	Bromodichloromethane	ND		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.53
108-88-3	Toluene	ND		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.20
127-18-4	Tetrachloroethene	180	E	1.0	0.15
591-78-6	2-Hexanone	ND		5.0	0.16
124-48-1	Dibromochloromethane	ND		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.28
100-41-4	Ethylbenzene	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		3.0	0.49
100-42-5	Styrene	ND		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-MW-93D-0/1-0 Lab Sample ID: 180-48181-4
 Matrix: Water Lab File ID: 51006023.D
 Analysis Method: 8260C Date Collected: 09/25/2015 13:10
 Sample wt/vol: 5 (mL) Date Analyzed: 10/06/2015 21:09
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 156037 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		64-135
2037-26-5	Toluene-d8 (Surr)	89		71-118
460-00-4	4-Bromofluorobenzene (Surr)	85		70-118
1868-53-7	Dibromofluoromethane (Surr)	108		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006023.D
 Lims ID: 180-48181-C-4 Lab Sample ID: 180-48181-4
 Client ID: HD-MW-93D-0/1-0
 Sample Type: Client
 Inject. Date: 06-Oct-2015 21:09:30 ALS Bottle#: 21 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-48181-C-4
 Misc. Info.: 180-0008850-023
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 07-Oct-2015 08:10:02 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: fergusond

Date: 07-Oct-2015 08:10:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.265	4.279	-0.014	0	134499	1000.0	
* 2 Fluorobenzene (IS)	96	7.295	7.290	0.005	98	278811	50.0	
* 3 Chlorobenzene-d5	119	10.391	10.387	0.004	87	76162	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.734	12.729	0.005	95	110395	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.565	6.560	0.005	94	73770	53.9	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.942	6.937	0.005	0	89175	47.4	
\$ 7 Toluene-d8 (Surr)	98	8.937	8.939	-0.002	94	262646	44.7	
\$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.573	-0.001	92	94446	42.6	
12 Chloromethane	50		1.779				ND	
13 Vinyl chloride	62	1.911	1.912	-0.001	96	5532	2.70	
15 Bromomethane	94		2.247				ND	
16 Chloroethane	64		2.399				ND	
22 1,1-Dichloroethene	96	3.359	3.348	0.011	95	33703	21.7	
24 Acetone	43		3.451				ND	
26 Carbon disulfide	76		3.652				ND	
31 Methylene Chloride	84		4.133				ND	
33 Acrylonitrile	53		4.528				ND	
34 trans-1,2-Dichloroethene	96	4.563	4.565	-0.002	28	2163	1.28	
35 Methyl tert-butyl ether	73		4.583				ND	
37 1,1-Dichloroethane	63	5.202	5.204	-0.002	97	47426	14.3	
45 cis-1,2-Dichloroethene	96	5.957	5.958	-0.001	81	396888	220.3	
46 2-Butanone (MEK)	43		5.964				ND	
49 Chlorobromomethane	128		6.238				ND	
52 Chloroform	83	6.389	6.384	0.004	20	2126	0.7409	M
53 1,1,1-Trichloroethane	97	6.541	6.542	-0.001	96	87469	41.2	
56 Carbon tetrachloride	117		6.718				ND	
58 Benzene	78		6.943				ND	
59 1,2-Dichloroethane	62		7.022				ND	
64 Trichloroethene	130	7.678	7.679	-0.001	96	1208244	718.4	E
67 1,2-Dichloropropane	63		7.947				ND	
70 1,4-Dioxane	88		8.032				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.233				ND	
74 cis-1,3-Dichloropropene	75		8.677				ND	
75 4-Methyl-2-pentanone (MIBK)	43		8.829				ND	
76 Toluene	91		9.006				ND	
77 trans-1,3-Dichloropropene	75		9.255				ND	
79 1,1,2-Trichloroethane	97		9.450				ND	
80 Tetrachloroethene	164	9.522	9.517	0.005	96	1296929	886.1	E
82 2-Hexanone	43		9.663				ND	
84 Chlorodibromomethane	129		9.815				ND	
85 Ethylene Dibromide	107		9.930				ND	
87 Chlorobenzene	112		10.417				ND	
89 1,1,1,2-Tetrachloroethane	131		10.514				ND	
90 Ethylbenzene	106		10.514				ND	
91 m-Xylene & p-Xylene	106		10.648				ND	
92 o-Xylene	106		11.031				ND	
93 Styrene	104		11.050				ND	
94 Bromoform	173		11.232				ND	
99 1,1,2,2-Tetrachloroethane	83		11.707				ND	
S 133 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00042

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00042

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006023.D

Injection Date: 06-Oct-2015 21:09:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: 180-48181-C-4

Lab Sample ID: 180-48181-4

Worklist Smp#: 23

Client ID: HD-MW-93D-0/1-0

Purge Vol: 5.000 mL

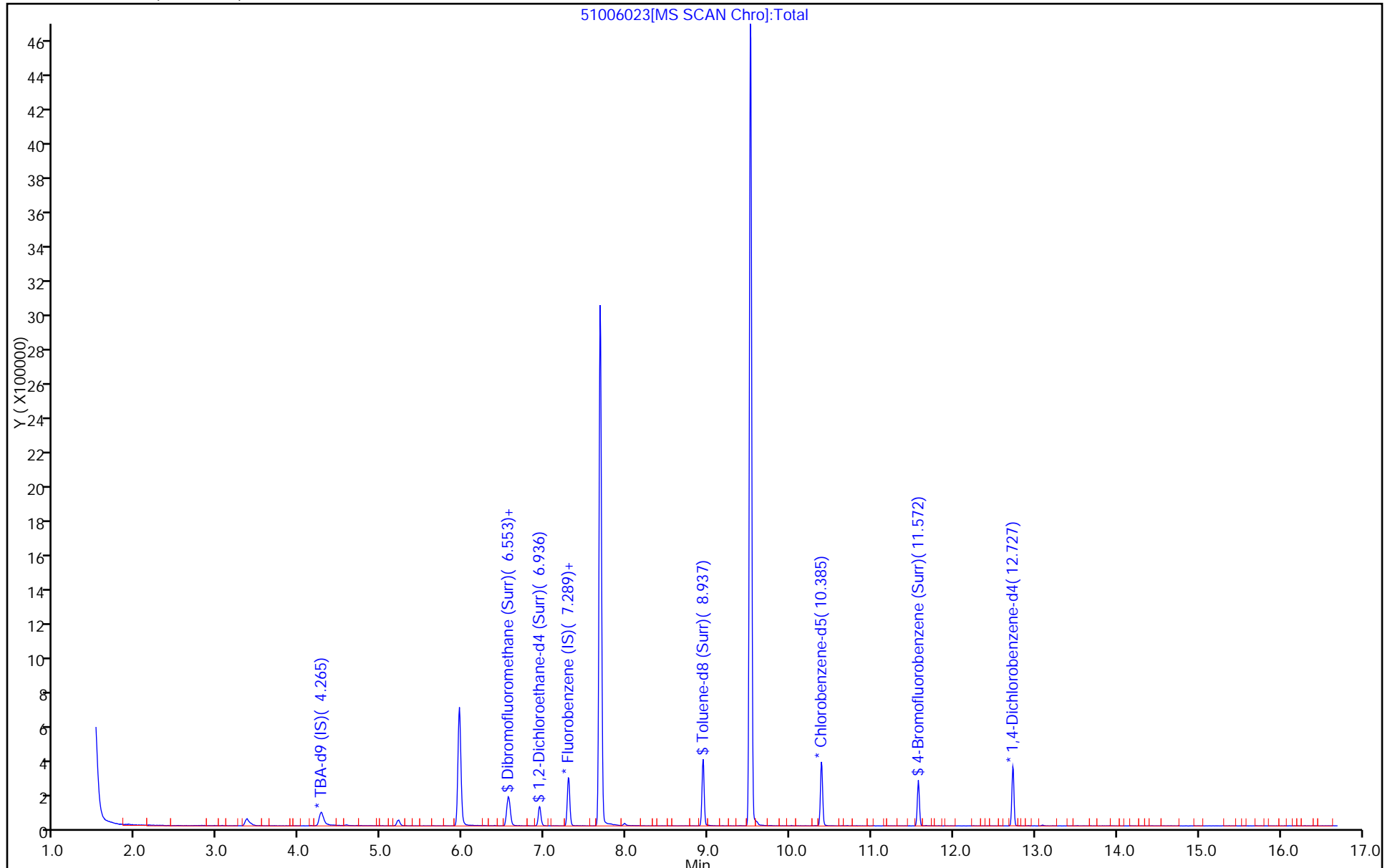
Dil. Factor: 1.0000

ALS Bottle#: 21

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006023.D

Injection Date: 06-Oct-2015 21:09:30

Instrument ID: CHHP5

Lims ID: 180-48181-C-4

Lab Sample ID: 180-48181-4

Client ID: HD-MW-93D-0/1-0

Operator ID: 001562

ALS Bottle#: 21

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

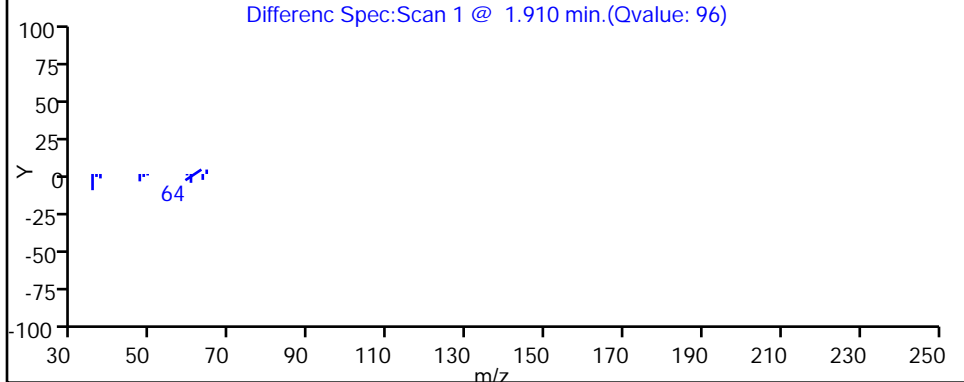
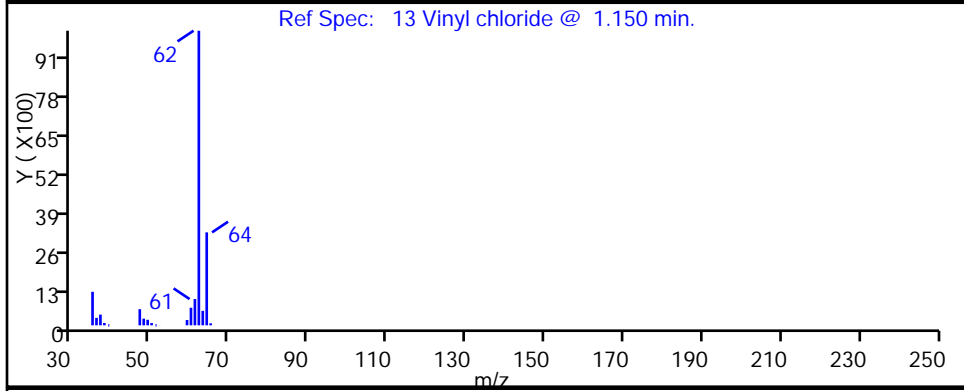
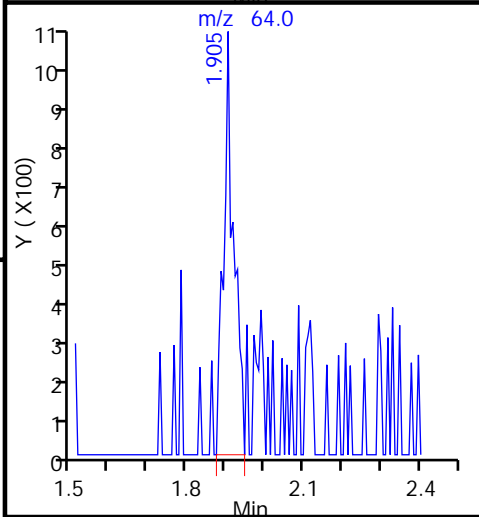
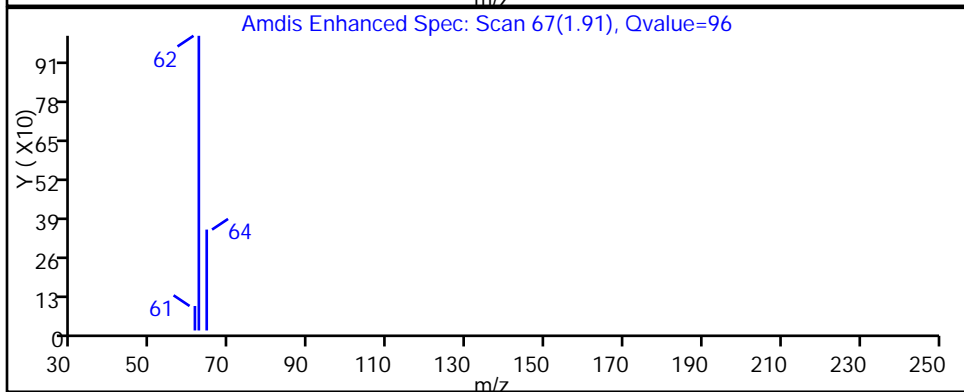
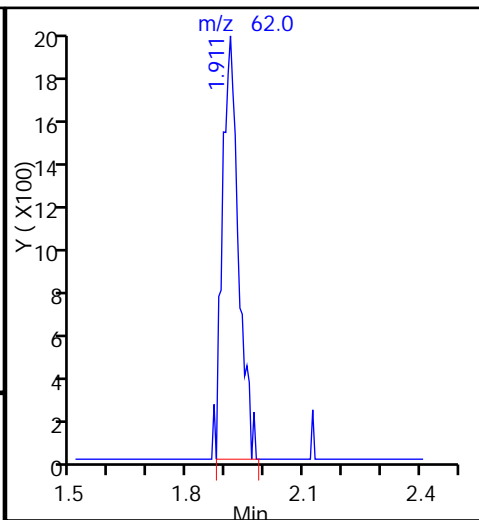
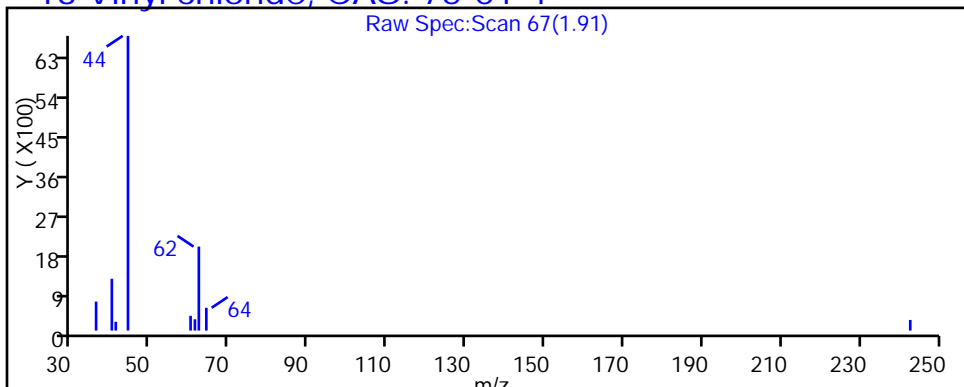
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006023.D

Injection Date: 06-Oct-2015 21:09:30

Instrument ID: CHHP5

Lims ID: 180-48181-C-4

Lab Sample ID: 180-48181-4

Client ID: HD-MW-93D-0/1-0

Operator ID: 001562

ALS Bottle#: 21

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

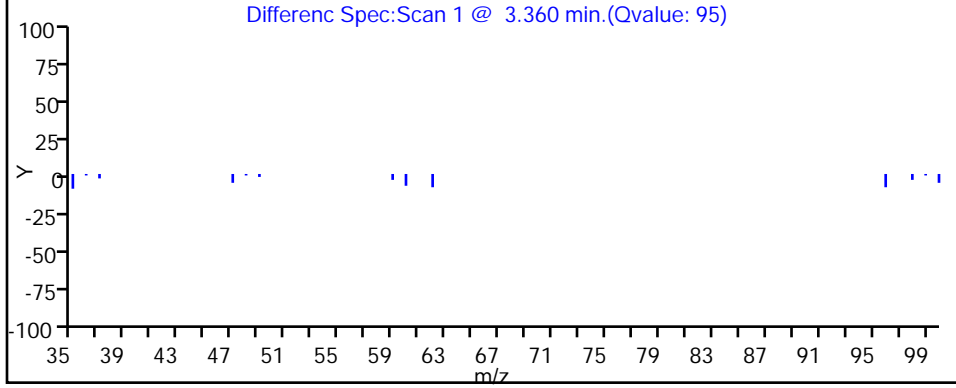
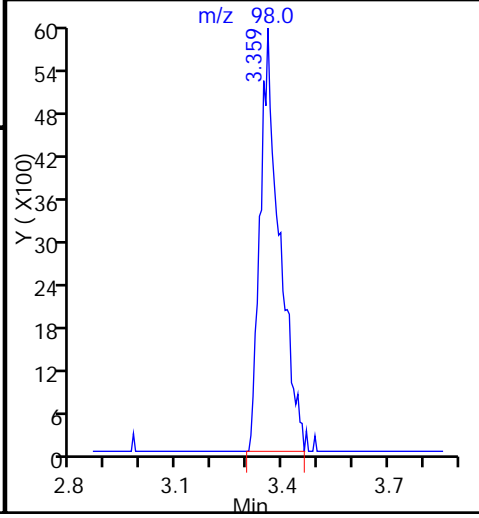
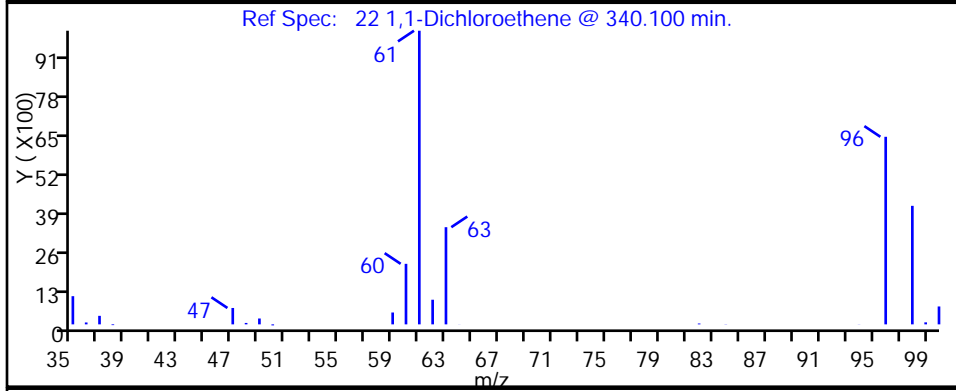
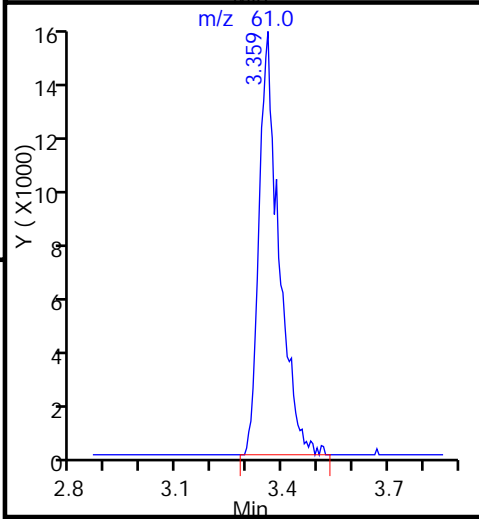
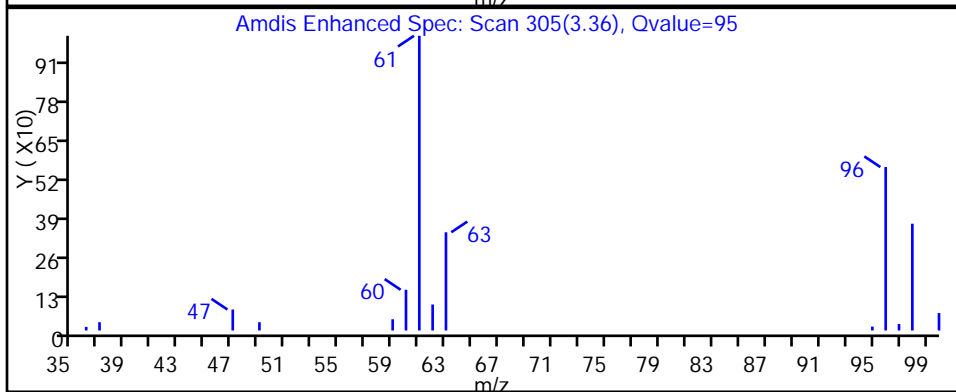
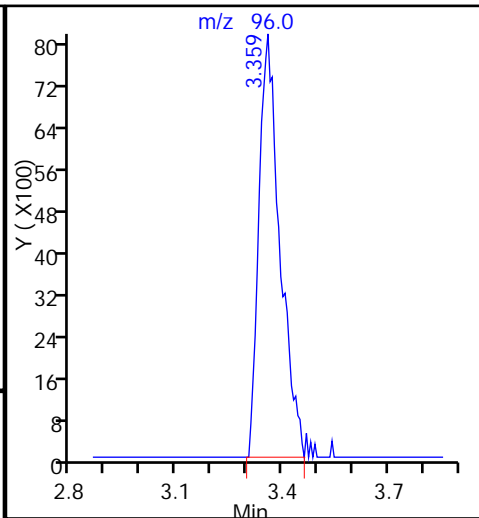
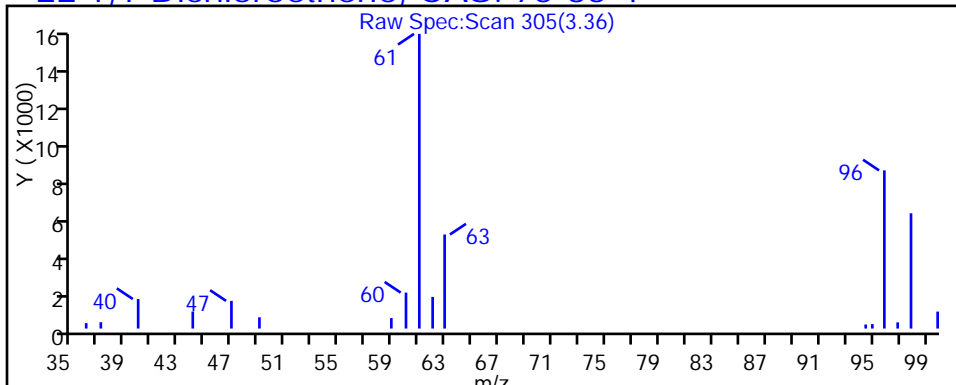
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006023.D

Injection Date: 06-Oct-2015 21:09:30

Instrument ID: CHHP5

Lims ID: 180-48181-C-4

Lab Sample ID: 180-48181-4

Client ID: HD-MW-93D-0/1-0

Operator ID: 001562

ALS Bottle#: 21

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

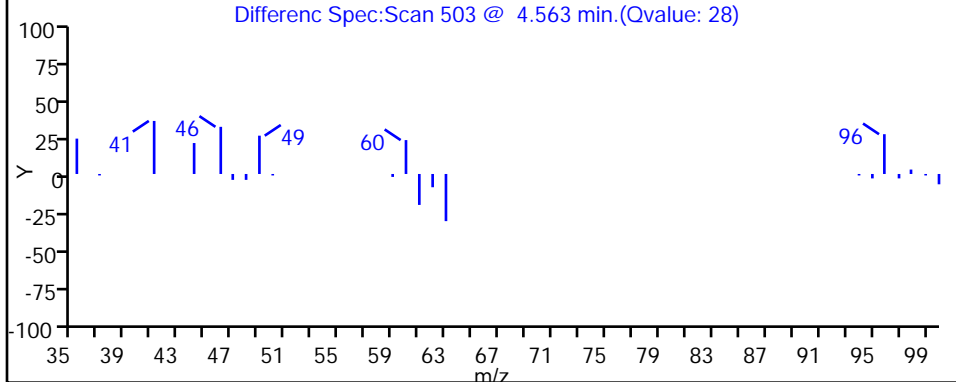
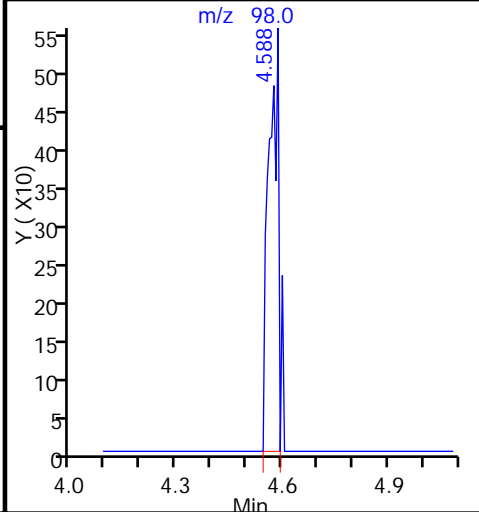
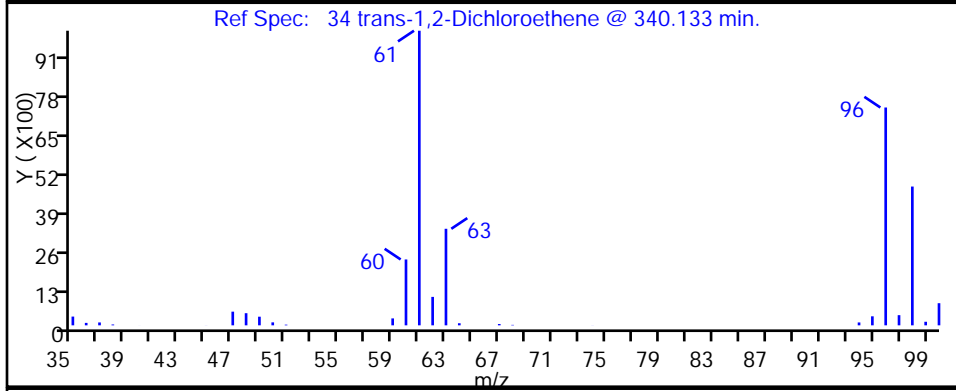
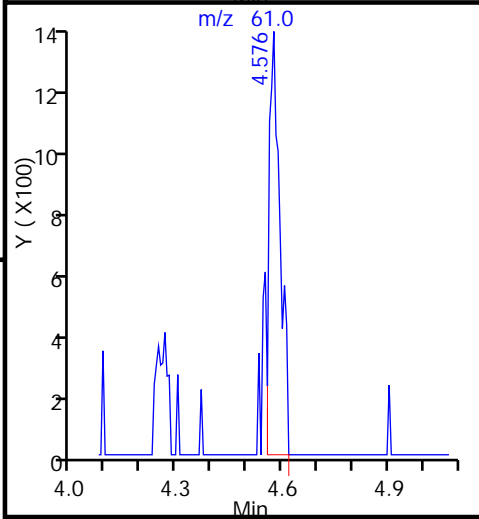
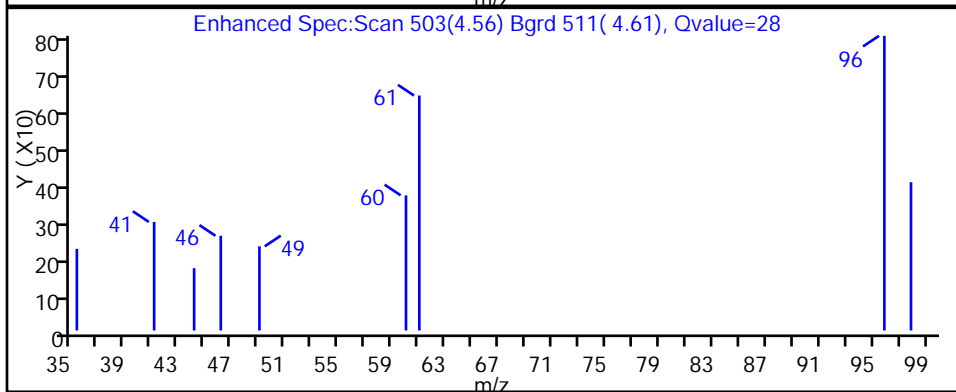
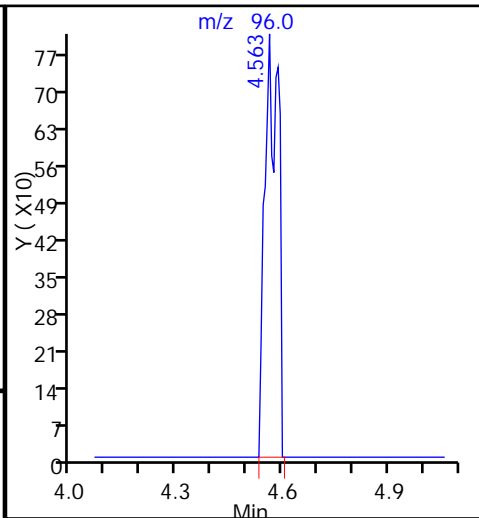
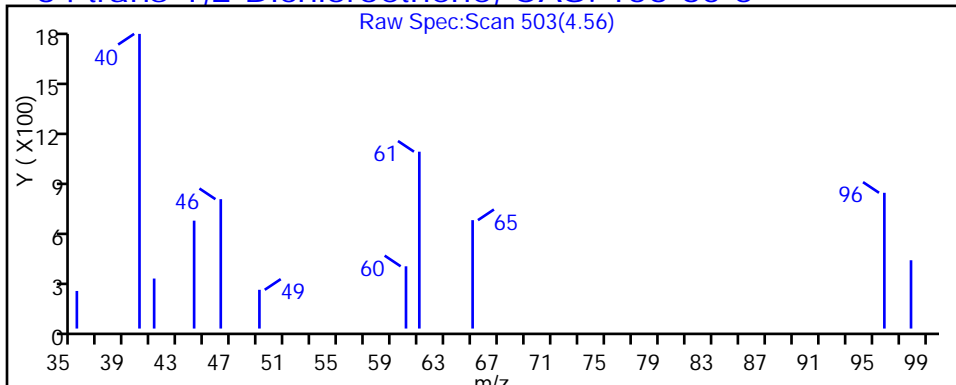
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006023.D

Injection Date: 06-Oct-2015 21:09:30

Instrument ID: CHHP5

Lims ID: 180-48181-C-4

Lab Sample ID: 180-48181-4

Client ID: HD-MW-93D-0/1-0

Operator ID: 001562

ALS Bottle#: 21

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

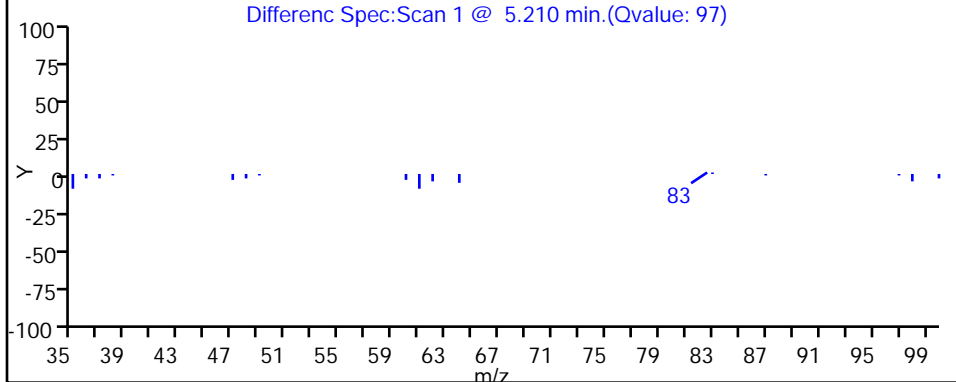
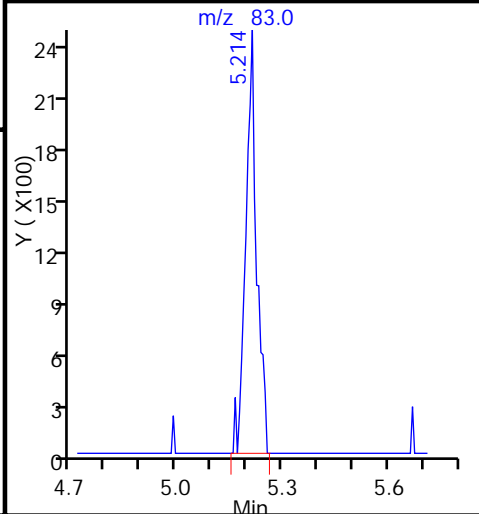
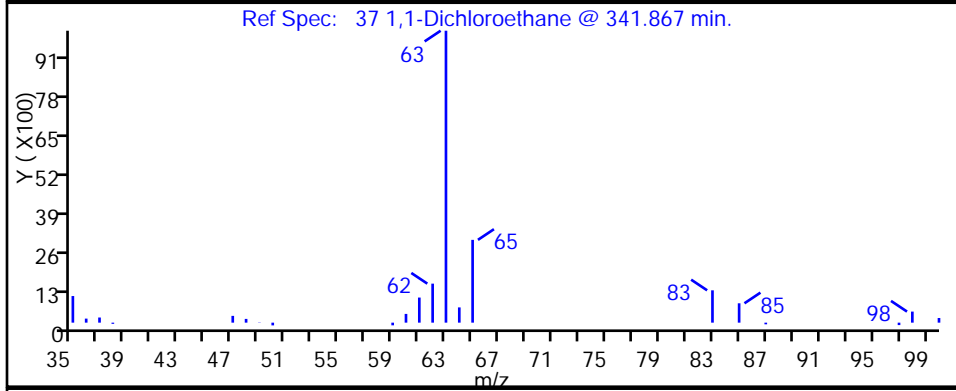
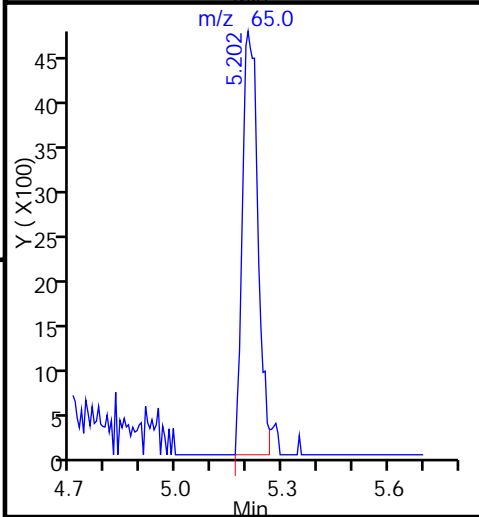
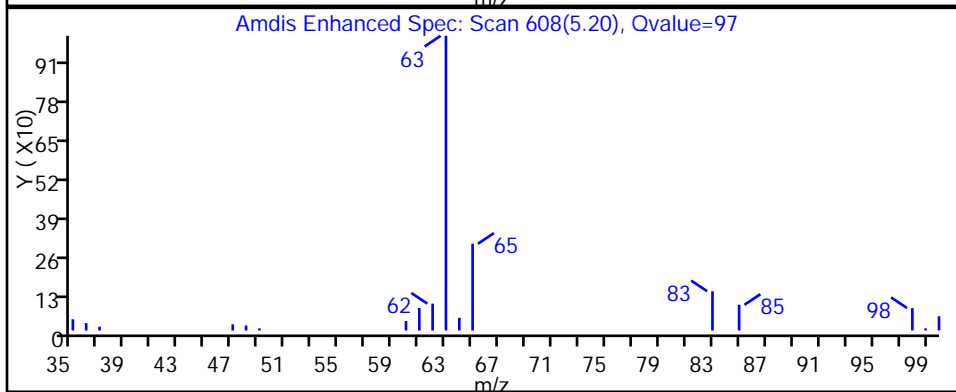
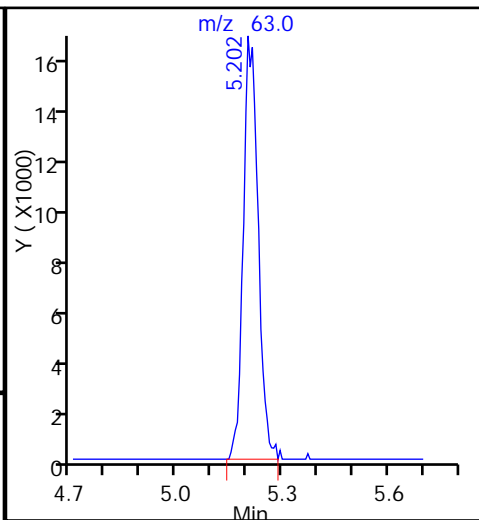
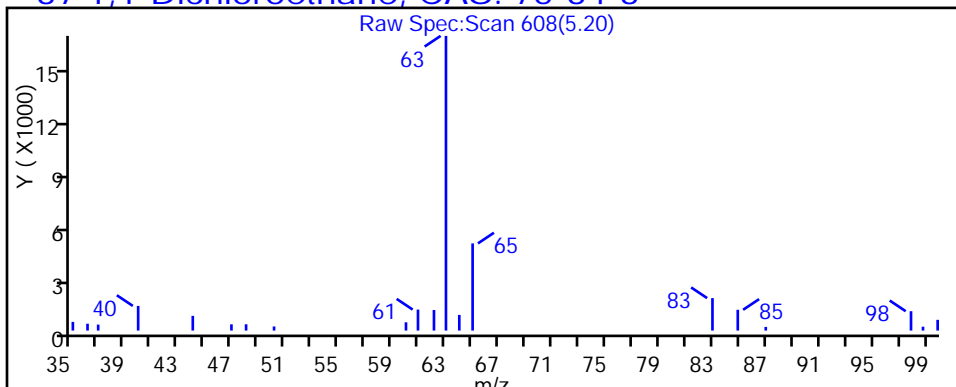
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006023.D

Injection Date: 06-Oct-2015 21:09:30

Instrument ID: CHHP5

Lims ID: 180-48181-C-4

Lab Sample ID: 180-48181-4

Client ID: HD-MW-93D-0/1-0

Operator ID: 001562

ALS Bottle#: 21

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

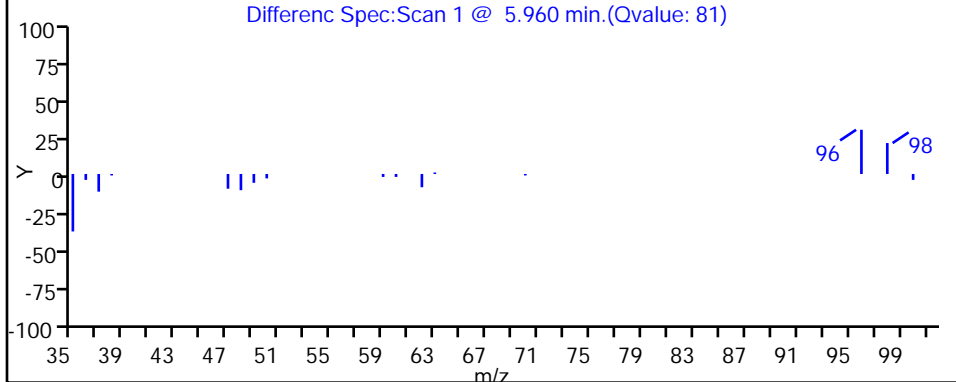
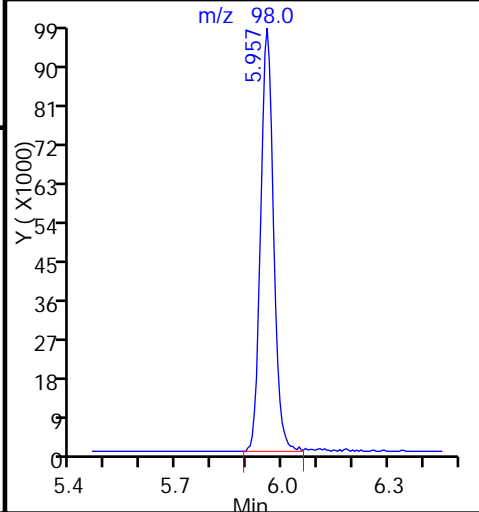
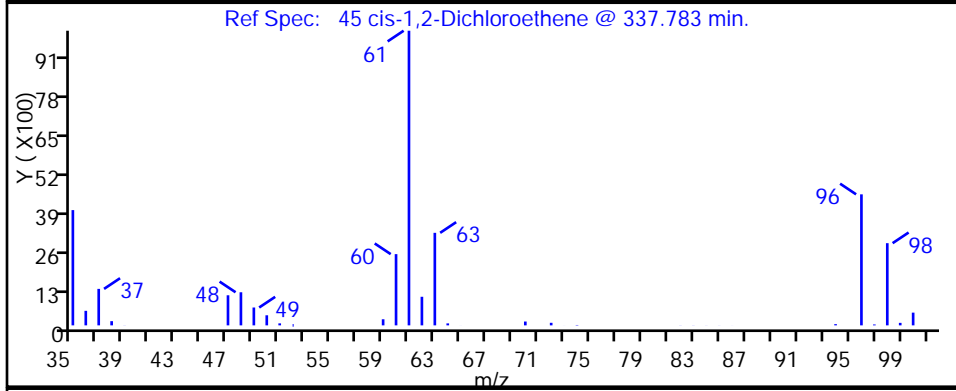
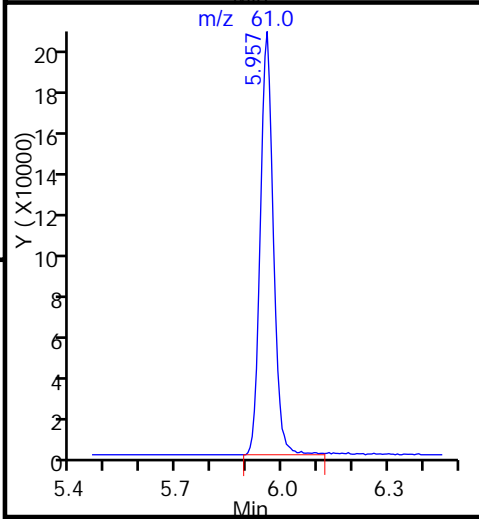
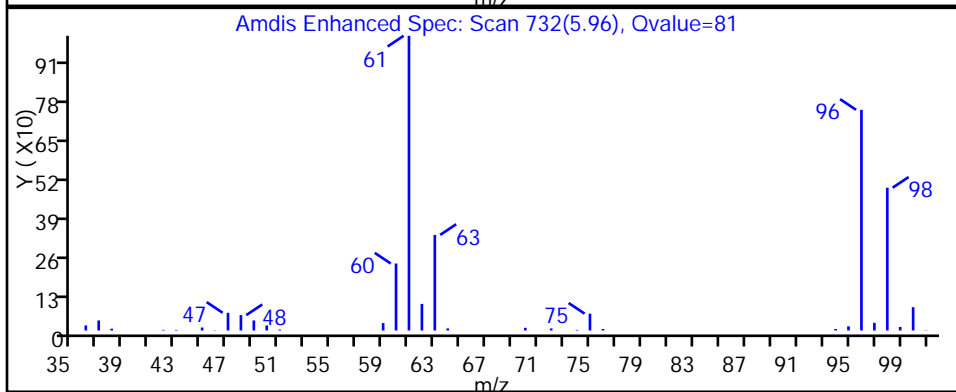
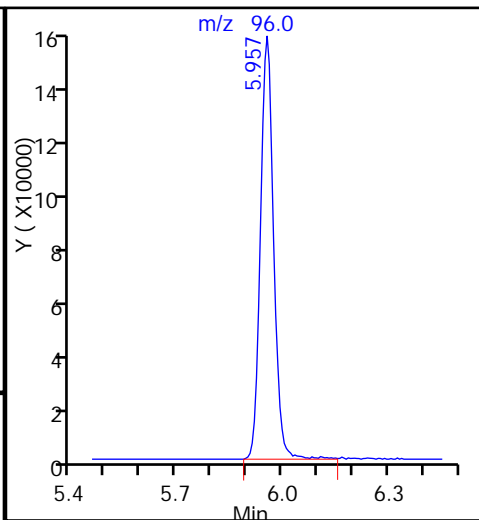
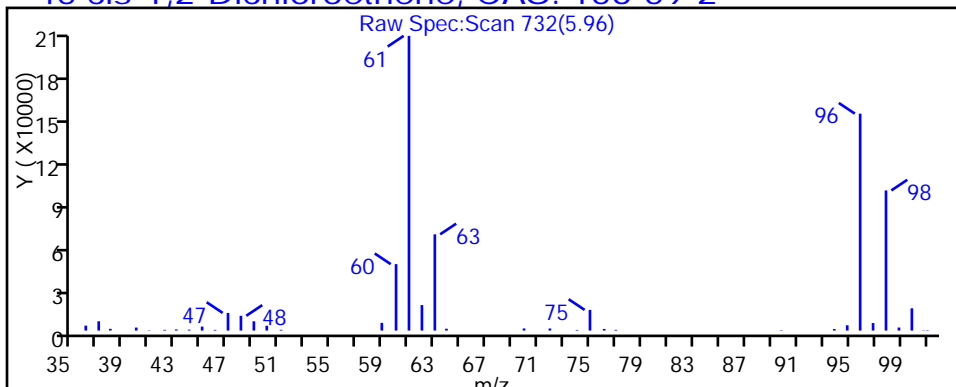
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006023.D

Injection Date: 06-Oct-2015 21:09:30

Instrument ID: CHHP5

Lims ID: 180-48181-C-4

Lab Sample ID: 180-48181-4

Client ID: HD-MW-93D-0/1-0

Operator ID: 001562

ALS Bottle#: 21

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

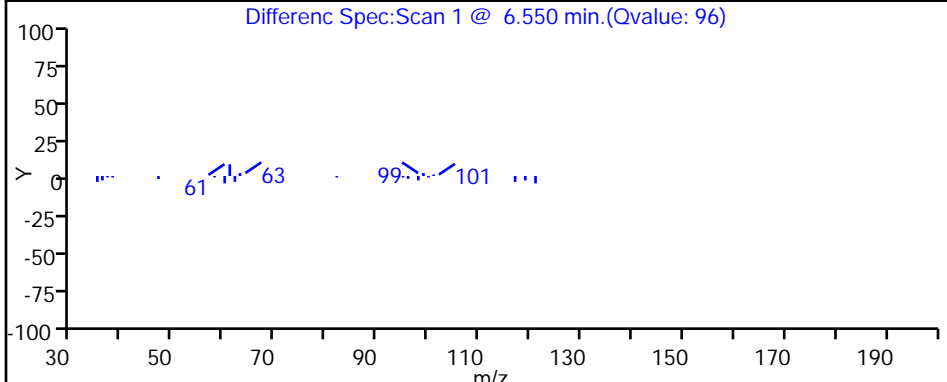
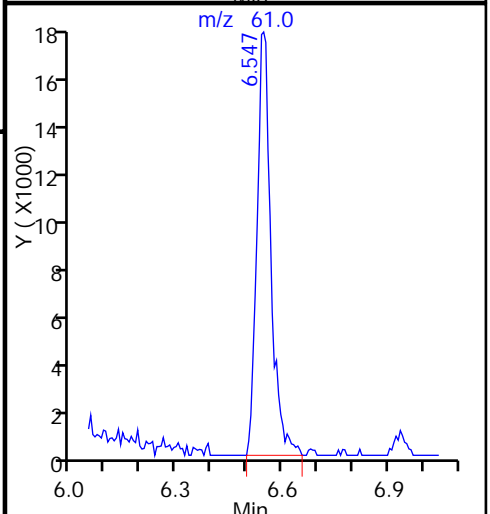
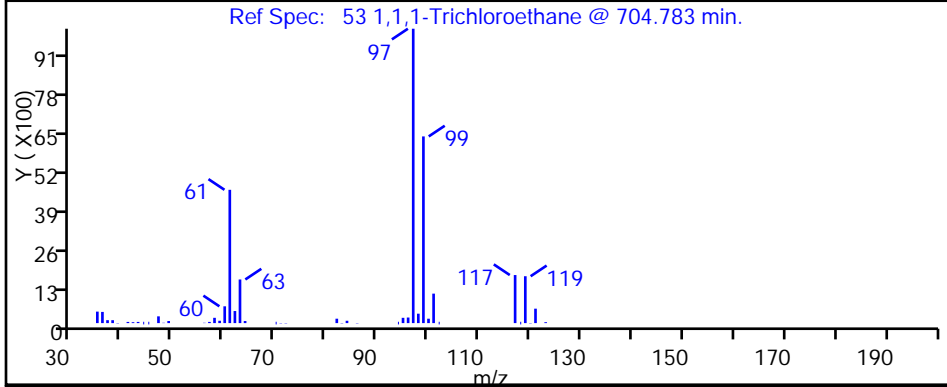
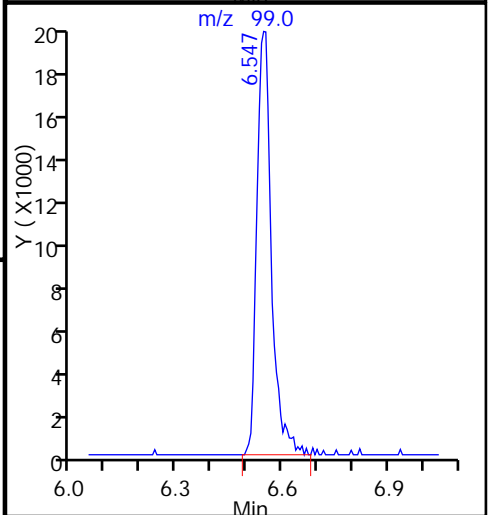
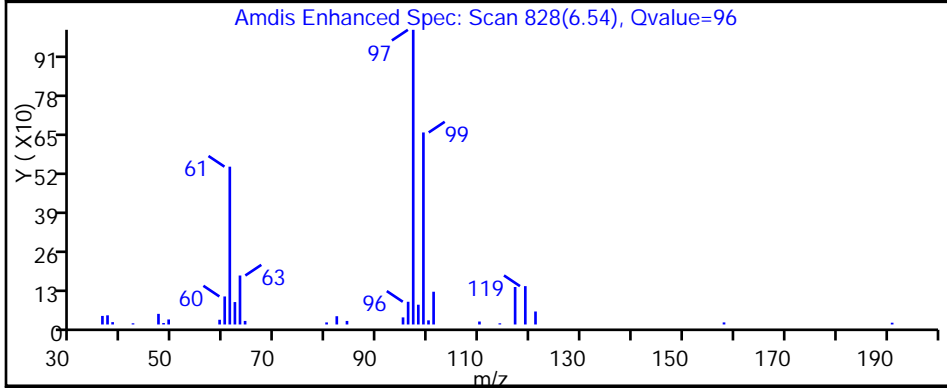
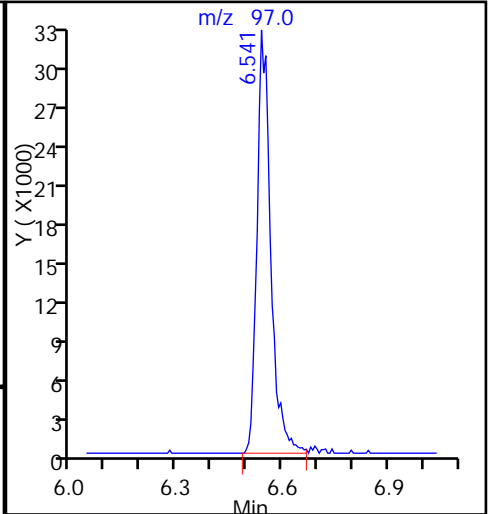
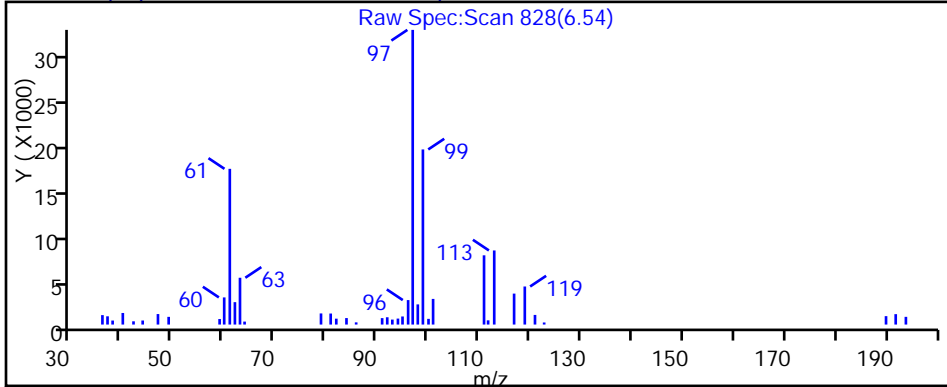
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

53 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006023.D

Injection Date: 06-Oct-2015 21:09:30

Instrument ID: CHHP5

Lims ID: 180-48181-C-4

Lab Sample ID: 180-48181-4

Client ID: HD-MW-93D-0/1-0

Operator ID: 001562

ALS Bottle#: 21

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

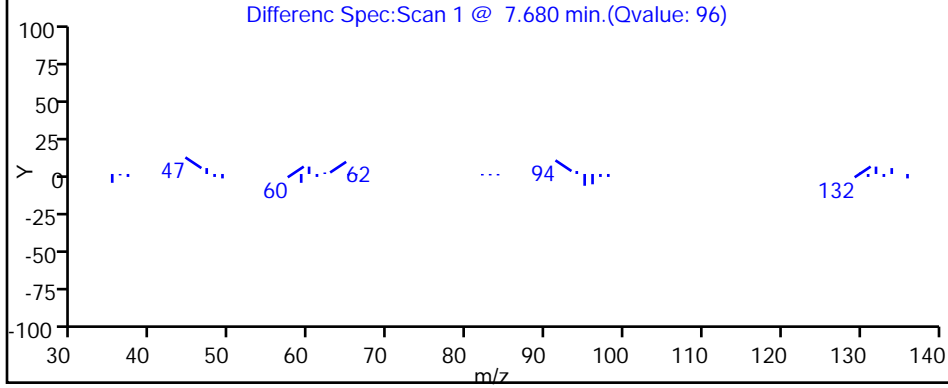
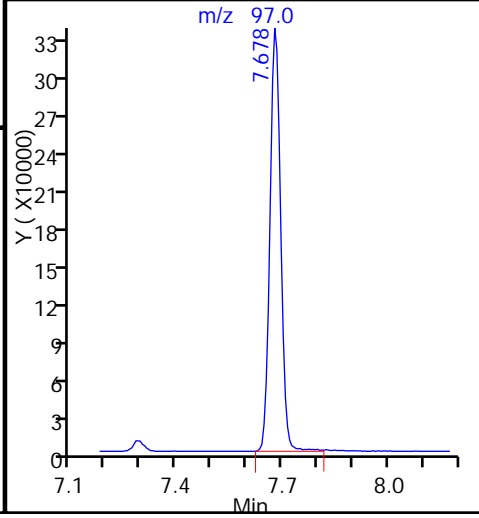
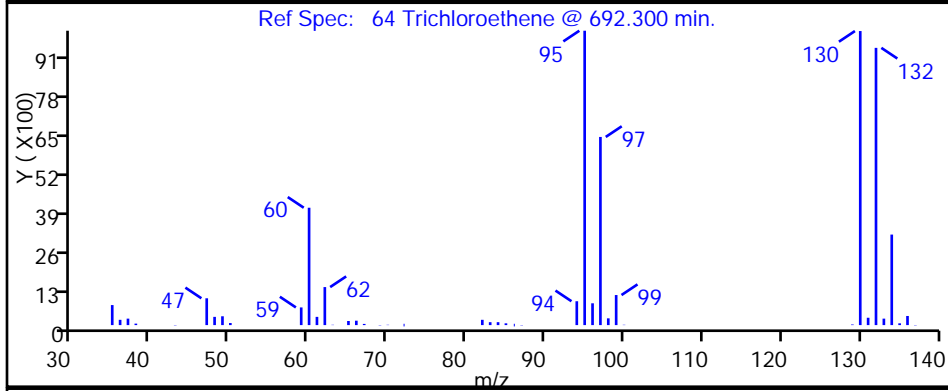
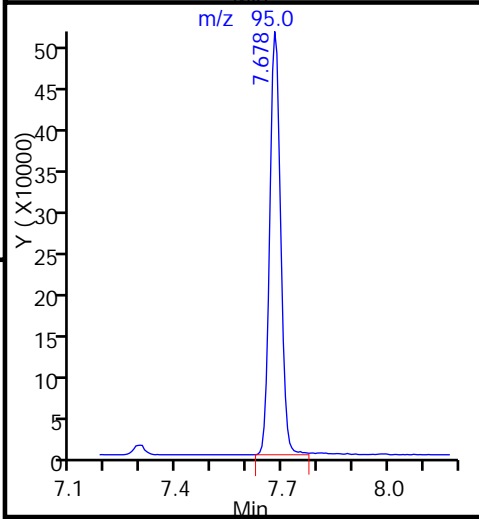
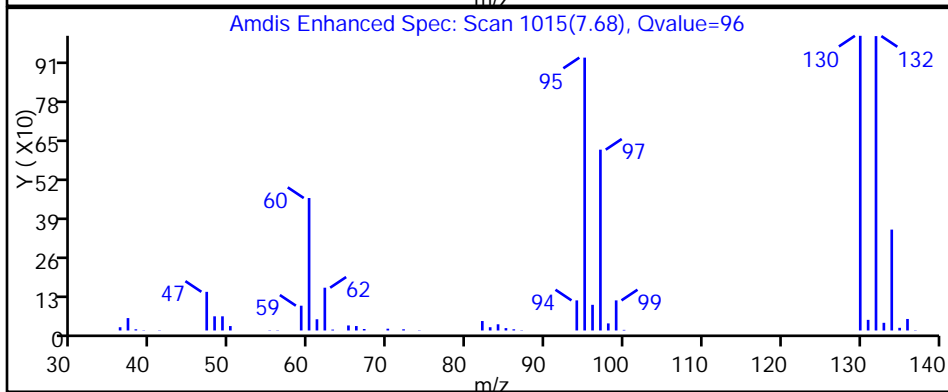
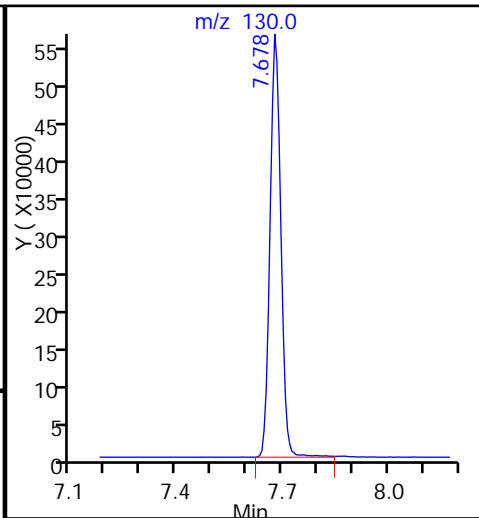
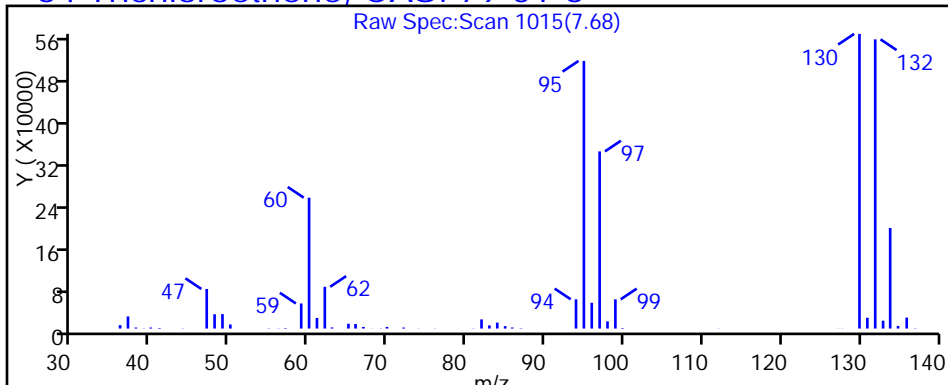
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

64 Trichloroethene, CAS: 79-01-6



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006023.D

Injection Date: 06-Oct-2015 21:09:30

Instrument ID: CHHP5

Lims ID: 180-48181-C-4

Lab Sample ID: 180-48181-4

Client ID: HD-MW-93D-0/1-0

Operator ID: 001562

ALS Bottle#: 21

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

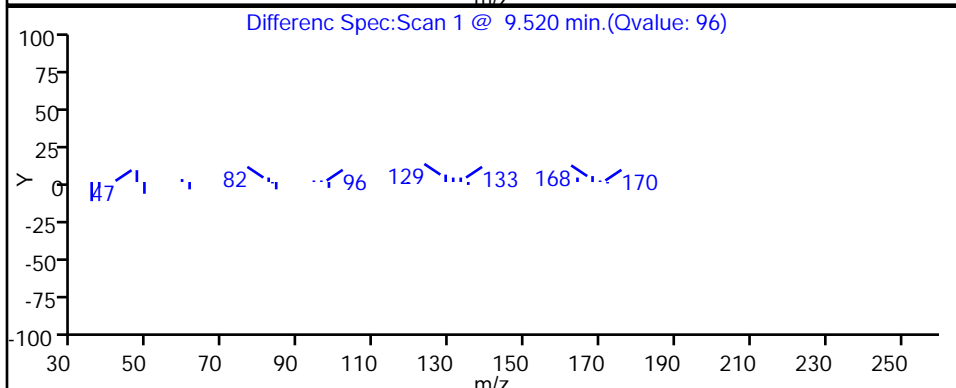
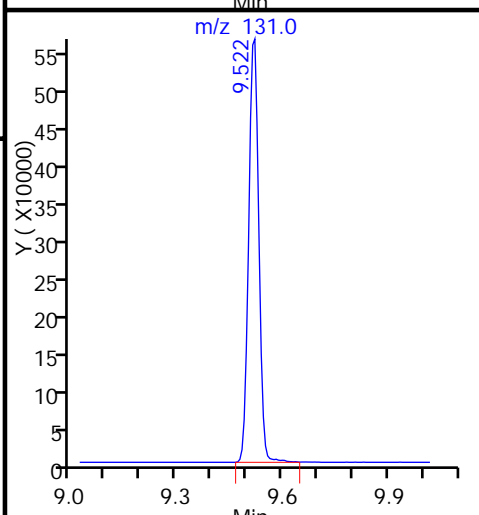
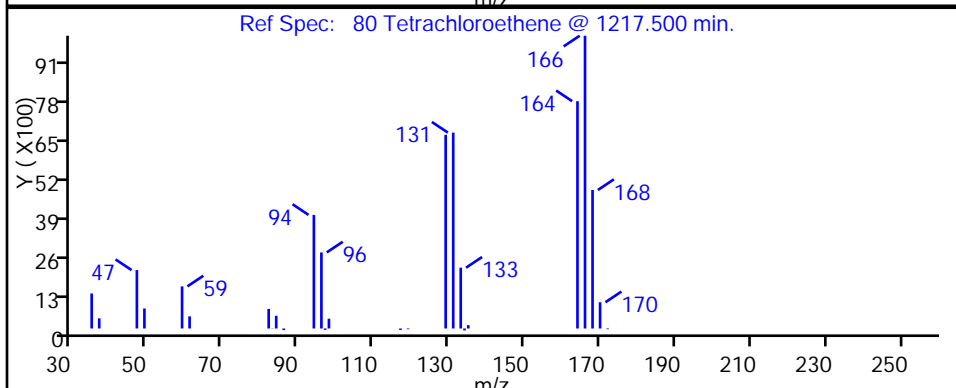
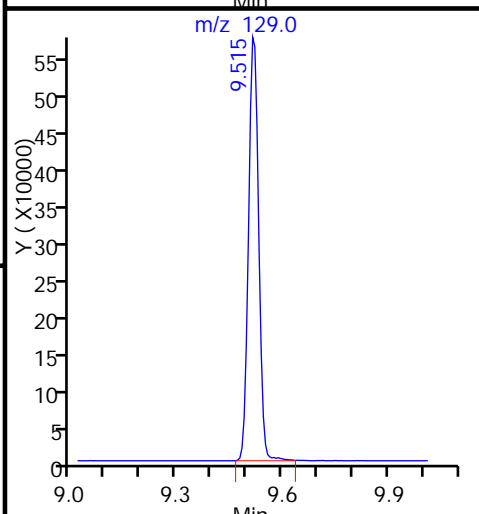
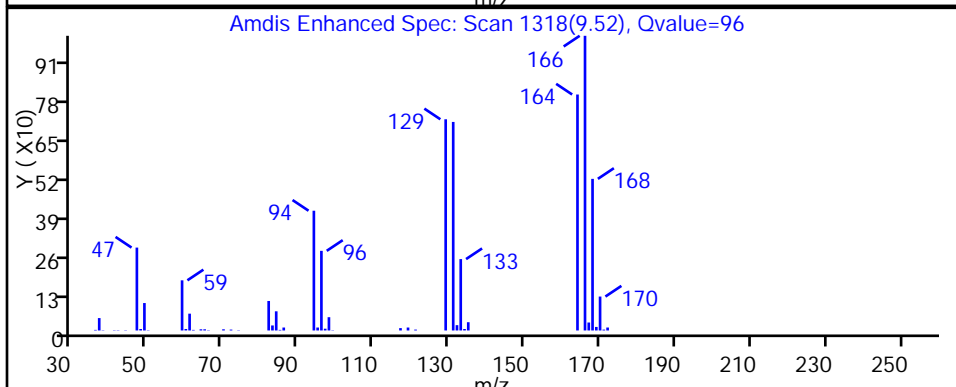
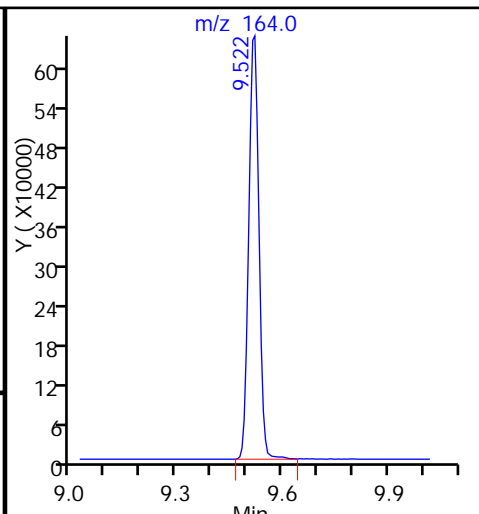
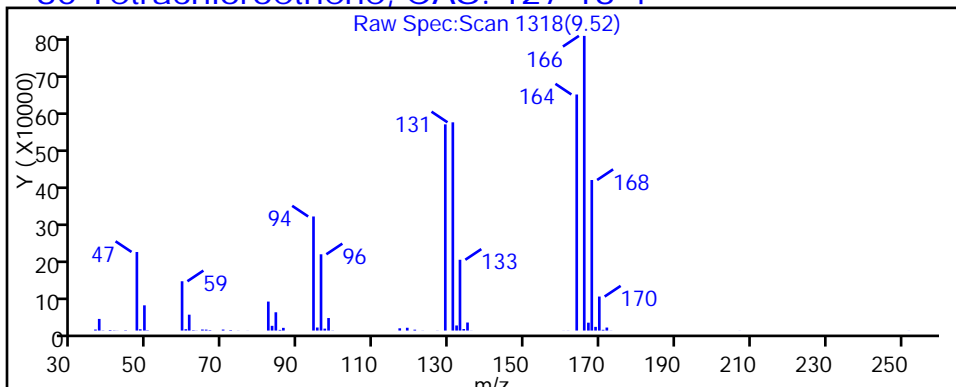
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

80 Tetrachloroethene, CAS: 127-18-4



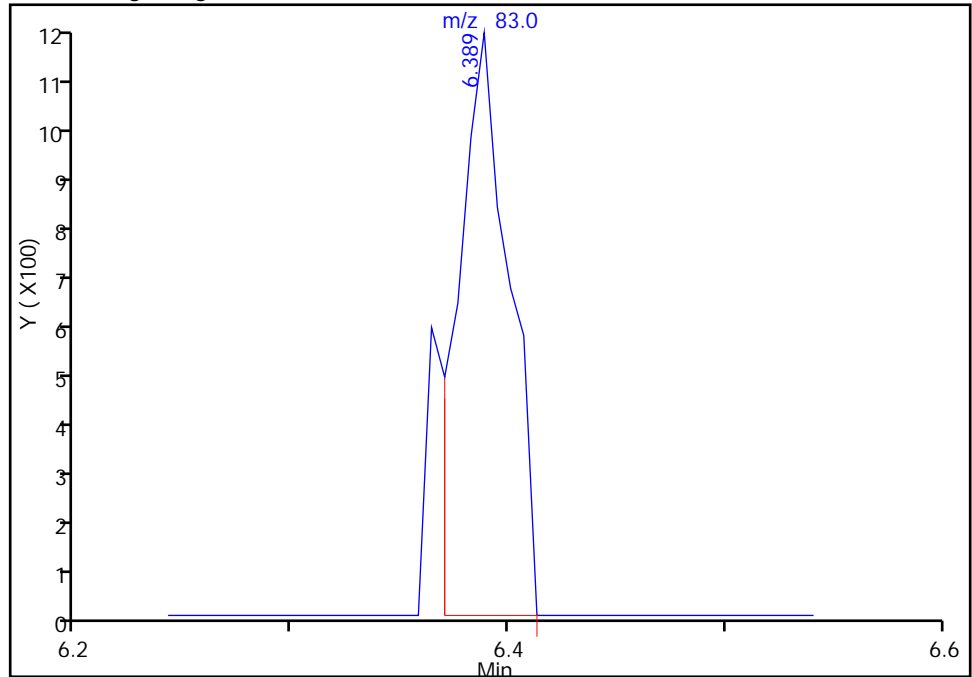
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006023.D
Injection Date: 06-Oct-2015 21:09:30 Instrument ID: CHHP5
Lims ID: 180-48181-C-4 Lab Sample ID: 180-48181-4
Client ID: HD-MW-93D-0/1-0
Operator ID: 001562 ALS Bottle#: 21 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

52 Chloroform, CAS: 67-66-3

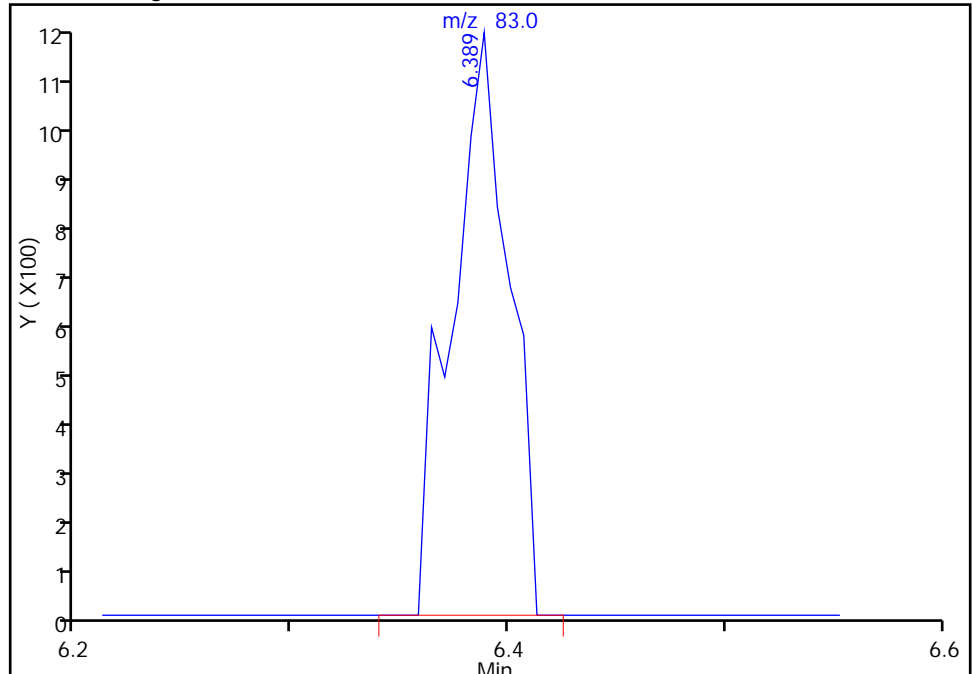
RT: 6.39
Area: 1917
Amount: 0.668028
Amount Units: ng

Processing Integration Results



RT: 6.39
Area: 2126
Amount: 0.740859
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 07-Oct-2015 08:10:02
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-MW-93D-0/1-0 DL Lab Sample ID: 180-48181-4 DL
 Matrix: Water Lab File ID: 51005017.D
 Analysis Method: 8260C Date Collected: 09/25/2015 13:10
 Sample wt/vol: 5 (mL) Date Analyzed: 10/05/2015 17:35
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 155884 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		10	2.8
75-01-4	Vinyl chloride	ND		10	2.3
74-83-9	Bromomethane	ND		10	3.1
75-00-3	Chloroethane	ND	^c	10	2.1
75-35-4	1,1-Dichloroethene	ND		10	3.0
67-64-1	Acetone	ND		50	25
75-15-0	Carbon disulfide	ND		10	2.1
75-09-2	Methylene Chloride	ND		10	1.3
156-60-5	trans-1,2-Dichloroethene	ND		10	1.7
1634-04-4	Methyl tert-butyl ether	ND		10	1.8
75-34-3	1,1-Dichloroethane	2.7	J	10	1.2
156-59-2	cis-1,2-Dichloroethene	37		10	2.4
74-97-5	Bromochloromethane	ND		10	1.8
78-93-3	2-Butanone (MEK)	ND		50	5.5
67-66-3	Chloroform	ND		10	1.7
71-55-6	1,1,1-Trichloroethane	6.2	J	10	2.9
56-23-5	Carbon tetrachloride	ND		10	1.4
71-43-2	Benzene	ND		10	1.1
107-06-2	1,2-Dichloroethane	ND		10	2.1
79-01-6	Trichloroethene	120		10	1.4
78-87-5	1,2-Dichloropropane	ND		10	0.95
75-27-4	Bromodichloromethane	ND		10	1.3
10061-01-5	cis-1,3-Dichloropropene	ND		10	1.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	5.3
108-88-3	Toluene	ND		10	1.5
10061-02-6	trans-1,3-Dichloropropene	ND		10	1.5
79-00-5	1,1,2-Trichloroethane	ND		10	2.0
127-18-4	Tetrachloroethene	160		10	1.5
591-78-6	2-Hexanone	ND		50	1.6
124-48-1	Dibromochloromethane	ND		10	1.4
106-93-4	1,2-Dibromoethane (EDB)	ND		10	1.8
108-90-7	Chlorobenzene	ND		10	1.4
630-20-6	1,1,1,2-Tetrachloroethane	ND		10	2.8
100-41-4	Ethylbenzene	ND		10	2.3
1330-20-7	Xylenes, Total	ND		30	4.9
100-42-5	Styrene	ND		10	0.97

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-MW-93D-0/1-0 DL Lab Sample ID: 180-48181-4 DL
 Matrix: Water Lab File ID: 51005017.D
 Analysis Method: 8260C Date Collected: 09/25/2015 13:10
 Sample wt/vol: 5 (mL) Date Analyzed: 10/05/2015 17:35
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 155884 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	<i>Bromoform</i>	ND		10	1.9
79-34-5	<i>1,1,2,2-Tetrachloroethane</i>	ND		10	2.0
107-13-1	<i>Acrylonitrile</i>	ND		200	5.5
123-91-1	<i>1,4-Dioxane</i>	ND		2000	340

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		64-135
2037-26-5	Toluene-d8 (Surr)	92		71-118
460-00-4	4-Bromofluorobenzene (Surr)	88		70-118
1868-53-7	Dibromofluoromethane (Surr)	108		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005017.D
 Lims ID: 180-48181-A-4 Lab Sample ID: 180-48181-4
 Client ID: HD-MW-93D-0/1-0
 Sample Type: Client
 Inject. Date: 05-Oct-2015 17:35:30 ALS Bottle#: 17 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Sample Info: 180-48181-A-4, 10x
 Misc. Info.: 180-0008828-017
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 06-Oct-2015 08:06:01 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: fergusond

Date: 06-Oct-2015 08:06:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.267	4.281	-0.014	0	146084	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.292	-0.002	98	329329	50.0	
* 3 Chlorobenzene-d5	119	10.387	10.388	-0.001	87	84752	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.729	12.730	-0.001	96	124229	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.566	6.568	-0.002	94	86972	53.8	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.937	6.933	0.004	0	107831	48.5	
\$ 7 Toluene-d8 (Surr)	98	8.939	8.940	-0.001	94	301106	46.1	
\$ 8 4-Bromofluorobenzene (Surr	95	11.573	11.575	-0.002	92	108619	44.0	
12 Chloromethane	50		1.774				ND	
13 Vinyl chloride	62		1.908				ND	
15 Bromomethane	94		2.249				ND	
16 Chloroethane	64		2.413				ND	
22 1,1-Dichloroethene	96	3.360	3.344	0.016	42	2629	1.43	M
24 Acetone	43		3.441				ND	
26 Carbon disulfide	76		3.636				ND	
31 Methylene Chloride	84		4.141				ND	
33 Acrylonitrile	53		4.524				ND	
34 trans-1,2-Dichloroethene	96		4.566				ND	
35 Methyl tert-butyl ether	73		4.579				ND	
37 1,1-Dichloroethane	63	5.216	5.199	0.017	14	5271	1.34	
45 cis-1,2-Dichloroethene	96	5.958	5.954	0.004	81	39354	18.5	
46 2-Butanone (MEK)	43		5.966				ND	
49 Chlorobromomethane	128		6.233				ND	
52 Chloroform	83		6.379				ND	
53 1,1,1-Trichloroethane	97	6.542	6.550	-0.008	75	7708	3.08	
56 Carbon tetrachloride	117		6.720				ND	
58 Benzene	78		6.945				ND	
59 1,2-Dichloroethane	62		7.024				ND	
64 Trichloroethene	130	7.680	7.675	0.005	96	118547	59.7	
67 1,2-Dichloropropane	63		7.949				ND	
70 1,4-Dioxane	88		8.034				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.235				ND	
74 cis-1,3-Dichloropropene	75		8.679				ND	
75 4-Methyl-2-pentanone (MIBK)	43		8.825				ND	
76 Toluene	91		9.007				ND	
77 trans-1,3-Dichloropropene	75		9.257				ND	
79 1,1,2-Trichloroethane	97		9.445				ND	
80 Tetrachloroethene	164	9.523	9.518	0.005	98	127350	78.2	
82 2-Hexanone	43		9.658				ND	
84 Chlorodibromomethane	129		9.823				ND	
85 Ethylene Dibromide	107		9.932				ND	
87 Chlorobenzene	112		10.419				ND	
89 1,1,1,2-Tetrachloroethane	131		10.510				ND	
90 Ethylbenzene	106		10.522				ND	
91 m-Xylene & p-Xylene	106		10.650				ND	
92 o-Xylene	106		11.033				ND	
93 Styrene	104		11.051				ND	
94 Bromoform	173		11.228				ND	
99 1,1,2,2-Tetrachloroethane	83		11.708				ND	
S 133 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00042

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00042

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005017.D

Injection Date: 05-Oct-2015 17:35:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: 180-48181-A-4

Lab Sample ID: 180-48181-4

Worklist Smp#: 17

Client ID: HD-MW-93D-0/1-0

Purge Vol: 5.000 mL

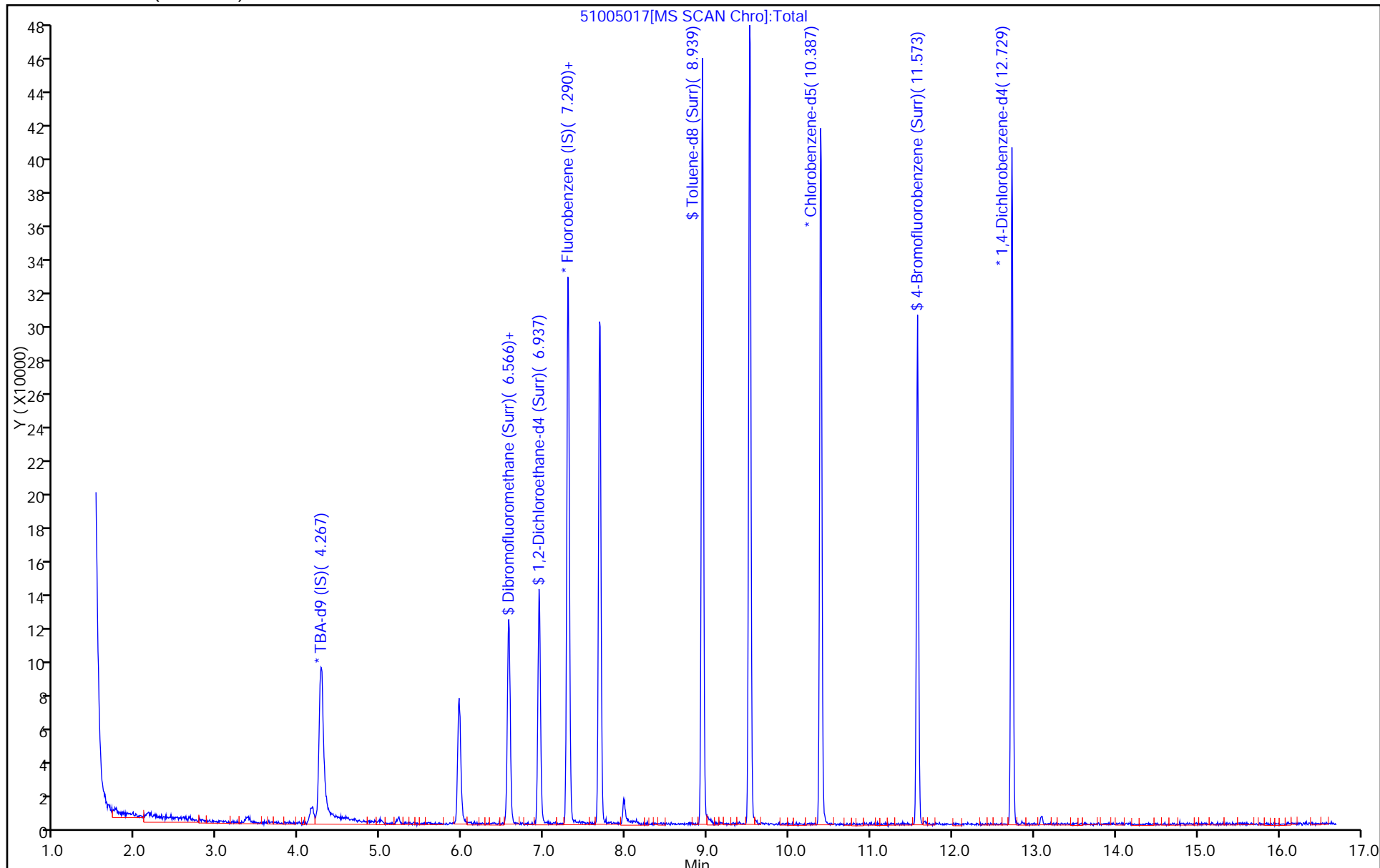
Dil. Factor: 10.0000

ALS Bottle#: 17

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005017.D

Injection Date: 05-Oct-2015 17:35:30

Instrument ID: CHHP5

Lims ID: 180-48181-A-4

Lab Sample ID: 180-48181-4

Client ID: HD-MW-93D-0/1-0

Operator ID: 001562

ALS Bottle#: 17 Worklist Smp#: 17

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

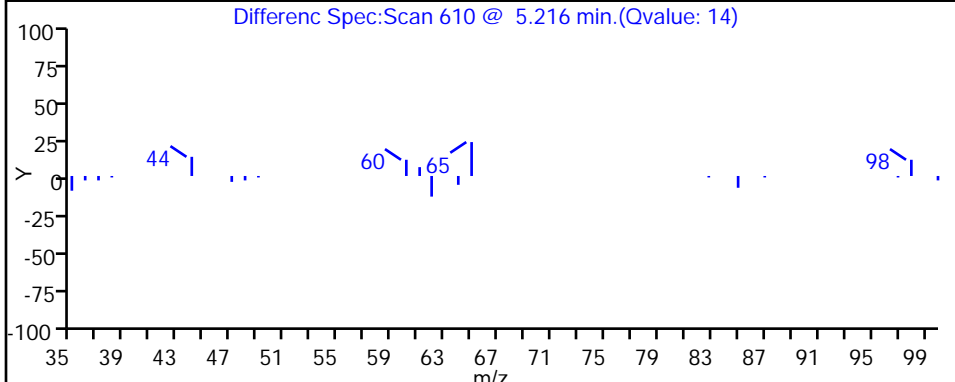
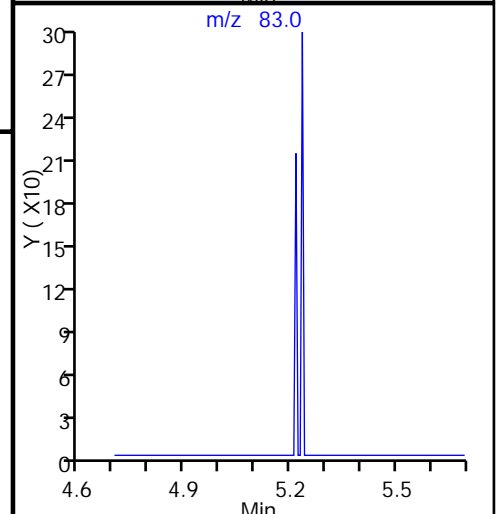
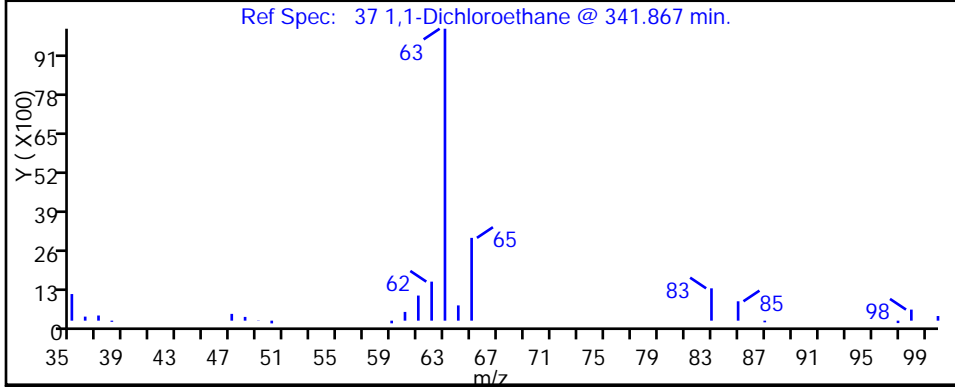
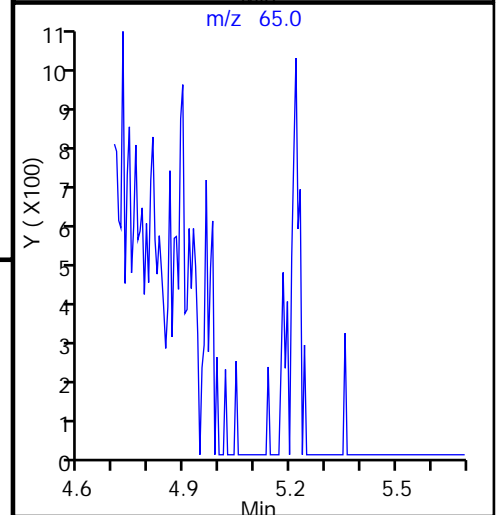
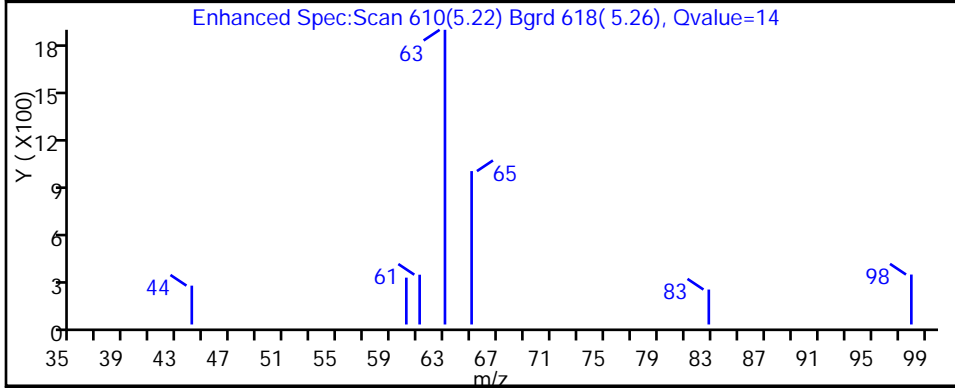
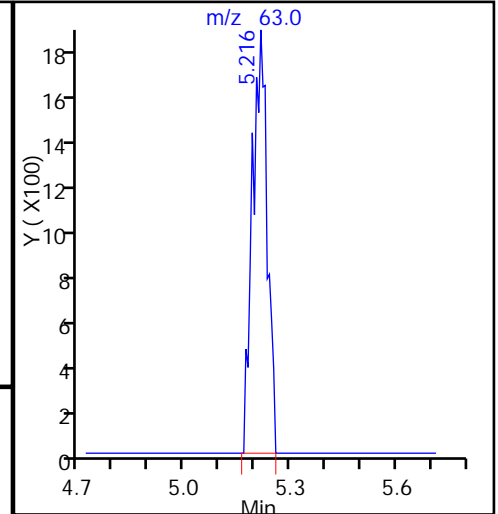
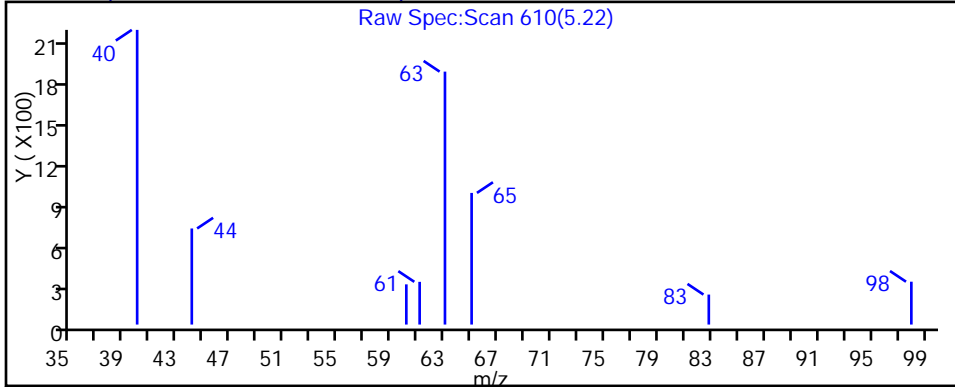
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005017.D

Injection Date: 05-Oct-2015 17:35:30

Instrument ID: CHHP5

Lims ID: 180-48181-A-4

Lab Sample ID: 180-48181-4

Client ID: HD-MW-93D-0/1-0

Operator ID: 001562

ALS Bottle#: 17

Worklist Smp#: 17

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

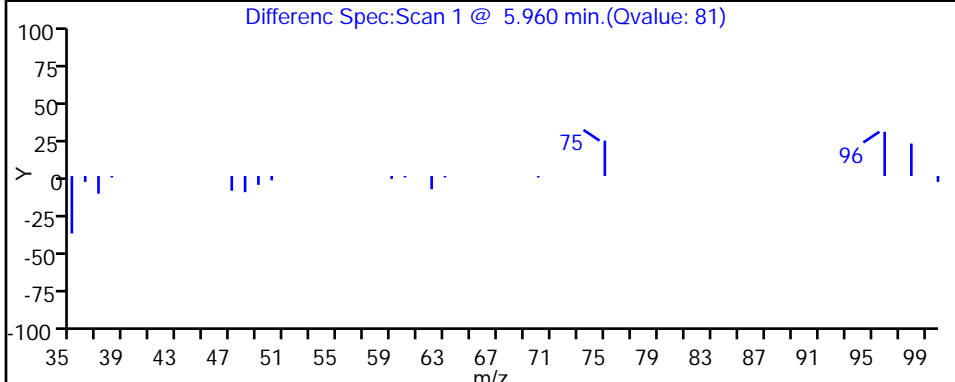
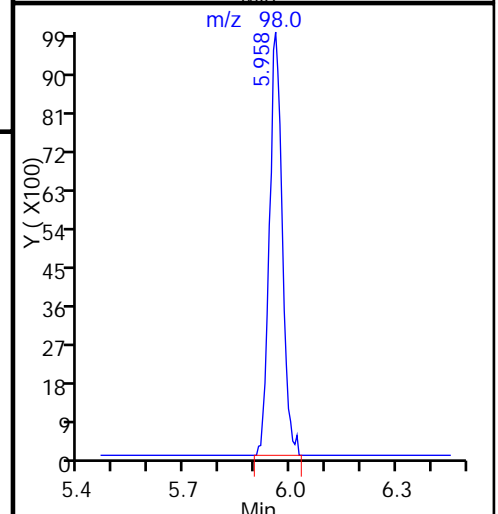
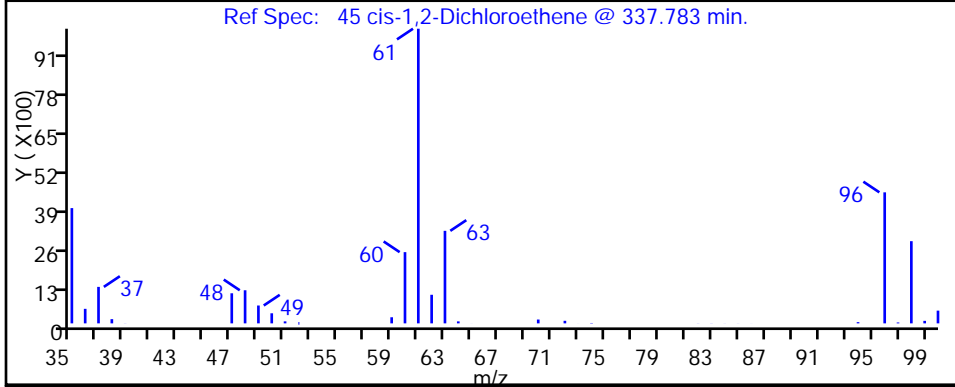
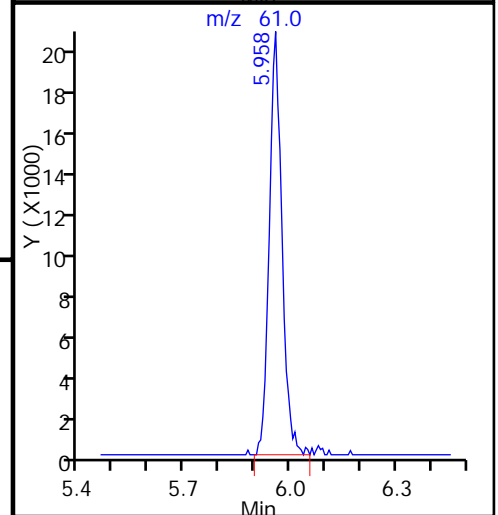
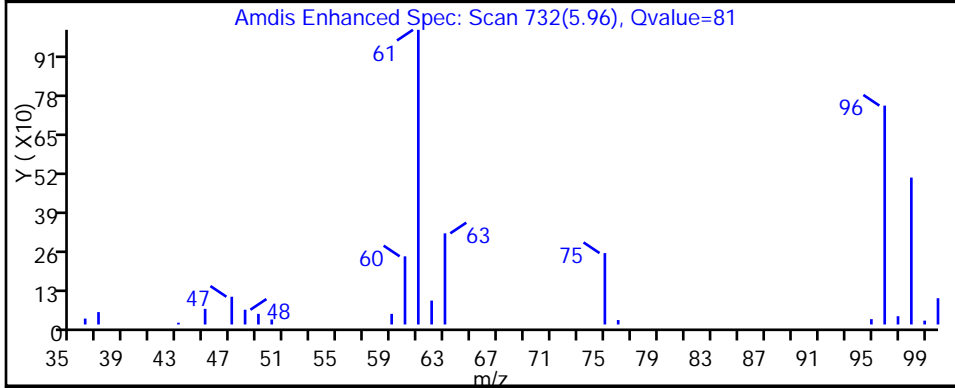
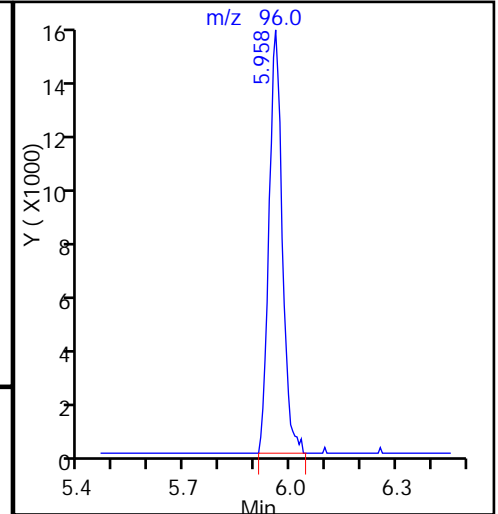
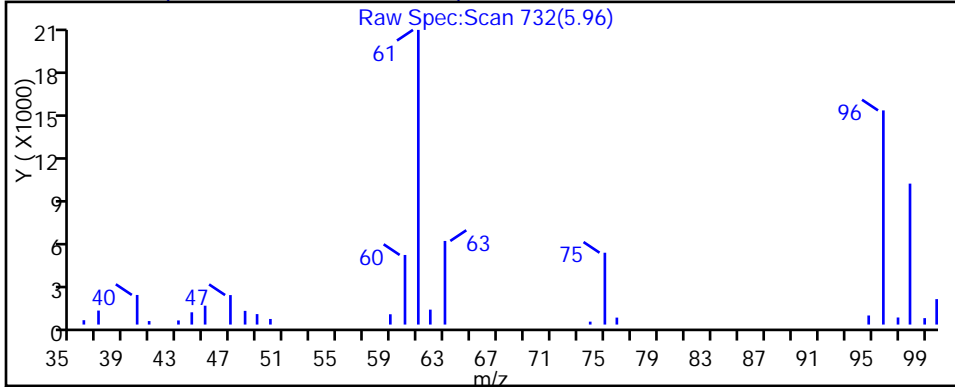
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005017.D

Injection Date: 05-Oct-2015 17:35:30

Instrument ID: CHHP5

Lims ID: 180-48181-A-4

Lab Sample ID: 180-48181-4

Client ID: HD-MW-93D-0/1-0

Operator ID: 001562

ALS Bottle#: 17

Worklist Smp#: 17

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

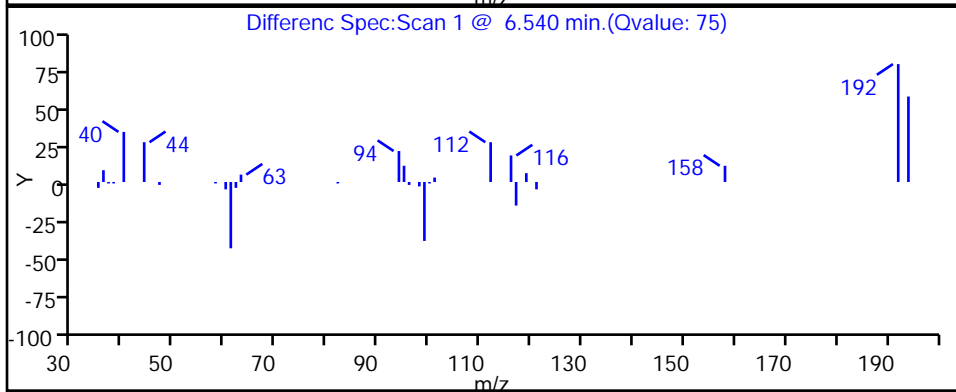
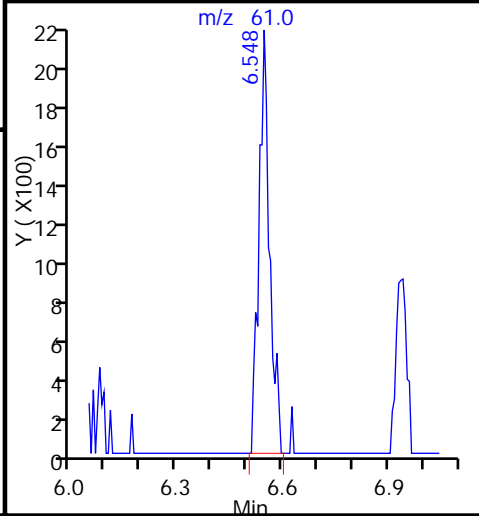
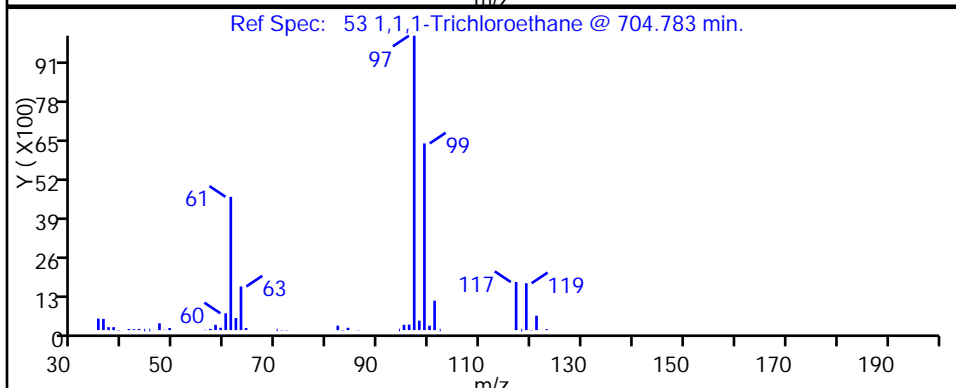
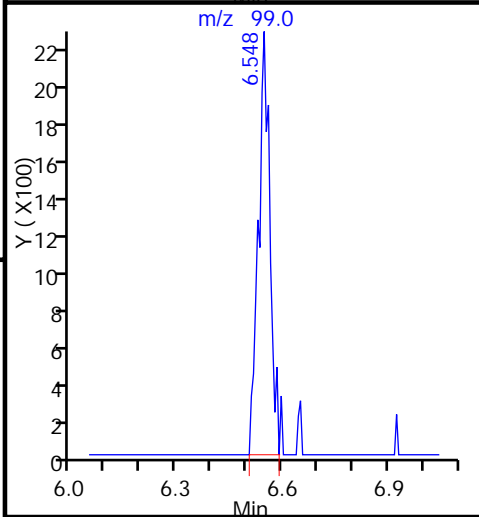
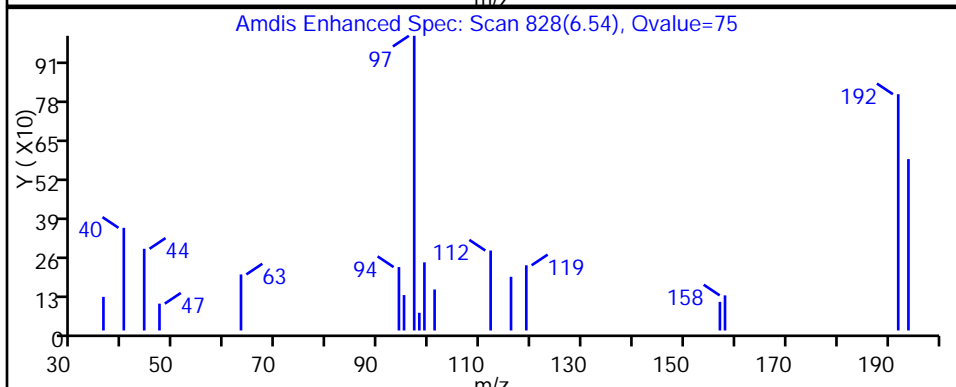
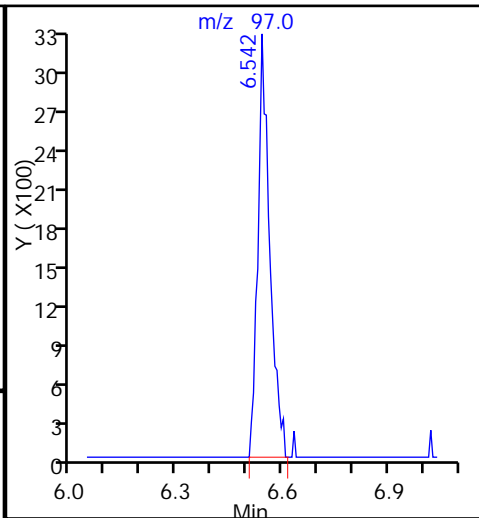
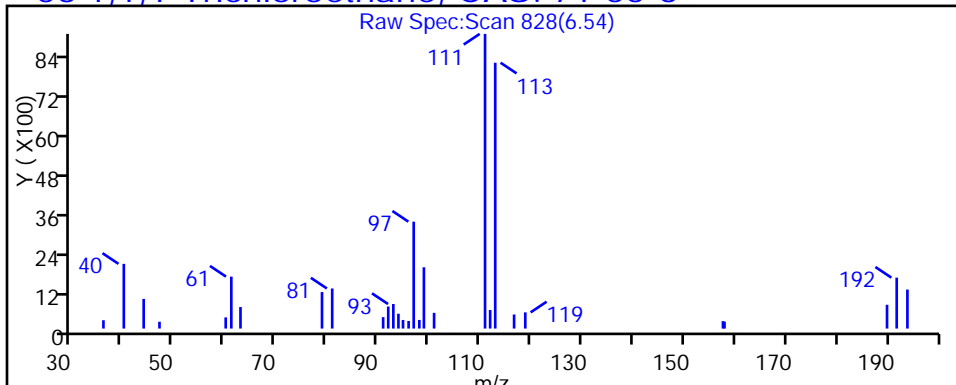
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

53 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005017.D

Injection Date: 05-Oct-2015 17:35:30

Instrument ID: CHHP5

Lims ID: 180-48181-A-4

Lab Sample ID: 180-48181-4

Client ID: HD-MW-93D-0/1-0

Operator ID: 001562

ALS Bottle#: 17

Worklist Smp#: 17

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

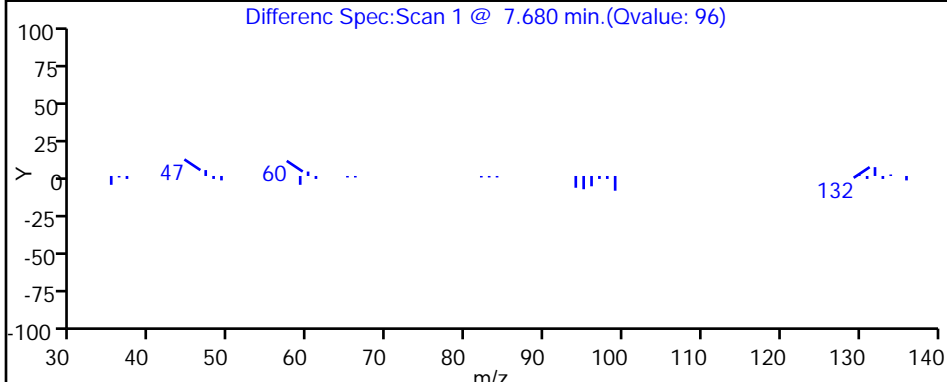
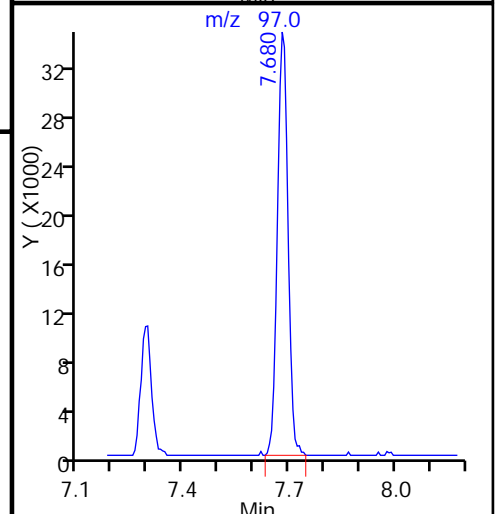
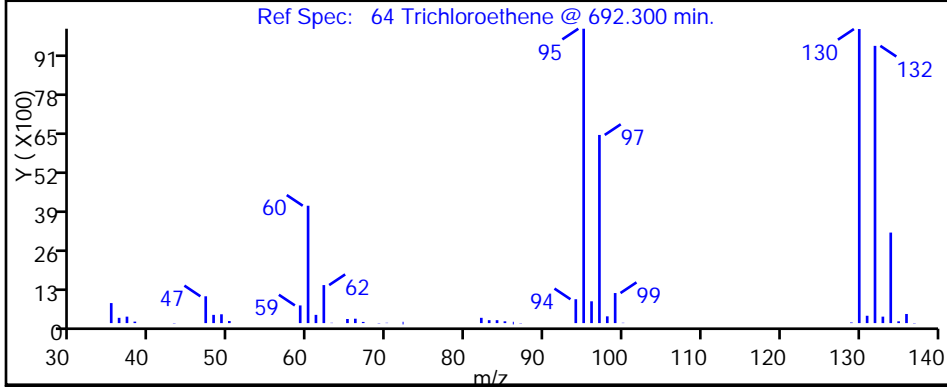
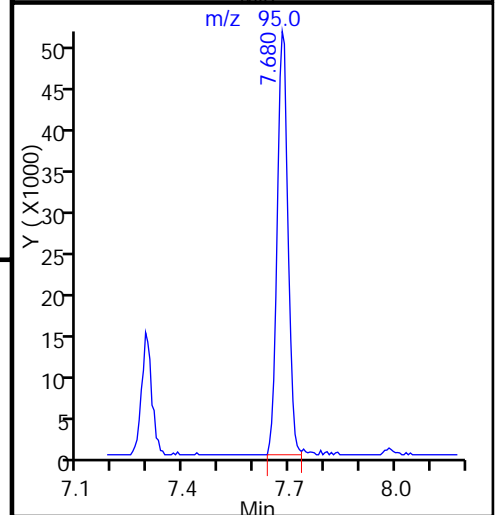
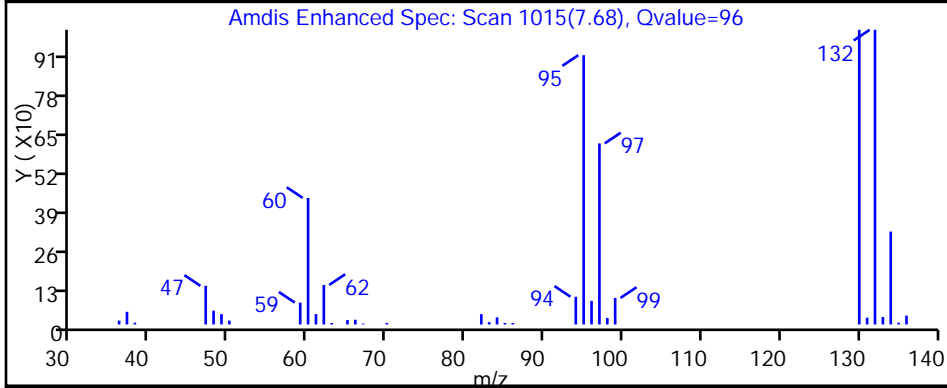
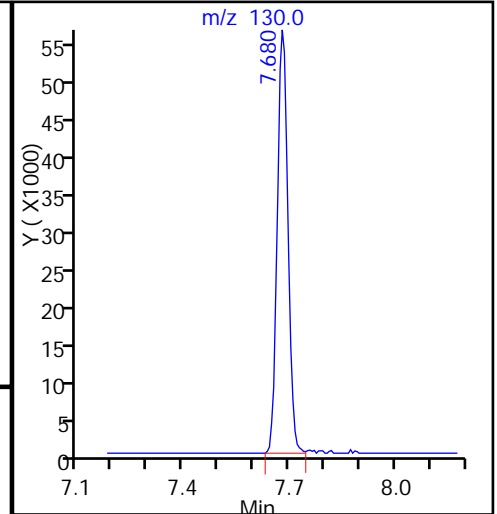
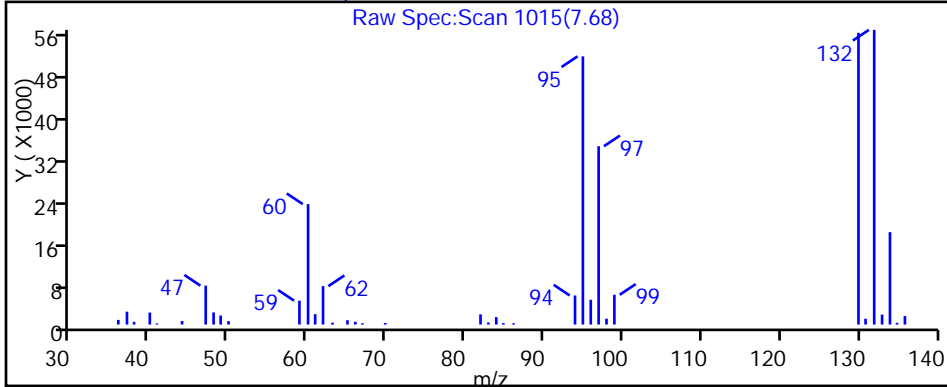
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

64 Trichloroethene, CAS: 79-01-6



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005017.D

Injection Date: 05-Oct-2015 17:35:30

Instrument ID: CHHP5

Lims ID: 180-48181-A-4

Lab Sample ID: 180-48181-4

Client ID: HD-MW-93D-0/1-0

Operator ID: 001562

ALS Bottle#: 17

Worklist Smp#: 17

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

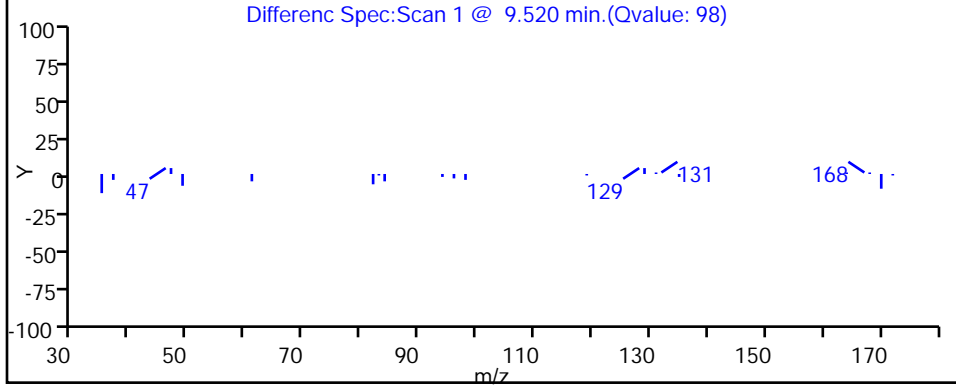
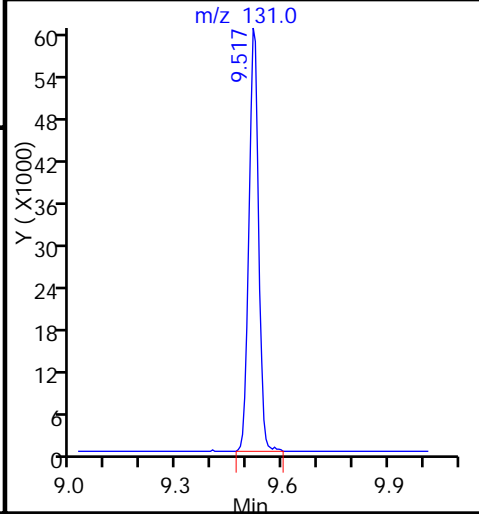
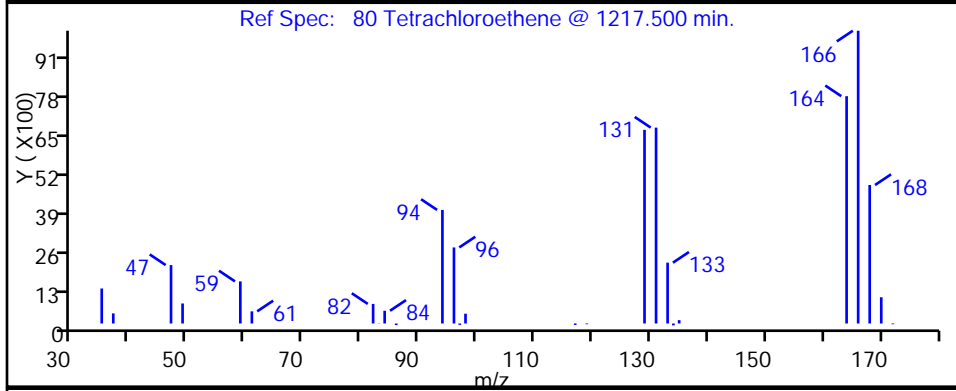
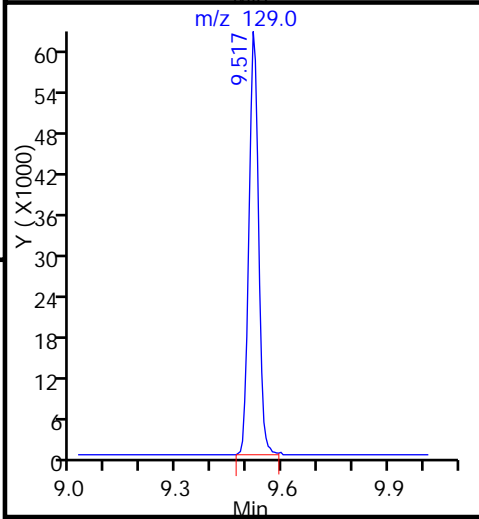
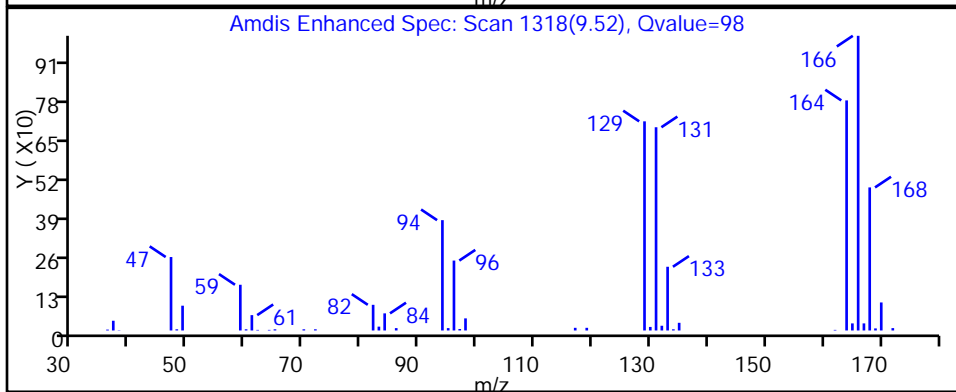
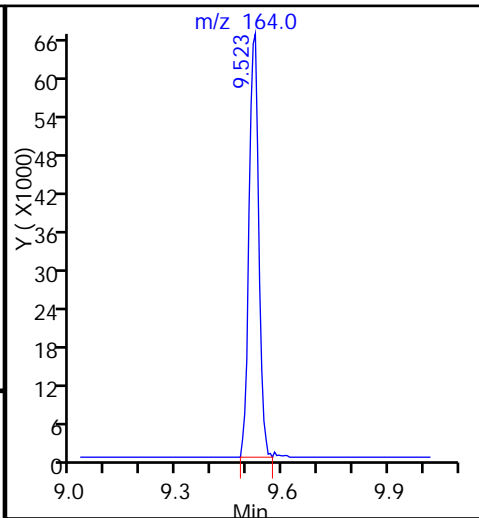
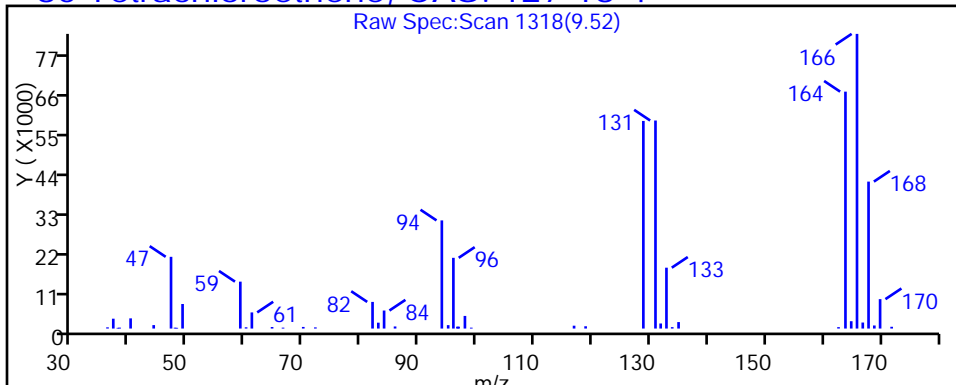
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

80 Tetrachloroethene, CAS: 127-18-4



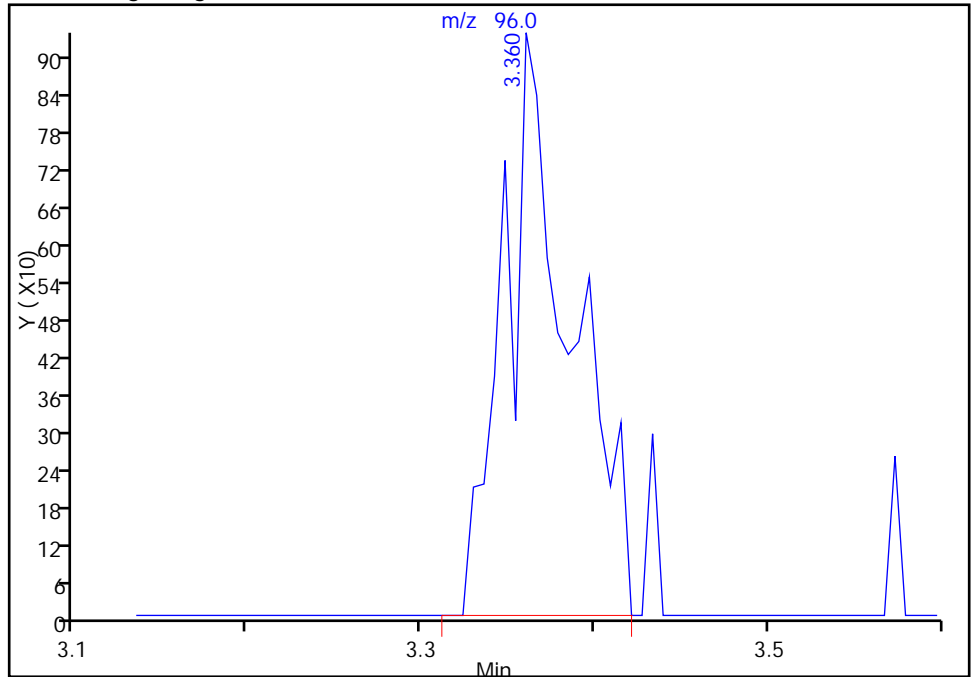
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005017.D
Injection Date: 05-Oct-2015 17:35:30 Instrument ID: CHHP5
Lims ID: 180-48181-A-4 Lab Sample ID: 180-48181-4
Client ID: HD-MW-93D-0/1-0
Operator ID: 001562 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

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

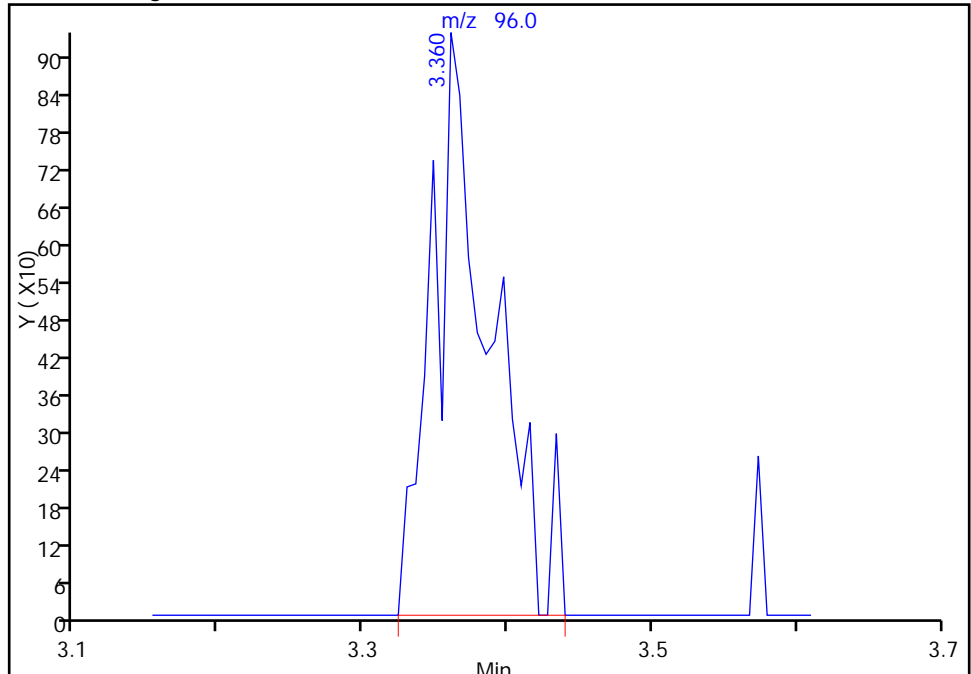
RT: 3.36
Area: 2523
Amount: 1.375530
Amount Units: ng

Processing Integration Results



RT: 3.36
Area: 2629
Amount: 1.433321
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 06-Oct-2015 08:06:01
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-MW-75S-0/1-0 Lab Sample ID: 180-48181-5
 Matrix: Water Lab File ID: 51005018.D
 Analysis Method: 8260C Date Collected: 09/25/2015 13:47
 Sample wt/vol: 5 (mL) Date Analyzed: 10/05/2015 17:59
 Soil Aliquot Vol: _____ Dilution Factor: 50
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 155884 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		50	14
75-01-4	Vinyl chloride	ND		50	11
74-83-9	Bromomethane	ND		50	16
75-00-3	Chloroethane	ND	^c	50	11
75-35-4	1,1-Dichloroethene	53		50	15
67-64-1	Acetone	ND		250	130
75-15-0	Carbon disulfide	ND		50	11
75-09-2	Methylene Chloride	ND		50	6.3
156-60-5	trans-1,2-Dichloroethene	ND		50	8.5
1634-04-4	Methyl tert-butyl ether	ND		50	9.2
75-34-3	1,1-Dichloroethane	6.8	J	50	5.8
156-59-2	cis-1,2-Dichloroethene	130		50	12
74-97-5	Bromochloromethane	ND		50	9.0
78-93-3	2-Butanone (MEK)	ND		250	27
67-66-3	Chloroform	ND		50	8.5
71-55-6	1,1,1-Trichloroethane	250		50	14
56-23-5	Carbon tetrachloride	ND		50	6.8
71-43-2	Benzene	ND		50	5.3
107-06-2	1,2-Dichloroethane	ND		50	11
79-01-6	Trichloroethene	2900	E	50	7.2
78-87-5	1,2-Dichloropropane	ND		50	4.7
75-27-4	Bromodichloromethane	ND		50	6.5
10061-01-5	cis-1,3-Dichloropropene	ND		50	9.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	26
108-88-3	Toluene	ND		50	7.5
10061-02-6	trans-1,3-Dichloropropene	ND		50	7.4
79-00-5	1,1,2-Trichloroethane	120		50	10
127-18-4	Tetrachloroethene	14000	E	50	7.4
591-78-6	2-Hexanone	ND		250	8.0
124-48-1	Dibromochloromethane	ND		50	6.8
106-93-4	1,2-Dibromoethane (EDB)	ND		50	9.0
108-90-7	Chlorobenzene	ND		50	6.8
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	14
100-41-4	Ethylbenzene	ND		50	11
1330-20-7	Xylenes, Total	ND		150	24
100-42-5	Styrene	ND		50	4.8

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-MW-75S-0/1-0 Lab Sample ID: 180-48181-5
 Matrix: Water Lab File ID: 51005018.D
 Analysis Method: 8260C Date Collected: 09/25/2015 13:47
 Sample wt/vol: 5 (mL) Date Analyzed: 10/05/2015 17:59
 Soil Aliquot Vol: _____ Dilution Factor: 50
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 155884 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	ND		50	9.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	10
107-13-1	Acrylonitrile	ND		1000	27
123-91-1	1,4-Dioxane	ND		10000	1700

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		64-135
2037-26-5	Toluene-d8 (Surr)	88		71-118
460-00-4	4-Bromofluorobenzene (Surr)	84		70-118
1868-53-7	Dibromofluoromethane (Surr)	110		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005018.D
 Lims ID: 180-48181-A-5 Lab Sample ID: 180-48181-5
 Client ID: HD-MW-75S-0/1-0
 Sample Type: Client
 Inject. Date: 05-Oct-2015 17:59:30 ALS Bottle#: 18 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 50.0000
 Sample Info: 180-48181-A-5, 50x
 Misc. Info.: 180-0008828-018
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 06-Oct-2015 08:10:26 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: fergusond

Date: 06-Oct-2015 08:10:26

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.269	4.281	-0.012	0	134738	1000.0	
* 2 Fluorobenzene (IS)	96	7.292	7.292	0.000	98	312864	50.0	
* 3 Chlorobenzene-d5	119	10.389	10.388	0.001	87	88426	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.731	12.730	0.001	96	115476	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.568	6.568	0.000	94	84546	55.0	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.939	6.933	0.006	0	105985	50.2	
\$ 7 Toluene-d8 (Surr)	98	8.941	8.940	0.001	93	299803	43.9	
\$ 8 4-Bromofluorobenzene (Surr	95	11.569	11.575	-0.006	91	107729	41.9	
12 Chloromethane	50		1.774				ND	
13 Vinyl chloride	62		1.908				ND	
15 Bromomethane	94		2.249				ND	
16 Chloroethane	64		2.413				ND	
22 1,1-Dichloroethene	96	3.356	3.344	0.012	96	9315	5.35	
24 Acetone	43		3.441				ND	
26 Carbon disulfide	76		3.636				ND	
31 Methylene Chloride	84		4.141				ND	
33 Acrylonitrile	53		4.524				ND	
34 trans-1,2-Dichloroethene	96		4.566				ND	
35 Methyl tert-butyl ether	73		4.579				ND	
37 1,1-Dichloroethane	63	5.206	5.199	0.007	1	2534	0.6799	
45 cis-1,2-Dichloroethene	96	5.954	5.954	0.000	80	27059	13.4	
46 2-Butanone (MEK)	43		5.966				ND	
49 Chlorobromomethane	128		6.233				ND	
52 Chloroform	83		6.379				ND	
53 1,1,1-Trichloroethane	97	6.544	6.550	-0.006	95	59764	25.1	
56 Carbon tetrachloride	117		6.720				ND	
58 Benzene	78		6.945				ND	
59 1,2-Dichloroethane	62		7.024				ND	
64 Trichloroethene	130	7.682	7.675	0.007	96	546888	289.8	E
67 1,2-Dichloropropane	63		7.949				ND	
70 1,4-Dioxane	88		8.034				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.235				ND	
74 cis-1,3-Dichloropropene	75		8.679				ND	
75 4-Methyl-2-pentanone (MIBK)	43		8.825				ND	
76 Toluene	91		9.007				ND	
77 trans-1,3-Dichloropropene	75		9.257				ND	
79 1,1,2-Trichloroethane	97	9.519	9.445	0.074	36	20487	12.3	
80 Tetrachloroethene	164	9.519	9.518	0.001	92	2417293	1422.5	E
82 2-Hexanone	43		9.658				ND	
84 Chlorodibromomethane	129		9.823				ND	
85 Ethylene Dibromide	107		9.932				ND	
87 Chlorobenzene	112		10.419				ND	
89 1,1,1,2-Tetrachloroethane	131		10.510				ND	
90 Ethylbenzene	106		10.522				ND	
91 m-Xylene & p-Xylene	106		10.650				ND	
92 o-Xylene	106		11.033				ND	
93 Styrene	104		11.051				ND	
94 Bromoform	173		11.228				ND	
99 1,1,2,2-Tetrachloroethane	83		11.708				ND	
S 133 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

VOA8260INT_00042

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00042

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005018.D

Injection Date: 05-Oct-2015 17:59:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: 180-48181-A-5

Lab Sample ID: 180-48181-5

Worklist Smp#: 18

Client ID: HD-MW-75S-0/1-0

Purge Vol: 5.000 mL

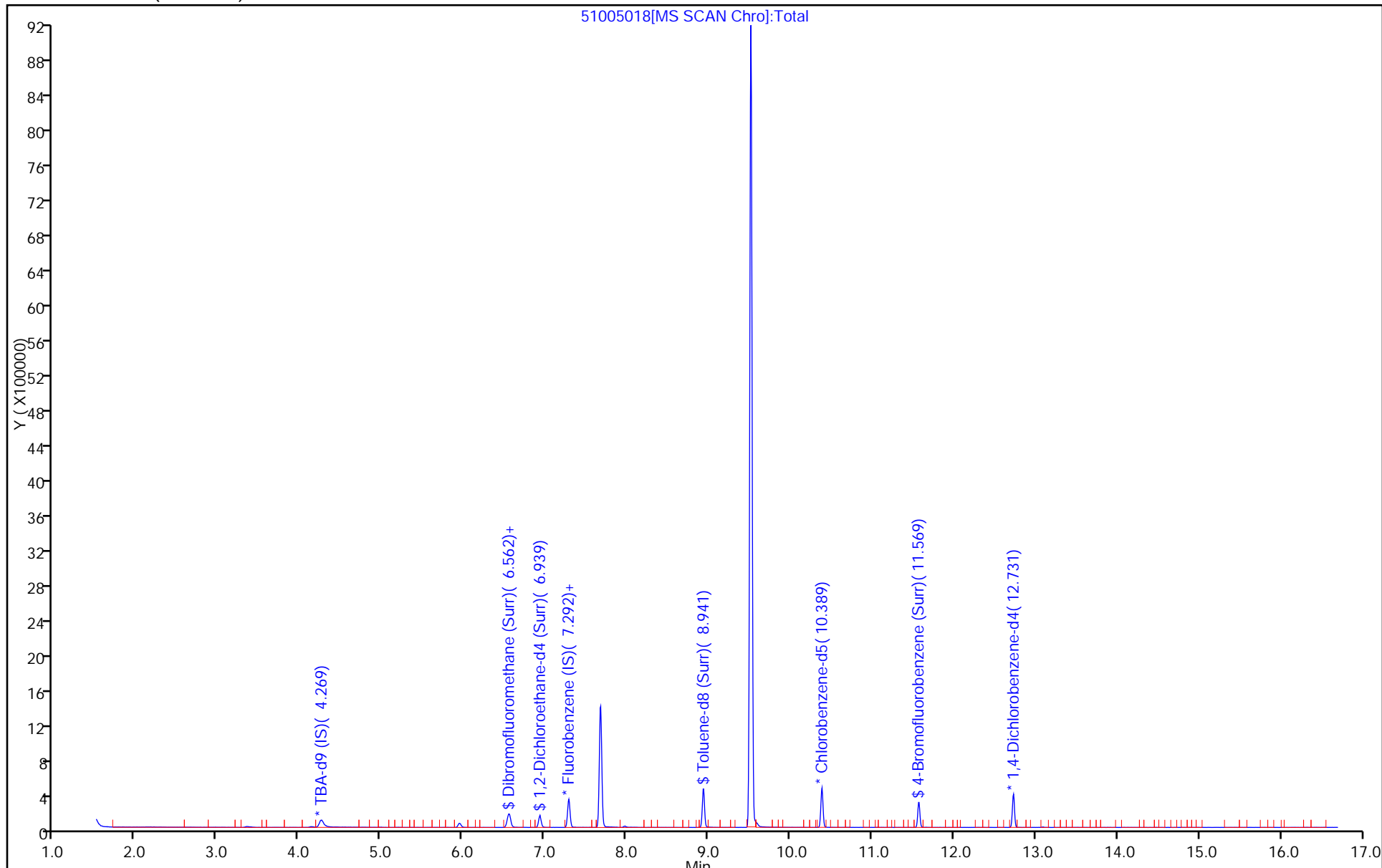
Dil. Factor: 50.0000

ALS Bottle#: 18

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005018.D

Injection Date: 05-Oct-2015 17:59:30

Instrument ID: CHHP5

Lims ID: 180-48181-A-5

Lab Sample ID: 180-48181-5

Client ID: HD-MW-75S-0/1-0

Operator ID: 001562

ALS Bottle#: 18

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 50.0000

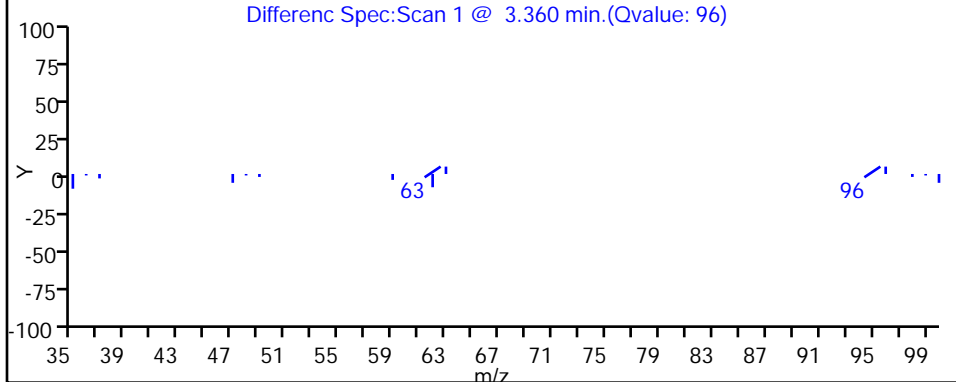
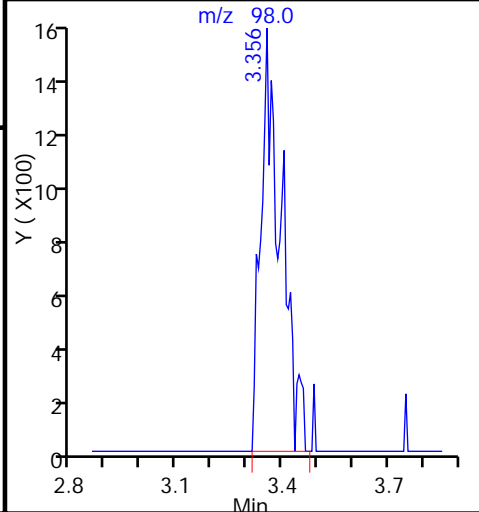
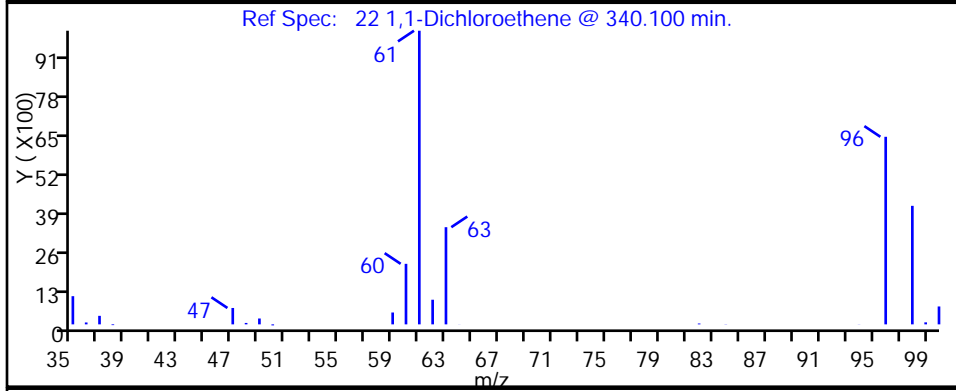
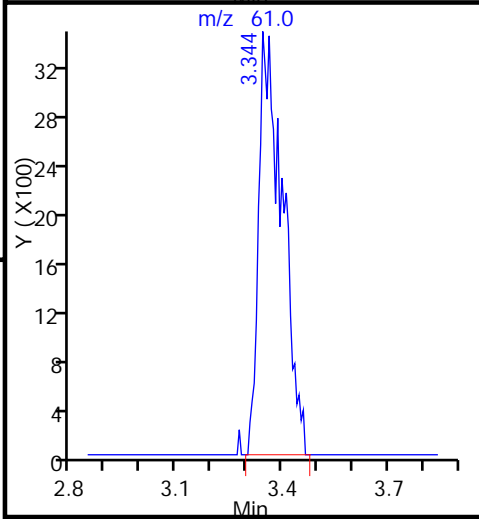
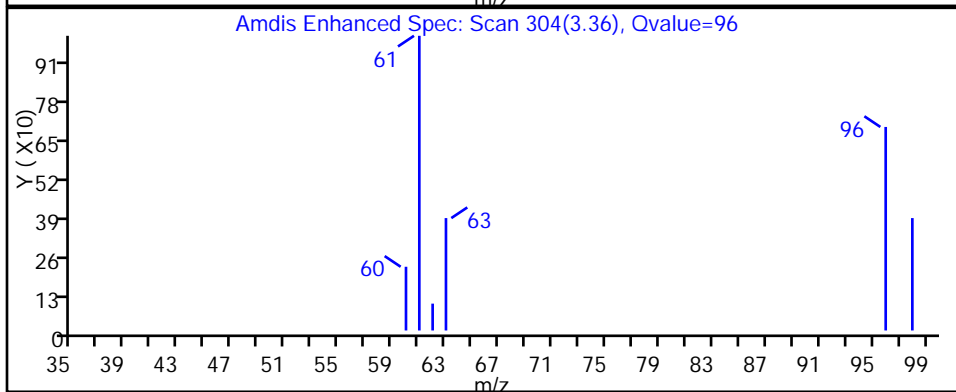
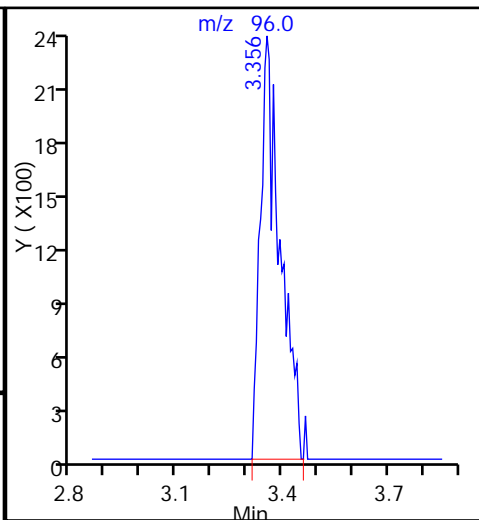
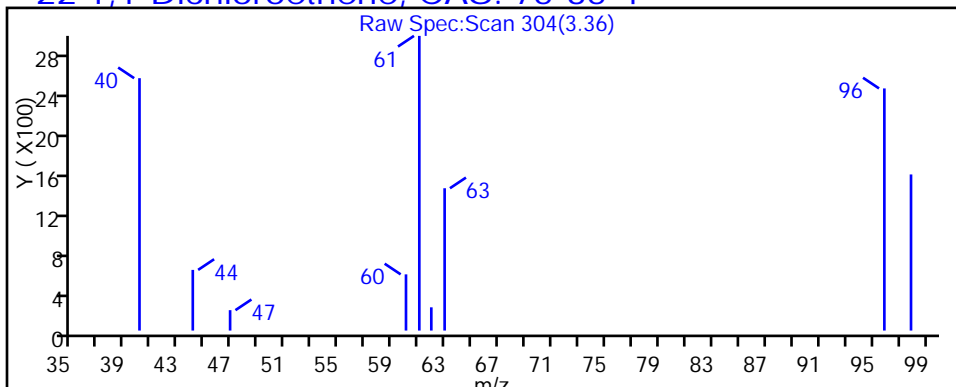
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005018.D

Injection Date: 05-Oct-2015 17:59:30

Instrument ID: CHHP5

Lims ID: 180-48181-A-5

Lab Sample ID: 180-48181-5

Client ID: HD-MW-75S-0/1-0

Operator ID: 001562

ALS Bottle#: 18 Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 50.0000

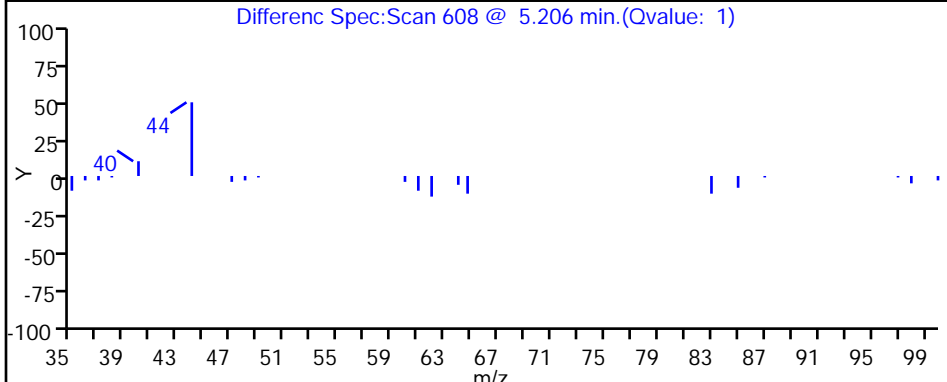
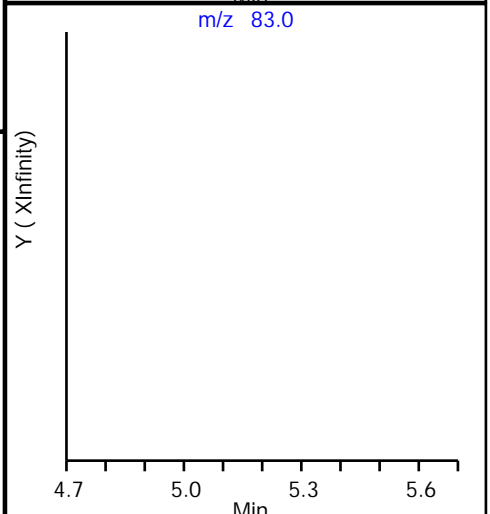
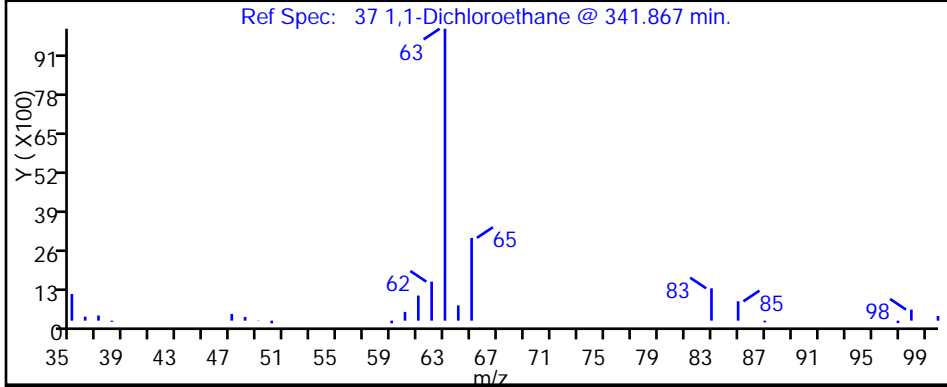
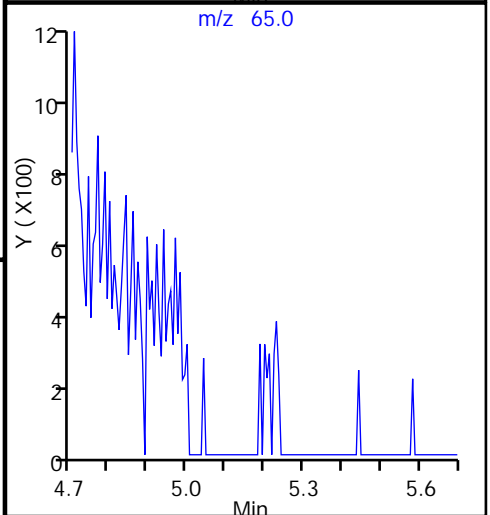
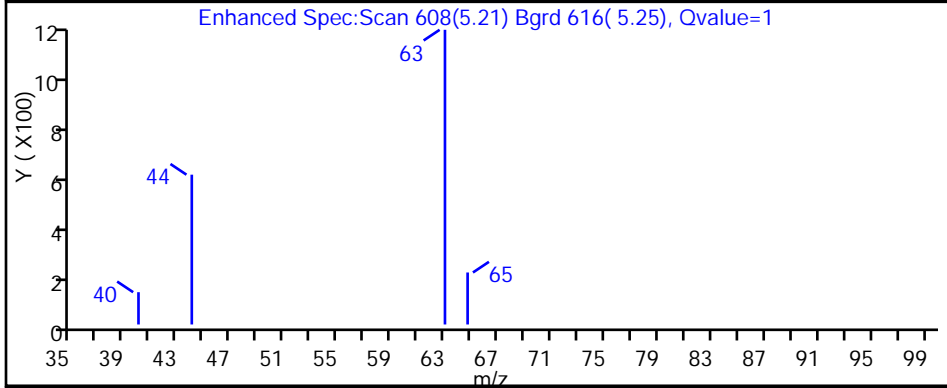
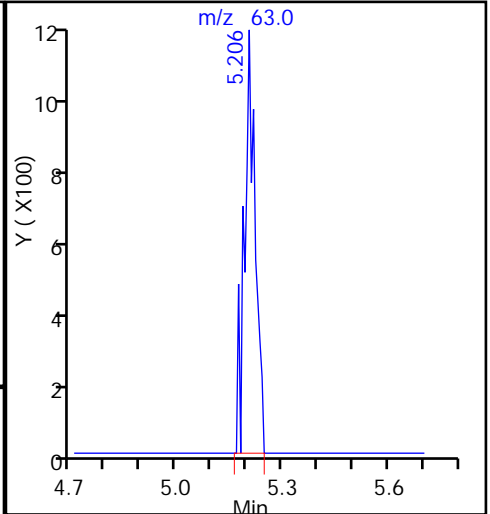
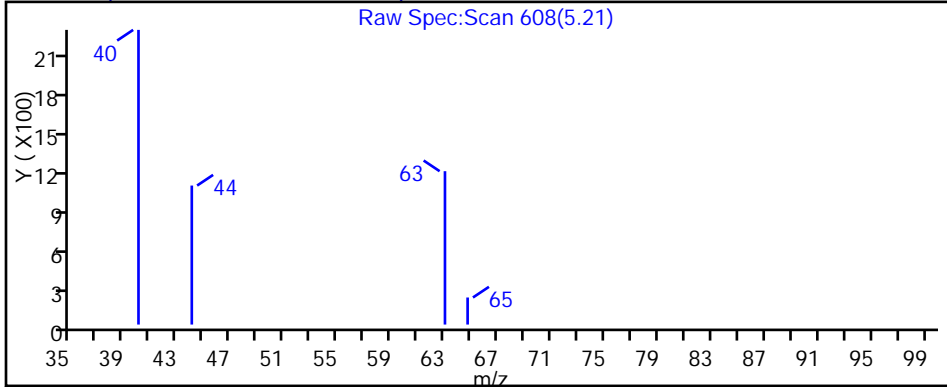
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005018.D

Injection Date: 05-Oct-2015 17:59:30

Instrument ID: CHHP5

Lims ID: 180-48181-A-5

Lab Sample ID: 180-48181-5

Client ID: HD-MW-75S-0/1-0

Operator ID: 001562

ALS Bottle#: 18

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 50.0000

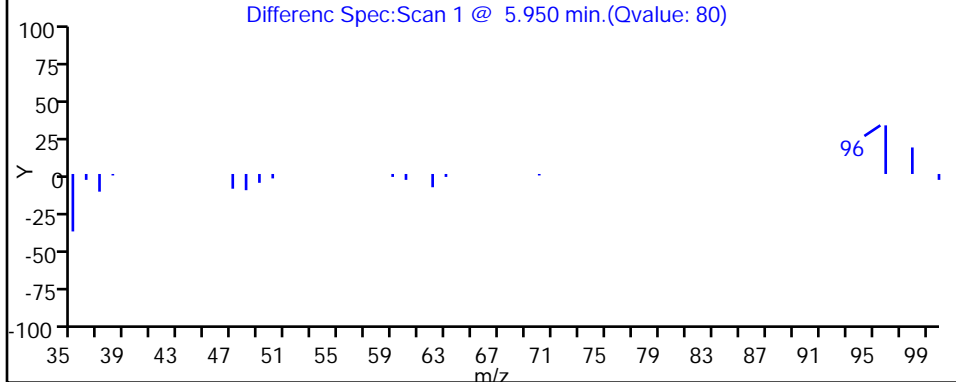
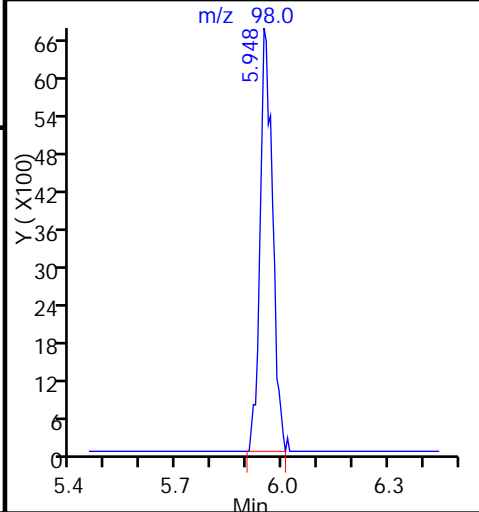
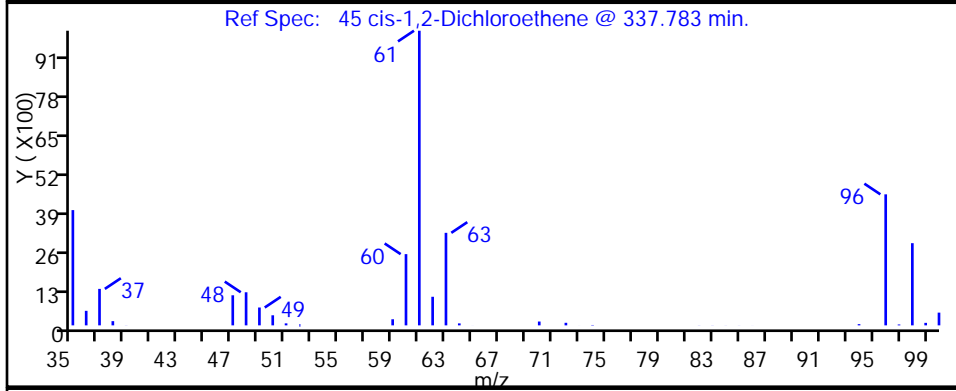
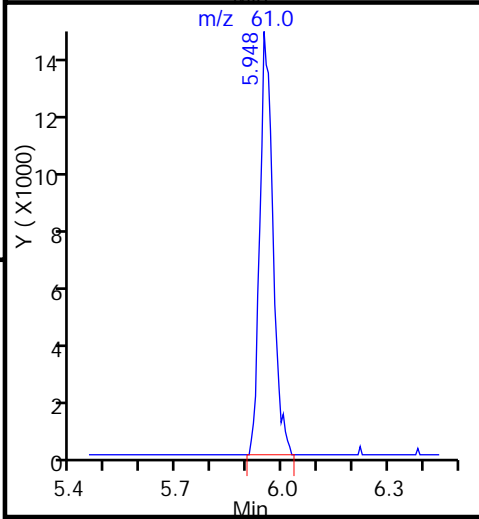
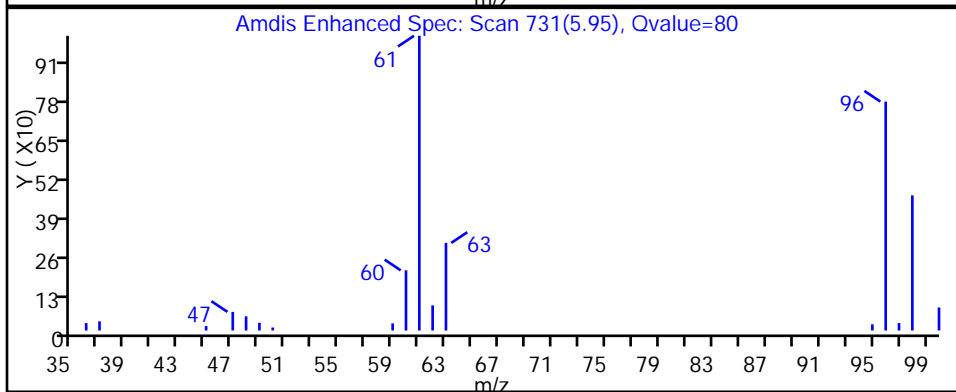
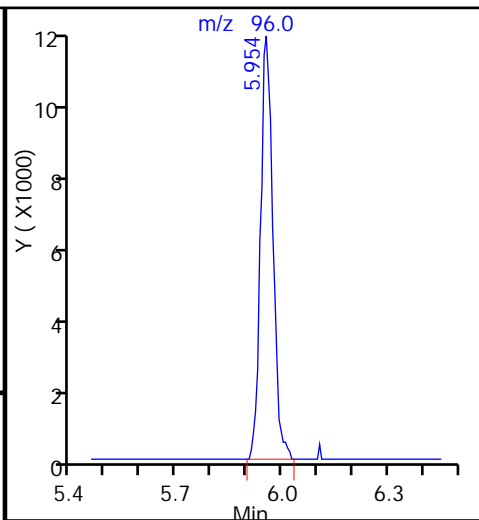
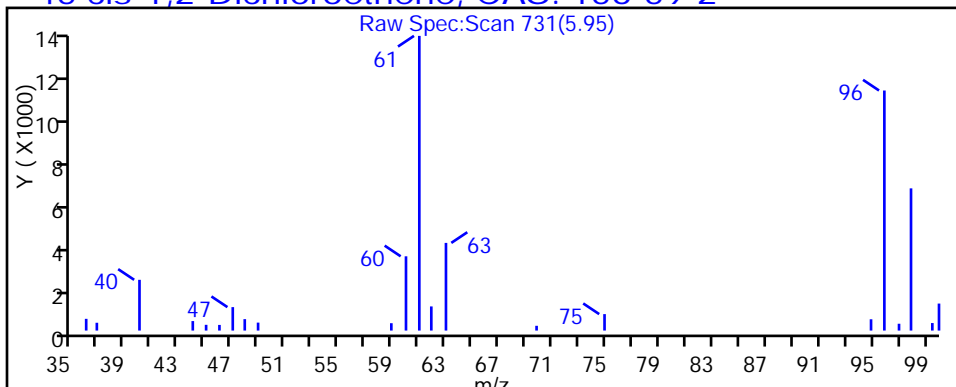
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005018.D

Injection Date: 05-Oct-2015 17:59:30

Instrument ID: CHHP5

Lims ID: 180-48181-A-5

Lab Sample ID: 180-48181-5

Client ID: HD-MW-75S-0/1-0

Operator ID: 001562

ALS Bottle#: 18

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 50.0000

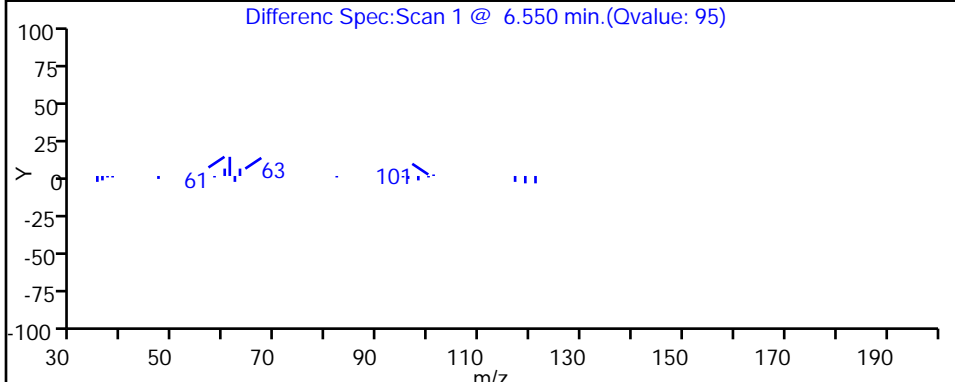
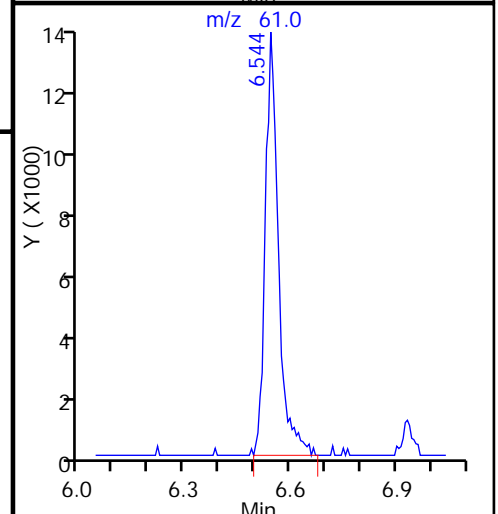
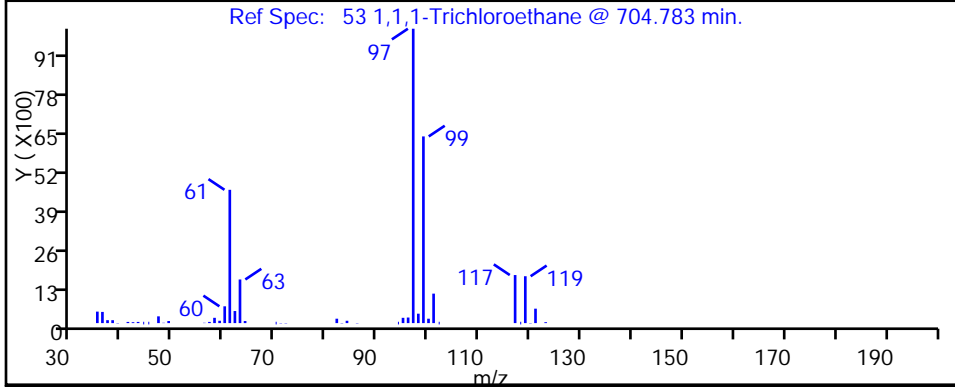
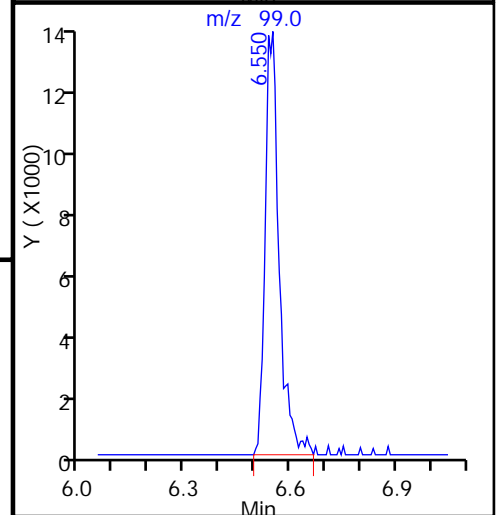
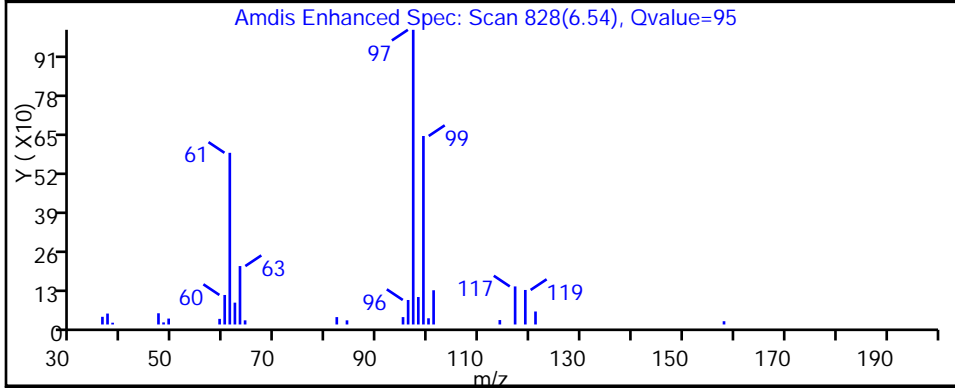
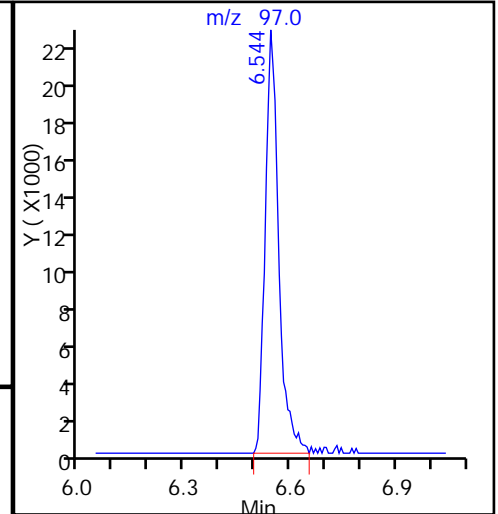
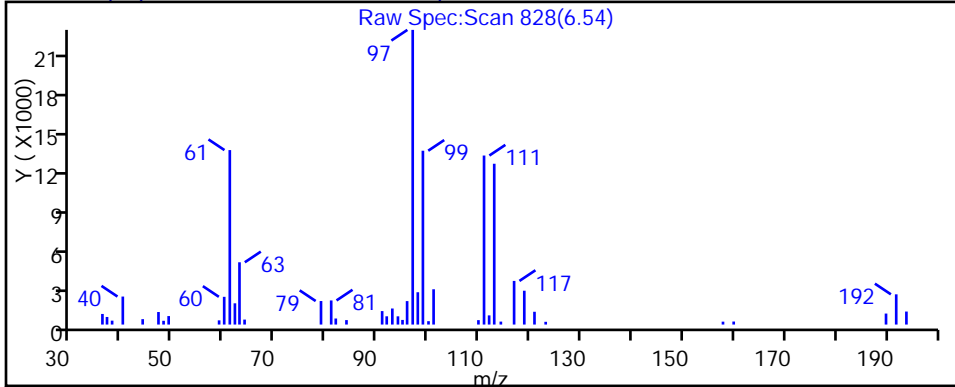
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

53 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005018.D

Injection Date: 05-Oct-2015 17:59:30

Instrument ID: CHHP5

Lims ID: 180-48181-A-5

Lab Sample ID: 180-48181-5

Client ID: HD-MW-75S-0/1-0

Operator ID: 001562

ALS Bottle#: 18 Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 50.0000

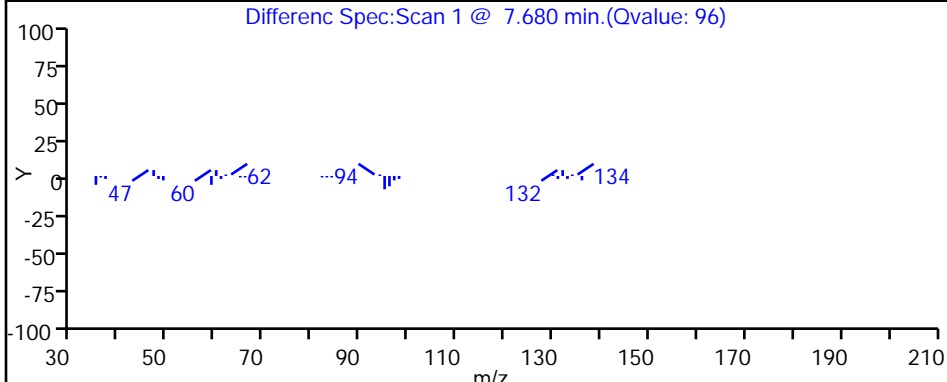
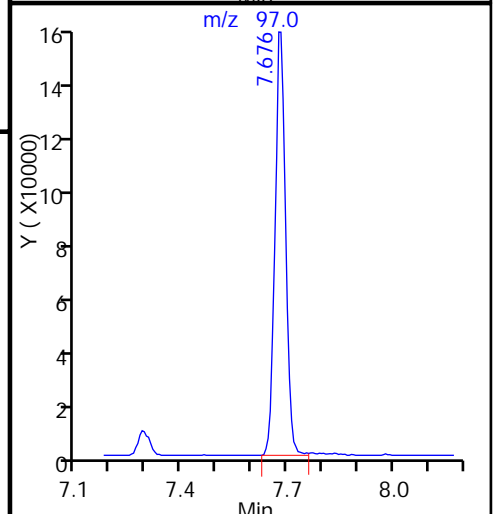
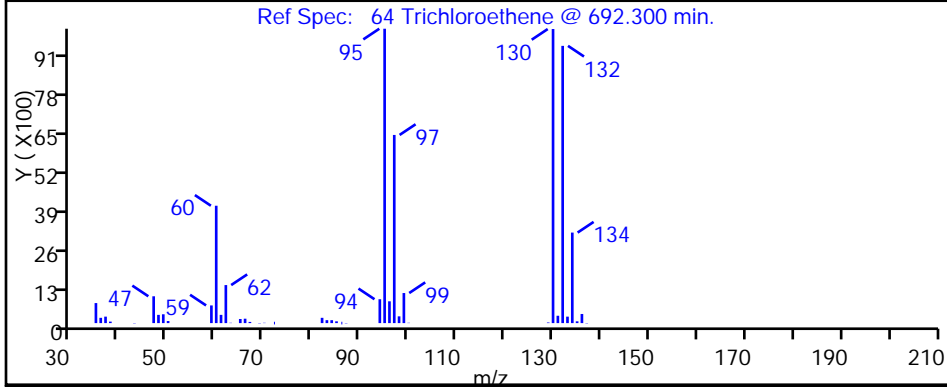
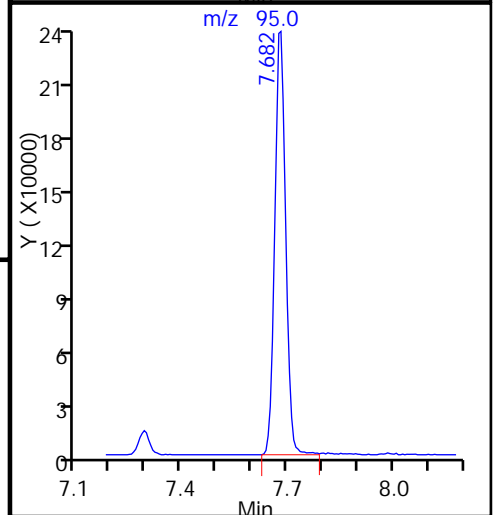
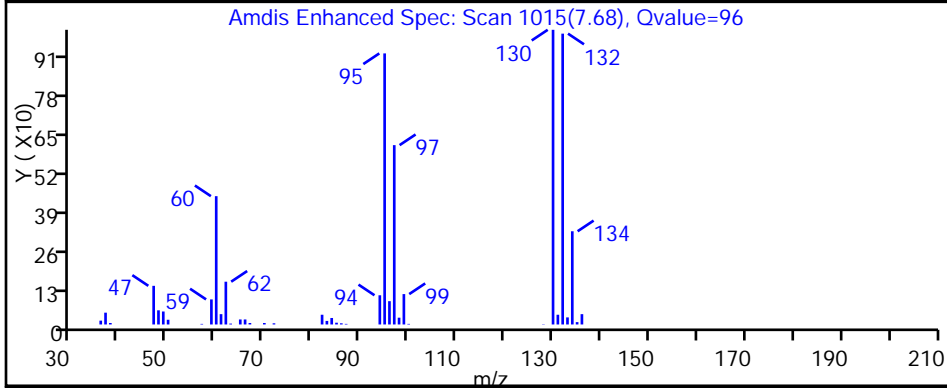
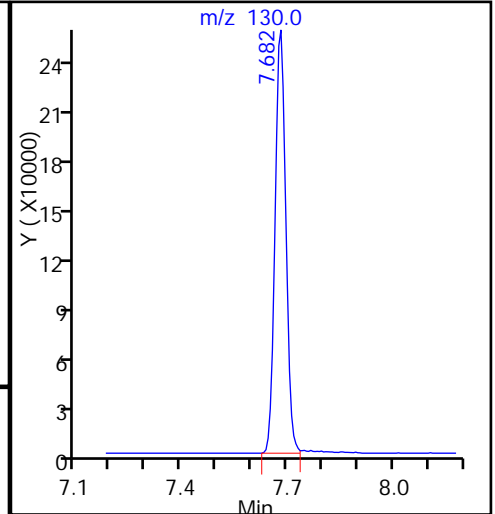
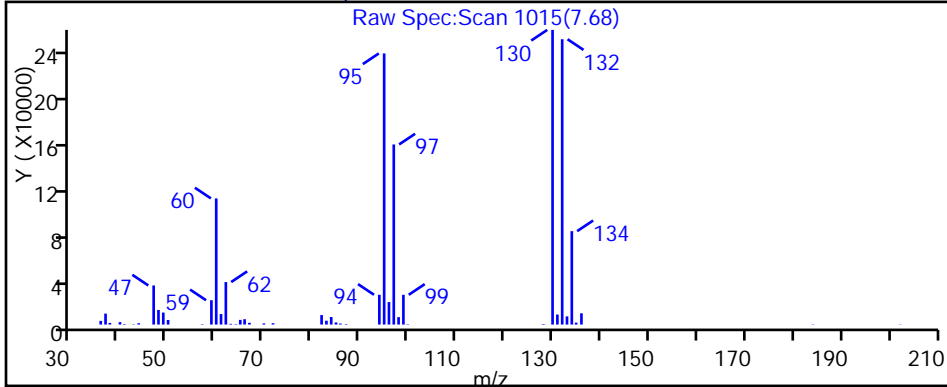
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

64 Trichloroethene, CAS: 79-01-6



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005018.D

Injection Date: 05-Oct-2015 17:59:30

Instrument ID: CHHP5

Lims ID: 180-48181-A-5

Lab Sample ID: 180-48181-5

Client ID: HD-MW-75S-0/1-0

Operator ID: 001562

ALS Bottle#: 18

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 50.0000

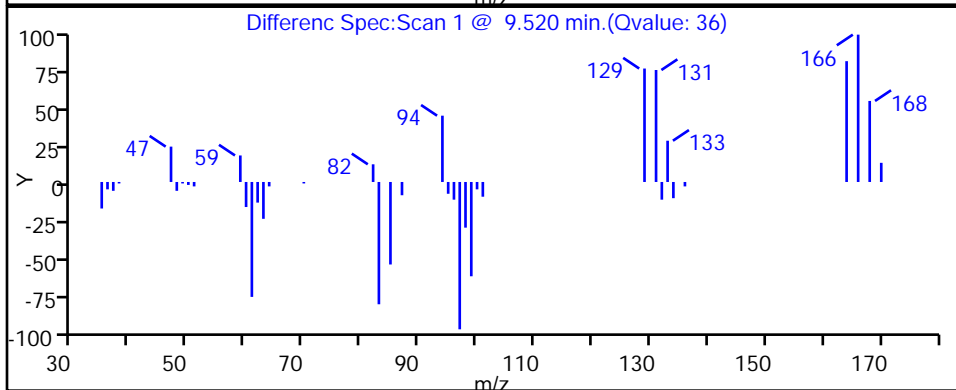
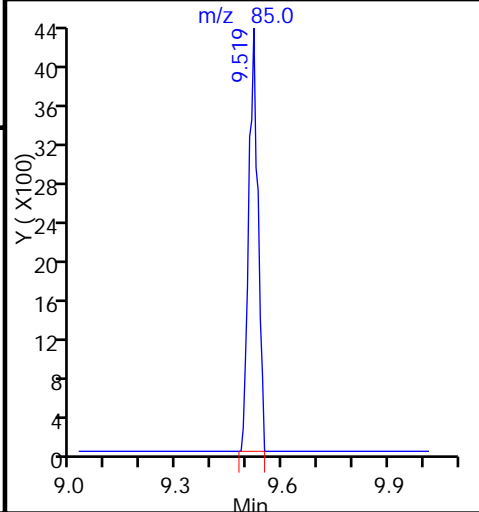
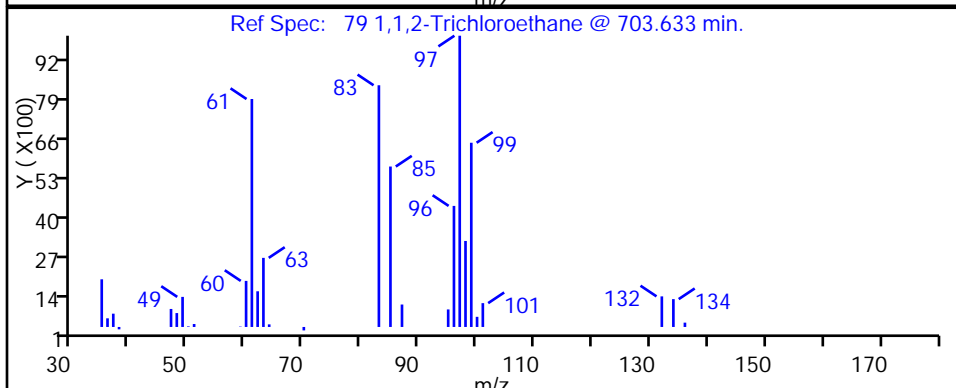
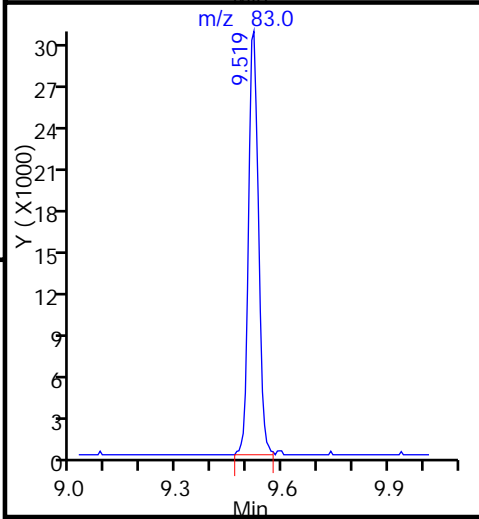
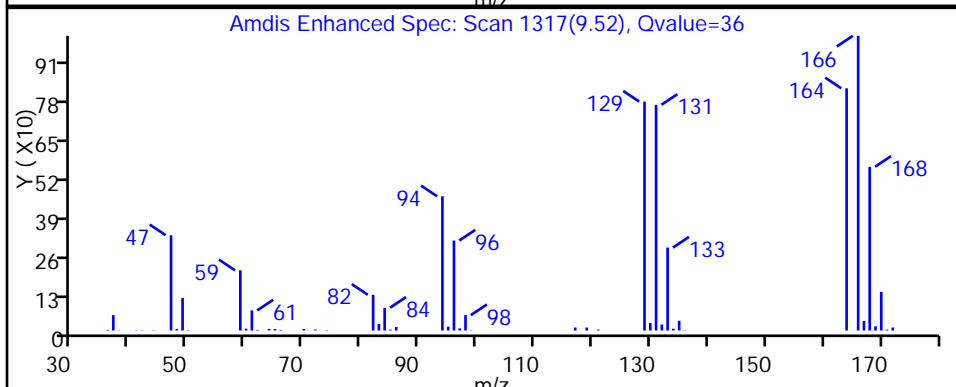
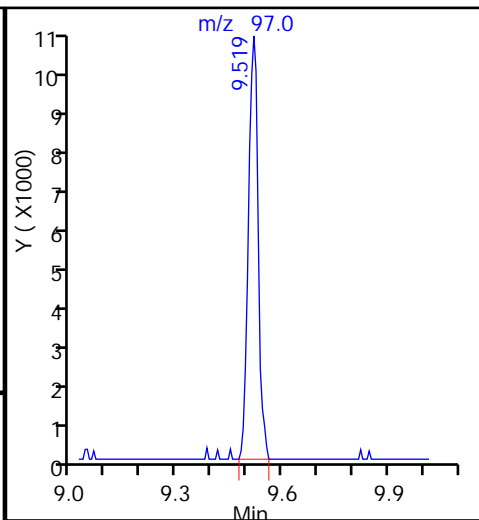
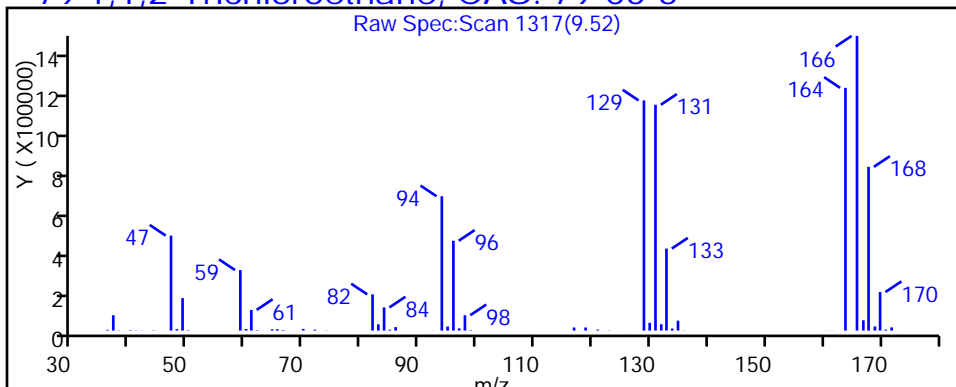
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

79 1,1,2-Trichloroethane, CAS: 79-00-5



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005018.D

Injection Date: 05-Oct-2015 17:59:30

Instrument ID: CHHP5

Lims ID: 180-48181-A-5

Lab Sample ID: 180-48181-5

Client ID: HD-MW-75S-0/1-0

Operator ID: 001562

ALS Bottle#: 18 Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 50.0000

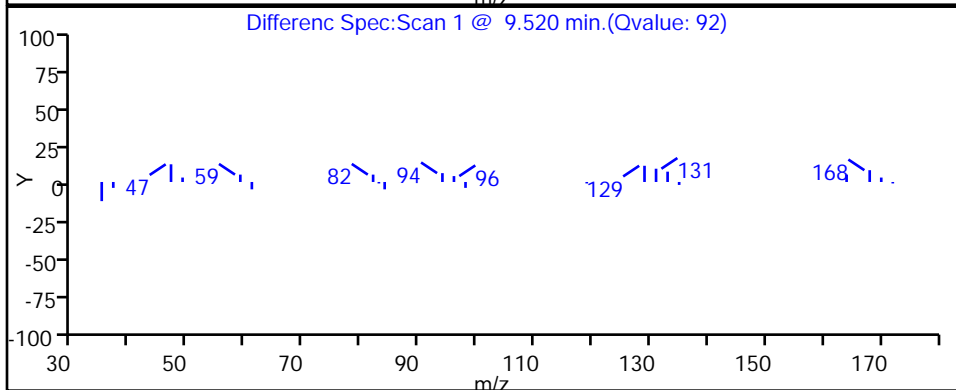
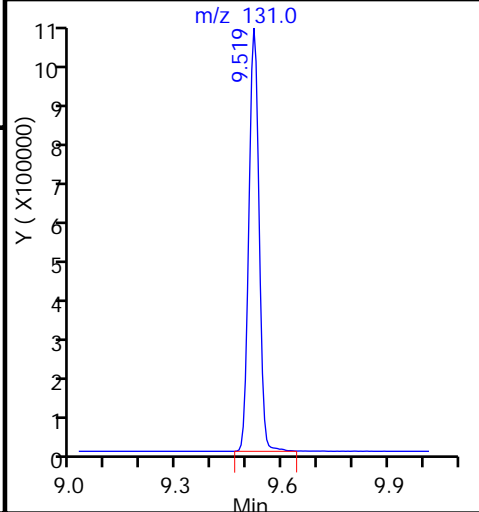
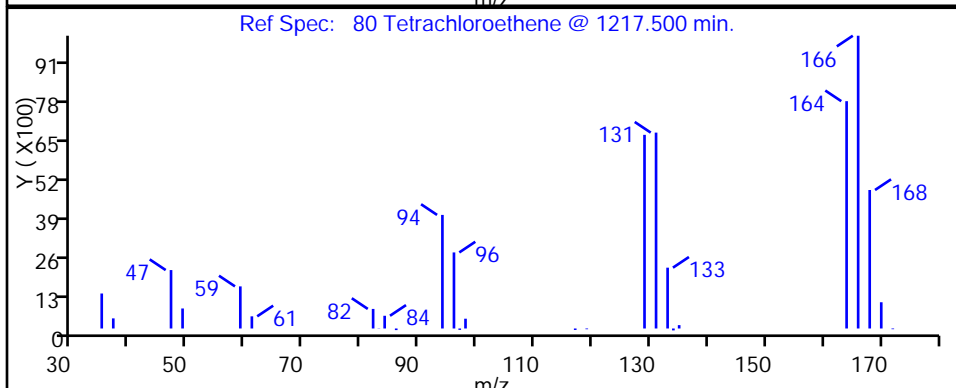
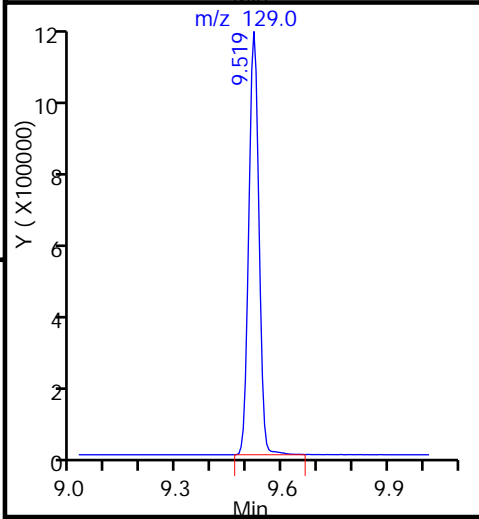
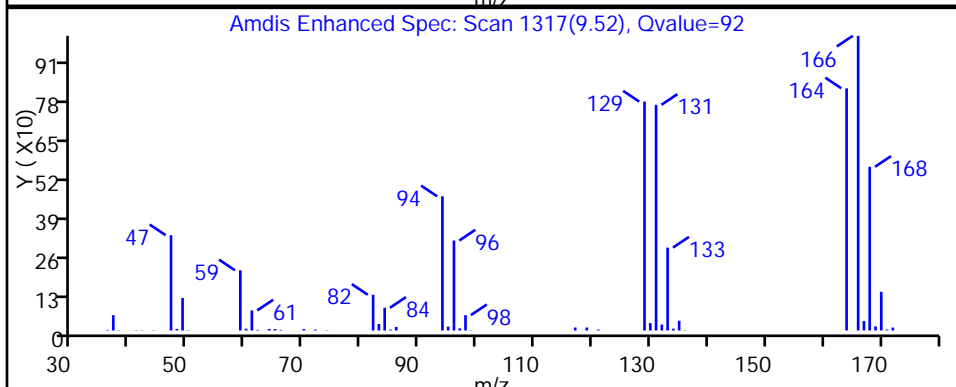
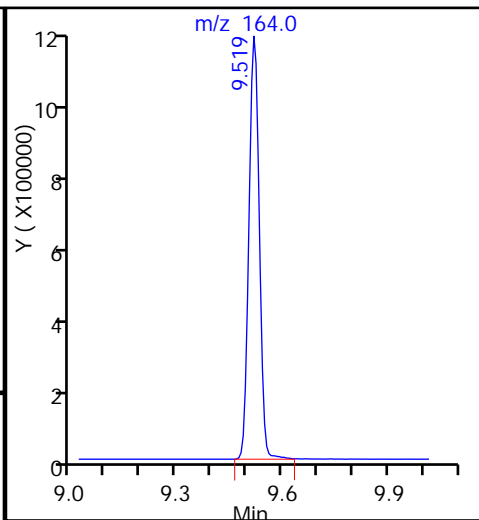
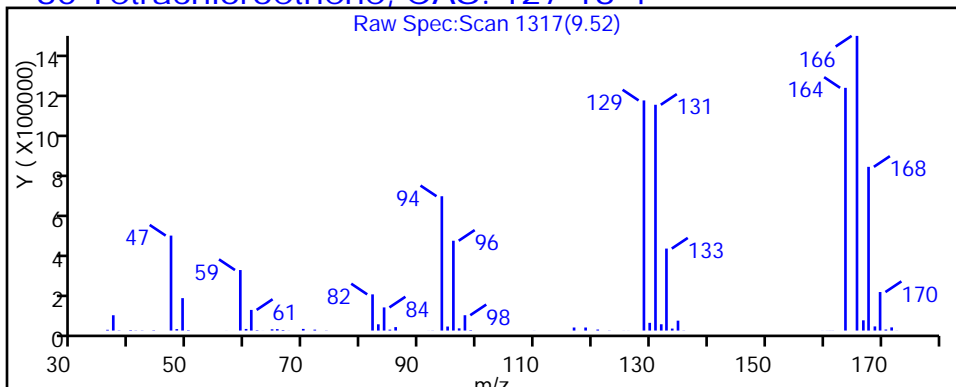
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

80 Tetrachloroethene, CAS: 127-18-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-MW-75S-0/1-0 DL Lab Sample ID: 180-48181-5 DL
 Matrix: Water Lab File ID: 51006015.D
 Analysis Method: 8260C Date Collected: 09/25/2015 13:47
 Sample wt/vol: 5 (mL) Date Analyzed: 10/06/2015 17:56
 Soil Aliquot Vol: _____ Dilution Factor: 500
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 156037 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		500	140
75-01-4	Vinyl chloride	ND		500	110
74-83-9	Bromomethane	ND		500	160
75-00-3	Chloroethane	ND	^c	500	110
75-35-4	1,1-Dichloroethene	ND		500	150
67-64-1	Acetone	ND		2500	1300
75-15-0	Carbon disulfide	ND		500	110
75-09-2	Methylene Chloride	ND		500	63
156-60-5	trans-1,2-Dichloroethene	ND		500	85
1634-04-4	Methyl tert-butyl ether	ND		500	92
75-34-3	1,1-Dichloroethane	ND		500	58
156-59-2	cis-1,2-Dichloroethene	160	J	500	120
74-97-5	Bromochloromethane	ND		500	90
78-93-3	2-Butanone (MEK)	ND		2500	270
67-66-3	Chloroform	ND		500	85
71-55-6	1,1,1-Trichloroethane	240	J	500	140
56-23-5	Carbon tetrachloride	ND		500	68
71-43-2	Benzene	ND		500	53
107-06-2	1,2-Dichloroethane	ND		500	110
79-01-6	Trichloroethene	2800		500	72
78-87-5	1,2-Dichloropropane	ND		500	47
75-27-4	Bromodichloromethane	ND		500	65
10061-01-5	cis-1,3-Dichloropropene	ND		500	93
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		2500	260
108-88-3	Toluene	ND		500	75
10061-02-6	trans-1,3-Dichloropropene	ND		500	74
79-00-5	1,1,2-Trichloroethane	ND		500	100
127-18-4	Tetrachloroethene	16000		500	74
591-78-6	2-Hexanone	ND		2500	80
124-48-1	Dibromochloromethane	ND		500	68
106-93-4	1,2-Dibromoethane (EDB)	ND		500	90
108-90-7	Chlorobenzene	ND		500	68
630-20-6	1,1,1,2-Tetrachloroethane	ND		500	140
100-41-4	Ethylbenzene	ND		500	110
1330-20-7	Xylenes, Total	ND		1500	240
100-42-5	Styrene	ND		500	48

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-MW-75S-0/1-0 DL Lab Sample ID: 180-48181-5 DL
 Matrix: Water Lab File ID: 51006015.D
 Analysis Method: 8260C Date Collected: 09/25/2015 13:47
 Sample wt/vol: 5 (mL) Date Analyzed: 10/06/2015 17:56
 Soil Aliquot Vol: _____ Dilution Factor: 500
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 156037 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	<i>Bromoform</i>	ND		500	96
79-34-5	<i>1,1,2,2-Tetrachloroethane</i>	ND		500	100
107-13-1	<i>Acrylonitrile</i>	ND		10000	270
123-91-1	<i>1,4-Dioxane</i>	ND		100000	17000

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		64-135
2037-26-5	Toluene-d8 (Surr)	88		71-118
460-00-4	4-Bromofluorobenzene (Surr)	85		70-118
1868-53-7	Dibromofluoromethane (Surr)	107		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006015.D
 Lims ID: 180-48181-B-5 Lab Sample ID: 180-48181-5
 Client ID: HD-MW-75S-0/1-0
 Sample Type: Client
 Inject. Date: 06-Oct-2015 17:56:30 ALS Bottle#: 13 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 500.0000
 Sample Info: 180-48181-B-5, 500x
 Misc. Info.: 180-0008850-015
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 07-Oct-2015 07:53:23 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: fergusond

Date: 07-Oct-2015 07:53:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.268	4.279	-0.011	0	134212	1000.0	
* 2 Fluorobenzene (IS)	96	7.291	7.290	0.001	99	297232	50.0	
* 3 Chlorobenzene-d5	119	10.388	10.387	0.001	86	79617	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.730	12.729	0.001	95	108903	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.567	6.560	0.007	94	77929	53.4	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.938	6.937	0.001	0	91989	45.9	
\$ 7 Toluene-d8 (Surr)	98	8.934	8.939	-0.005	94	271388	44.2	
\$ 8 4-Bromofluorobenzene (Surr	95	11.574	11.573	0.001	90	98250	42.4	
12 Chloromethane	50		1.779				ND	
13 Vinyl chloride	62		1.912				ND	
15 Bromomethane	94		2.247				ND	
16 Chloroethane	64		2.399				ND	
22 1,1-Dichloroethene	96		3.348				ND	
24 Acetone	43		3.451				ND	
26 Carbon disulfide	76		3.652				ND	
31 Methylene Chloride	84		4.133				ND	
33 Acrylonitrile	53		4.528				ND	
34 trans-1,2-Dichloroethene	96		4.565				ND	
35 Methyl tert-butyl ether	73		4.583				ND	
37 1,1-Dichloroethane	63		5.204				ND	
45 cis-1,2-Dichloroethene	96	5.959	5.958	0.001	82	3128	1.63	
46 2-Butanone (MEK)	43		5.964				ND	
49 Chlorobromomethane	128		6.238				ND	
52 Chloroform	83		6.384				ND	
53 1,1,1-Trichloroethane	97	6.549	6.542	0.007	88	5407	2.39	
56 Carbon tetrachloride	117		6.718				ND	
58 Benzene	78		6.943				ND	
59 1,2-Dichloroethane	62		7.022				ND	
64 Trichloroethene	130	7.681	7.679	0.002	97	50332	28.1	
67 1,2-Dichloropropane	63		7.947				ND	
70 1,4-Dioxane	88		8.032				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.233				ND	
74 cis-1,3-Dichloropropene	75		8.677				ND	
75 4-Methyl-2-pentanone (MIBK)	43		8.829				ND	
76 Toluene	91		9.006				ND	
77 trans-1,3-Dichloropropene	75		9.255				ND	
79 1,1,2-Trichloroethane	97		9.450				ND	
80 Tetrachloroethene	164	9.518	9.517	0.001	98	249519	163.1	
82 2-Hexanone	43		9.663				ND	
84 Chlorodibromomethane	129		9.815				ND	
85 Ethylene Dibromide	107		9.930				ND	
87 Chlorobenzene	112		10.417				ND	
89 1,1,1,2-Tetrachloroethane	131		10.514				ND	
90 Ethylbenzene	106		10.514				ND	
91 m-Xylene & p-Xylene	106		10.648				ND	
92 o-Xylene	106		11.031				ND	
93 Styrene	104		11.050				ND	
94 Bromoform	173		11.232				ND	
99 1,1,2,2-Tetrachloroethane	83		11.707				ND	
S 133 Xylenes, Total	106		1.000				ND	

Reagents:

VOA8260INT_00042

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00042

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006015.D

Injection Date: 06-Oct-2015 17:56:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: 180-48181-B-5

Lab Sample ID: 180-48181-5

Worklist Smp#: 15

Client ID: HD-MW-75S-0/1-0

Purge Vol: 5.000 mL

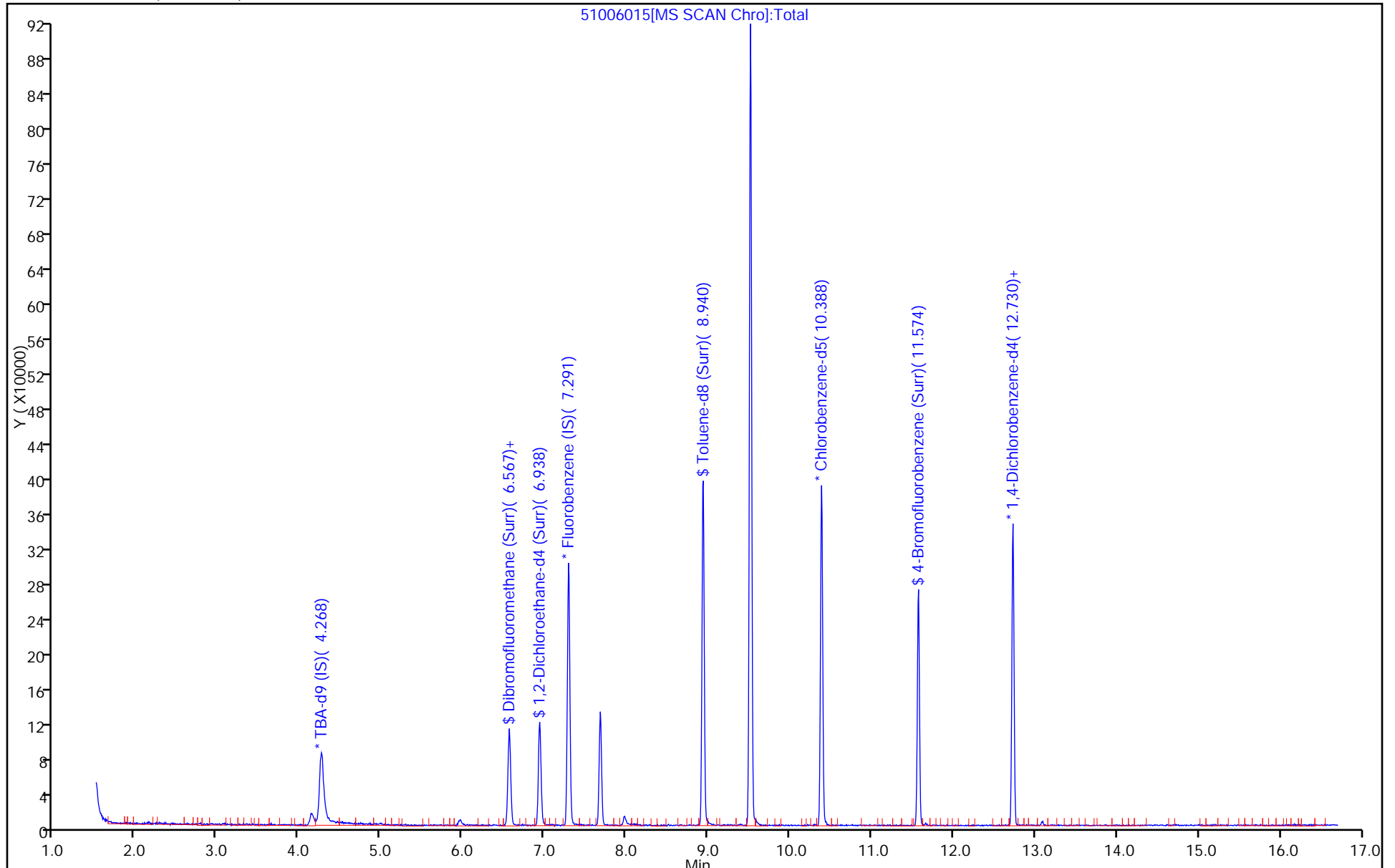
Dil. Factor: 500.0000

ALS Bottle#: 13

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006015.D

Injection Date: 06-Oct-2015 17:56:30

Instrument ID: CHHP5

Lims ID: 180-48181-B-5

Lab Sample ID: 180-48181-5

Client ID: HD-MW-75S-0/1-0

Operator ID: 001562

ALS Bottle#: 13

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 500.0000

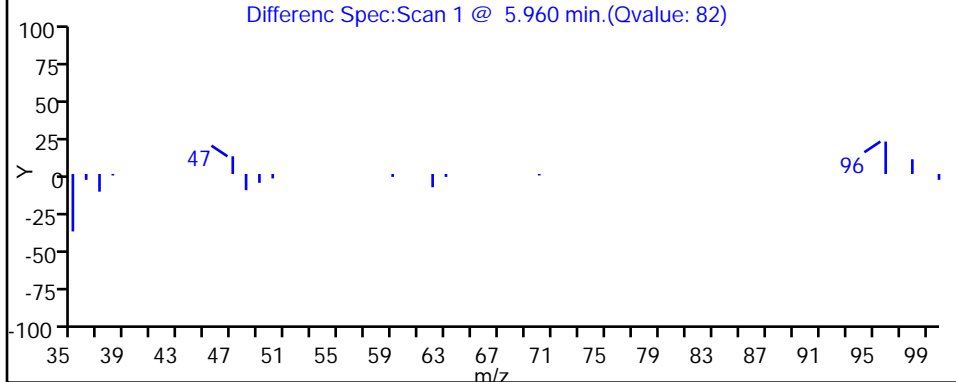
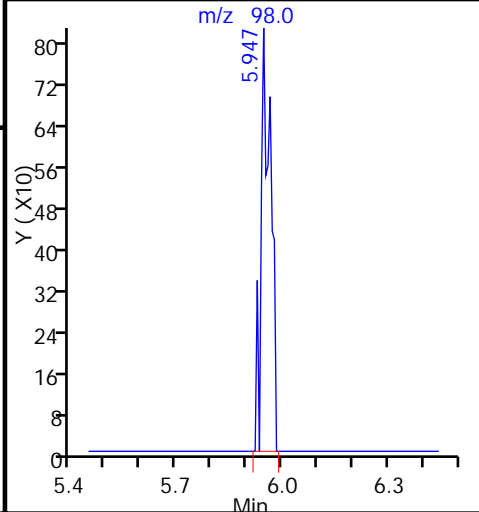
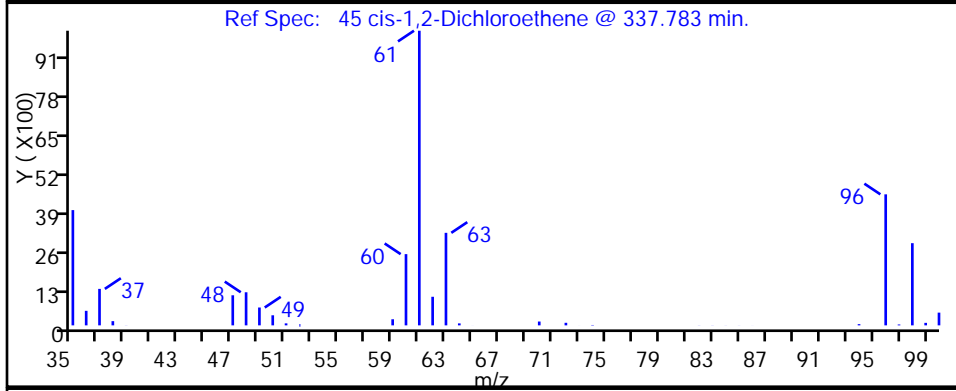
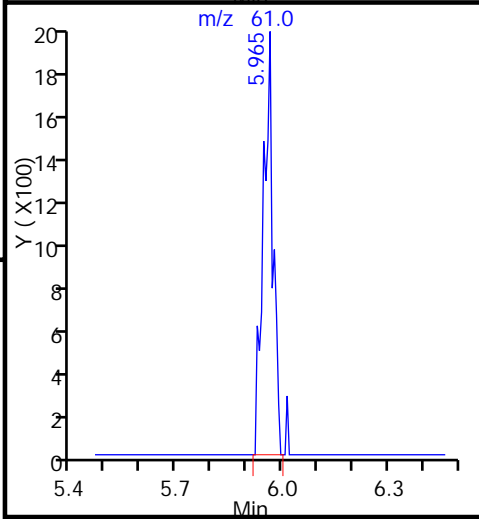
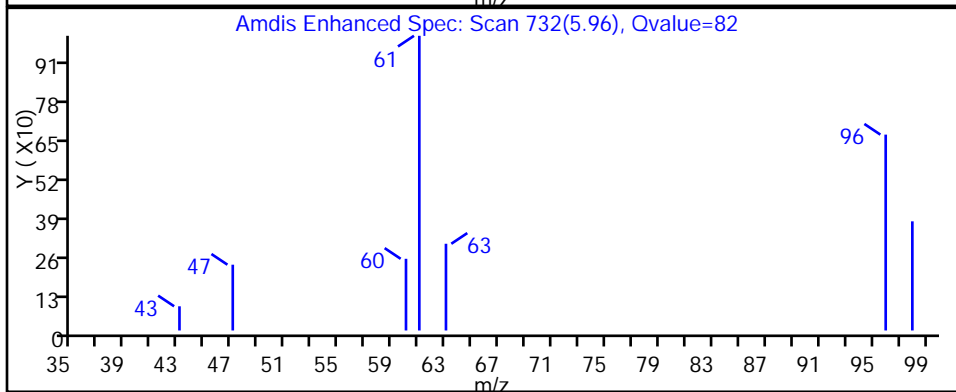
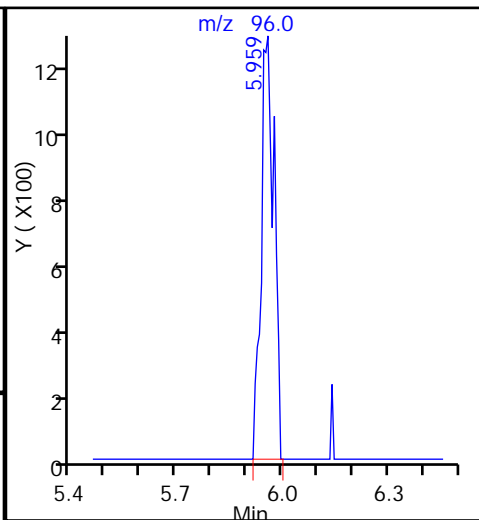
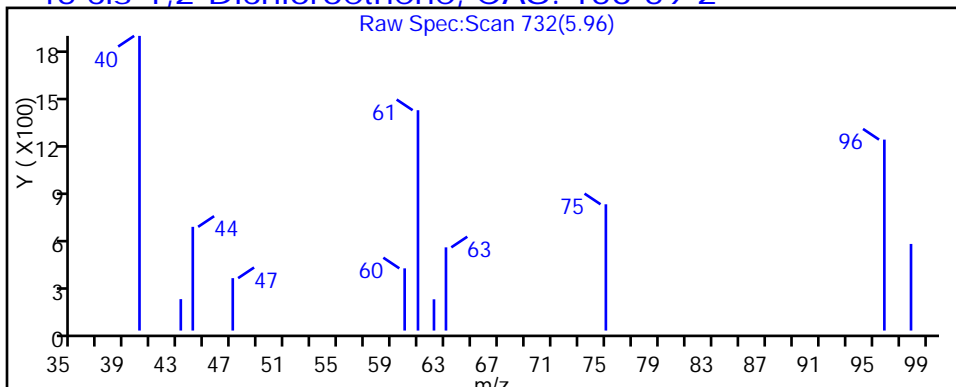
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006015.D

Injection Date: 06-Oct-2015 17:56:30

Instrument ID: CHHP5

Lims ID: 180-48181-B-5

Lab Sample ID: 180-48181-5

Client ID: HD-MW-75S-0/1-0

Operator ID: 001562

ALS Bottle#: 13

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 500.0000

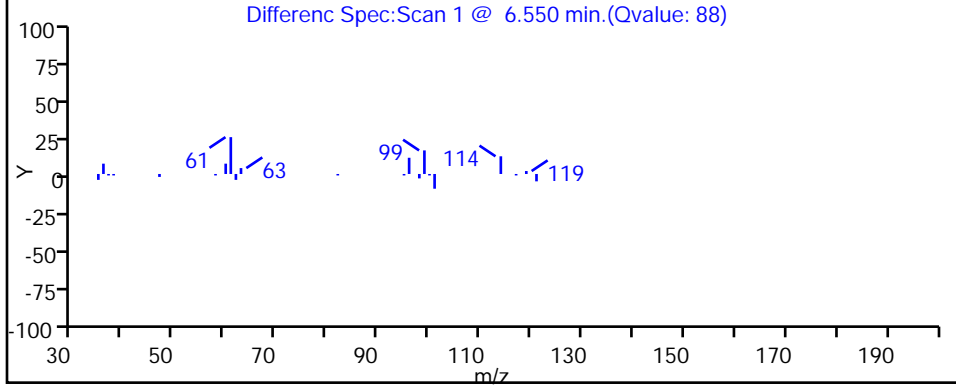
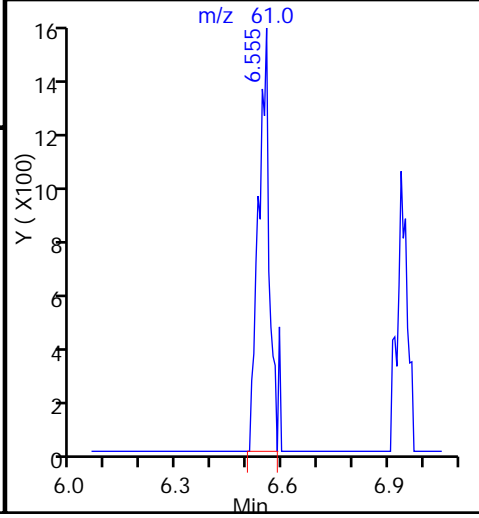
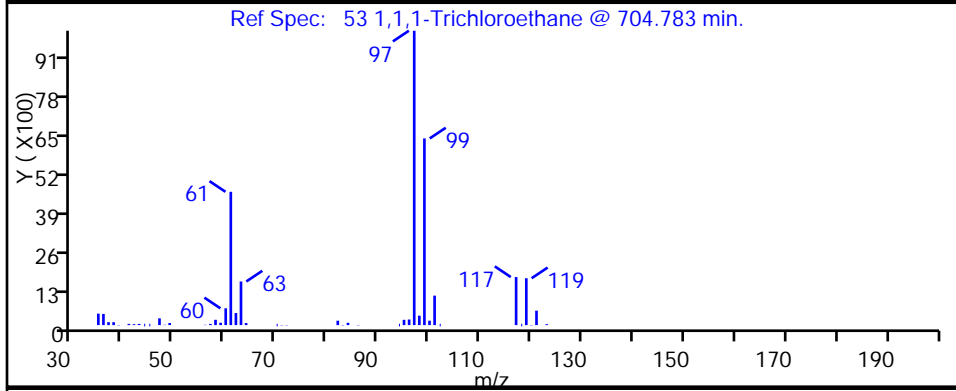
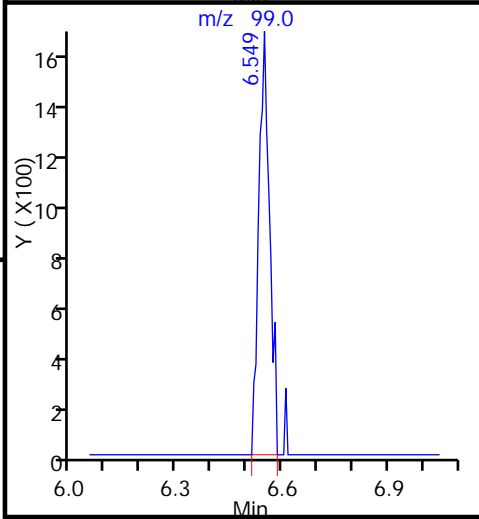
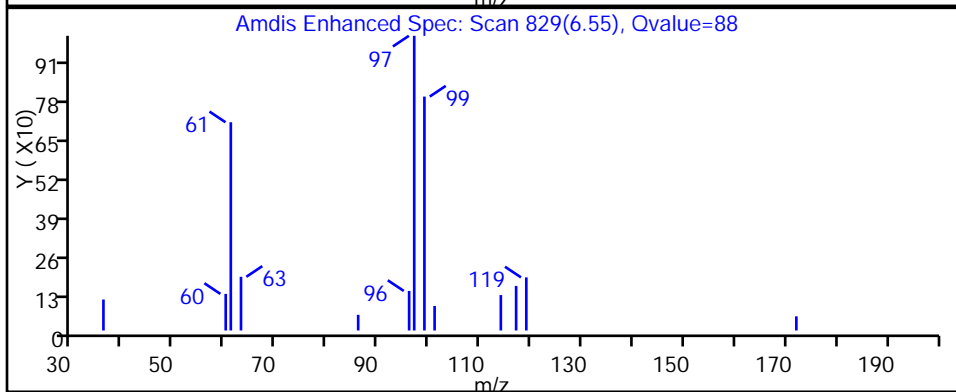
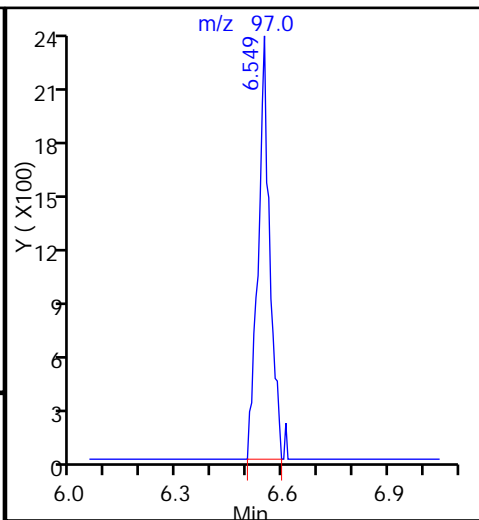
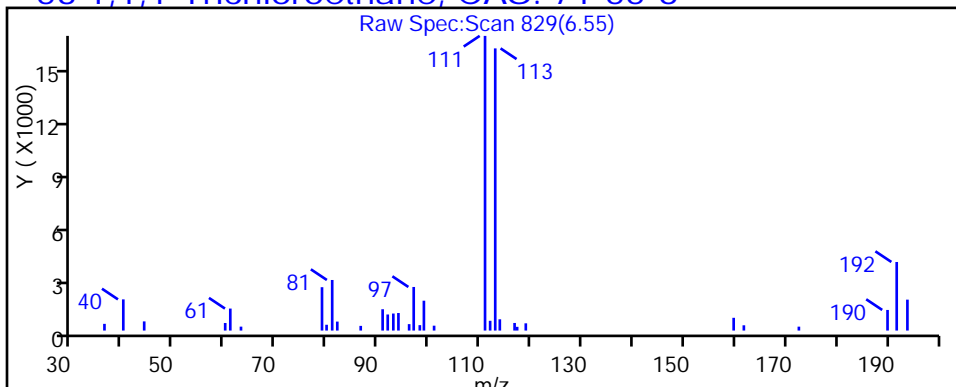
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

53 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006015.D

Injection Date: 06-Oct-2015 17:56:30

Instrument ID: CHHP5

Lims ID: 180-48181-B-5

Lab Sample ID: 180-48181-5

Client ID: HD-MW-75S-0/1-0

Operator ID: 001562

ALS Bottle#: 13

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 500.0000

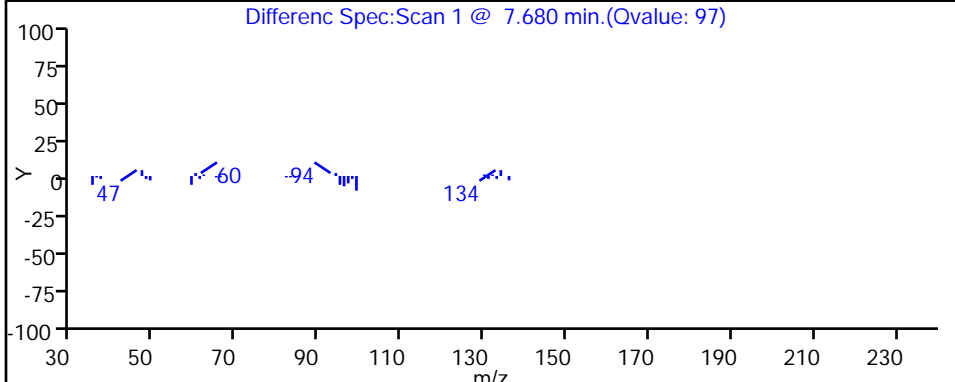
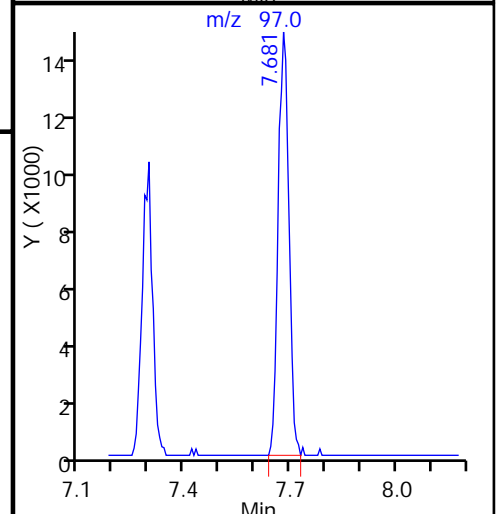
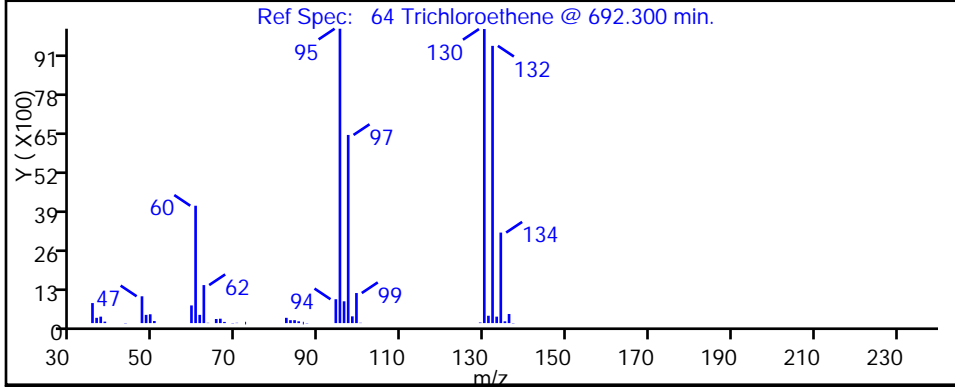
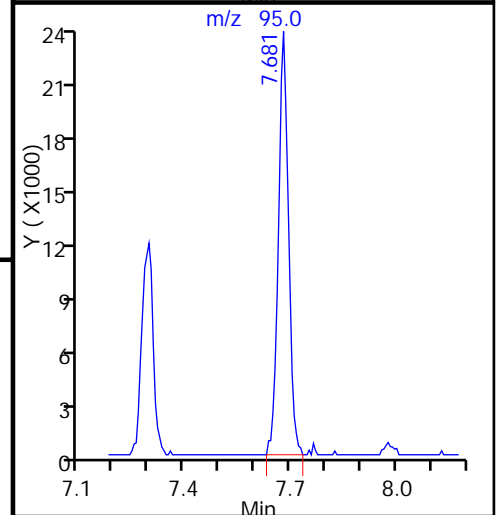
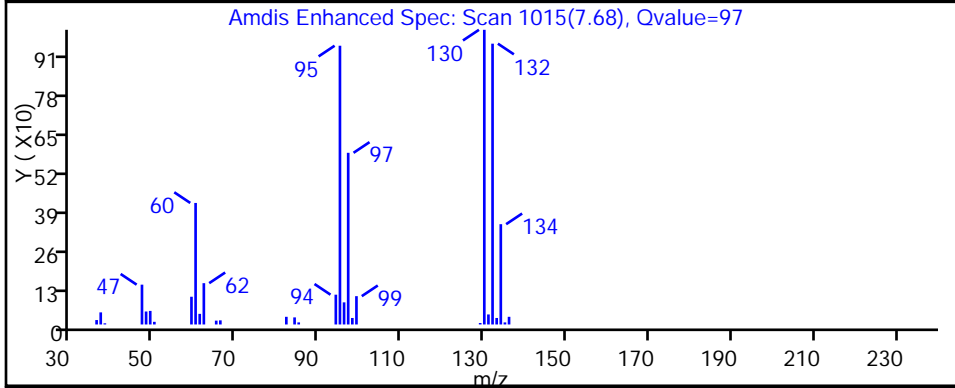
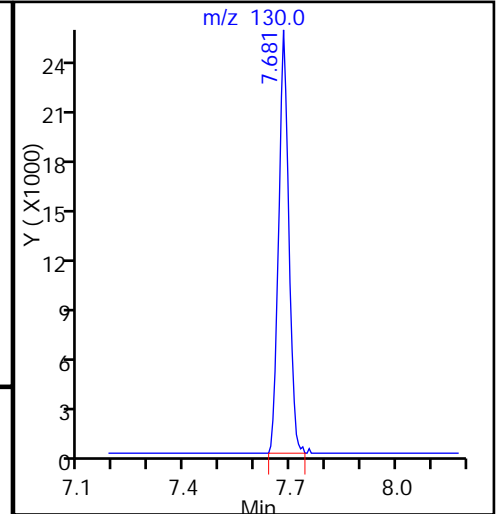
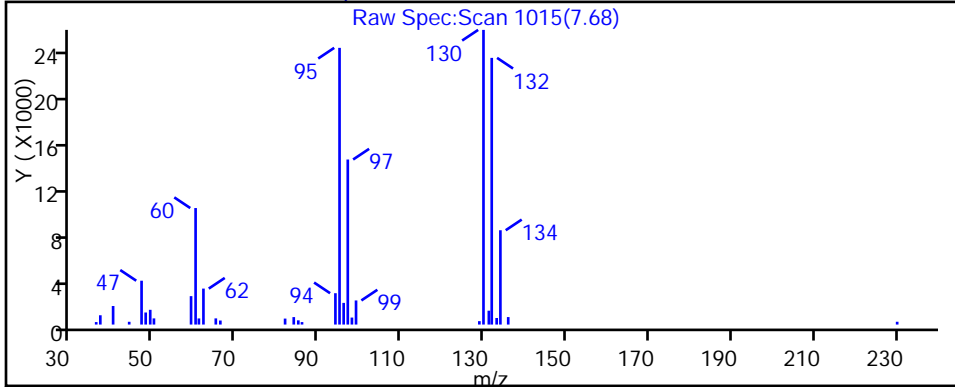
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

64 Trichloroethene, CAS: 79-01-6



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006015.D

Injection Date: 06-Oct-2015 17:56:30

Instrument ID: CHHP5

Lims ID: 180-48181-B-5

Lab Sample ID: 180-48181-5

Client ID: HD-MW-75S-0/1-0

Operator ID: 001562

ALS Bottle#: 13

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 500.0000

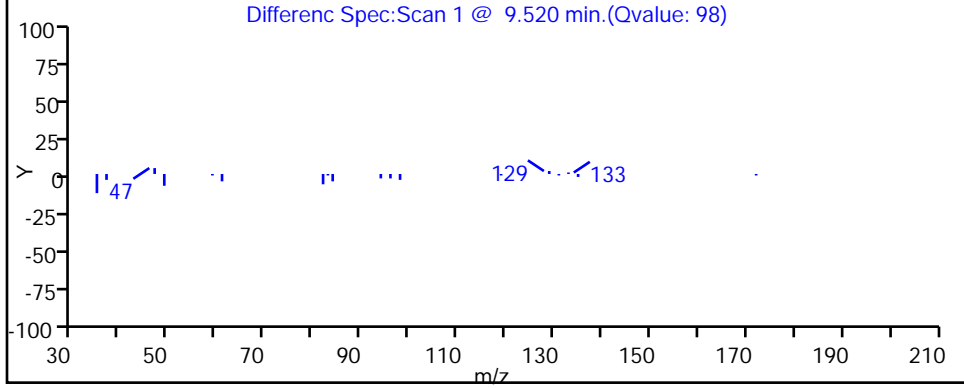
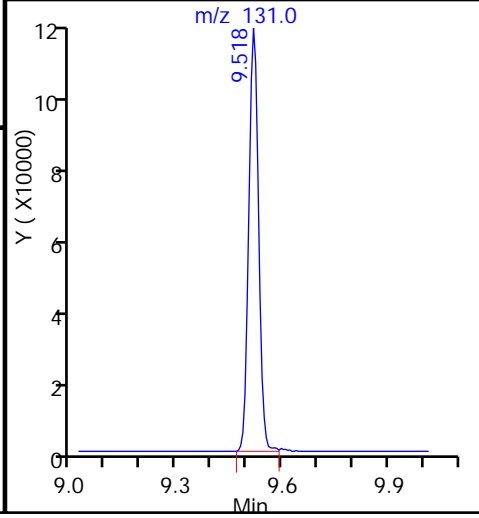
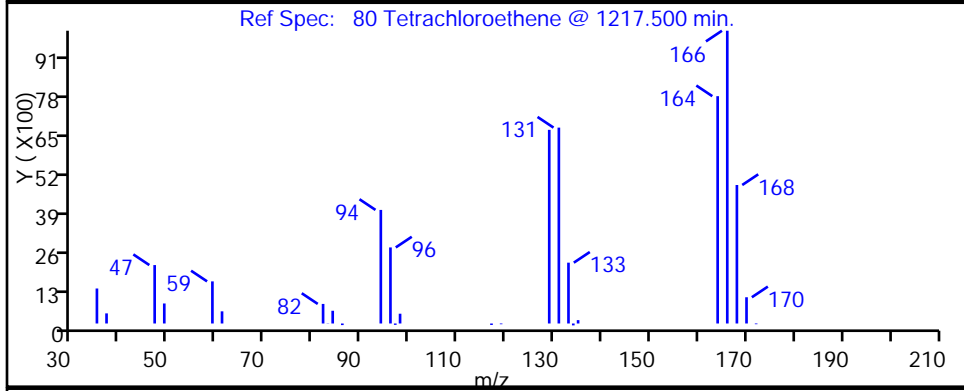
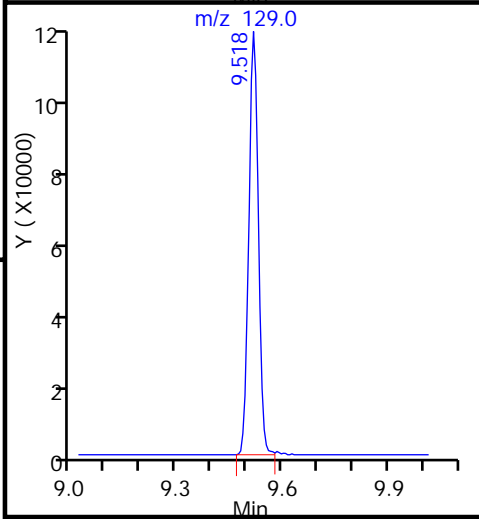
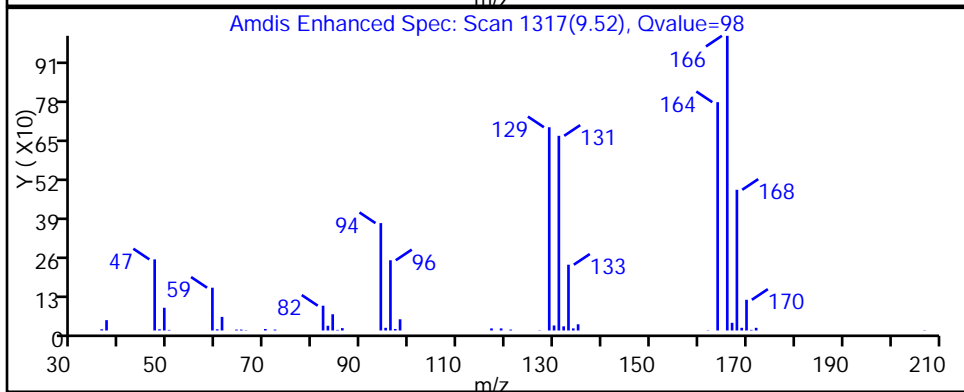
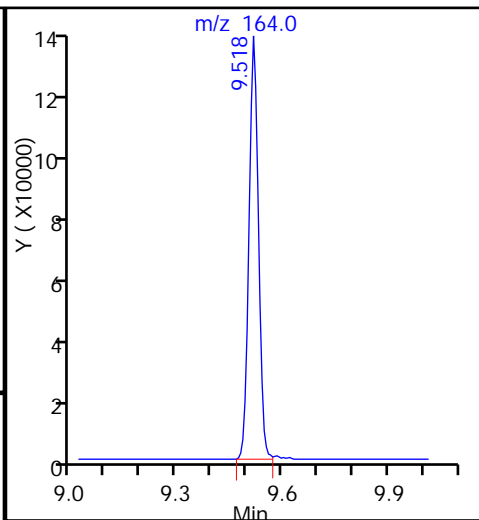
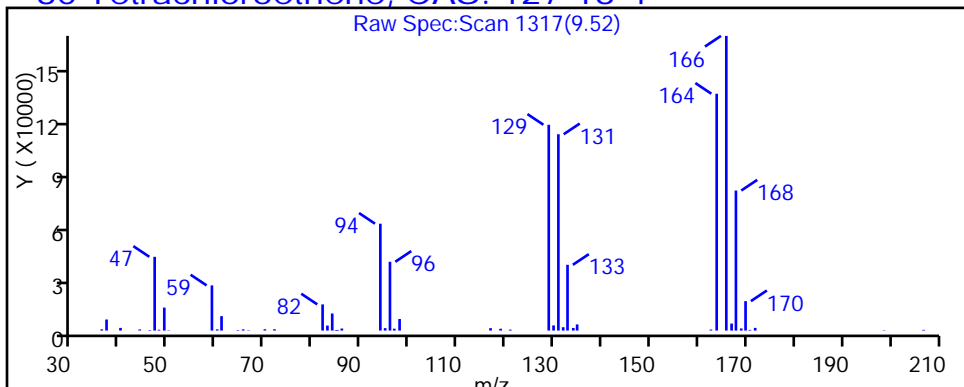
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

80 Tetrachloroethene, CAS: 127-18-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-MW-75D-0/1-0 Lab Sample ID: 180-48181-6
 Matrix: Water Lab File ID: 51005019.D
 Analysis Method: 8260C Date Collected: 09/25/2015 11:12
 Sample wt/vol: 5 (mL) Date Analyzed: 10/05/2015 18:23
 Soil Aliquot Vol: _____ Dilution Factor: 50
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 155884 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		50	14
75-01-4	Vinyl chloride	ND		50	11
74-83-9	Bromomethane	ND		50	16
75-00-3	Chloroethane	ND	^c	50	11
75-35-4	1,1-Dichloroethene	54		50	15
67-64-1	Acetone	ND		250	130
75-15-0	Carbon disulfide	ND		50	11
75-09-2	Methylene Chloride	ND		50	6.3
156-60-5	trans-1,2-Dichloroethene	ND		50	8.5
1634-04-4	Methyl tert-butyl ether	ND		50	9.2
75-34-3	1,1-Dichloroethane	34	J	50	5.8
156-59-2	cis-1,2-Dichloroethene	550		50	12
74-97-5	Bromochloromethane	ND		50	9.0
78-93-3	2-Butanone (MEK)	ND		250	27
67-66-3	Chloroform	ND		50	8.5
71-55-6	1,1,1-Trichloroethane	240		50	14
56-23-5	Carbon tetrachloride	ND		50	6.8
71-43-2	Benzene	ND		50	5.3
107-06-2	1,2-Dichloroethane	ND		50	11
79-01-6	Trichloroethene	3100	E	50	7.2
78-87-5	1,2-Dichloropropane	ND		50	4.7
75-27-4	Bromodichloromethane	ND		50	6.5
10061-01-5	cis-1,3-Dichloropropene	ND		50	9.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	26
108-88-3	Toluene	ND		50	7.5
10061-02-6	trans-1,3-Dichloropropene	ND		50	7.4
79-00-5	1,1,2-Trichloroethane	ND		50	10
127-18-4	Tetrachloroethene	12000	E	50	7.4
591-78-6	2-Hexanone	ND		250	8.0
124-48-1	Dibromochloromethane	ND		50	6.8
106-93-4	1,2-Dibromoethane (EDB)	ND		50	9.0
108-90-7	Chlorobenzene	ND		50	6.8
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	14
100-41-4	Ethylbenzene	ND		50	11
1330-20-7	Xylenes, Total	ND		150	24
100-42-5	Styrene	ND		50	4.8

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-MW-75D-0/1-0 Lab Sample ID: 180-48181-6
 Matrix: Water Lab File ID: 51005019.D
 Analysis Method: 8260C Date Collected: 09/25/2015 11:12
 Sample wt/vol: 5 (mL) Date Analyzed: 10/05/2015 18:23
 Soil Aliquot Vol: _____ Dilution Factor: 50
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 155884 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	ND		50	9.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	10
107-13-1	Acrylonitrile	ND		1000	27
123-91-1	1,4-Dioxane	ND		10000	1700

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		64-135
2037-26-5	Toluene-d8 (Surr)	90		71-118
460-00-4	4-Bromofluorobenzene (Surr)	86		70-118
1868-53-7	Dibromofluoromethane (Surr)	113		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005019.D
 Lims ID: 180-48181-B-6 Lab Sample ID: 180-48181-6
 Client ID: HD-MW-75D-0/1-0
 Sample Type: Client
 Inject. Date: 05-Oct-2015 18:23:30 ALS Bottle#: 19 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 50.0000
 Sample Info: 180-48181-B-6, 50x
 Misc. Info.: 180-0008828-019
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 06-Oct-2015 08:12:27 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: fergusond

Date: 06-Oct-2015 08:12:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.266	4.281	-0.015	0	120544	1000.0	
* 2 Fluorobenzene (IS)	96	7.295	7.292	0.003	98	312294	50.0	
* 3 Chlorobenzene-d5	119	10.392	10.388	0.004	87	86516	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.728	12.730	-0.002	95	116984	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.565	6.568	-0.003	94	86437	56.4	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.936	6.933	0.003	0	102155	48.5	
\$ 7 Toluene-d8 (Surr)	98	8.938	8.940	-0.002	93	299781	44.9	
\$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.575	-0.003	89	108284	43.0	
12 Chloromethane	50		1.774				ND	
13 Vinyl chloride	62		1.908				ND	
15 Bromomethane	94		2.249				ND	
16 Chloroethane	64		2.413				ND	
22 1,1-Dichloroethene	96	3.365	3.344	0.021	93	9411	5.41	
24 Acetone	43		3.441				ND	
26 Carbon disulfide	76		3.636				ND	
31 Methylene Chloride	84		4.141				ND	
33 Acrylonitrile	53		4.524				ND	
34 trans-1,2-Dichloroethene	96		4.566				ND	
35 Methyl tert-butyl ether	73		4.579				ND	
37 1,1-Dichloroethane	63	5.203	5.199	0.004	94	12590	3.38	
45 cis-1,2-Dichloroethene	96	5.957	5.954	0.003	84	110602	54.8	
46 2-Butanone (MEK)	43		5.966				ND	
49 Chlorobromomethane	128		6.233				ND	
52 Chloroform	83		6.379				ND	
53 1,1,1-Trichloroethane	97	6.547	6.550	-0.003	95	56823	23.9	
56 Carbon tetrachloride	117		6.720				ND	
58 Benzene	78		6.945				ND	
59 1,2-Dichloroethane	62		7.024				ND	
64 Trichloroethene	130	7.678	7.675	0.003	96	586867	311.5	E
67 1,2-Dichloropropane	63		7.949				ND	
70 1,4-Dioxane	88		8.034				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.235				ND	
74 cis-1,3-Dichloropropene	75		8.679				ND	
75 4-Methyl-2-pentanone (MIBK)	43		8.825				ND	
76 Toluene	91		9.007				ND	
77 trans-1,3-Dichloropropene	75		9.257				ND	
79 1,1,2-Trichloroethane	97		9.445				ND	
80 Tetrachloroethene	164	9.522	9.518	0.004	94	2027477	1219.5	E
82 2-Hexanone	43		9.658				ND	
84 Chlorodibromomethane	129		9.823				ND	
85 Ethylene Dibromide	107		9.932				ND	
87 Chlorobenzene	112		10.419				ND	
89 1,1,1,2-Tetrachloroethane	131		10.510				ND	
90 Ethylbenzene	106		10.522				ND	
91 m-Xylene & p-Xylene	106		10.650				ND	
92 o-Xylene	106		11.033				ND	
93 Styrene	104		11.051				ND	
94 Bromoform	173		11.228				ND	
99 1,1,2,2-Tetrachloroethane	83		11.708				ND	
S 133 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

VOA8260INT_00042

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00042

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005019.D

Injection Date: 05-Oct-2015 18:23:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: 180-48181-B-6

Lab Sample ID: 180-48181-6

Worklist Smp#: 19

Client ID: HD-MW-75D-0/1-0

Purge Vol: 5.000 mL

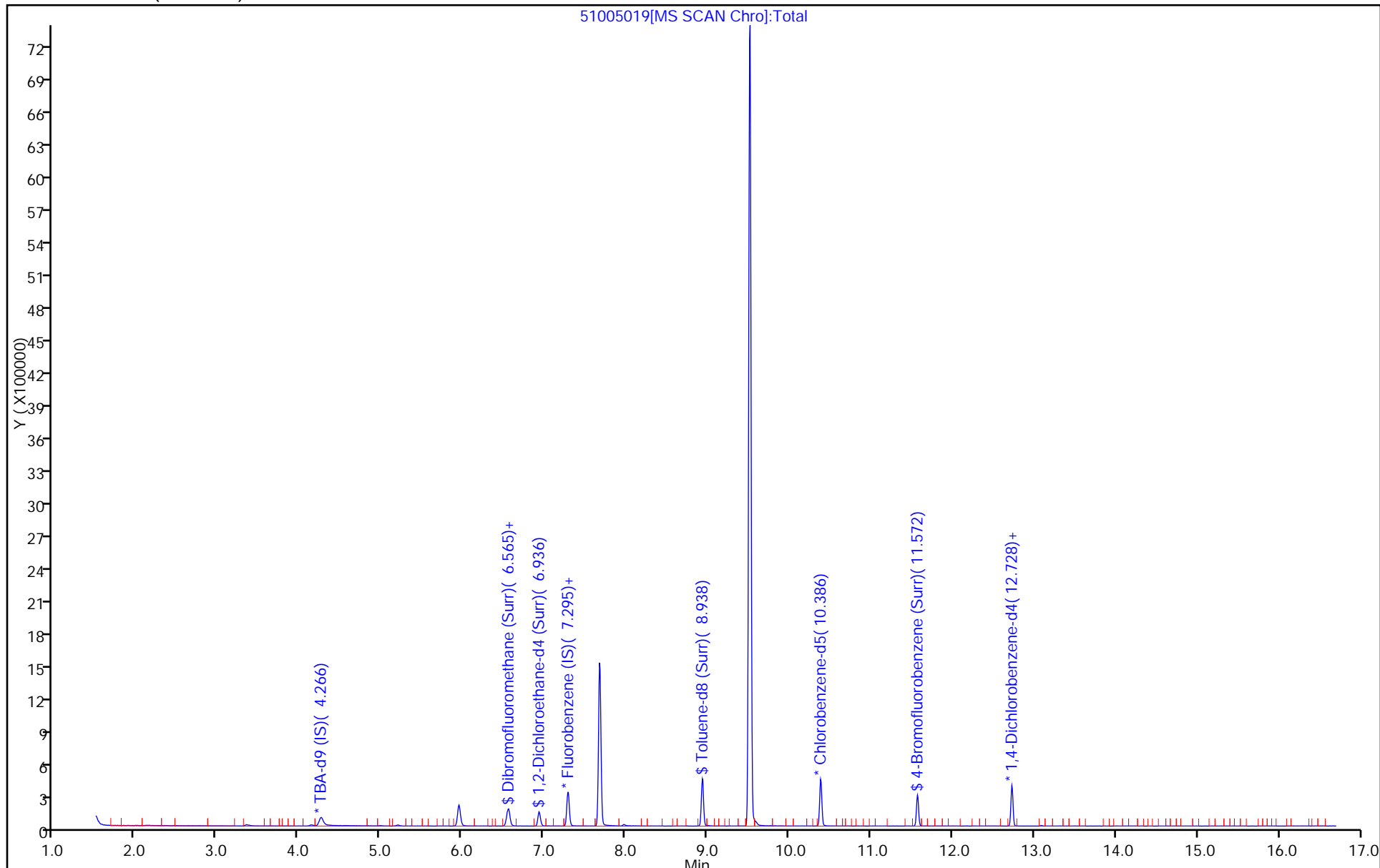
Dil. Factor: 50.0000

ALS Bottle#: 19

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005019.D

Injection Date: 05-Oct-2015 18:23:30

Instrument ID: CHHP5

Lims ID: 180-48181-B-6

Lab Sample ID: 180-48181-6

Client ID: HD-MW-75D-0/1-0

Operator ID: 001562

ALS Bottle#: 19

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 50.0000

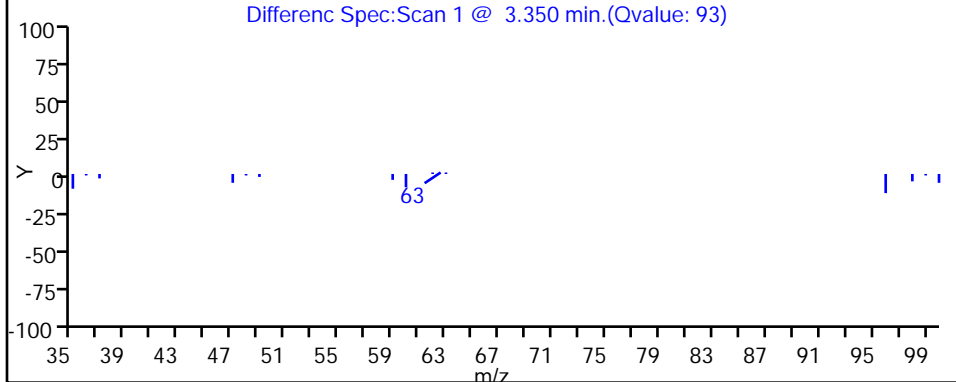
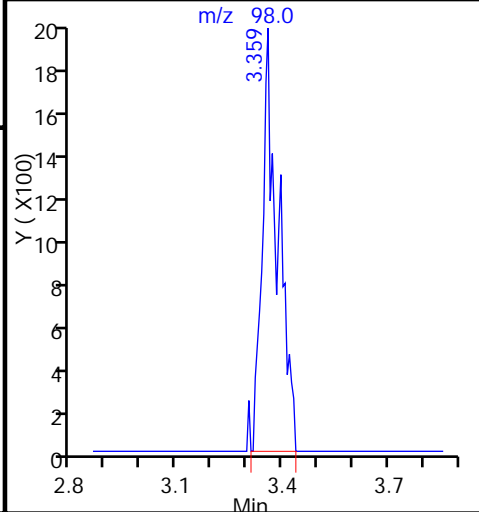
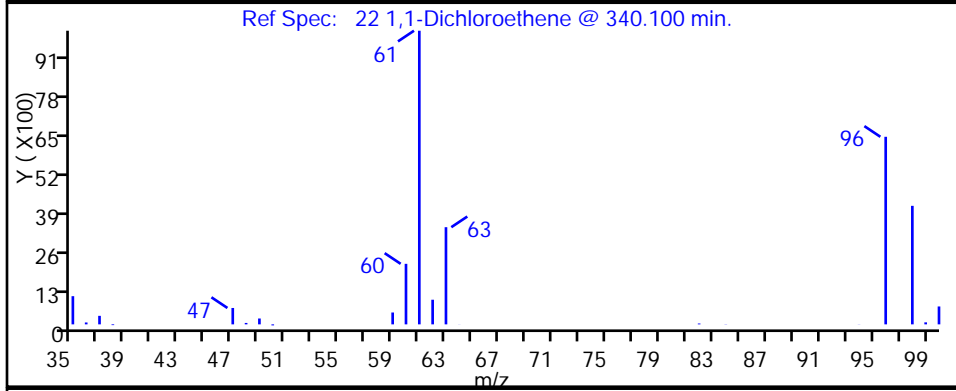
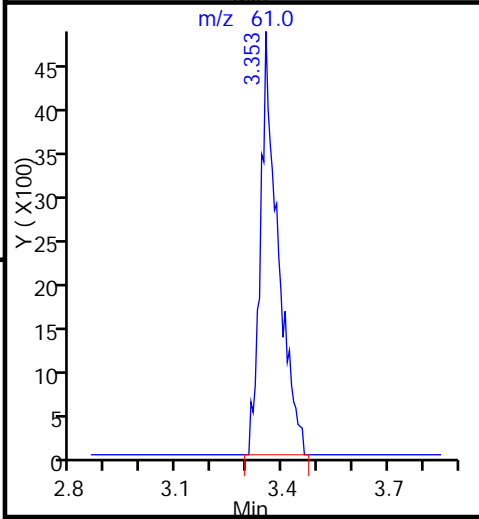
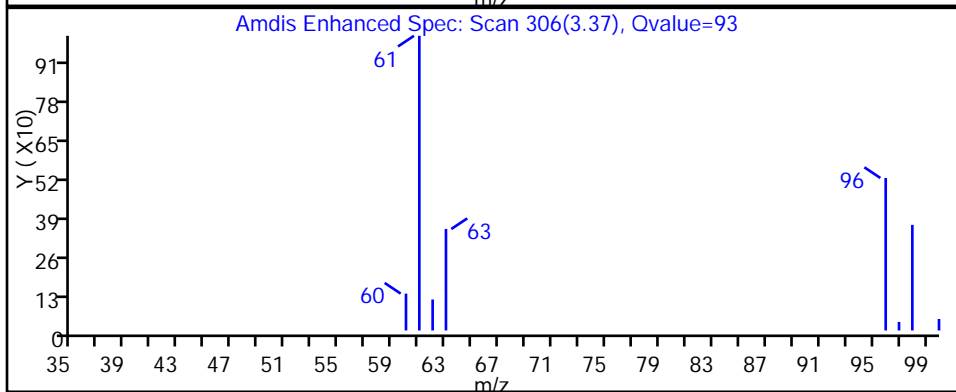
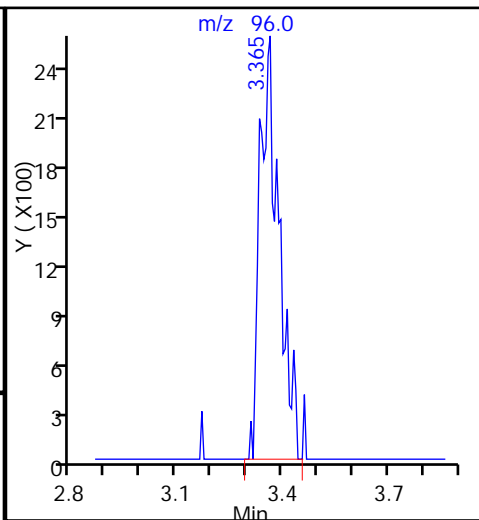
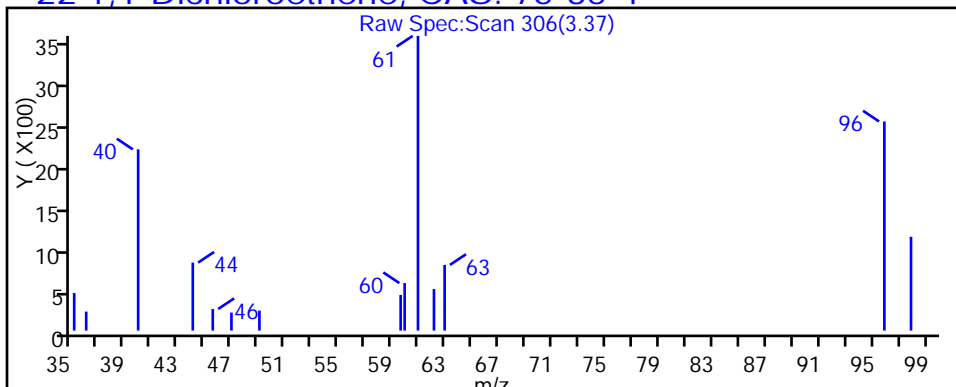
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005019.D

Injection Date: 05-Oct-2015 18:23:30

Instrument ID: CHHP5

Lims ID: 180-48181-B-6

Lab Sample ID: 180-48181-6

Client ID: HD-MW-75D-0/1-0

Operator ID: 001562

ALS Bottle#: 19

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 50.0000

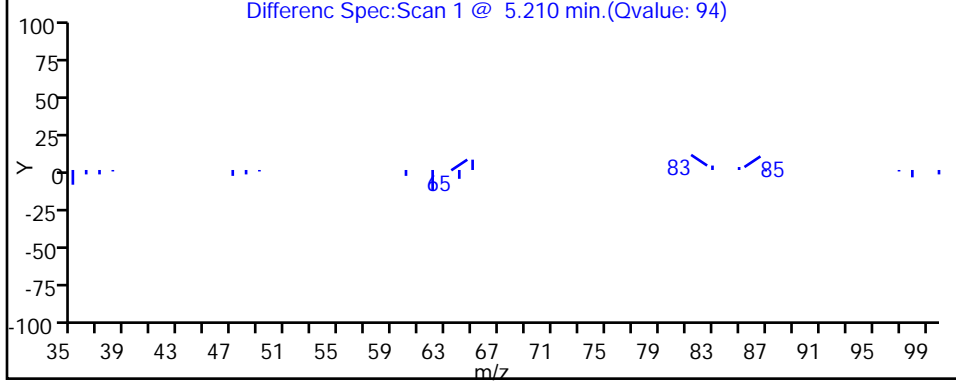
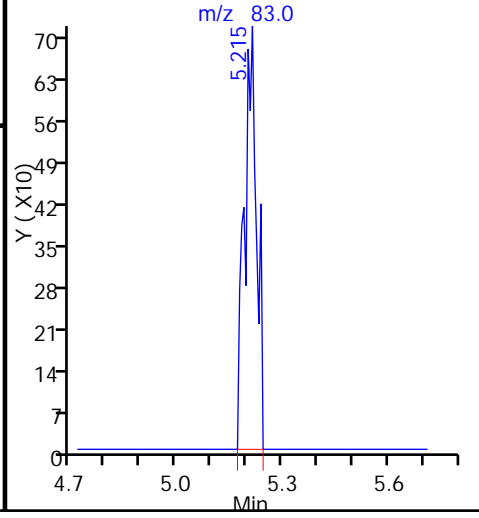
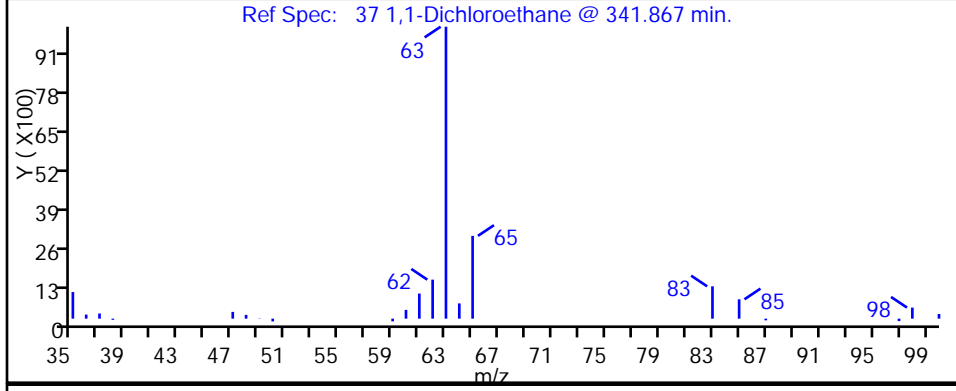
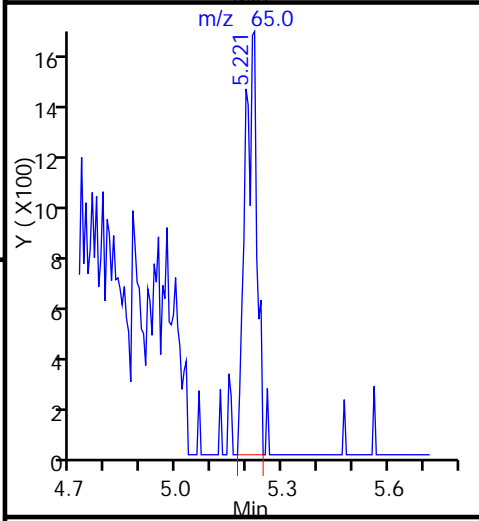
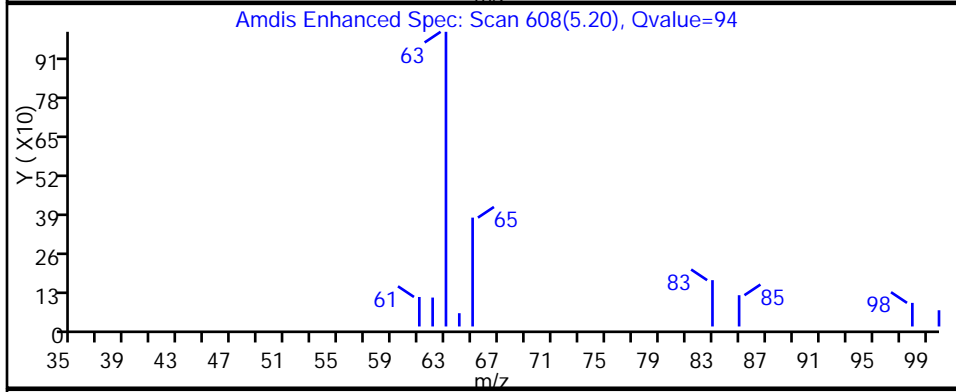
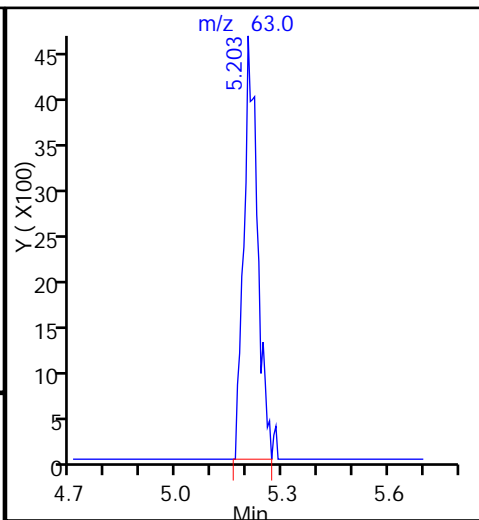
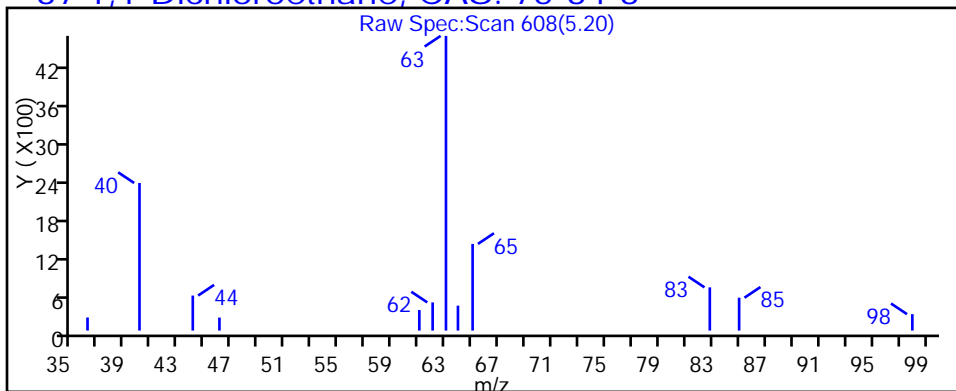
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005019.D

Injection Date: 05-Oct-2015 18:23:30

Instrument ID: CHHP5

Lims ID: 180-48181-B-6

Lab Sample ID: 180-48181-6

Client ID: HD-MW-75D-0/1-0

Operator ID: 001562

ALS Bottle#: 19

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 50.0000

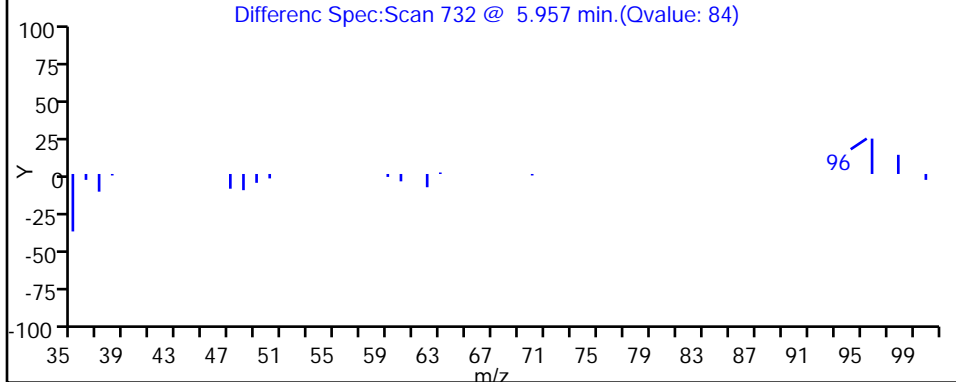
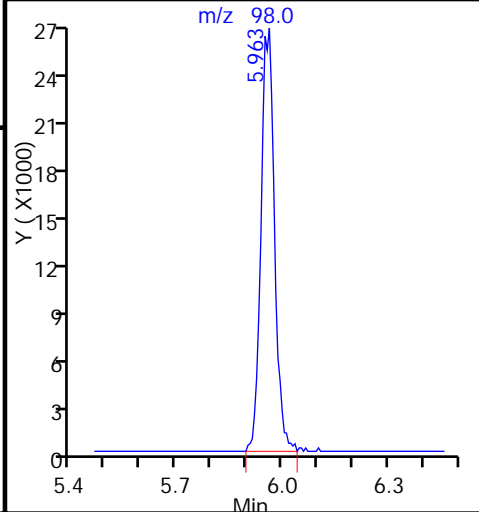
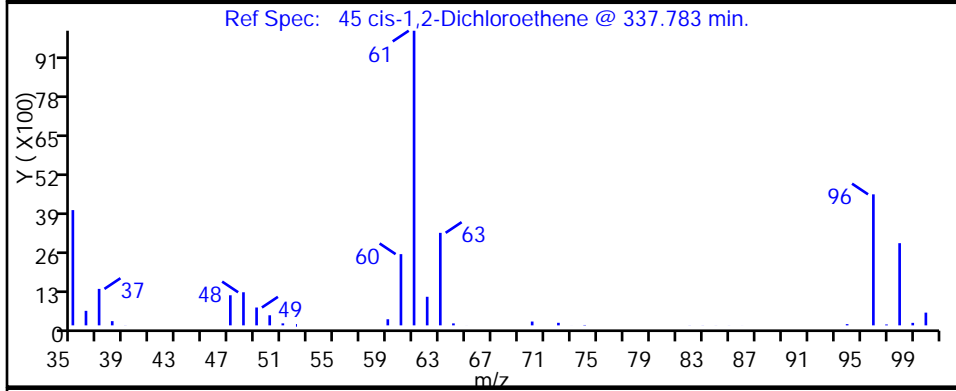
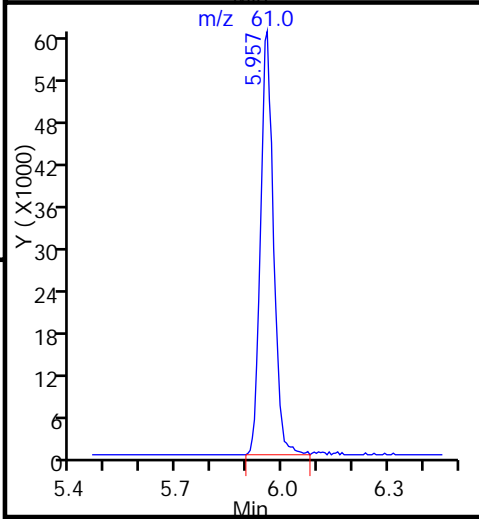
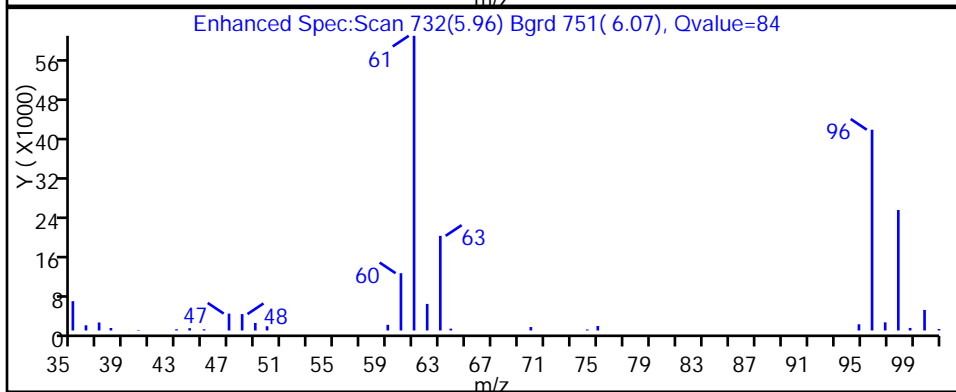
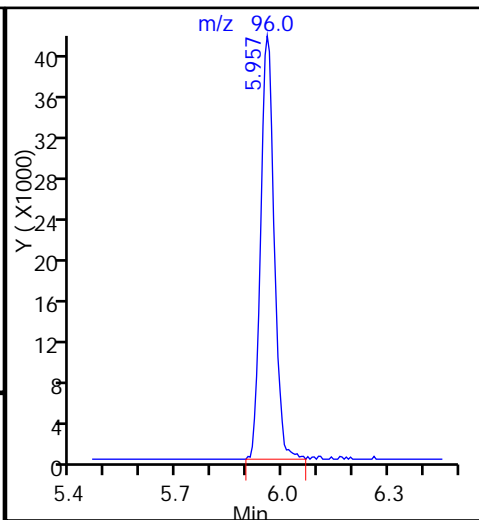
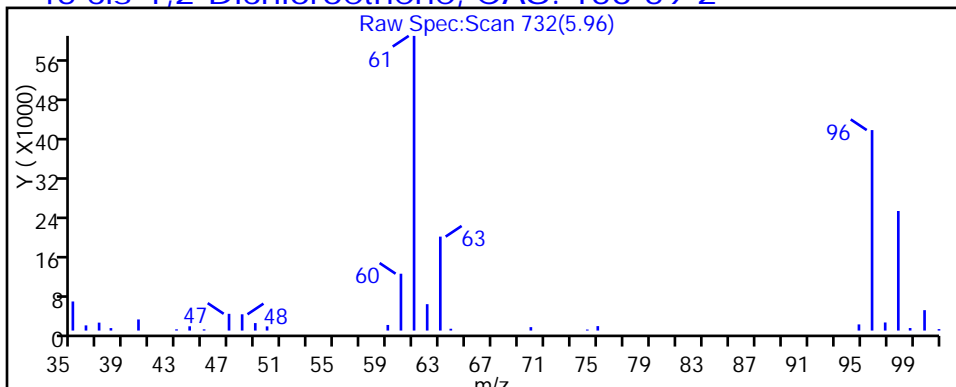
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005019.D

Injection Date: 05-Oct-2015 18:23:30

Instrument ID: CHHP5

Lims ID: 180-48181-B-6

Lab Sample ID: 180-48181-6

Client ID: HD-MW-75D-0/1-0

Operator ID: 001562

ALS Bottle#: 19

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 50.0000

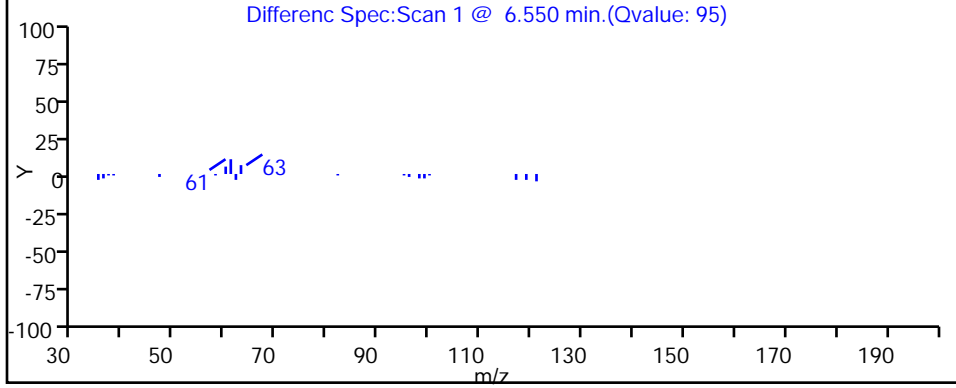
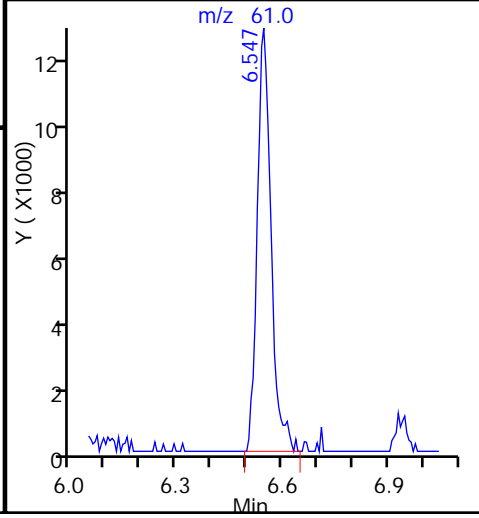
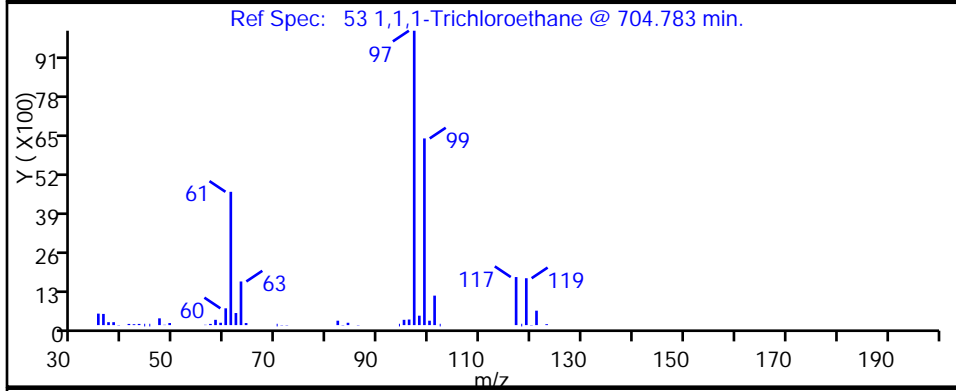
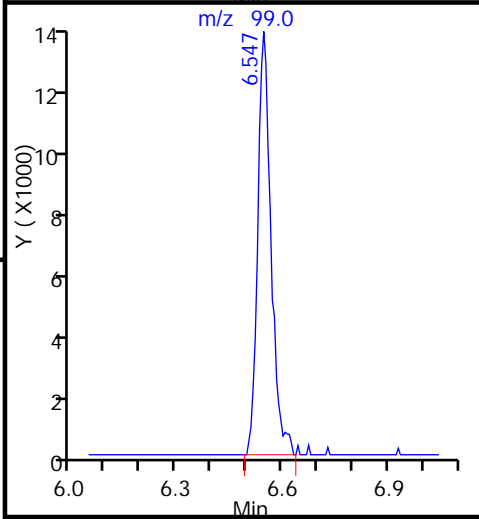
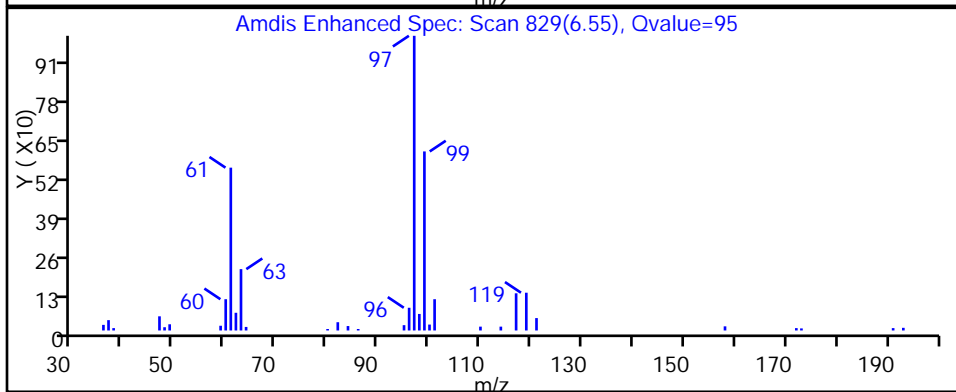
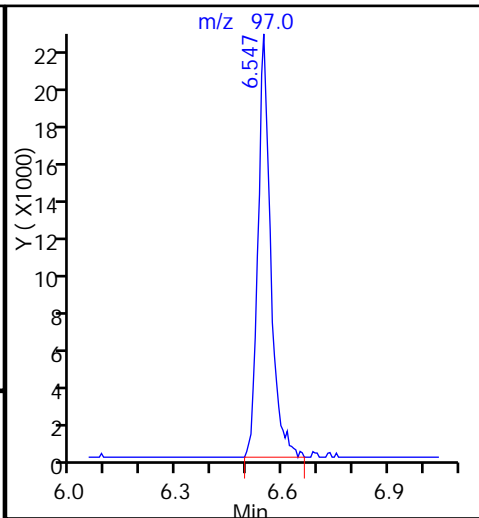
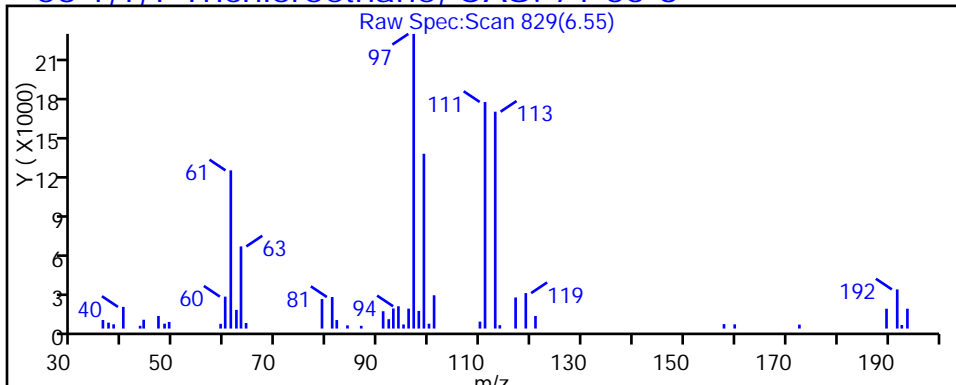
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

53 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005019.D

Injection Date: 05-Oct-2015 18:23:30

Instrument ID: CHHP5

Lims ID: 180-48181-B-6

Lab Sample ID: 180-48181-6

Client ID: HD-MW-75D-0/1-0

Operator ID: 001562

ALS Bottle#: 19

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 50.0000

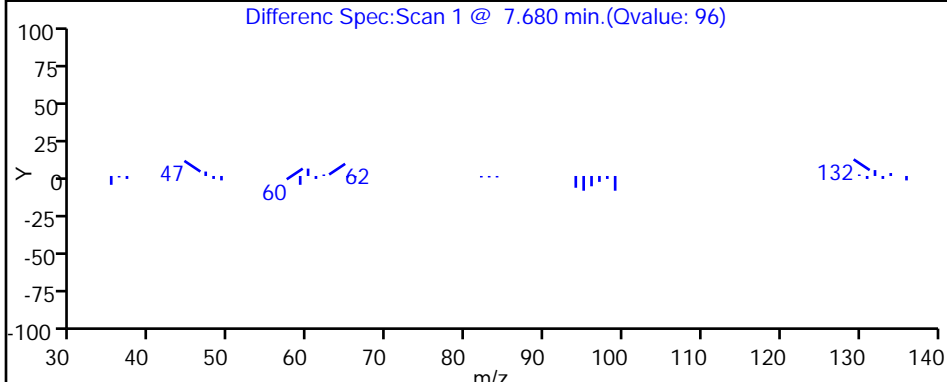
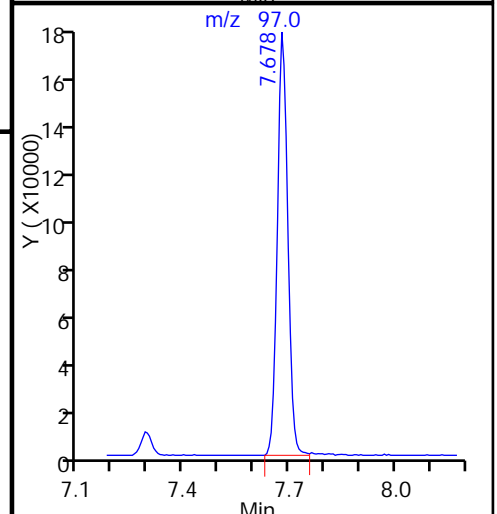
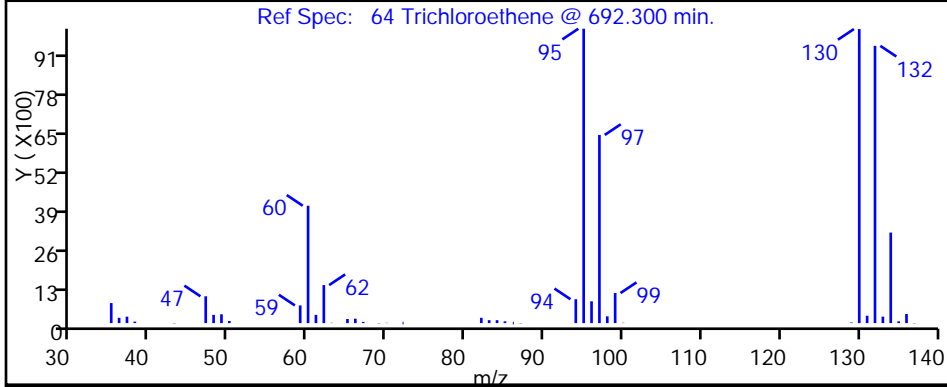
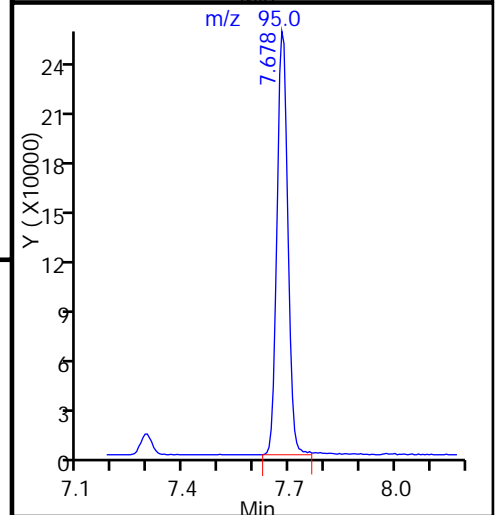
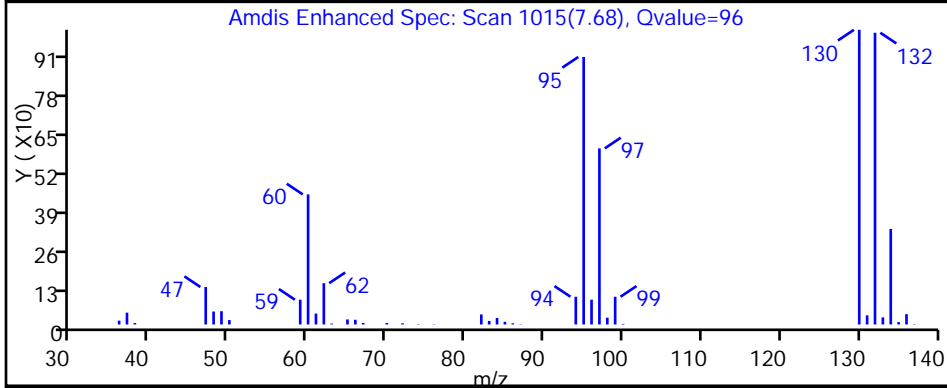
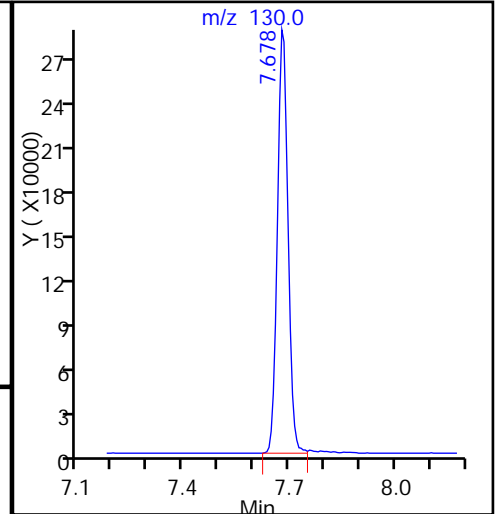
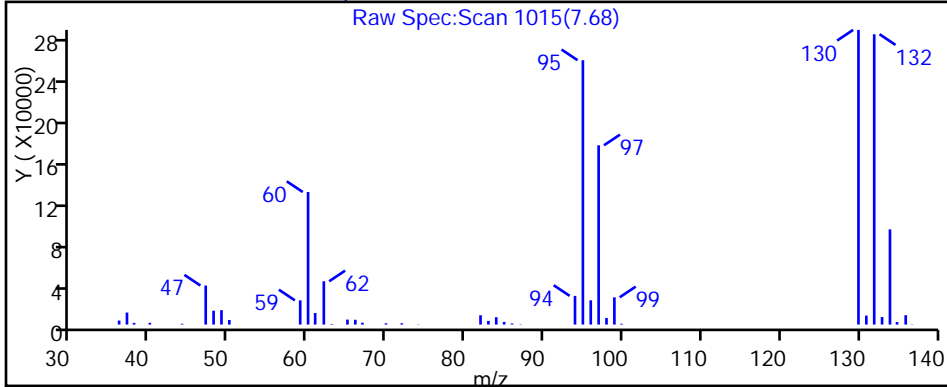
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

64 Trichloroethene, CAS: 79-01-6



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005019.D

Injection Date: 05-Oct-2015 18:23:30

Instrument ID: CHHP5

Lims ID: 180-48181-B-6

Lab Sample ID: 180-48181-6

Client ID: HD-MW-75D-0/1-0

Operator ID: 001562

ALS Bottle#: 19

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 50.0000

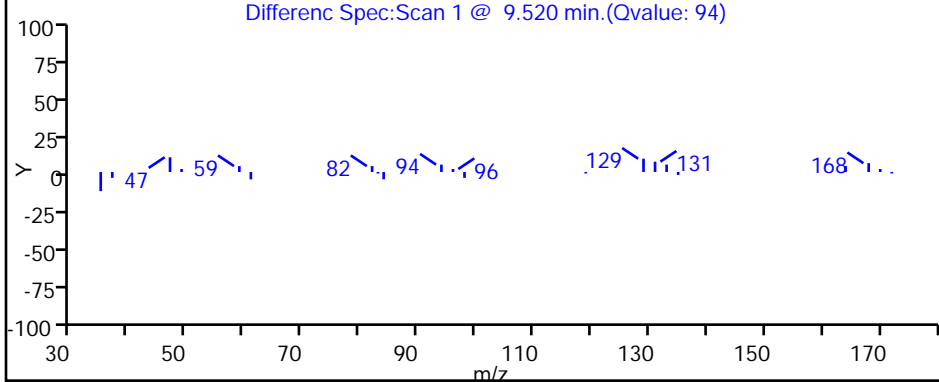
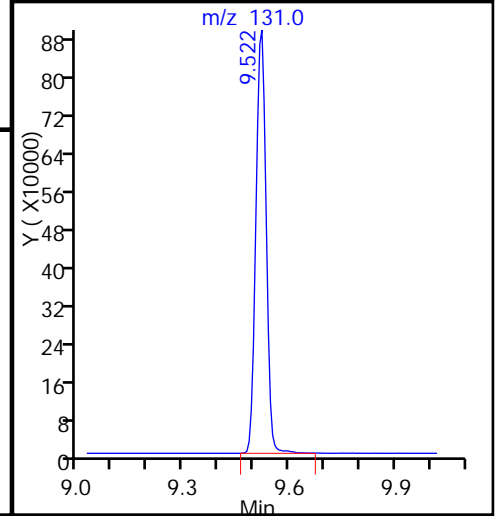
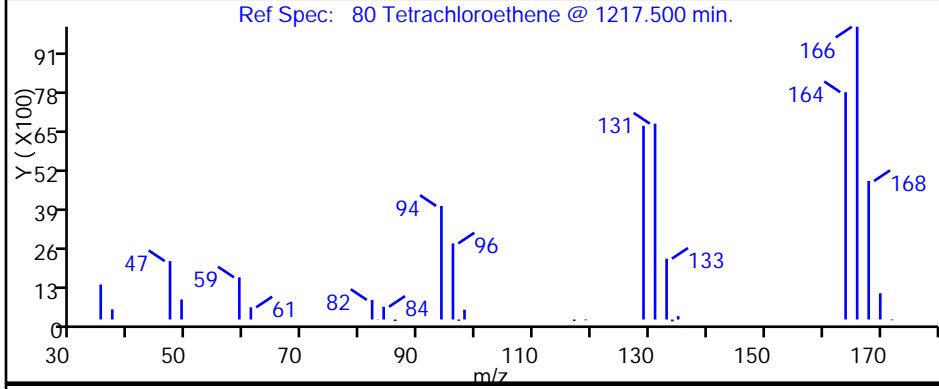
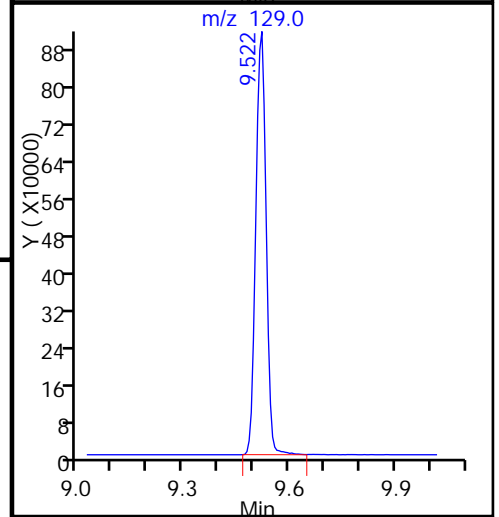
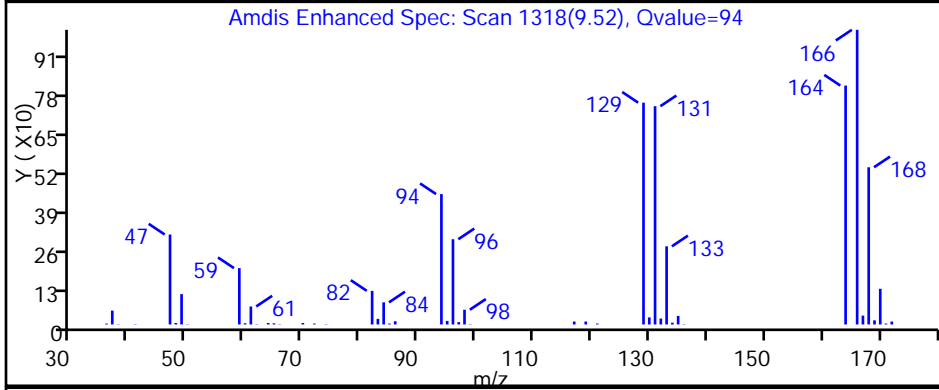
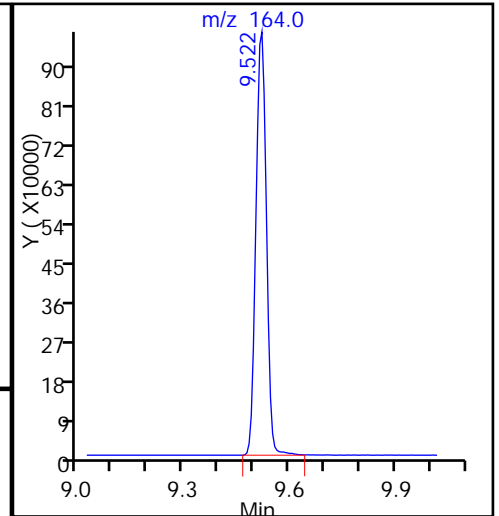
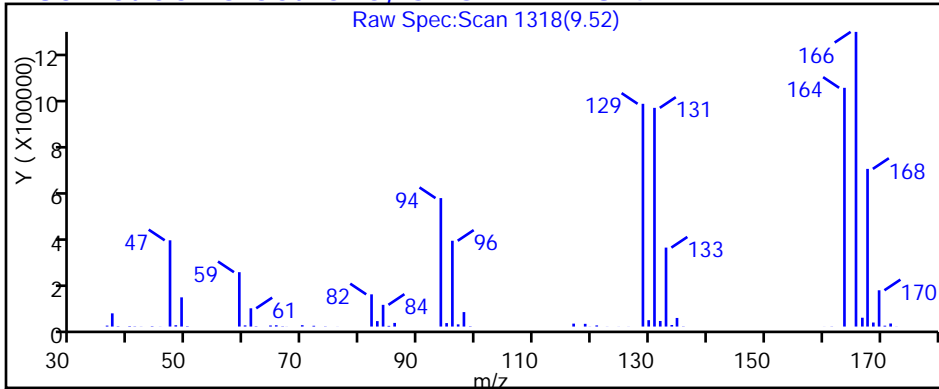
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

80 Tetrachloroethene, CAS: 127-18-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-MW-75D-0/1-0 DL Lab Sample ID: 180-48181-6 DL
 Matrix: Water Lab File ID: 51006017.D
 Analysis Method: 8260C Date Collected: 09/25/2015 11:12
 Sample wt/vol: 5 (mL) Date Analyzed: 10/06/2015 18:44
 Soil Aliquot Vol: _____ Dilution Factor: 500
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 156037 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		500	140
75-01-4	Vinyl chloride	ND		500	110
74-83-9	Bromomethane	ND		500	160
75-00-3	Chloroethane	ND	^c	500	110
75-35-4	1,1-Dichloroethene	ND		500	150
67-64-1	Acetone	ND		2500	1300
75-15-0	Carbon disulfide	ND		500	110
75-09-2	Methylene Chloride	ND		500	63
156-60-5	trans-1,2-Dichloroethene	ND		500	85
1634-04-4	Methyl tert-butyl ether	ND		500	92
75-34-3	1,1-Dichloroethane	ND		500	58
156-59-2	cis-1,2-Dichloroethene	560		500	120
74-97-5	Bromochloromethane	ND		500	90
78-93-3	2-Butanone (MEK)	ND		2500	270
67-66-3	Chloroform	ND		500	85
71-55-6	1,1,1-Trichloroethane	220	J	500	140
56-23-5	Carbon tetrachloride	ND		500	68
71-43-2	Benzene	ND		500	53
107-06-2	1,2-Dichloroethane	ND		500	110
79-01-6	Trichloroethene	3200		500	72
78-87-5	1,2-Dichloropropane	ND		500	47
75-27-4	Bromodichloromethane	ND		500	65
10061-01-5	cis-1,3-Dichloropropene	ND		500	93
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		2500	260
108-88-3	Toluene	ND		500	75
10061-02-6	trans-1,3-Dichloropropene	ND		500	74
79-00-5	1,1,2-Trichloroethane	ND		500	100
127-18-4	Tetrachloroethene	15000		500	74
591-78-6	2-Hexanone	ND		2500	80
124-48-1	Dibromochloromethane	ND		500	68
106-93-4	1,2-Dibromoethane (EDB)	ND		500	90
108-90-7	Chlorobenzene	ND		500	68
630-20-6	1,1,1,2-Tetrachloroethane	ND		500	140
100-41-4	Ethylbenzene	ND		500	110
1330-20-7	Xylenes, Total	ND		1500	240
100-42-5	Styrene	ND		500	48

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-MW-75D-0/1-0 DL Lab Sample ID: 180-48181-6 DL
 Matrix: Water Lab File ID: 51006017.D
 Analysis Method: 8260C Date Collected: 09/25/2015 11:12
 Sample wt/vol: 5 (mL) Date Analyzed: 10/06/2015 18:44
 Soil Aliquot Vol: _____ Dilution Factor: 500
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 156037 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	ND		500	96
79-34-5	1,1,2,2-Tetrachloroethane	ND		500	100
107-13-1	Acrylonitrile	ND		10000	270
123-91-1	1,4-Dioxane	ND		100000	17000

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		64-135
2037-26-5	Toluene-d8 (Surr)	90		71-118
460-00-4	4-Bromofluorobenzene (Surr)	85		70-118
1868-53-7	Dibromofluoromethane (Surr)	107		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006017.D
 Lims ID: 180-48181-C-6 Lab Sample ID: 180-48181-6
 Client ID: HD-MW-75D-0/1-0
 Sample Type: Client
 Inject. Date: 06-Oct-2015 18:44:30 ALS Bottle#: 15 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 500.0000
 Sample Info: 180-48181-C-6, 500x
 Misc. Info.: 180-0008850-017
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 07-Oct-2015 07:54:43 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: fergusond

Date: 07-Oct-2015 07:54:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.267	4.279	-0.012	0	129312	1000.0	
* 2 Fluorobenzene (IS)	96	7.296	7.290	0.006	98	279092	50.0	
* 3 Chlorobenzene-d5	119	10.387	10.387	0.000	87	72002	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.729	12.729	0.000	94	102041	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.572	6.560	0.012	93	73242	53.4	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.937	6.937	0.000	0	88970	47.3	
\$ 7 Toluene-d8 (Surr)	98	8.939	8.939	0.000	93	251224	45.2	
\$ 8 4-Bromofluorobenzene (Surr	95	11.573	11.573	0.000	90	88843	42.4	
12 Chloromethane	50		1.779				ND	
13 Vinyl chloride	62		1.912				ND	
15 Bromomethane	94		2.247				ND	
16 Chloroethane	64		2.399				ND	
22 1,1-Dichloroethene	96		3.348				ND	
24 Acetone	43		3.451				ND	
26 Carbon disulfide	76		3.652				ND	
31 Methylene Chloride	84		4.133				ND	
33 Acrylonitrile	53		4.528				ND	
34 trans-1,2-Dichloroethene	96		4.565				ND	
35 Methyl tert-butyl ether	73		4.583				ND	
37 1,1-Dichloroethane	63		5.204				ND	
45 cis-1,2-Dichloroethene	96	5.964	5.958	0.006	83	10017	5.56	
46 2-Butanone (MEK)	43		5.964				ND	
49 Chlorobromomethane	128		6.238				ND	
52 Chloroform	83		6.384				ND	
53 1,1,1-Trichloroethane	97	6.548	6.542	0.006	35	4587	2.16	
56 Carbon tetrachloride	117		6.718				ND	
58 Benzene	78		6.943				ND	
59 1,2-Dichloroethane	62		7.022				ND	
64 Trichloroethene	130	7.686	7.679	0.007	95	54628	32.4	
67 1,2-Dichloropropane	63		7.947				ND	
70 1,4-Dioxane	88		8.032				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.233				ND	
74 cis-1,3-Dichloropropene	75		8.677				ND	
75 4-Methyl-2-pentanone (MIBK)	43		8.829				ND	
76 Toluene	91		9.006				ND	
77 trans-1,3-Dichloropropene	75		9.255				ND	
79 1,1,2-Trichloroethane	97		9.450				ND	
80 Tetrachloroethene	164	9.517	9.517	0.000	98	200857	145.2	
82 2-Hexanone	43		9.663				ND	
84 Chlorodibromomethane	129		9.815				ND	
85 Ethylene Dibromide	107		9.930				ND	
87 Chlorobenzene	112		10.417				ND	
89 1,1,1,2-Tetrachloroethane	131		10.514				ND	
90 Ethylbenzene	106		10.514				ND	
91 m-Xylene & p-Xylene	106		10.648				ND	
92 o-Xylene	106		11.031				ND	
93 Styrene	104		11.050				ND	
94 Bromoform	173		11.232				ND	
99 1,1,2,2-Tetrachloroethane	83		11.707				ND	
S 133 Xylenes, Total	106		1.000				ND	

Reagents:

VOA8260INT_00042

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00042

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006017.D

Injection Date: 06-Oct-2015 18:44:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: 180-48181-C-6

Lab Sample ID: 180-48181-6

Worklist Smp#: 17

Client ID: HD-MW-75D-0/1-0

Purge Vol: 5.000 mL

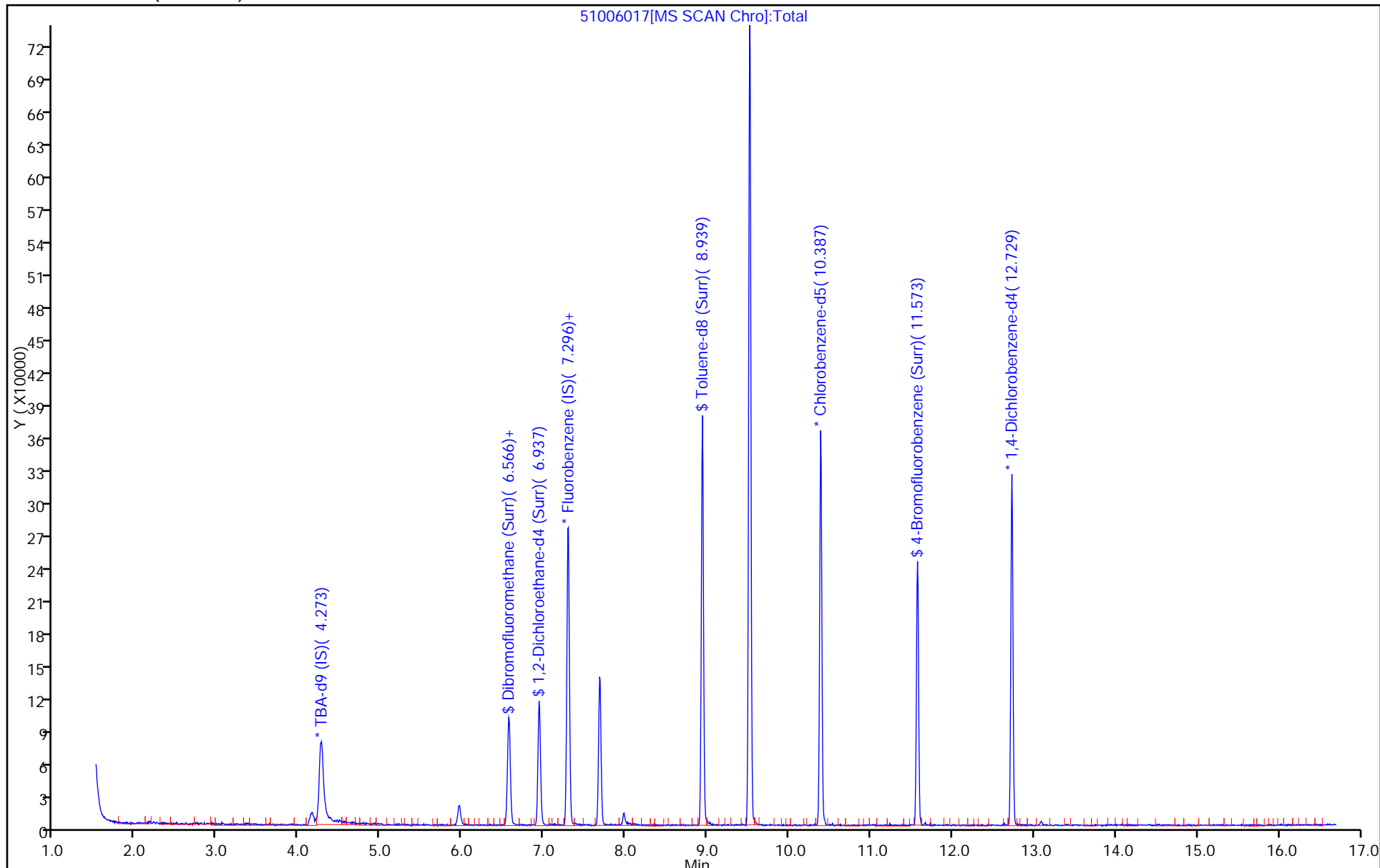
Dil. Factor: 500.0000

ALS Bottle#: 15

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006017.D

Injection Date: 06-Oct-2015 18:44:30

Instrument ID: CHHP5

Lims ID: 180-48181-C-6

Lab Sample ID: 180-48181-6

Client ID: HD-MW-75D-0/1-0

Operator ID: 001562

ALS Bottle#: 15

Worklist Smp#: 17

Purge Vol: 5.000 mL

Dil. Factor: 500.0000

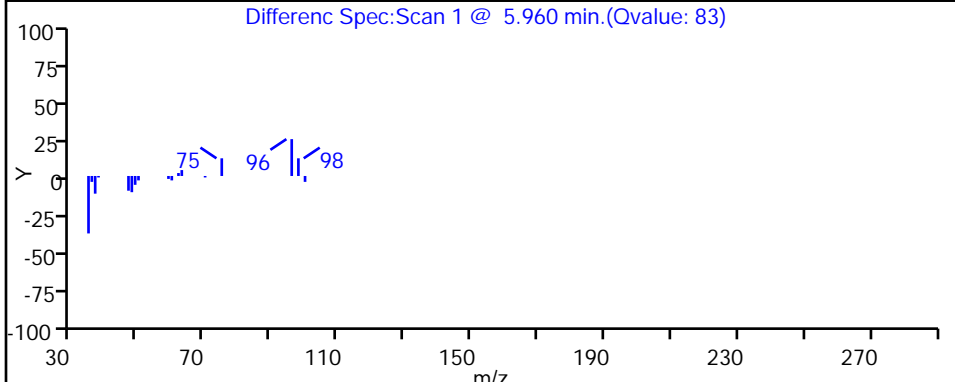
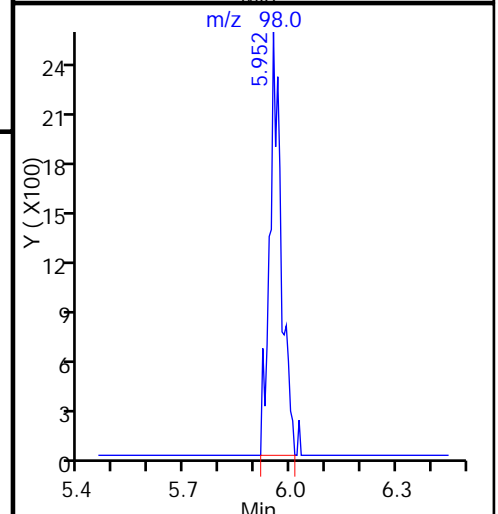
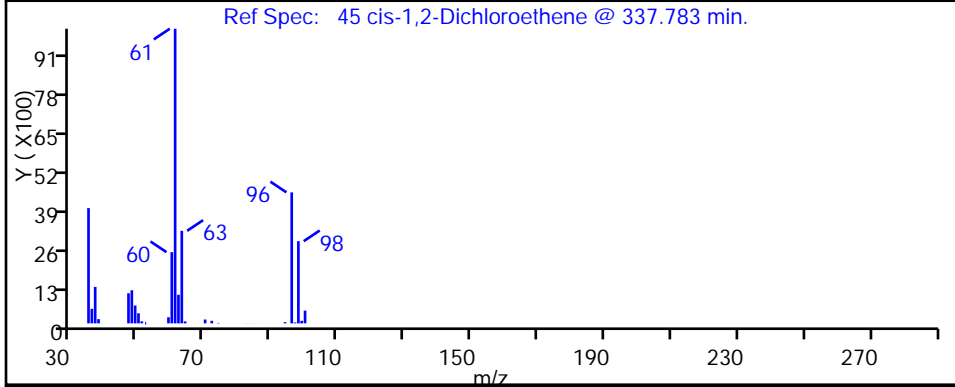
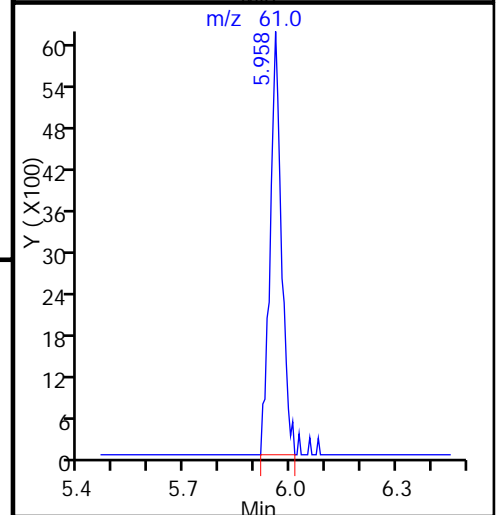
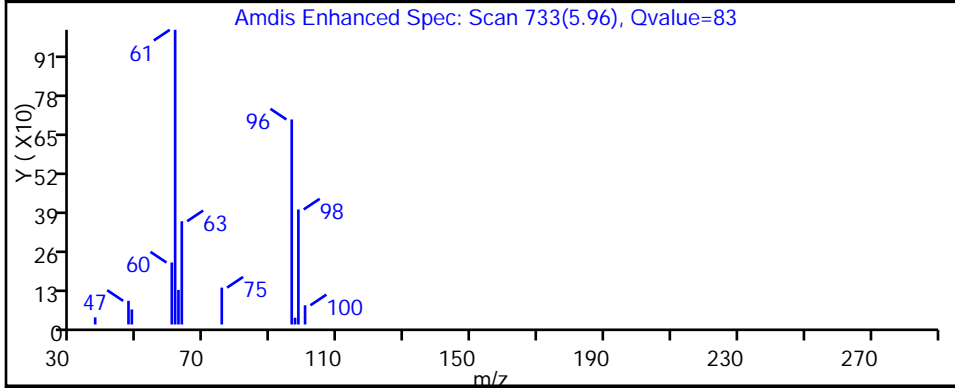
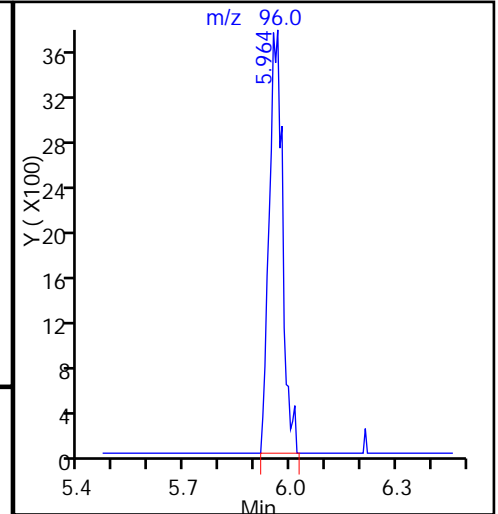
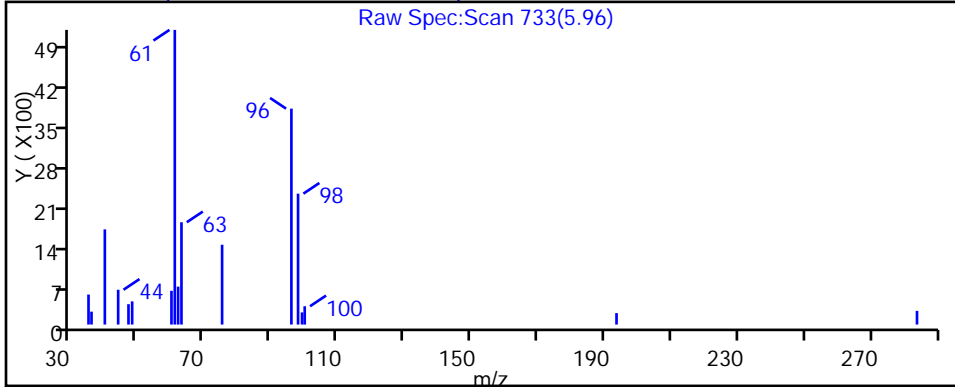
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006017.D

Injection Date: 06-Oct-2015 18:44:30

Instrument ID: CHHP5

Lims ID: 180-48181-C-6

Lab Sample ID: 180-48181-6

Client ID: HD-MW-75D-0/1-0

Operator ID: 001562

ALS Bottle#: 15

Worklist Smp#: 17

Purge Vol: 5.000 mL

Dil. Factor: 500.0000

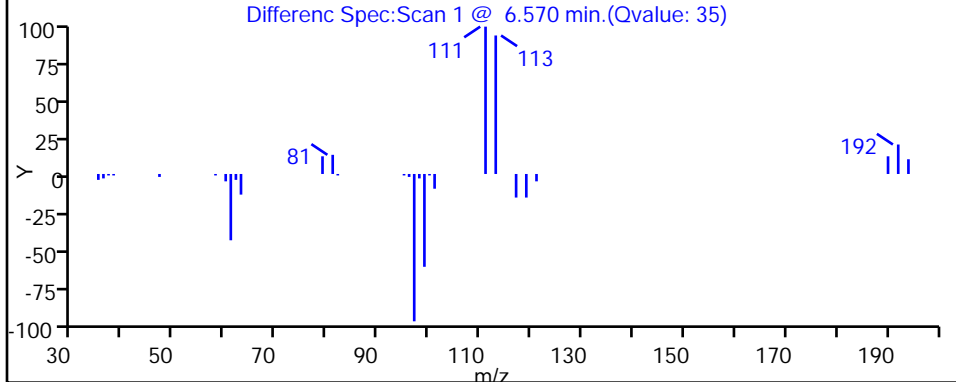
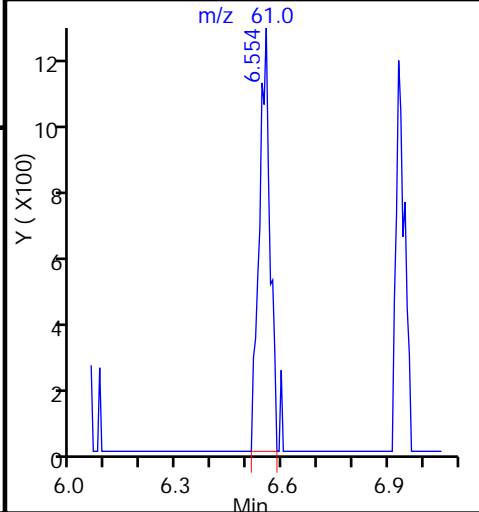
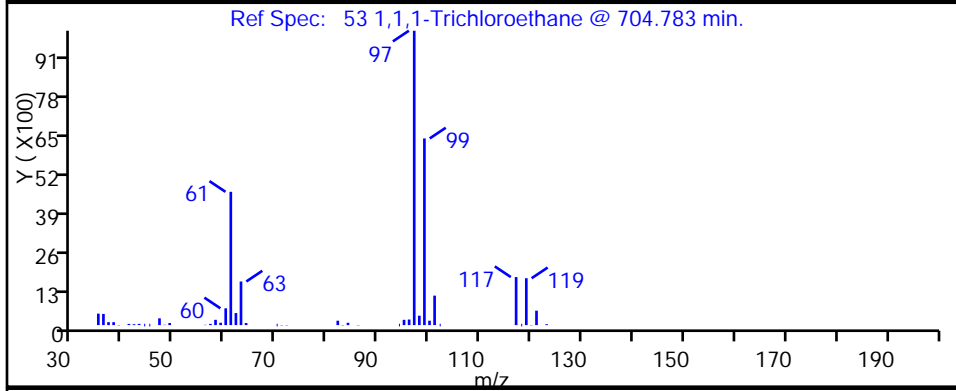
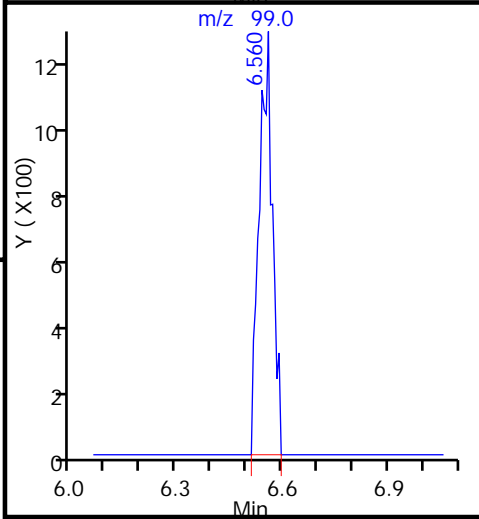
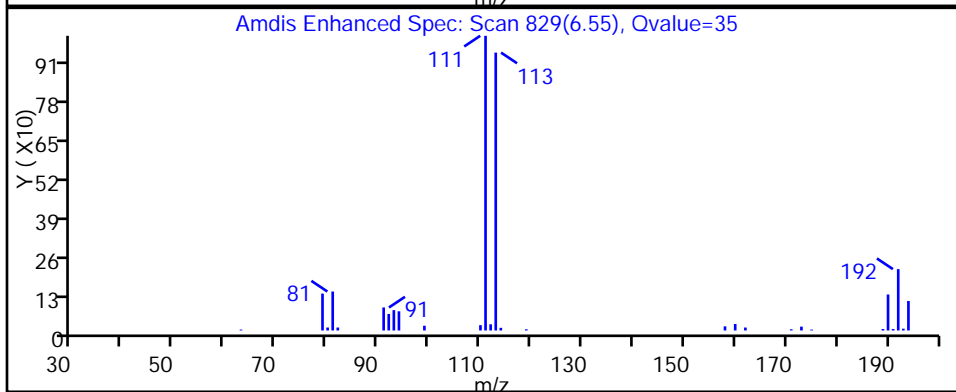
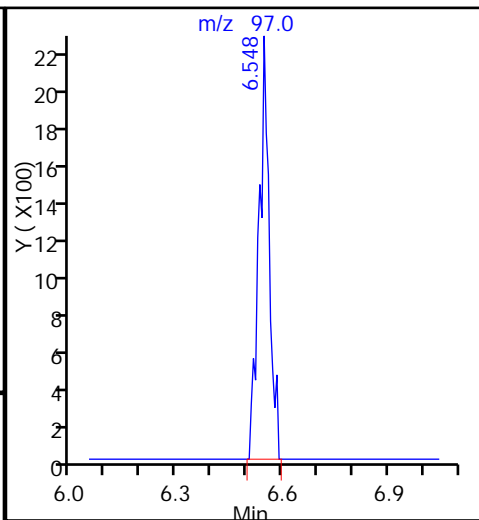
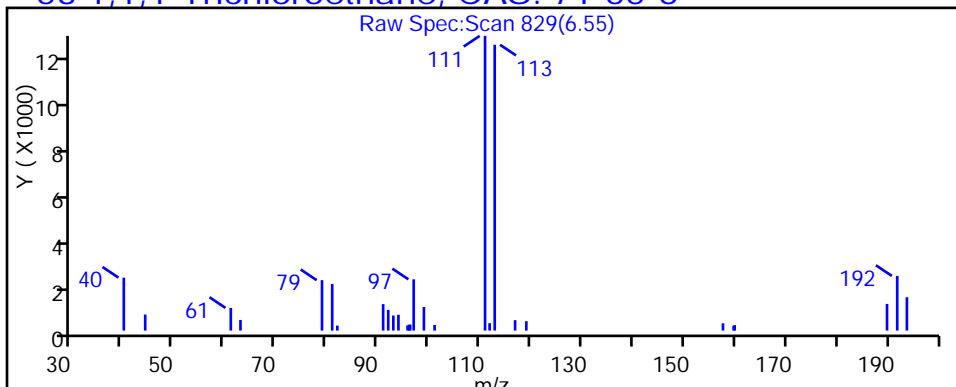
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

53 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006017.D

Injection Date: 06-Oct-2015 18:44:30

Instrument ID: CHHP5

Lims ID: 180-48181-C-6

Lab Sample ID: 180-48181-6

Client ID: HD-MW-75D-0/1-0

Operator ID: 001562

ALS Bottle#: 15

Worklist Smp#: 17

Purge Vol: 5.000 mL

Dil. Factor: 500.0000

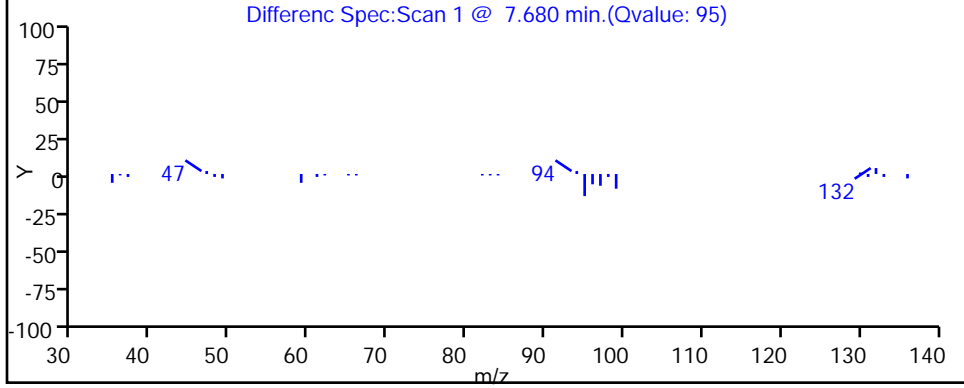
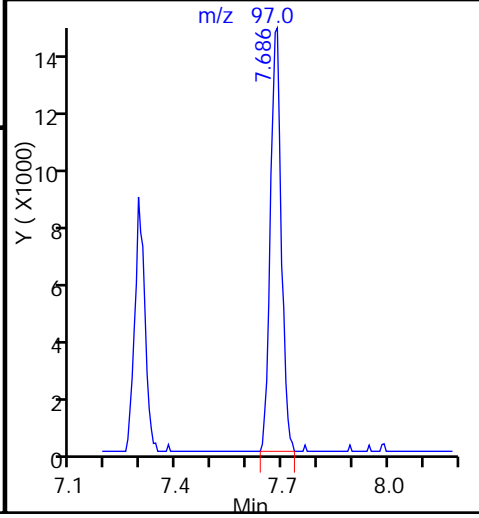
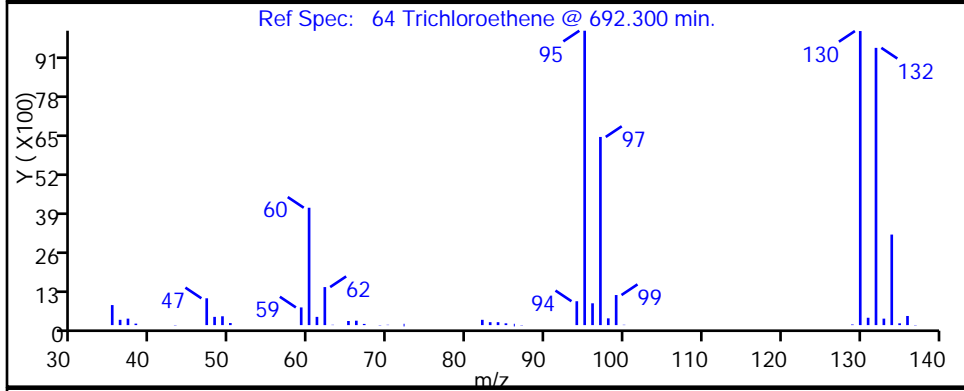
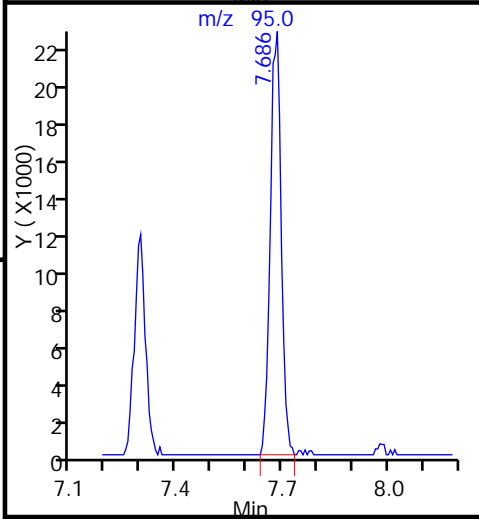
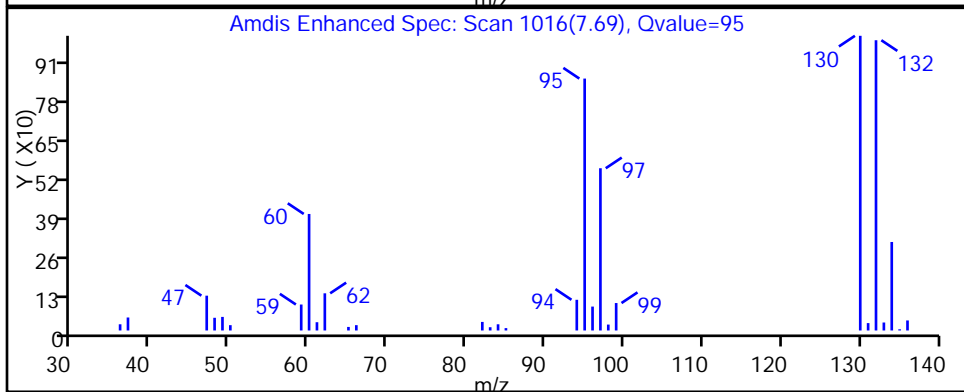
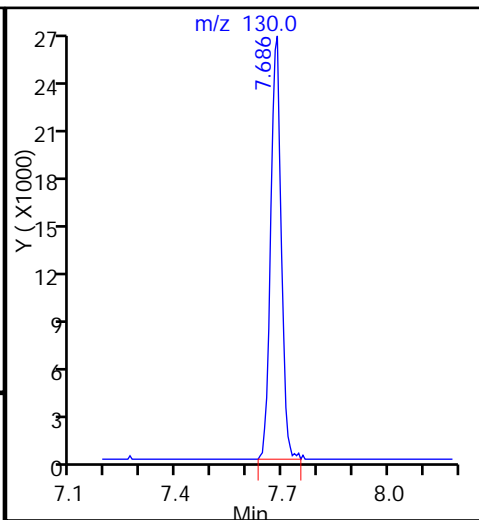
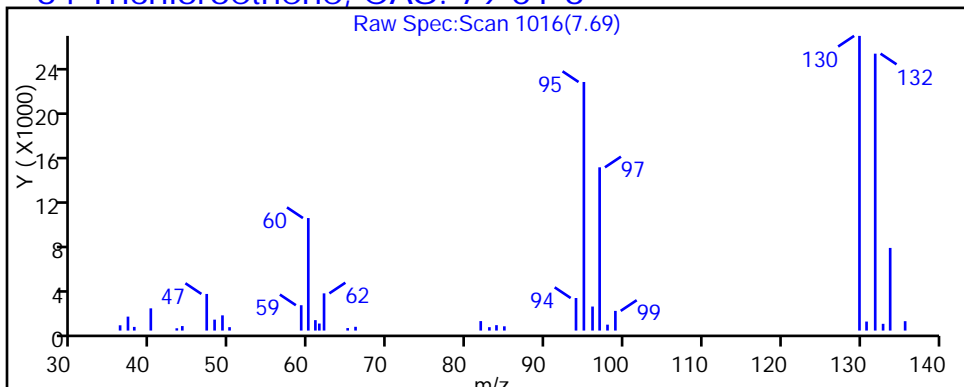
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

64 Trichloroethene, CAS: 79-01-6



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006017.D

Injection Date: 06-Oct-2015 18:44:30

Instrument ID: CHHP5

Lims ID: 180-48181-C-6

Lab Sample ID: 180-48181-6

Client ID: HD-MW-75D-0/1-0

Operator ID: 001562

ALS Bottle#: 15

Worklist Smp#: 17

Purge Vol: 5.000 mL

Dil. Factor: 500.0000

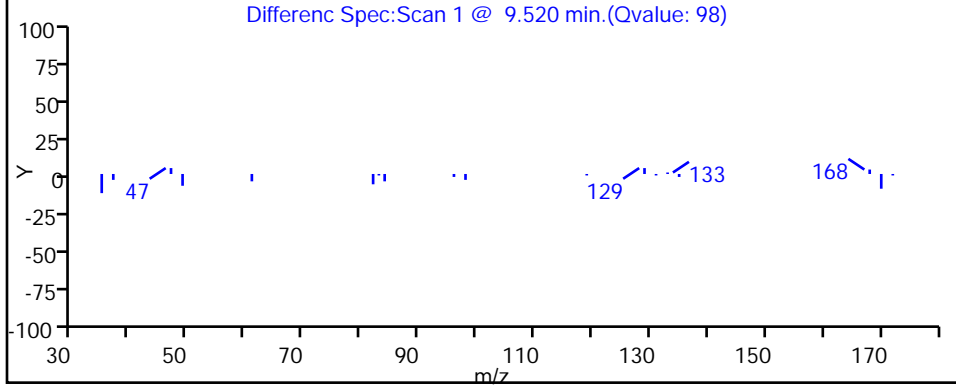
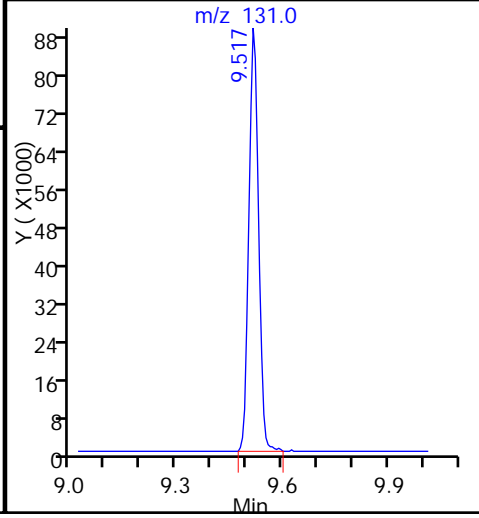
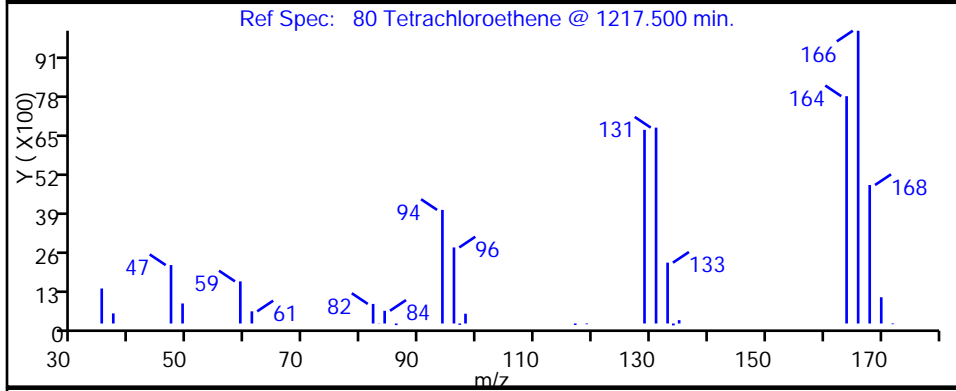
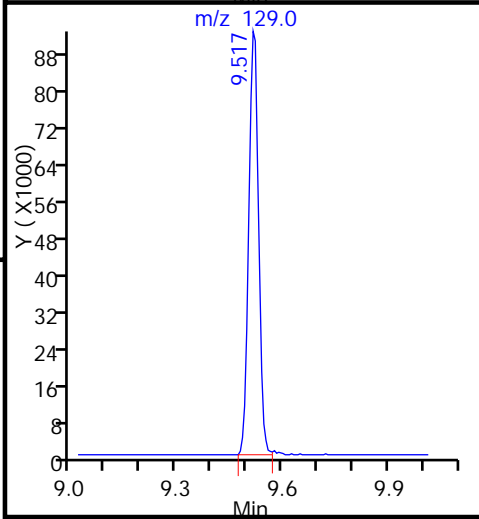
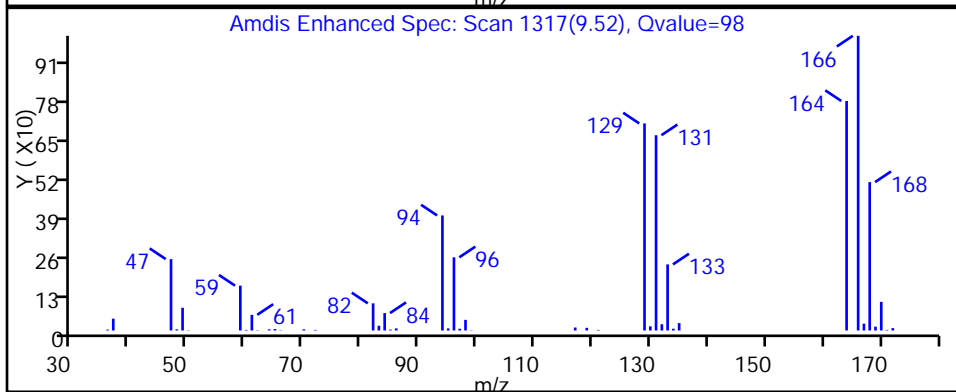
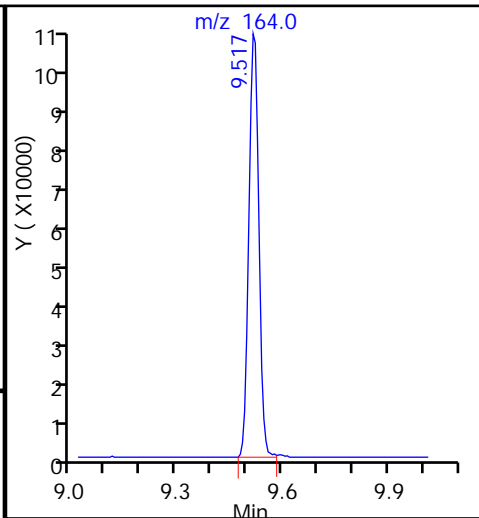
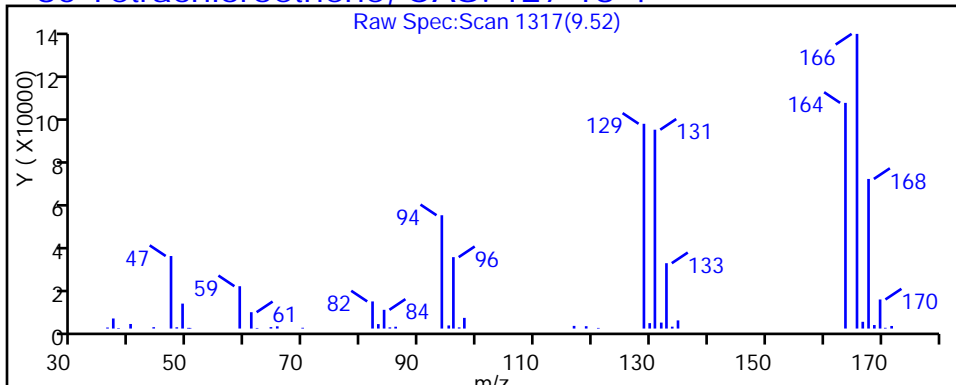
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

80 Tetrachloroethene, CAS: 127-18-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-MW-37D-0/1-0 Lab Sample ID: 180-48181-7
 Matrix: Water Lab File ID: 61005020.D
 Analysis Method: 8260C Date Collected: 09/25/2015 12:37
 Sample wt/vol: 5 (mL) Date Analyzed: 10/05/2015 17:46
 Soil Aliquot Vol: _____ Dilution Factor: 40
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 155869 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		40	11
75-01-4	Vinyl chloride	ND		40	9.1
74-83-9	Bromomethane	ND		40	13
75-00-3	Chloroethane	ND		40	8.6
75-35-4	1,1-Dichloroethene	17	J	40	12
67-64-1	Acetone	ND		200	100
75-15-0	Carbon disulfide	ND		40	8.5
75-09-2	Methylene Chloride	ND		40	5.0
156-60-5	trans-1,2-Dichloroethene	ND		40	6.8
1634-04-4	Methyl tert-butyl ether	ND		40	7.3
75-34-3	1,1-Dichloroethane	ND		40	4.7
156-59-2	cis-1,2-Dichloroethene	77		40	9.5
74-97-5	Bromochloromethane	ND		40	7.2
78-93-3	2-Butanone (MEK)	ND		200	22
67-66-3	Chloroform	ND		40	6.8
71-55-6	1,1,1-Trichloroethane	97		40	11
56-23-5	Carbon tetrachloride	ND		40	5.5
71-43-2	Benzene	ND		40	4.2
107-06-2	1,2-Dichloroethane	ND		40	8.5
79-01-6	Trichloroethene	460		40	5.7
78-87-5	1,2-Dichloropropane	ND		40	3.8
75-27-4	Bromodichloromethane	ND		40	5.2
10061-01-5	cis-1,3-Dichloropropene	ND		40	7.5
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		200	21
108-88-3	Toluene	ND		40	6.0
10061-02-6	trans-1,3-Dichloropropene	ND		40	5.9
79-00-5	1,1,2-Trichloroethane	ND		40	8.1
127-18-4	Tetrachloroethene	1100		40	5.9
591-78-6	2-Hexanone	ND		200	6.4
124-48-1	Dibromochloromethane	ND		40	5.5
106-93-4	1,2-Dibromoethane (EDB)	ND		40	7.2
108-90-7	Chlorobenzene	ND		40	5.4
630-20-6	1,1,1,2-Tetrachloroethane	ND		40	11
100-41-4	Ethylbenzene	ND		40	9.1
1330-20-7	Xylenes, Total	ND		120	20
100-42-5	Styrene	ND		40	3.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-MW-37D-0/1-0 Lab Sample ID: 180-48181-7
 Matrix: Water Lab File ID: 61005020.D
 Analysis Method: 8260C Date Collected: 09/25/2015 12:37
 Sample wt/vol: 5 (mL) Date Analyzed: 10/05/2015 17:46
 Soil Aliquot Vol: _____ Dilution Factor: 40
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 155869 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	ND		40	7.7
79-34-5	1,1,2,2-Tetrachloroethane	ND		40	8.0
107-13-1	Acrylonitrile	ND		800	22
123-91-1	1,4-Dioxane	ND		8000	1400

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		64-135
2037-26-5	Toluene-d8 (Surr)	96		71-118
460-00-4	4-Bromofluorobenzene (Surr)	90		70-118
1868-53-7	Dibromofluoromethane (Surr)	110		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005020.D
 Lims ID: 180-48181-C-7 Lab Sample ID: 180-48181-7
 Client ID: HD-MW-37D-0/1-0
 Sample Type: Client
 Inject. Date: 05-Oct-2015 17:46:30 ALS Bottle#: 20 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 40.0000
 Sample Info: 180-48181-C-7, 40x
 Misc. Info.: 180-0008826-020
 Operator ID: 001562 Instrument ID: CHHP6
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 06-Oct-2015 09:16:49 Calib Date: 14-Sep-2015 16:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: fergusond

Date: 06-Oct-2015 09:16:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.239	4.230	0.009	88	186034	1000.0	
* 2 Fluorobenzene (IS)	96	7.287	7.290	-0.003	97	408980	50.0	
* 3 Chlorobenzene-d5	119	10.401	10.399	0.002	91	107815	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.750	12.747	0.003	98	175358	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.557	6.550	0.007	93	103963	55.2	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.934	6.928	0.006	70	167055	55.0	
\$ 7 Toluene-d8 (Surr)	98	8.941	8.941	0.000	93	407345	47.9	
\$ 8 4-Bromofluorobenzene (Surr	95	11.588	11.587	0.001	84	169921	45.0	
12 Chloromethane	50		1.769				ND	
13 Vinyl chloride	62		1.903				ND	
15 Bromomethane	94		2.243				ND	
16 Chloroethane	64		2.377				ND	
22 1,1-Dichloroethene	96	3.338	3.326	0.012	42	4299	2.09	
24 Acetone	43		3.430				ND	
26 Carbon disulfide	76		3.630				ND	
31 Methylene Chloride	84		4.117				ND	
33 Acrylonitrile	53		4.500				ND	
34 trans-1,2-Dichloroethene	96		4.555				ND	
35 Methyl tert-butyl ether	73		4.573				ND	
37 1,1-Dichloroethane	63		5.194				ND	
43 cis-1,2-Dichloroethene	96	5.942	5.942	0.000	83	24733	9.57	
44 2-Butanone (MEK)	43		5.948				ND	
48 Chlorobromomethane	128		6.228				ND	
50 Chloroform	83		6.368				ND	
51 1,1,1-Trichloroethane	97	6.538	6.532	0.006	94	37693	12.1	
53 Carbon tetrachloride	117		6.715				ND	
56 Benzene	78		6.940				ND	
57 1,2-Dichloroethane	62		7.013				ND	
61 Trichloroethene	130	7.676	7.676	0.000	95	113204	56.9	
64 1,2-Dichloropropane	63		7.950				ND	
65 1,4-Dioxane	88		8.023				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83		8.229				ND	
71 cis-1,3-Dichloropropene	75		8.680				ND	
72 4-Methyl-2-pentanone (MIBK)	43		8.826				ND	
73 Toluene	91		9.008				ND	
74 trans-1,3-Dichloropropene	75		9.257				ND	
76 1,1,2-Trichloroethane	97		9.452				ND	
77 Tetrachloroethene	164	9.525	9.525	0.000	96	262677	138.4	
79 2-Hexanone	43		9.659				ND	
81 Chlorodibromomethane	129		9.823				ND	
82 Ethylene Dibromide	107		9.939				ND	
84 Chlorobenzene	112		10.426				ND	
86 1,1,1,2-Tetrachloroethane	131		10.523				ND	
87 Ethylbenzene	106		10.529				ND	
88 m-Xylene & p-Xylene	106		10.657				ND	
89 o-Xylene	106		11.040				ND	
90 Styrene	104		11.058				ND	
91 Bromoform	173		11.247				ND	
96 1,1,2,2-Tetrachloroethane	83		11.715				ND	
S 131 Xylenes, Total	106		1.000				ND	

Reagents:

VOA8260INT_00042

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00042

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005020.D

Injection Date: 05-Oct-2015 17:46:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: 180-48181-C-7

Lab Sample ID: 180-48181-7

Worklist Smp#: 20

Client ID: HD-MW-37D-0/1-0

Purge Vol: 5.000 mL

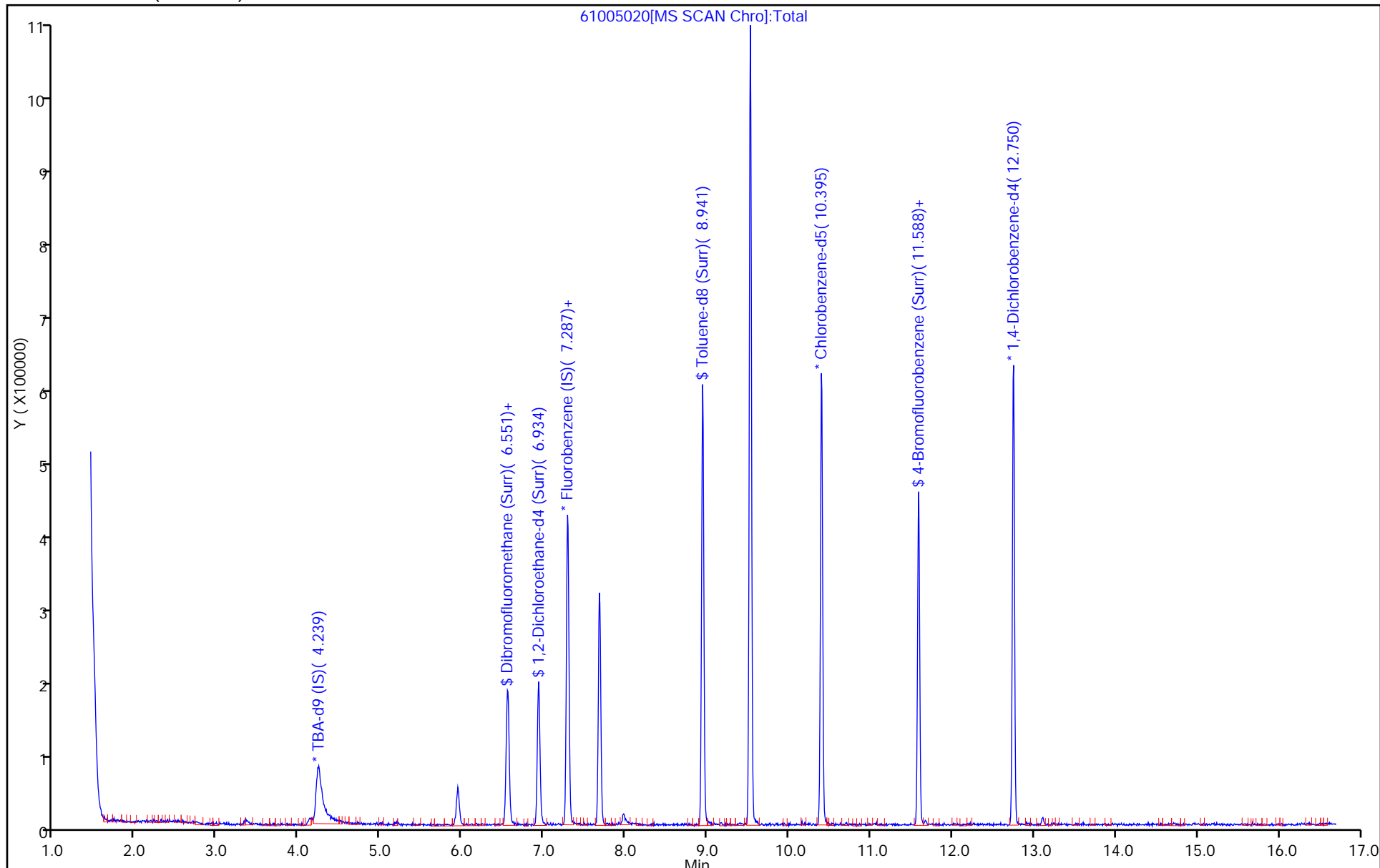
Dil. Factor: 40.0000

ALS Bottle#: 20

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005020.D

Injection Date: 05-Oct-2015 17:46:30

Instrument ID: CHHP6

Lims ID: 180-48181-C-7

Lab Sample ID: 180-48181-7

Client ID: HD-MW-37D-0/1-0

Operator ID: 001562

ALS Bottle#: 20

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

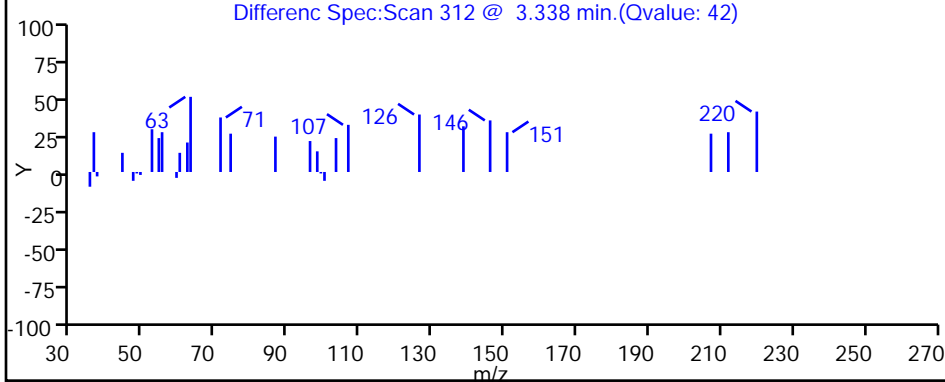
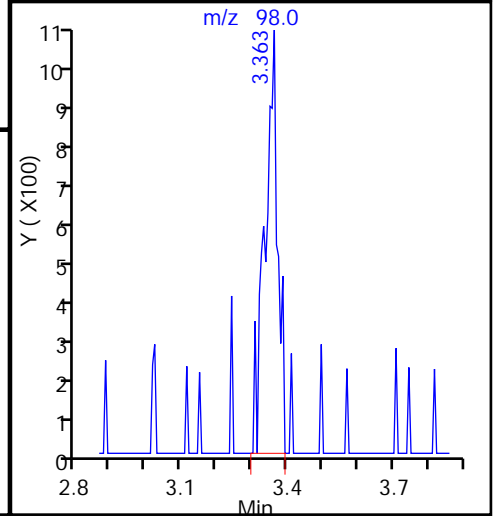
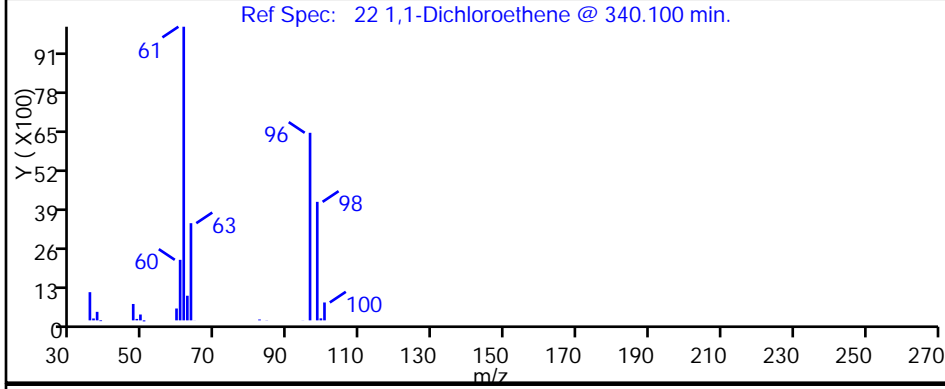
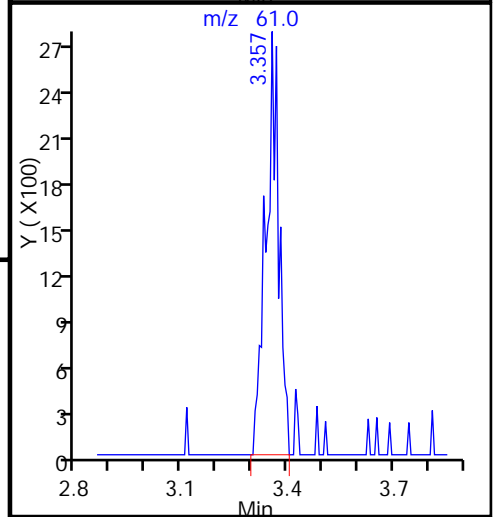
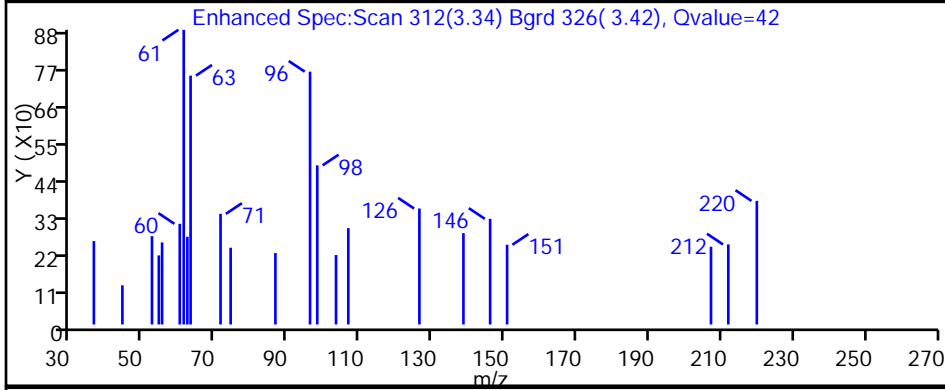
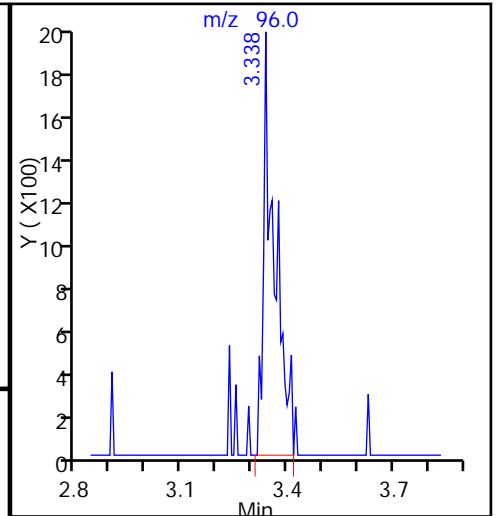
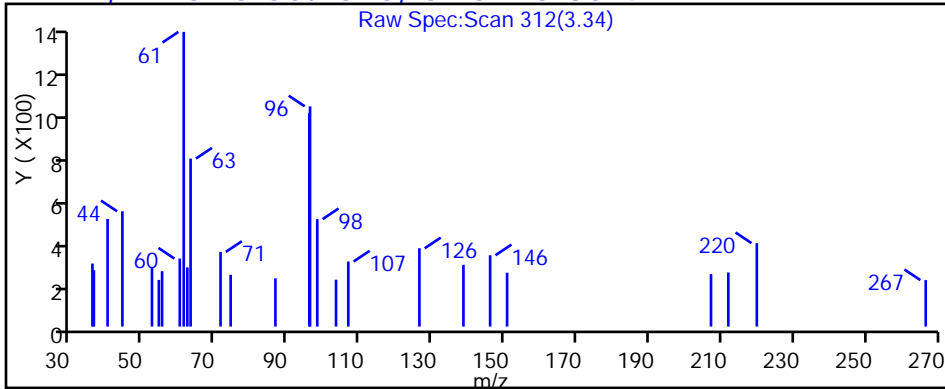
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005020.D

Injection Date: 05-Oct-2015 17:46:30

Instrument ID: CHHP6

Lims ID: 180-48181-C-7

Lab Sample ID: 180-48181-7

Client ID: HD-MW-37D-0/1-0

Operator ID: 001562

ALS Bottle#: 20 Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

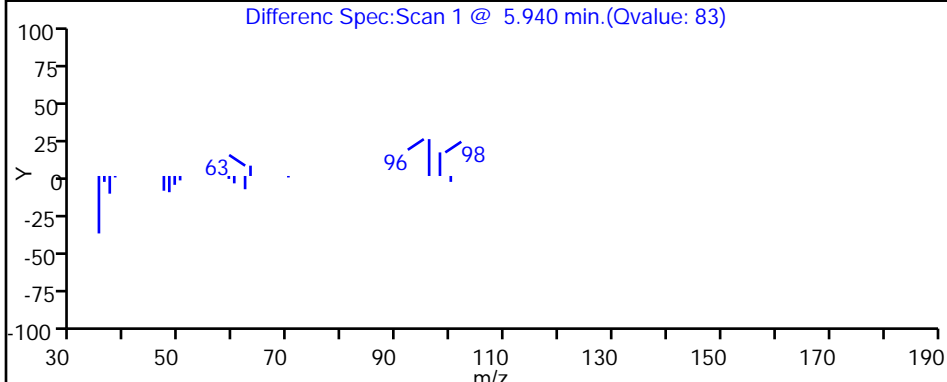
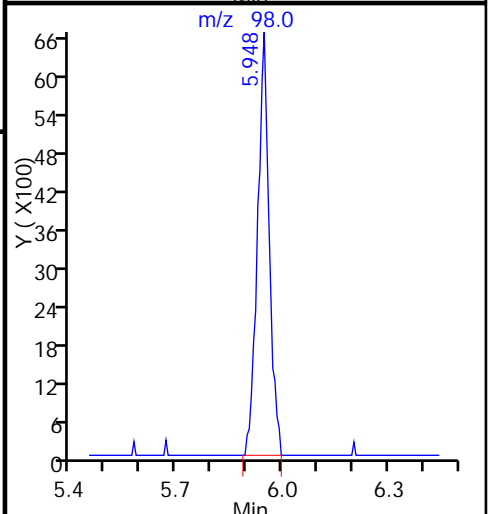
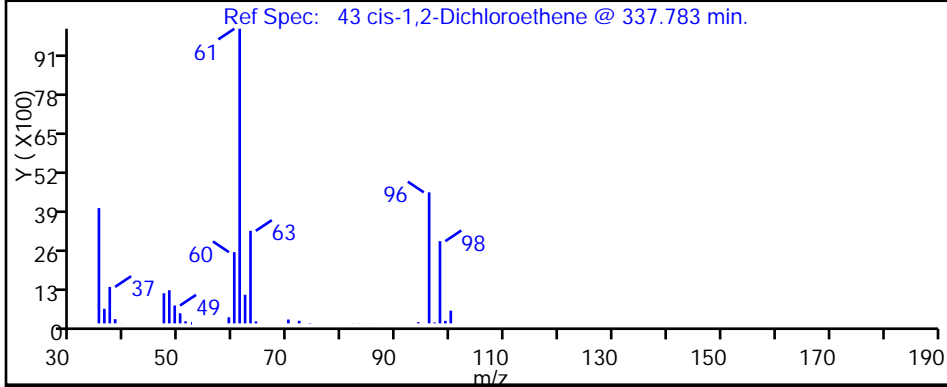
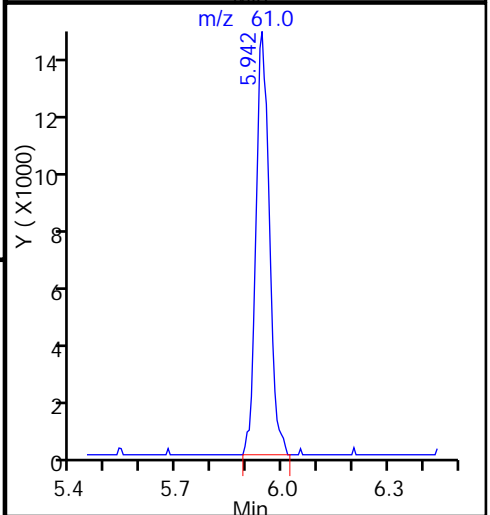
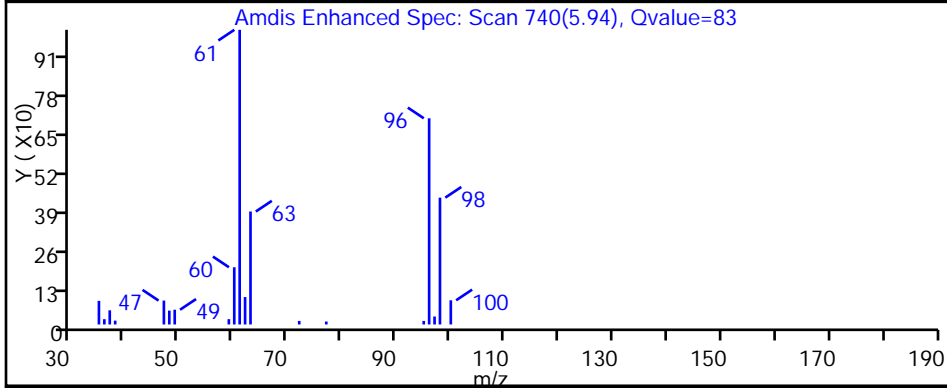
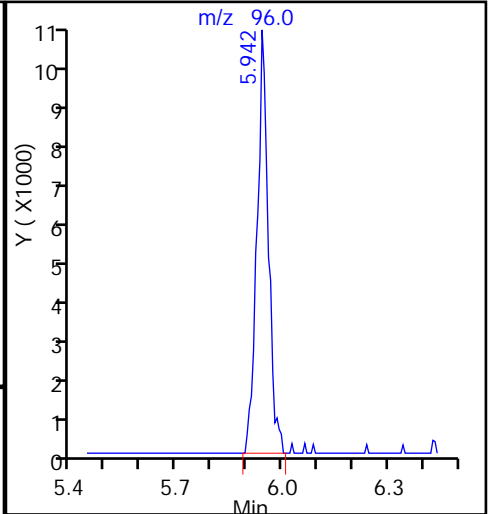
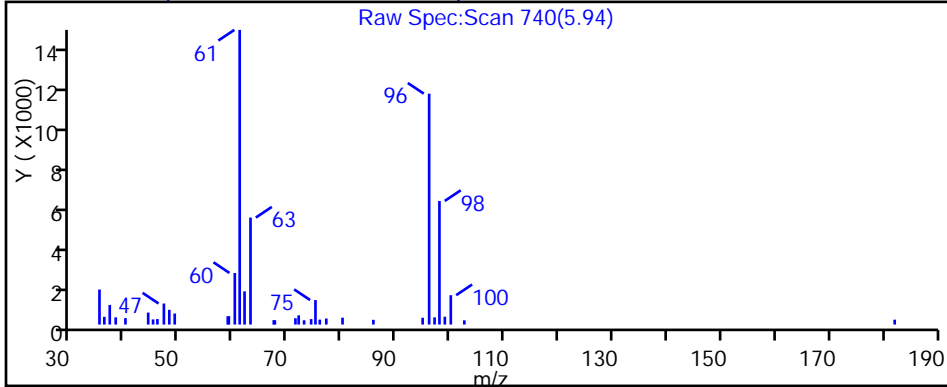
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005020.D

Injection Date: 05-Oct-2015 17:46:30

Instrument ID: CHHP6

Lims ID: 180-48181-C-7

Lab Sample ID: 180-48181-7

Client ID: HD-MW-37D-0/1-0

Operator ID: 001562

ALS Bottle#: 20

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

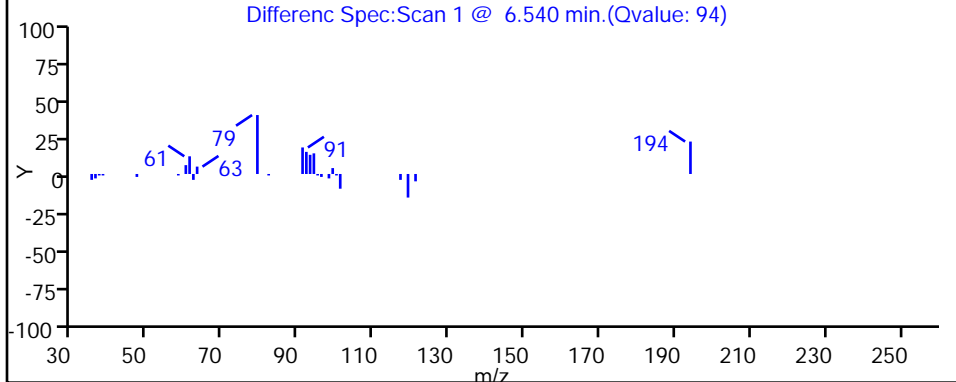
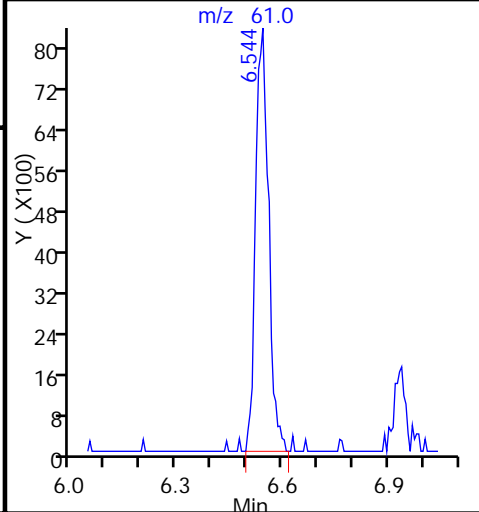
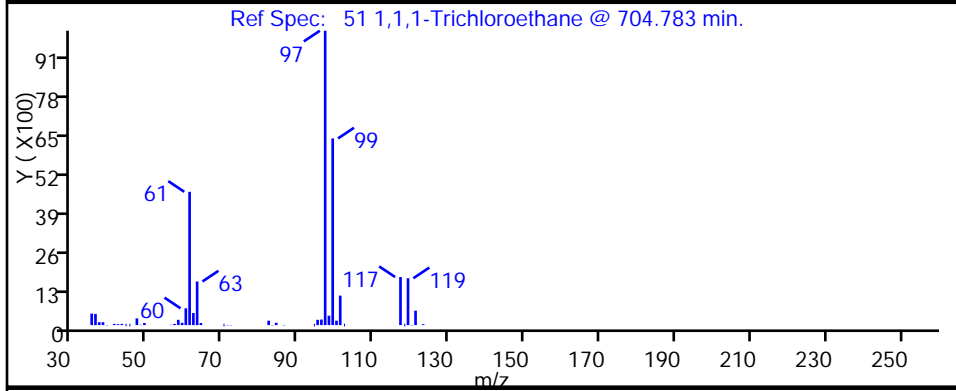
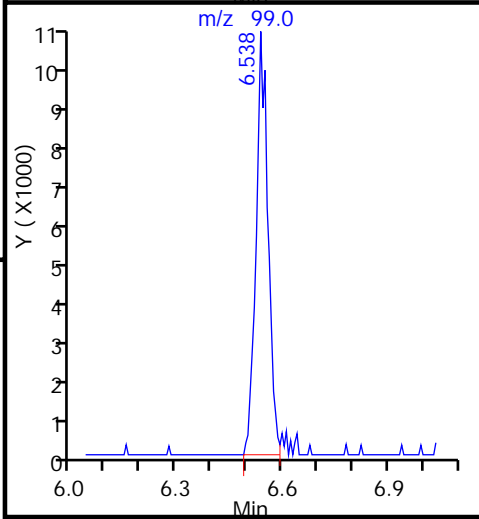
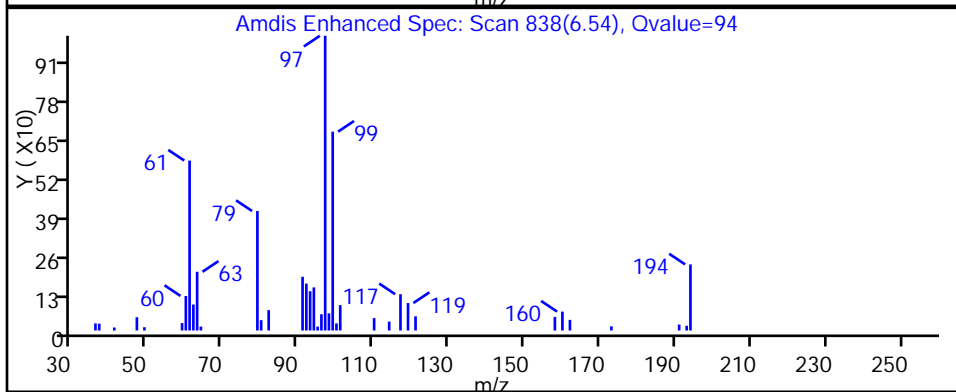
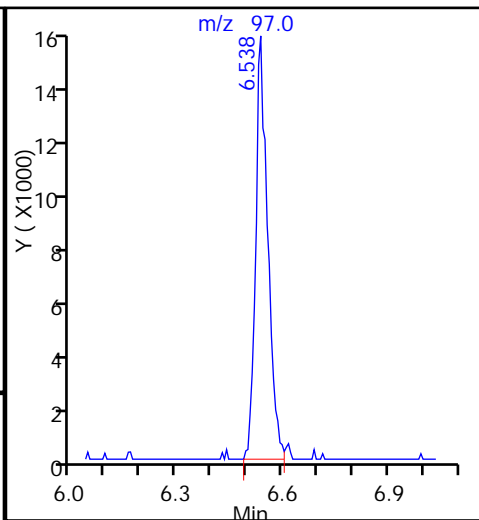
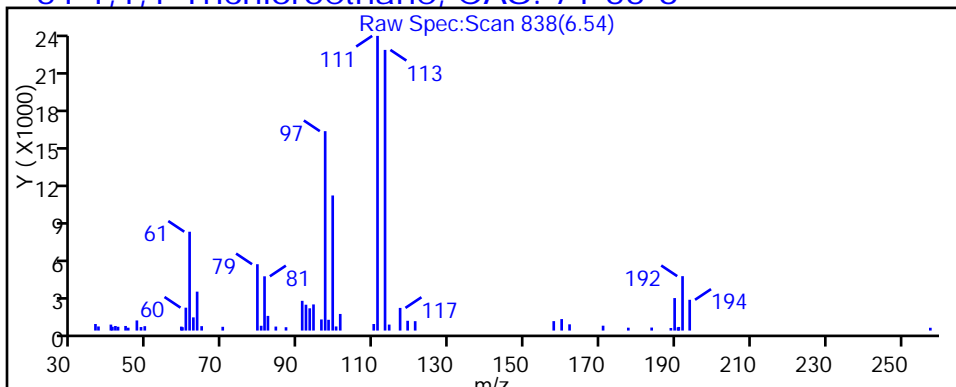
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005020.D

Injection Date: 05-Oct-2015 17:46:30

Instrument ID: CHHP6

Lims ID: 180-48181-C-7

Lab Sample ID: 180-48181-7

Client ID: HD-MW-37D-0/1-0

Operator ID: 001562

ALS Bottle#: 20 Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

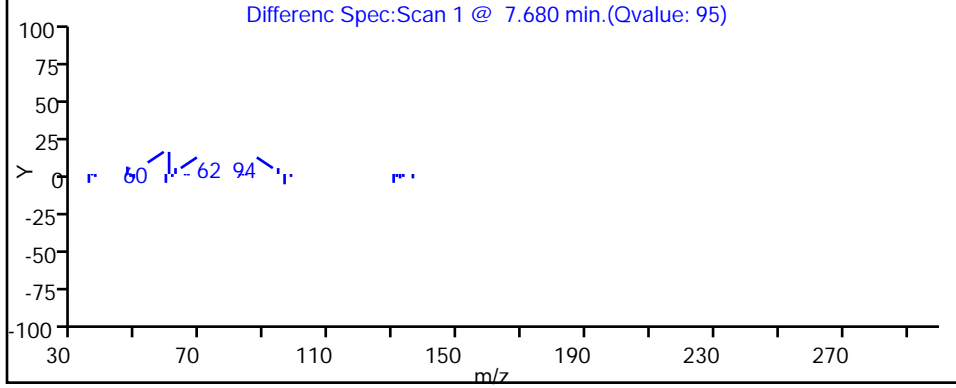
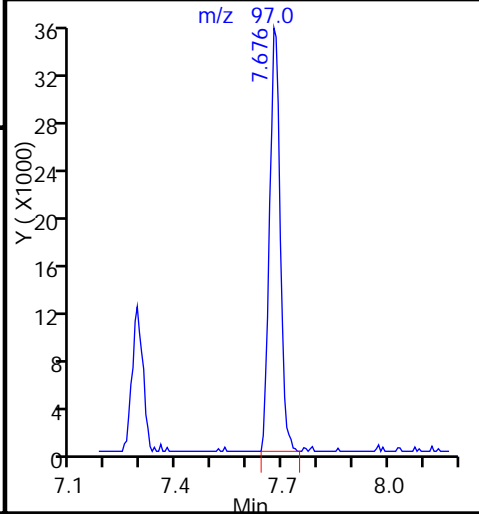
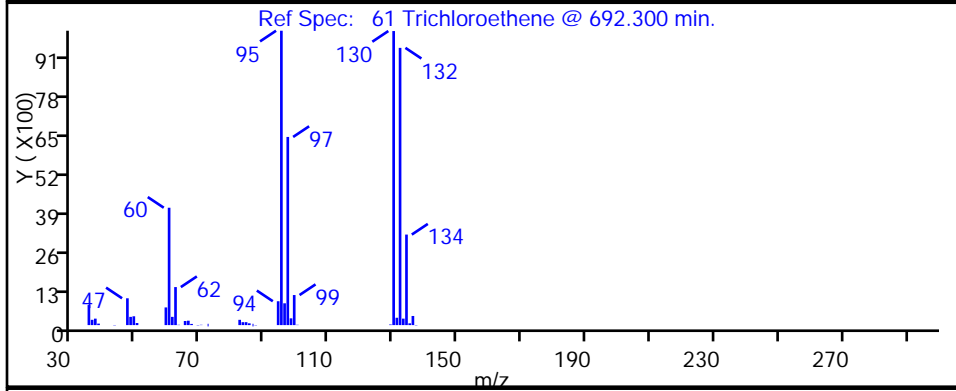
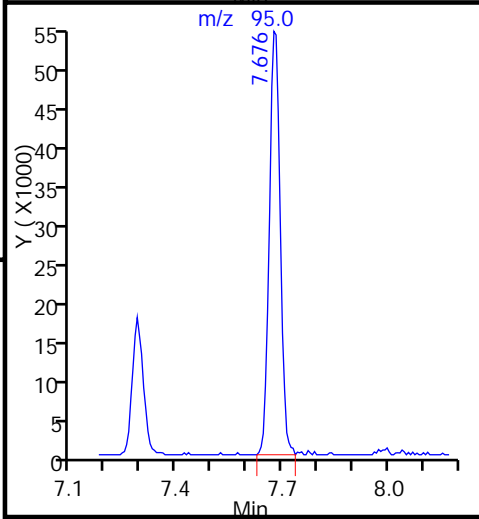
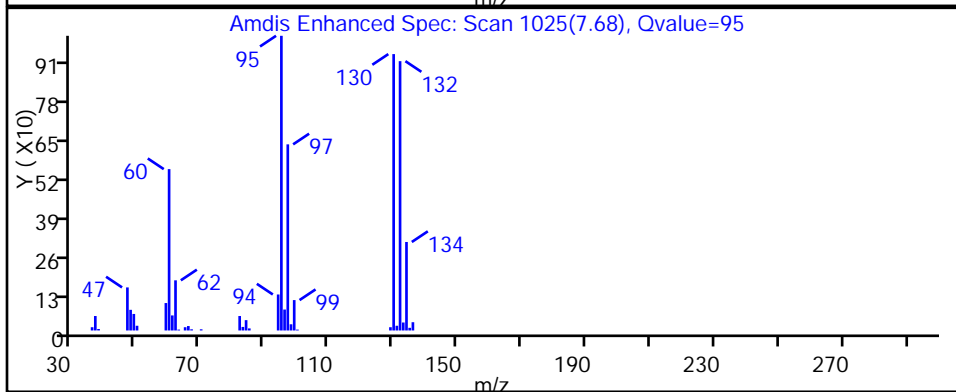
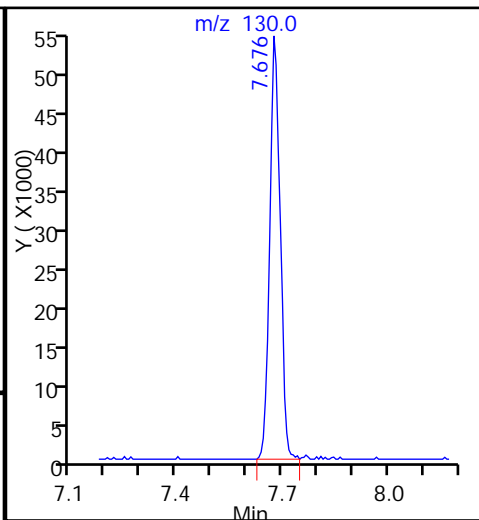
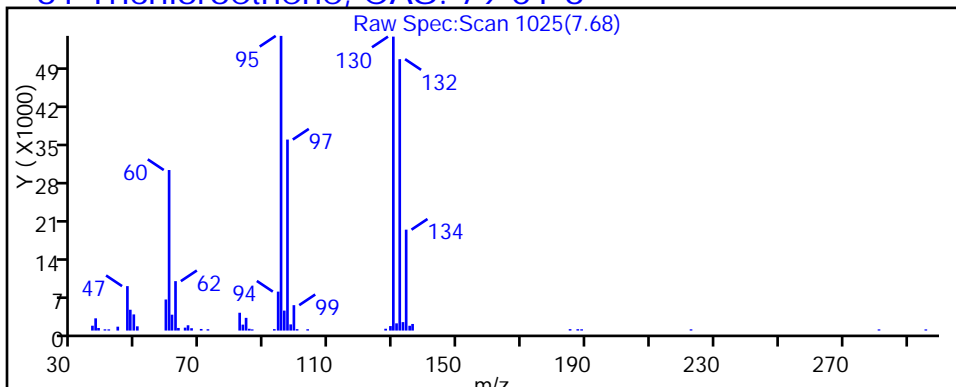
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

61 Trichloroethene, CAS: 79-01-6



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005020.D

Injection Date: 05-Oct-2015 17:46:30

Instrument ID: CHHP6

Lims ID: 180-48181-C-7

Lab Sample ID: 180-48181-7

Client ID: HD-MW-37D-0/1-0

Operator ID: 001562

ALS Bottle#: 20 Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

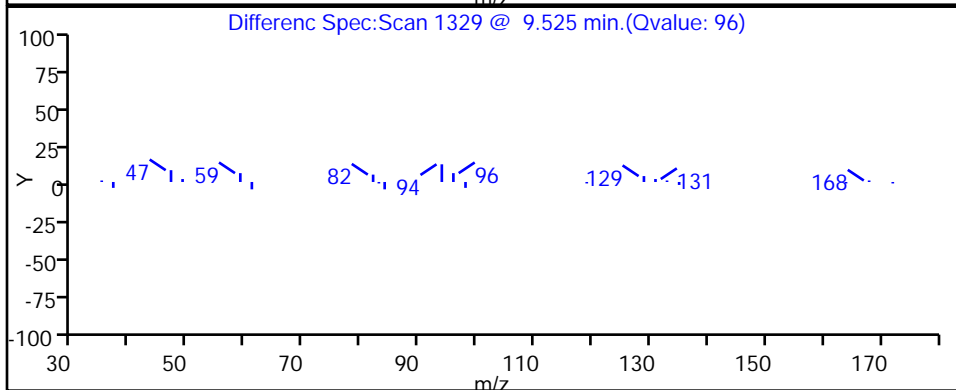
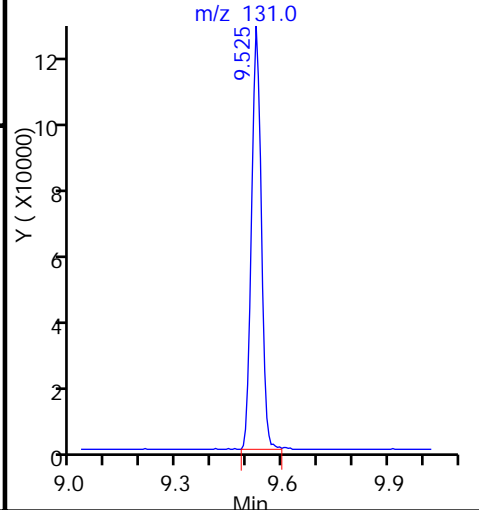
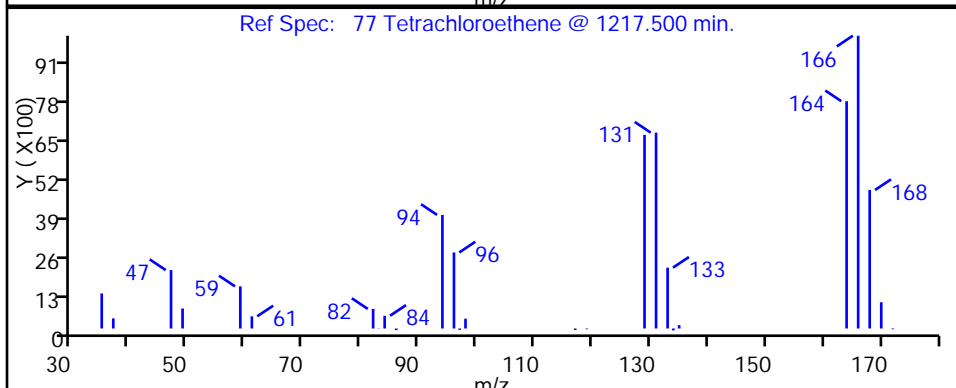
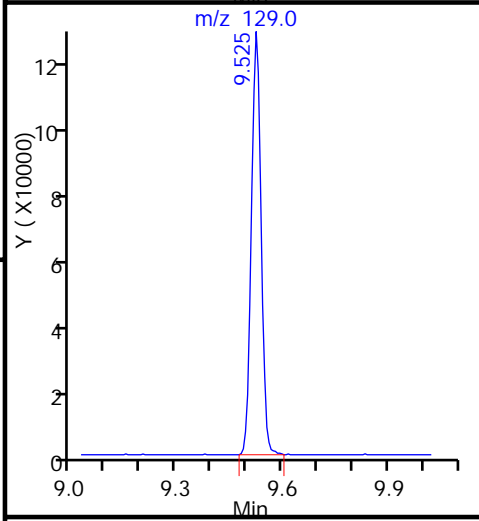
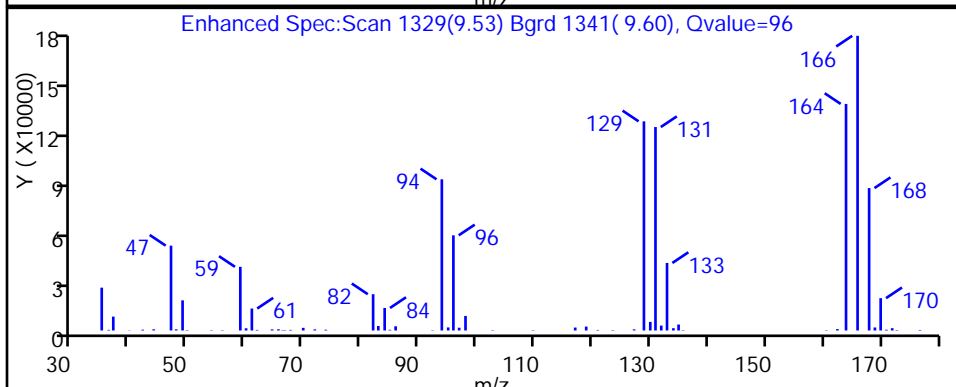
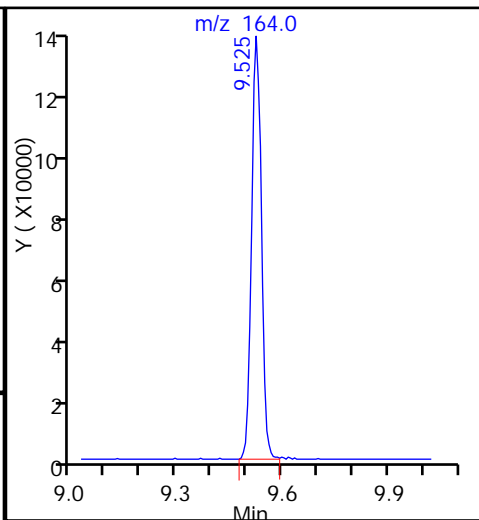
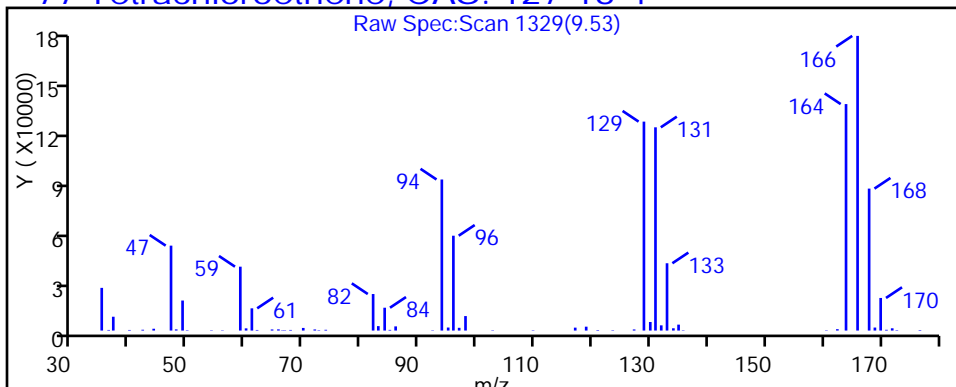
Method: MSVOA_LL_CHHP6

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.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-QC3-0/1-1 Lab Sample ID: 180-48181-8
 Matrix: Water Lab File ID: 61005021.D
 Analysis Method: 8260C Date Collected: 09/25/2015 08:00
 Sample wt/vol: 5 (mL) Date Analyzed: 10/05/2015 18:10
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 155869 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		1.0	0.28
75-01-4	Vinyl chloride	ND		1.0	0.23
74-83-9	Bromomethane	ND		1.0	0.31
75-00-3	Chloroethane	ND		1.0	0.21
75-35-4	1,1-Dichloroethene	0.77	J	1.0	0.30
67-64-1	Acetone	ND		5.0	2.5
75-15-0	Carbon disulfide	ND		1.0	0.21
75-09-2	Methylene Chloride	ND		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.17
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.18
75-34-3	1,1-Dichloroethane	1.1		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	22		1.0	0.24
74-97-5	Bromochloromethane	ND		1.0	0.18
78-93-3	2-Butanone (MEK)	ND		5.0	0.55
67-66-3	Chloroform	ND		1.0	0.17
71-55-6	1,1,1-Trichloroethane	6.0		1.0	0.29
56-23-5	Carbon tetrachloride	ND		1.0	0.14
71-43-2	Benzene	ND		1.0	0.11
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
79-01-6	Trichloroethene	31		1.0	0.14
78-87-5	1,2-Dichloropropane	ND		1.0	0.095
75-27-4	Bromodichloromethane	ND		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.53
108-88-3	Toluene	ND		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.20
127-18-4	Tetrachloroethene	87	E	1.0	0.15
591-78-6	2-Hexanone	ND		5.0	0.16
124-48-1	Dibromochloromethane	ND		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.28
100-41-4	Ethylbenzene	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		3.0	0.49
100-42-5	Styrene	ND		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-QC3-0/1-1 Lab Sample ID: 180-48181-8
 Matrix: Water Lab File ID: 61005021.D
 Analysis Method: 8260C Date Collected: 09/25/2015 08:00
 Sample wt/vol: 5 (mL) Date Analyzed: 10/05/2015 18:10
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 155869 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		64-135
2037-26-5	Toluene-d8 (Surr)	95		71-118
460-00-4	4-Bromofluorobenzene (Surr)	83		70-118
1868-53-7	Dibromofluoromethane (Surr)	109		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005021.D
 Lims ID: 180-48181-A-8 Lab Sample ID: 180-48181-8
 Client ID: HD-QC3-0/1-1
 Sample Type: Client
 Inject. Date: 05-Oct-2015 18:10:30 ALS Bottle#: 21 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-48181-A-8
 Misc. Info.: 180-0008826-021
 Operator ID: 001562 Instrument ID: CHHP6
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 06-Oct-2015 09:21:02 Calib Date: 14-Sep-2015 16:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: fergusond

Date: 06-Oct-2015 09:21:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.232	4.230	0.002	93	178621	1000.0	
* 2 Fluorobenzene (IS)	96	7.292	7.290	0.002	97	412104	50.0	
* 3 Chlorobenzene-d5	119	10.394	10.399	-0.005	92	107887	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.748	12.747	0.001	98	176422	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.555	6.550	0.005	92	103125	54.3	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.933	6.928	0.005	70	161883	52.9	
\$ 7 Toluene-d8 (Surr)	98	8.940	8.941	-0.001	94	402104	47.3	
\$ 8 4-Bromofluorobenzene (Surr	95	11.586	11.587	-0.001	87	156042	41.3	
12 Chloromethane	50		1.769				ND	
13 Vinyl chloride	62		1.903				ND	
15 Bromomethane	94		2.243				ND	
16 Chloroethane	64		2.377				ND	
22 1,1-Dichloroethene	96	3.343	3.326	0.017	96	7945	3.83	
24 Acetone	43		3.430				ND	
26 Carbon disulfide	76		3.630				ND	
31 Methylene Chloride	84		4.117				ND	
33 Acrylonitrile	53		4.500				ND	
34 trans-1,2-Dichloroethene	96	4.572	4.555	0.017	19	1620	0.6767	
35 Methyl tert-butyl ether	73		4.573				ND	
37 1,1-Dichloroethane	63	5.205	5.194	0.011	1	24580	5.74	M
43 cis-1,2-Dichloroethene	96	5.947	5.942	0.005	82	281611	108.2	
44 2-Butanone (MEK)	43		5.948				ND	
48 Chlorobromomethane	128		6.228				ND	
50 Chloroform	83	6.379	6.368	0.011	21	1725	0.4055	
51 1,1,1-Trichloroethane	97	6.543	6.532	0.011	95	94691	30.1	
53 Carbon tetrachloride	117		6.715				ND	
56 Benzene	78		6.940				ND	
57 1,2-Dichloroethane	62		7.013				ND	
61 Trichloroethene	130	7.681	7.676	0.005	96	313589	156.6	
64 1,2-Dichloropropane	63		7.950				ND	
65 1,4-Dioxane	88		8.023				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83		8.229				ND	
71 cis-1,3-Dichloropropene	75		8.680				ND	
72 4-Methyl-2-pentanone (MIBK)	43		8.826				ND	
73 Toluene	91		9.008				ND	
74 trans-1,3-Dichloropropene	75		9.257				ND	
76 1,1,2-Trichloroethane	97		9.452				ND	
77 Tetrachloroethene	164	9.524	9.525	-0.001	94	821524	432.7	E
79 2-Hexanone	43		9.659				ND	
81 Chlorodibromomethane	129		9.823				ND	
82 Ethylene Dibromide	107		9.939				ND	
84 Chlorobenzene	112	10.431	10.426	0.005	33	2418	0.3534	M
86 1,1,1,2-Tetrachloroethane	131		10.523				ND	
87 Ethylbenzene	106		10.529				ND	
88 m-Xylene & p-Xylene	106		10.657				ND	
89 o-Xylene	106		11.040				ND	
90 Styrene	104		11.058				ND	
91 Bromoform	173		11.247				ND	
96 1,1,2,2-Tetrachloroethane	83		11.715				ND	
S 131 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00042

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00042

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005021.D

Injection Date: 05-Oct-2015 18:10:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: 180-48181-A-8

Lab Sample ID: 180-48181-8

Worklist Smp#: 21

Client ID: HD-QC3-0/1-1

Purge Vol: 5.000 mL

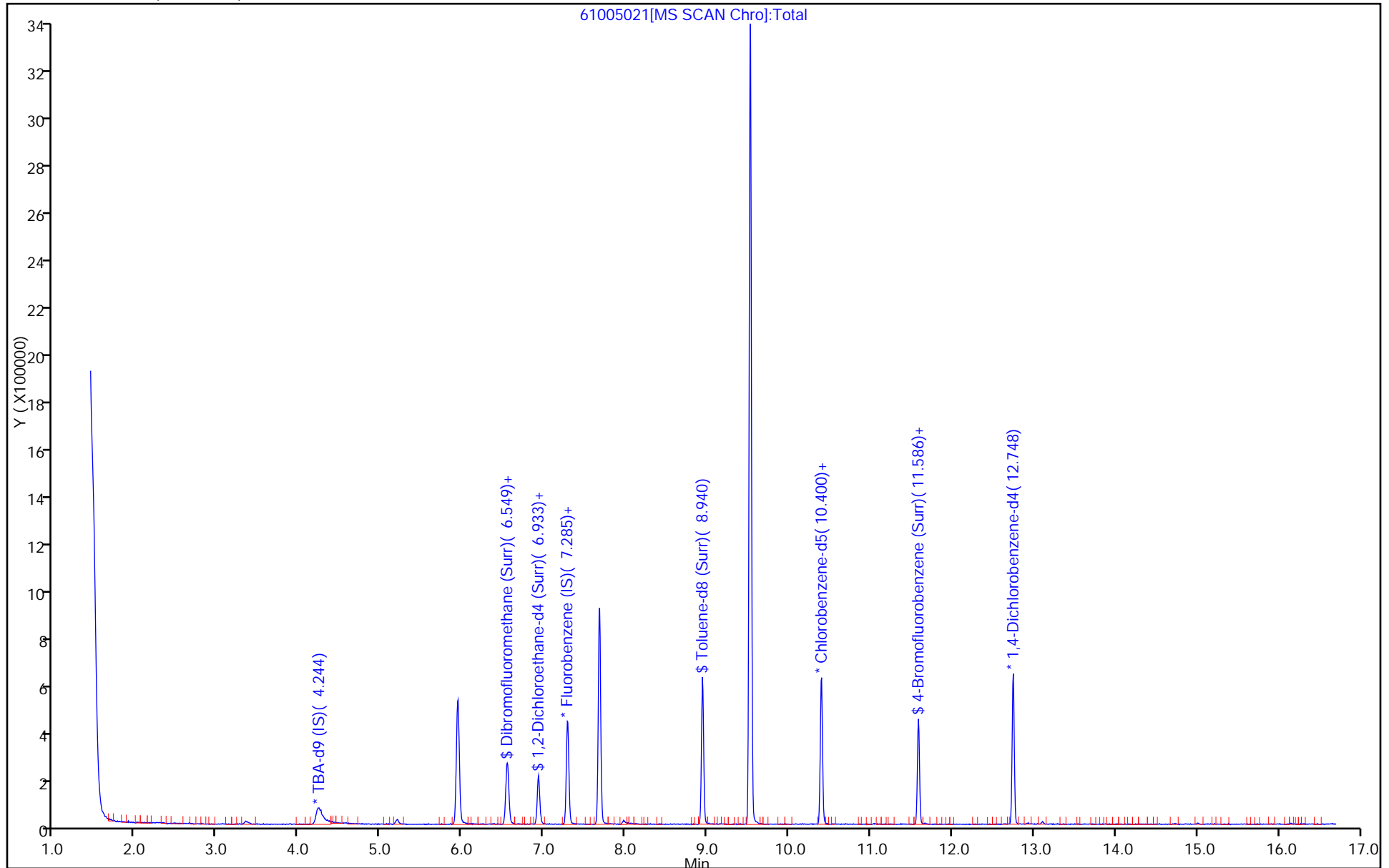
Dil. Factor: 1.0000

ALS Bottle#: 21

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005021.D

Injection Date: 05-Oct-2015 18:10:30

Instrument ID: CHHP6

Lims ID: 180-48181-A-8

Lab Sample ID: 180-48181-8

Client ID: HD-QC3-0/1-1

Operator ID: 001562

ALS Bottle#: 21 Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

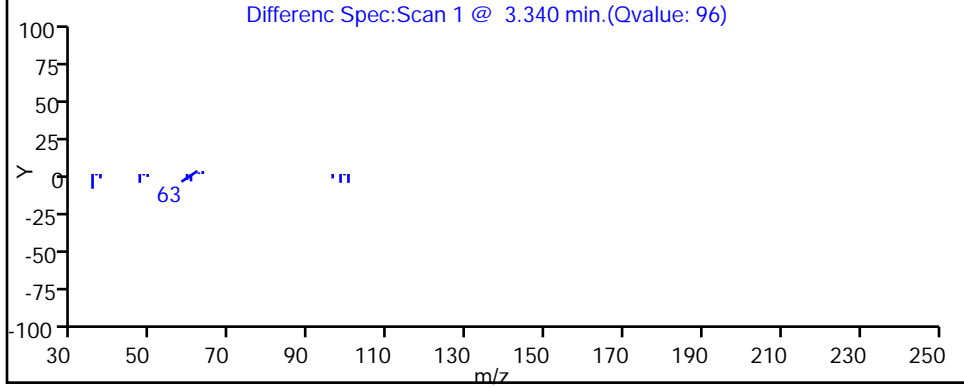
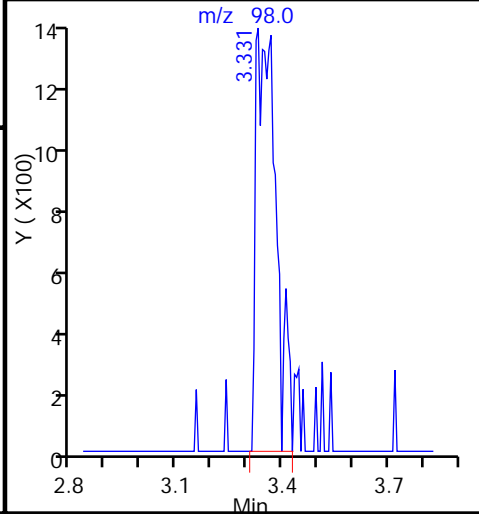
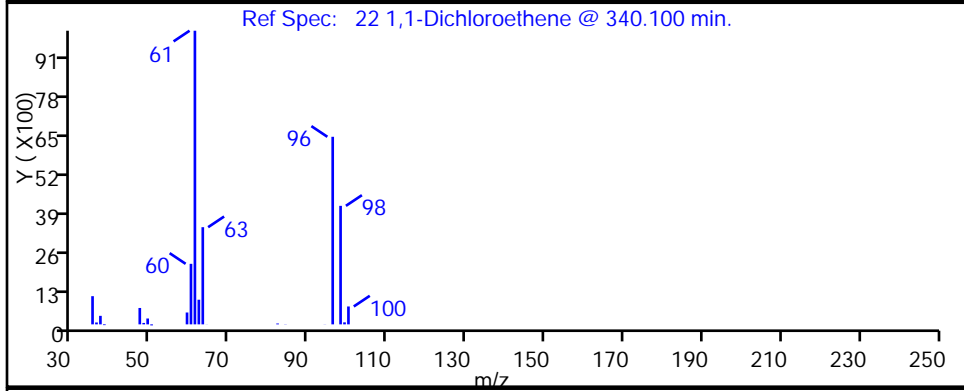
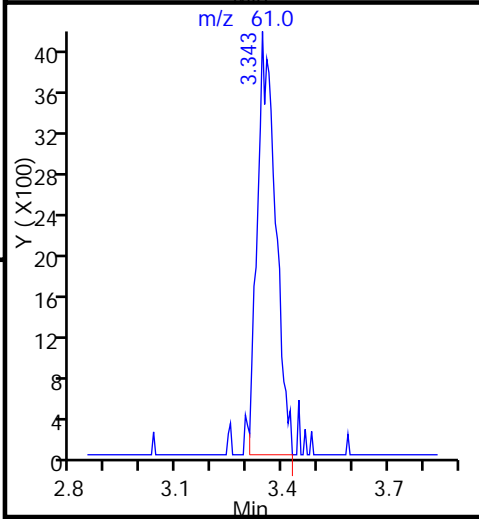
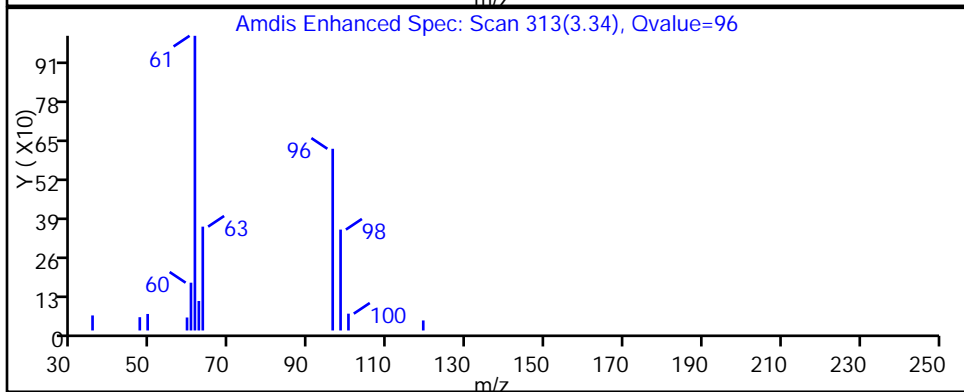
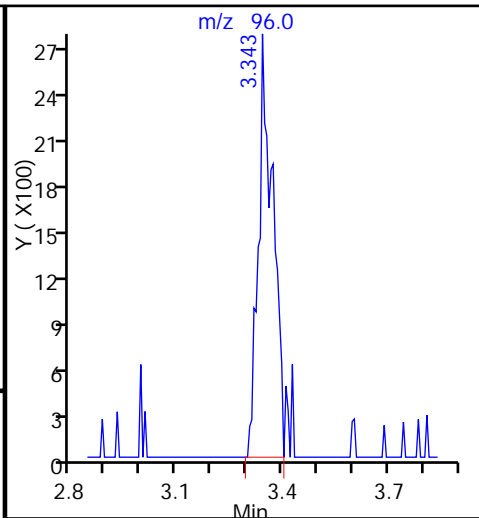
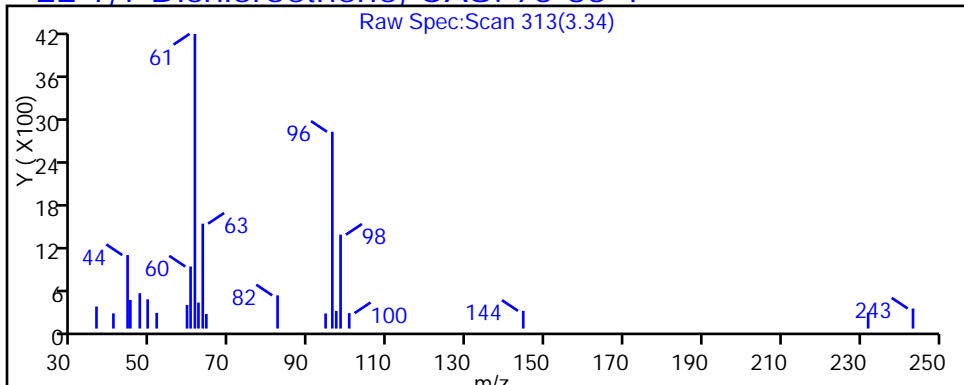
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005021.D

Injection Date: 05-Oct-2015 18:10:30

Instrument ID: CHHP6

Lims ID: 180-48181-A-8

Lab Sample ID: 180-48181-8

Client ID: HD-QC3-0/1-1

Operator ID: 001562

ALS Bottle#: 21

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

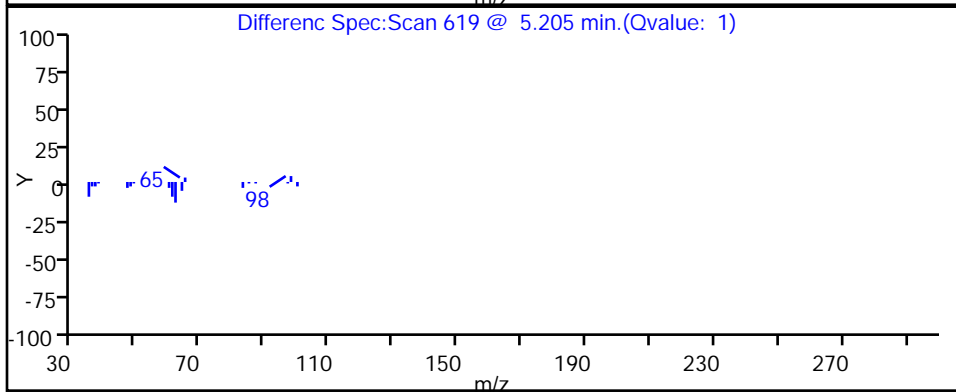
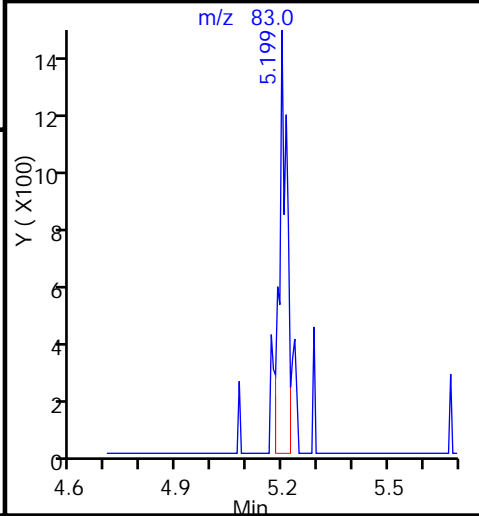
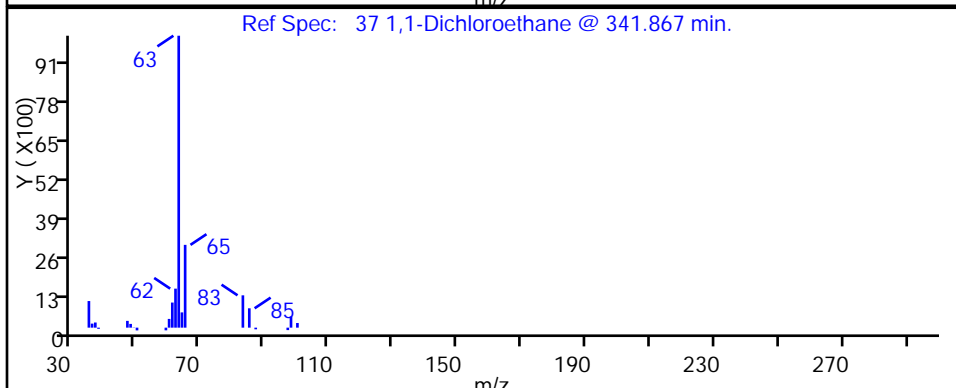
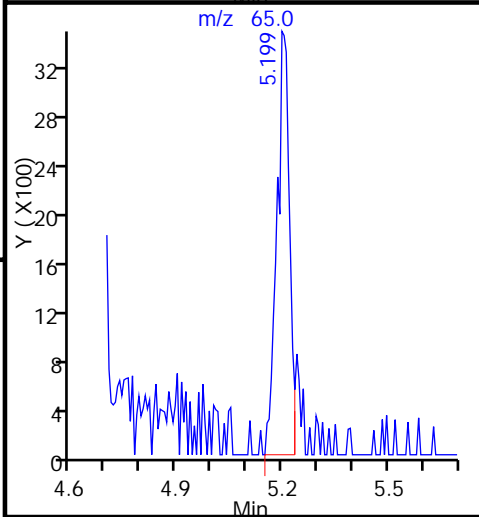
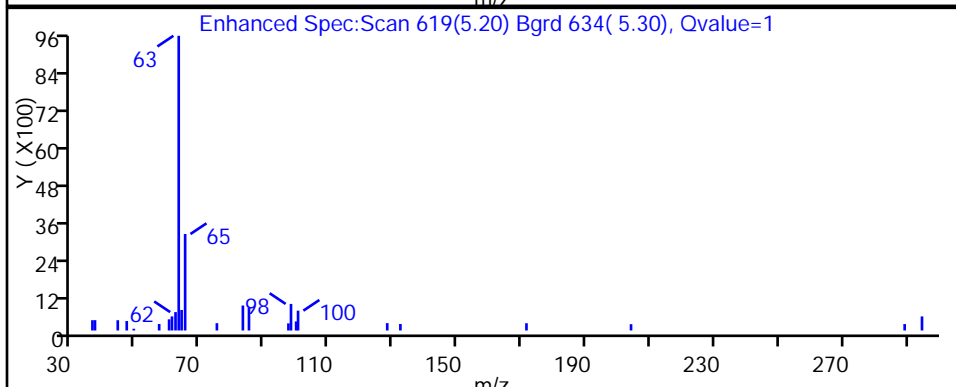
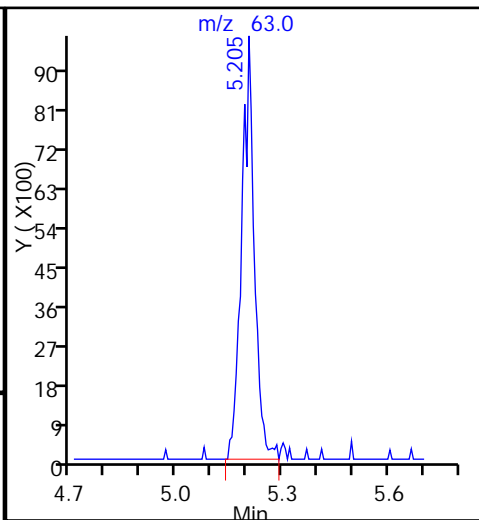
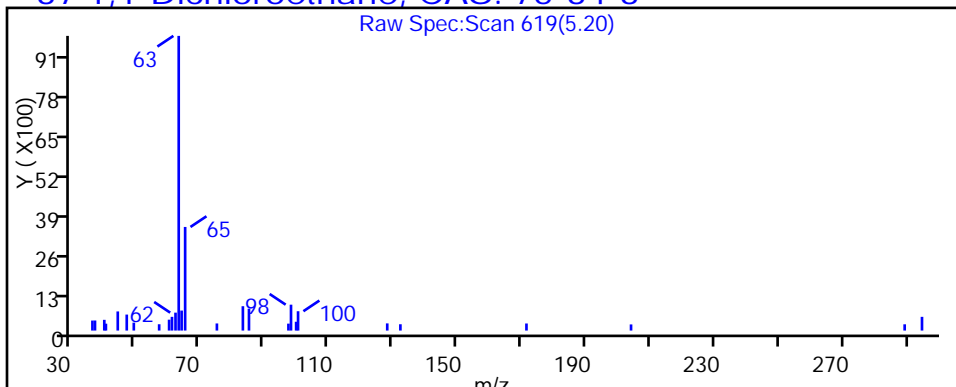
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005021.D

Injection Date: 05-Oct-2015 18:10:30

Instrument ID: CHHP6

Lims ID: 180-48181-A-8

Lab Sample ID: 180-48181-8

Client ID: HD-QC3-0/1-1

Operator ID: 001562

ALS Bottle#: 21

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

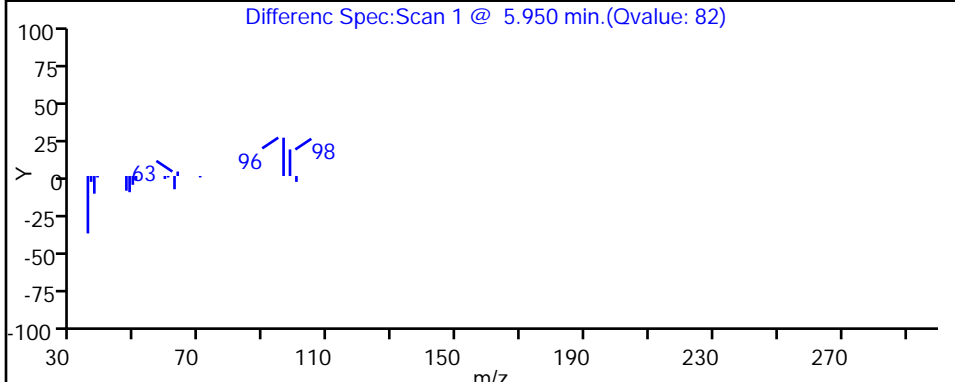
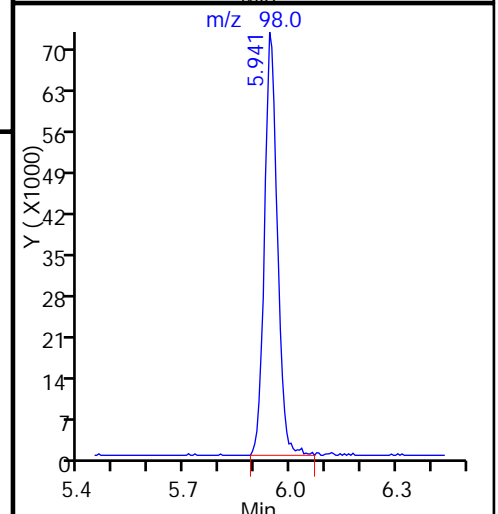
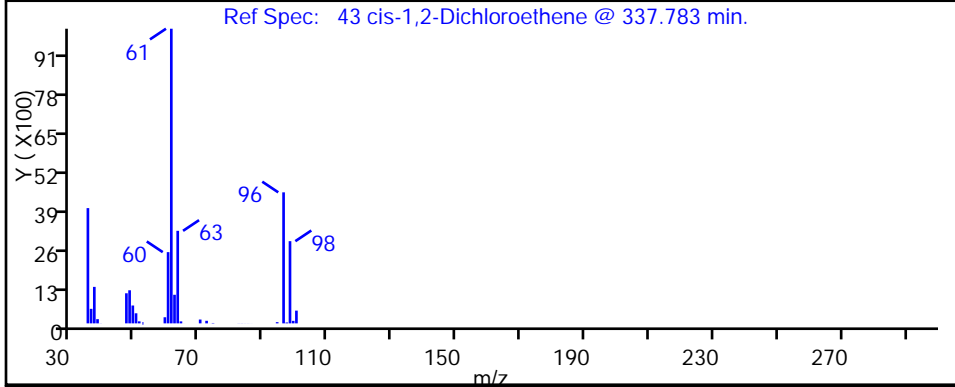
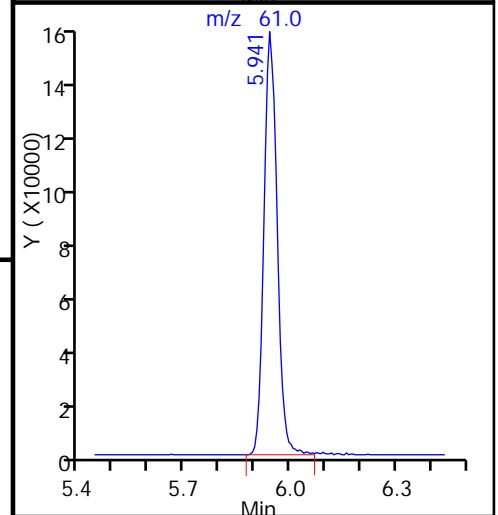
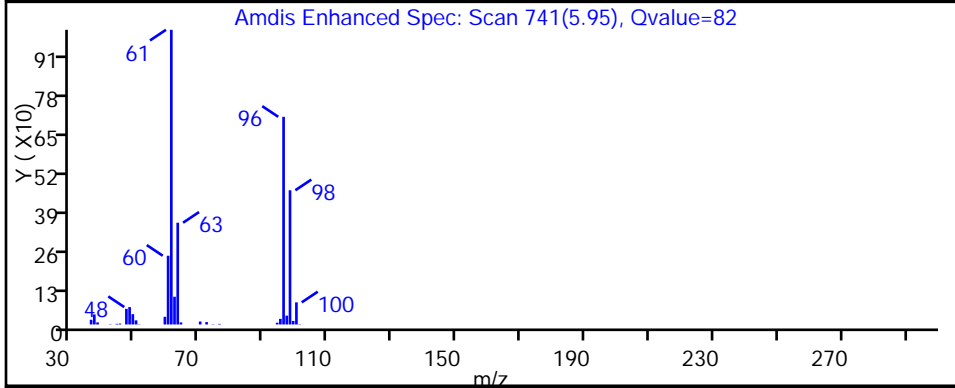
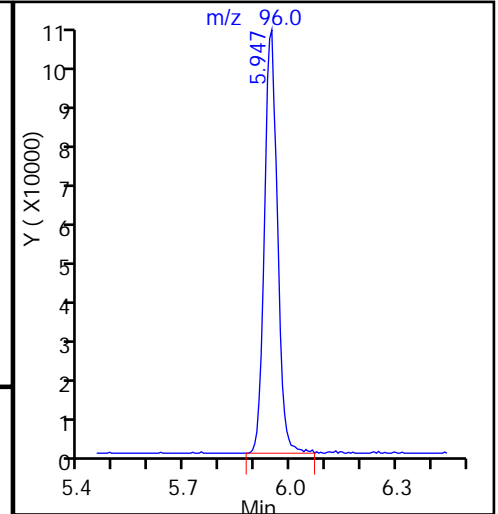
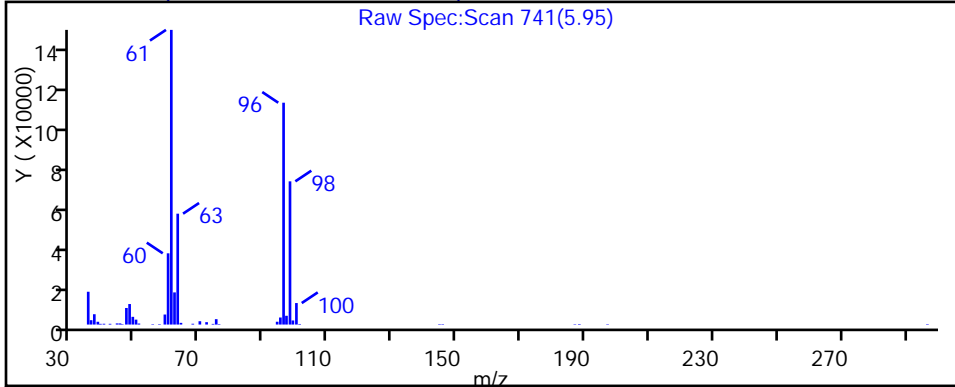
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005021.D

Injection Date: 05-Oct-2015 18:10:30

Instrument ID: CHHP6

Lims ID: 180-48181-A-8

Lab Sample ID: 180-48181-8

Client ID: HD-QC3-0/1-1

Operator ID: 001562

ALS Bottle#: 21

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

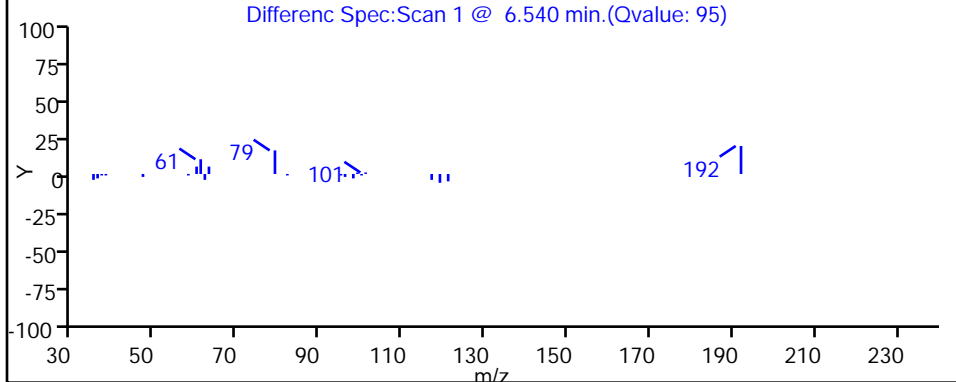
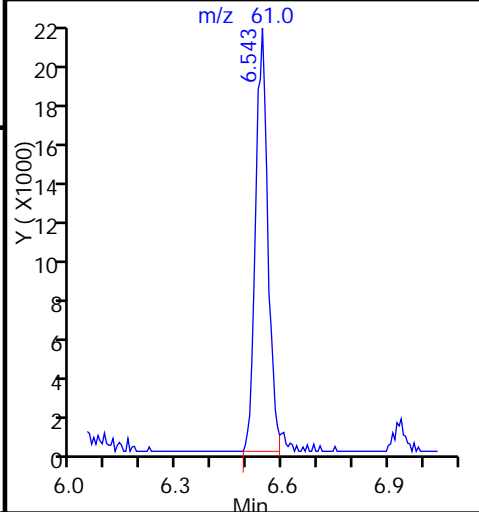
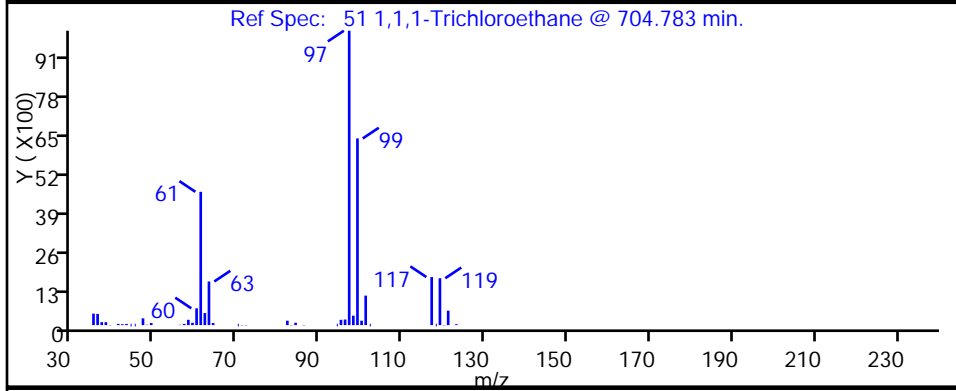
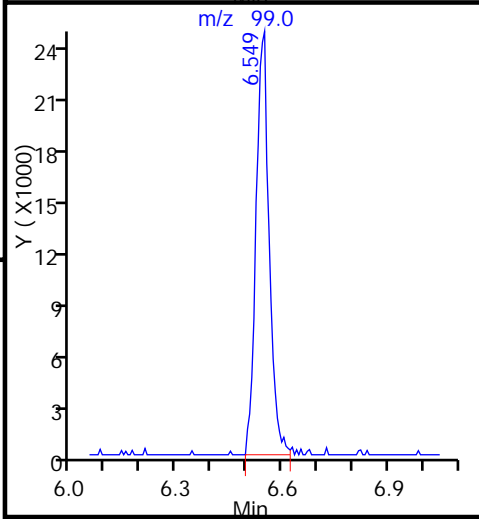
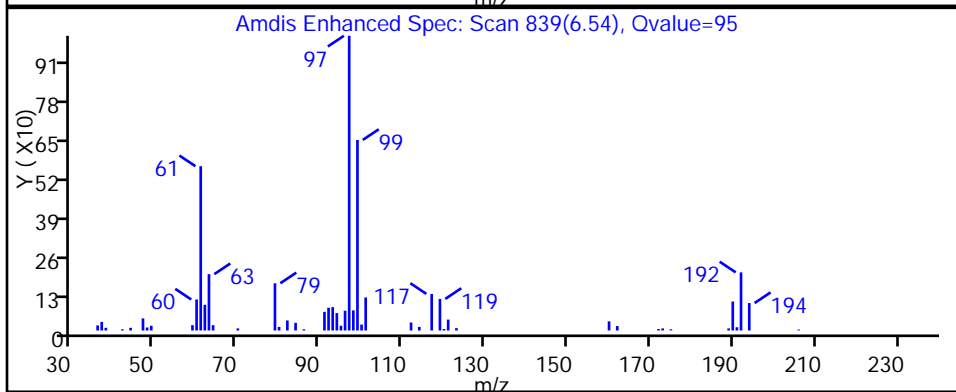
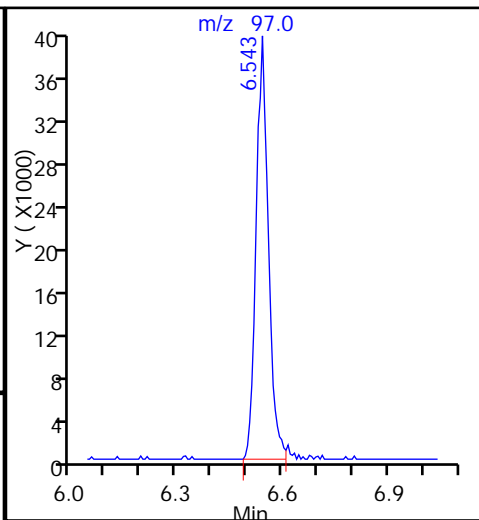
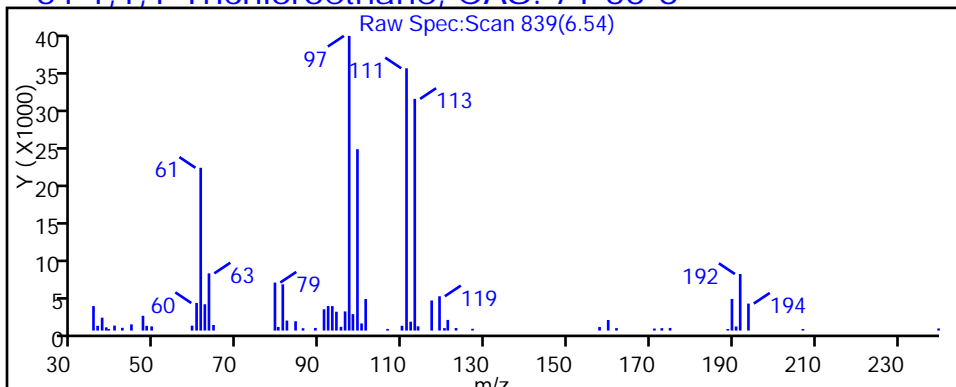
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005021.D

Injection Date: 05-Oct-2015 18:10:30

Instrument ID: CHHP6

Lims ID: 180-48181-A-8

Lab Sample ID: 180-48181-8

Client ID: HD-QC3-0/1-1

Operator ID: 001562

ALS Bottle#: 21

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

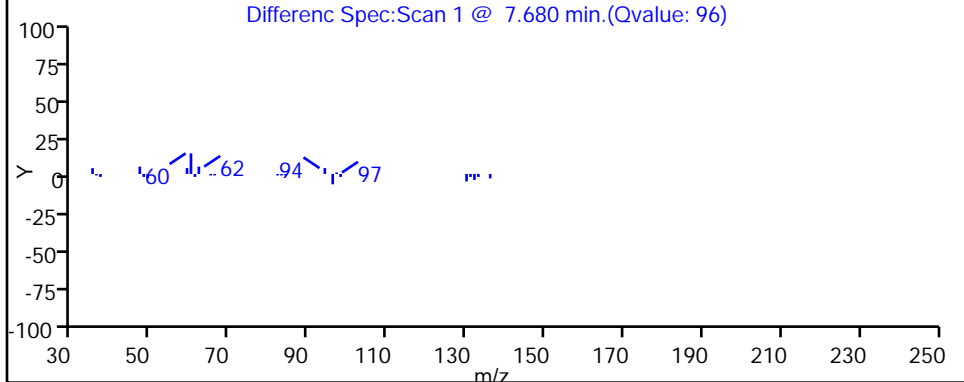
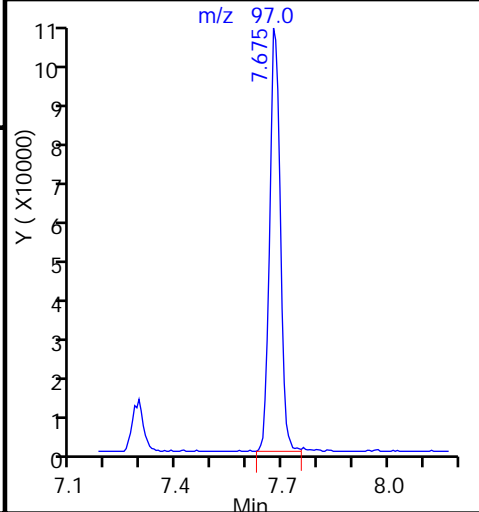
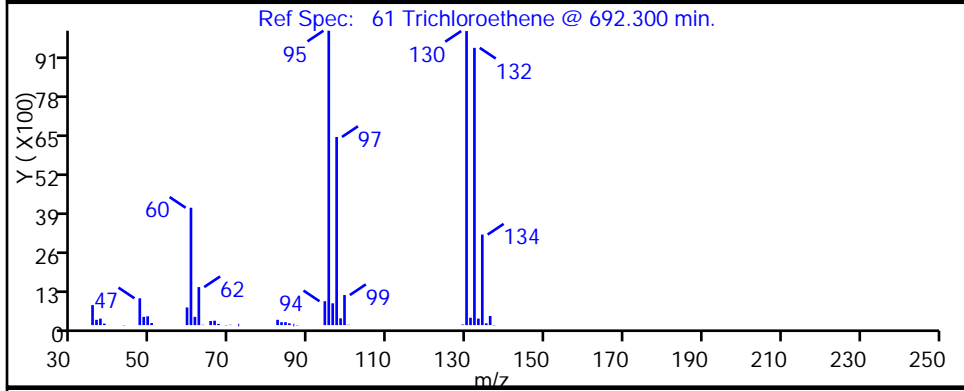
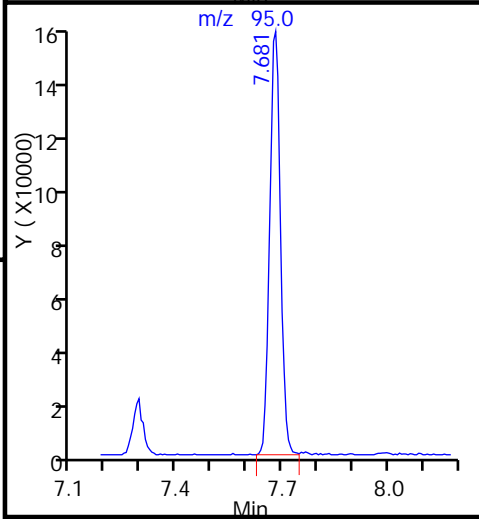
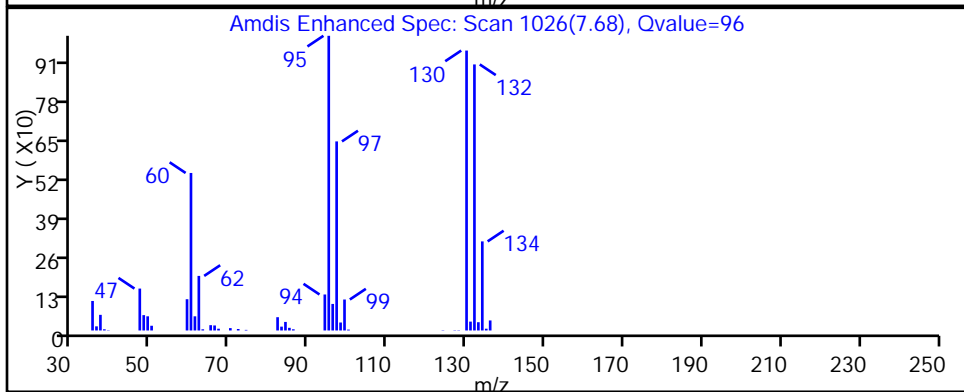
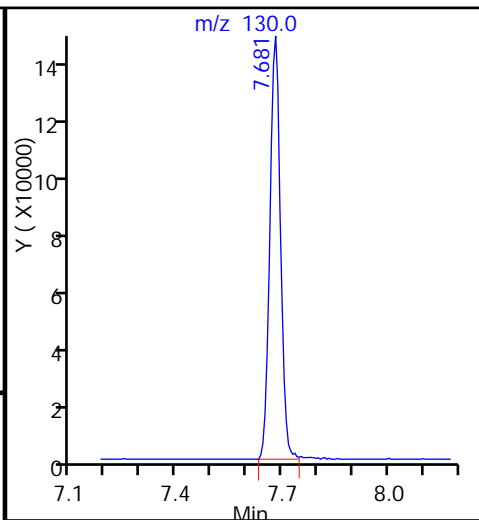
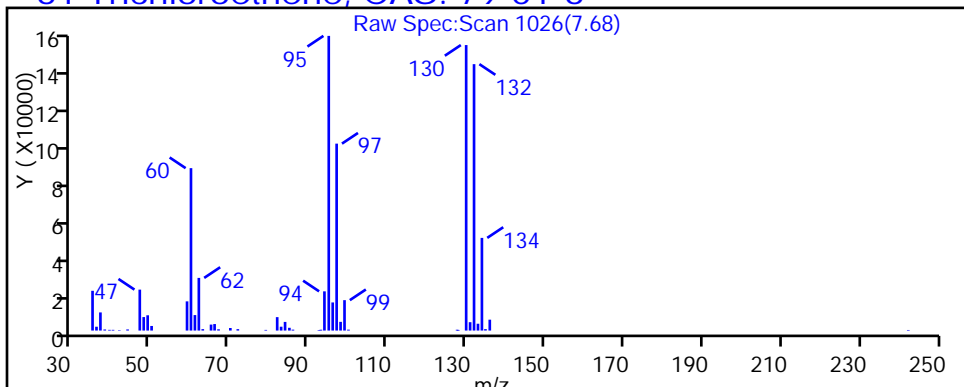
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

61 Trichloroethene, CAS: 79-01-6



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005021.D

Injection Date: 05-Oct-2015 18:10:30

Instrument ID: CHHP6

Lims ID: 180-48181-A-8

Lab Sample ID: 180-48181-8

Client ID: HD-QC3-0/1-1

Operator ID: 001562

ALS Bottle#: 21

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

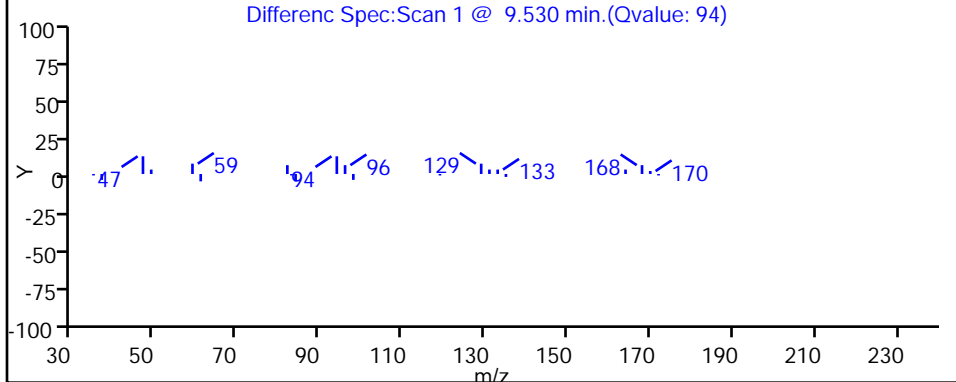
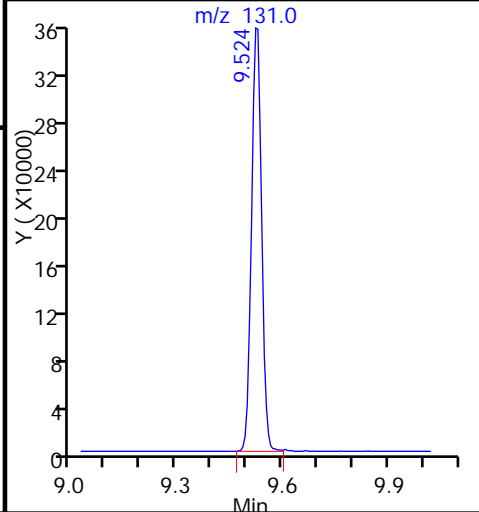
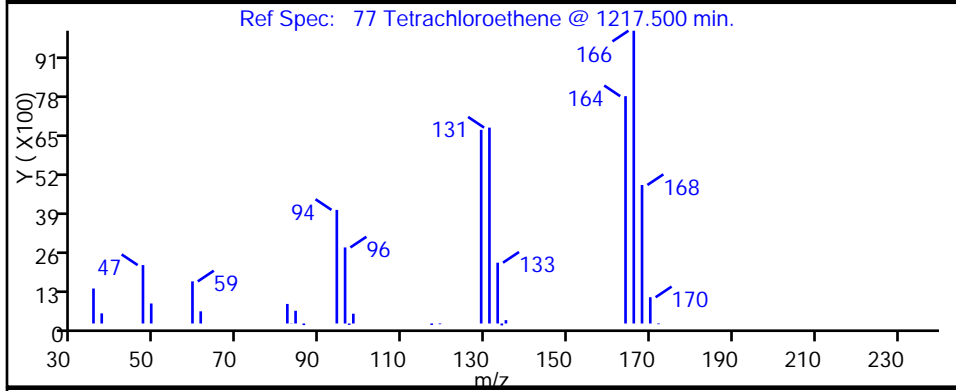
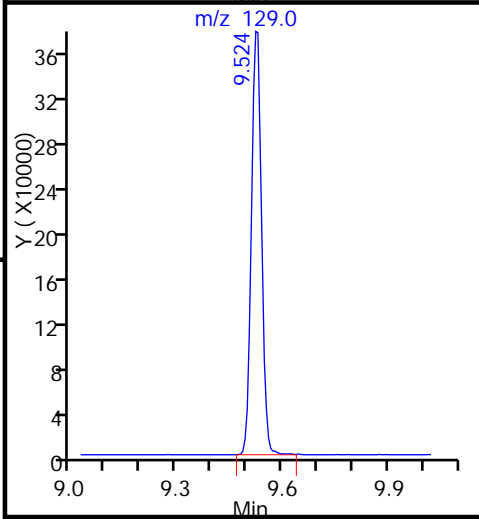
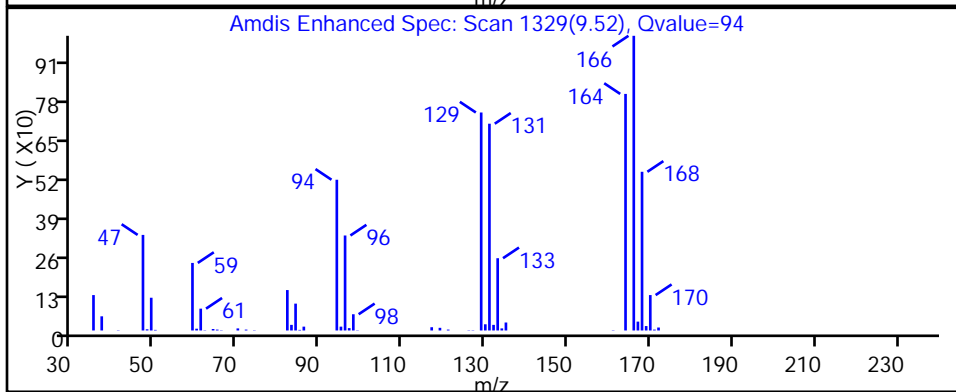
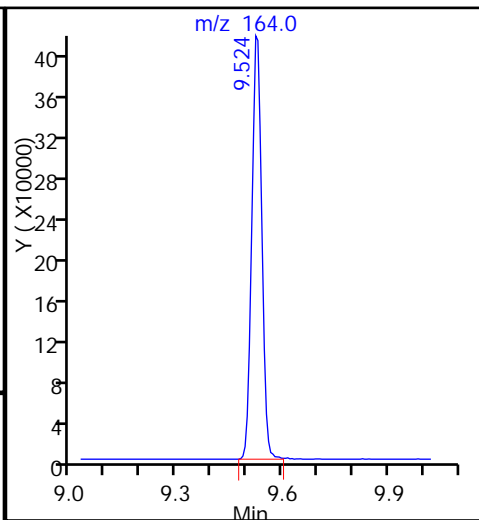
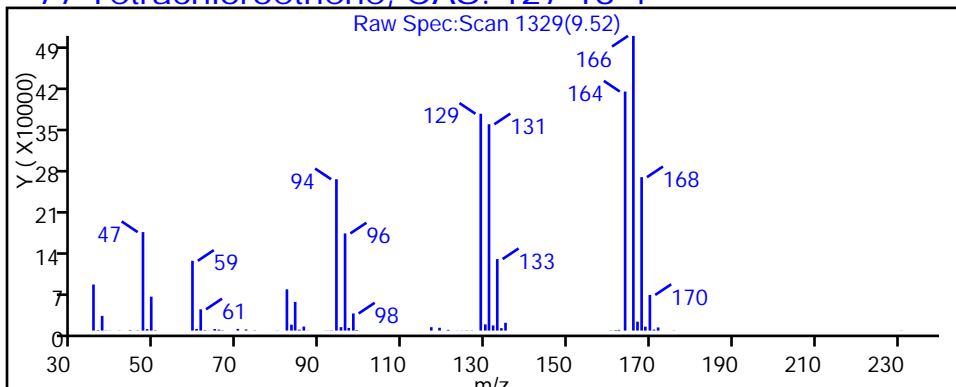
Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

77 Tetrachloroethene, CAS: 127-18-4



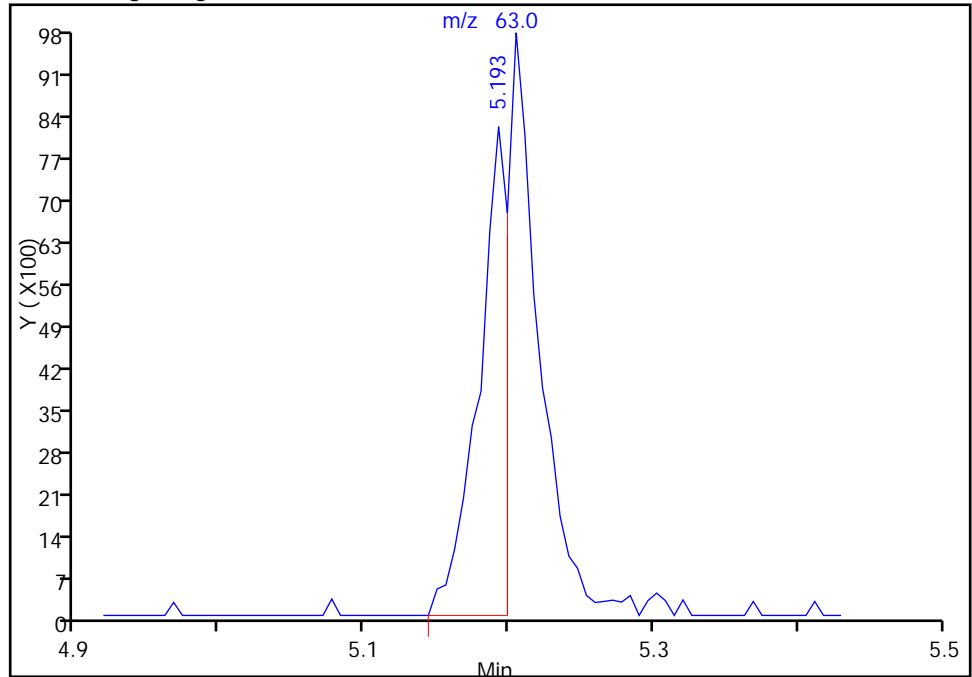
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005021.D
Injection Date: 05-Oct-2015 18:10:30 Instrument ID: CHHP6
Lims ID: 180-48181-A-8 Lab Sample ID: 180-48181-8
Client ID: HD-QC3-0/1-1
Operator ID: 001562 ALS Bottle#: 21 Worklist Smp#: 21
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

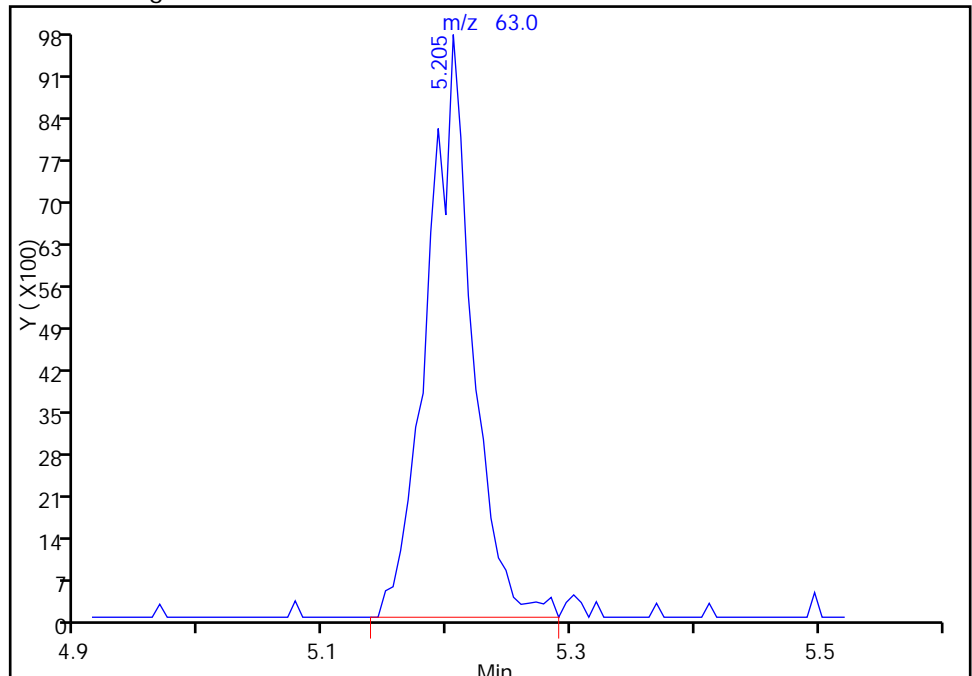
RT: 5.19
Area: 11801
Amount: 2.753510
Amount Units: ng

Processing Integration Results



RT: 5.20
Area: 24580
Amount: 5.735216
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 06-Oct-2015 09:21:02
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

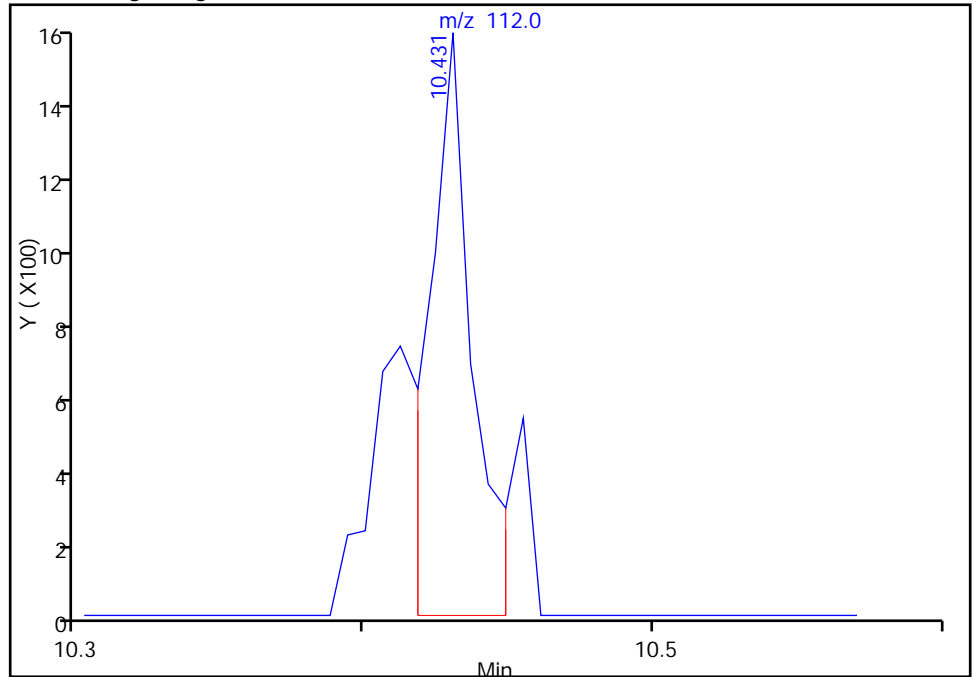
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005021.D
Injection Date: 05-Oct-2015 18:10:30 Instrument ID: CHHP6
Lims ID: 180-48181-A-8 Lab Sample ID: 180-48181-8
Client ID: HD-QC3-0/1-1
Operator ID: 001562 ALS Bottle#: 21 Worklist Smp#: 21
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

84 Chlorobenzene, CAS: 108-90-7

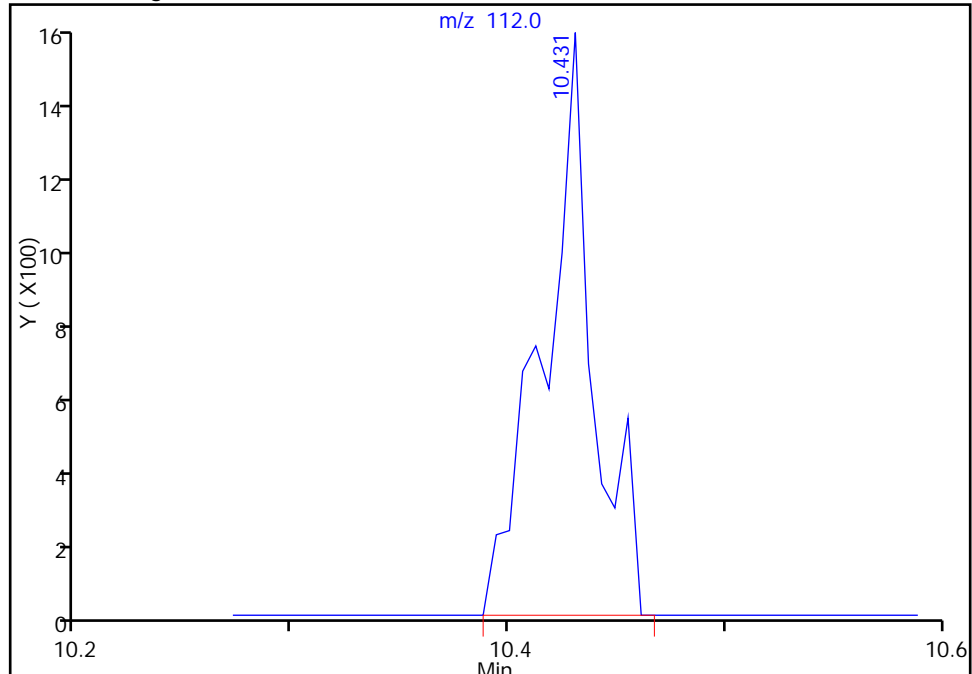
RT: 10.43
Area: 1584
Amount: 0.231496
Amount Units: ng

Processing Integration Results



RT: 10.43
Area: 2418
Amount: 0.353382
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 06-Oct-2015 09:21:02
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-QC3-0/1-1 DL Lab Sample ID: 180-48181-8 DL
 Matrix: Water Lab File ID: 51006018.D
 Analysis Method: 8260C Date Collected: 09/25/2015 08:00
 Sample wt/vol: 5 (mL) Date Analyzed: 10/06/2015 19:08
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 156037 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		5.0	1.4
75-01-4	Vinyl chloride	ND		5.0	1.1
74-83-9	Bromomethane	ND		5.0	1.6
75-00-3	Chloroethane	ND	^c	5.0	1.1
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
67-64-1	Acetone	ND		25	13
75-15-0	Carbon disulfide	ND		5.0	1.1
75-09-2	Methylene Chloride	ND		5.0	0.63
156-60-5	trans-1,2-Dichloroethene	ND		5.0	0.85
1634-04-4	Methyl tert-butyl ether	ND		5.0	0.92
75-34-3	1,1-Dichloroethane	1.0	J	5.0	0.58
156-59-2	cis-1,2-Dichloroethene	21		5.0	1.2
74-97-5	Bromochloromethane	ND		5.0	0.90
78-93-3	2-Butanone (MEK)	ND		25	2.7
67-66-3	Chloroform	ND		5.0	0.85
71-55-6	1,1,1-Trichloroethane	5.2		5.0	1.4
56-23-5	Carbon tetrachloride	ND		5.0	0.68
71-43-2	Benzene	ND		5.0	0.53
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
79-01-6	Trichloroethene	26		5.0	0.72
78-87-5	1,2-Dichloropropane	ND		5.0	0.47
75-27-4	Bromodichloromethane	ND		5.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	0.93
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	2.6
108-88-3	Toluene	ND		5.0	0.75
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	0.74
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.0
127-18-4	Tetrachloroethene	82		5.0	0.74
591-78-6	2-Hexanone	ND		25	0.80
124-48-1	Dibromochloromethane	ND		5.0	0.68
106-93-4	1,2-Dibromoethane (EDB)	ND		5.0	0.90
108-90-7	Chlorobenzene	ND		5.0	0.68
630-20-6	1,1,1,2-Tetrachloroethane	ND		5.0	1.4
100-41-4	Ethylbenzene	ND		5.0	1.1
1330-20-7	Xylenes, Total	ND		15	2.4
100-42-5	Styrene	ND		5.0	0.48

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-QC3-0/1-1 DL Lab Sample ID: 180-48181-8 DL
 Matrix: Water Lab File ID: 51006018.D
 Analysis Method: 8260C Date Collected: 09/25/2015 08:00
 Sample wt/vol: 5 (mL) Date Analyzed: 10/06/2015 19:08
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 156037 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	<i>Bromoform</i>	ND		5.0	0.96
79-34-5	<i>1,1,2,2-Tetrachloroethane</i>	ND		5.0	1.0
107-13-1	<i>Acrylonitrile</i>	ND		100	2.7
123-91-1	<i>1,4-Dioxane</i>	ND		1000	170

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		64-135
2037-26-5	Toluene-d8 (Surr)	90		71-118
460-00-4	4-Bromofluorobenzene (Surr)	86		70-118
1868-53-7	Dibromofluoromethane (Surr)	104		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006018.D
 Lims ID: 180-48181-B-8 Lab Sample ID: 180-48181-8
 Client ID: HD-QC3-0/1-1
 Sample Type: Client
 Inject. Date: 06-Oct-2015 19:08:30 ALS Bottle#: 16 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 180-48181-B-8, 5x
 Misc. Info.: 180-0008850-018
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 07-Oct-2015 07:56:24 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: fergusond

Date: 07-Oct-2015 07:56:24

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.260	4.279	-0.019	0	133712	1000.0	
* 2 Fluorobenzene (IS)	96	7.296	7.290	0.006	99	278190	50.0	
* 3 Chlorobenzene-d5	119	10.386	10.387	-0.001	87	75395	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.728	12.729	-0.001	94	108160	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.566	6.560	0.006	94	71350	52.2	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.937	6.937	0.000	0	89605	47.8	
\$ 7 Toluene-d8 (Surr)	98	8.938	8.939	-0.001	94	261503	45.0	
\$ 8 4-Bromofluorobenzene (Surr	95	11.573	11.573	0.000	91	93805	42.8	
12 Chloromethane	50		1.779				ND	
13 Vinyl chloride	62		1.912				ND	
15 Bromomethane	94		2.247				ND	
16 Chloroethane	64		2.399				ND	
22 1,1-Dichloroethene	96	3.403	3.348	0.055	0	883	0.5699	M
24 Acetone	43		3.451				ND	
26 Carbon disulfide	76		3.652				ND	
31 Methylene Chloride	84		4.133				ND	
33 Acrylonitrile	53		4.528				ND	
34 trans-1,2-Dichloroethene	96		4.565				ND	
35 Methyl tert-butyl ether	73		4.583				ND	
37 1,1-Dichloroethane	63	5.197	5.204	-0.007	1	3369	1.02	
45 cis-1,2-Dichloroethene	96	5.958	5.958	0.000	81	37662	21.0	
46 2-Butanone (MEK)	43		5.964				ND	
49 Chlorobromomethane	128		6.238				ND	
52 Chloroform	83		6.384				ND	
53 1,1,1-Trichloroethane	97	6.554	6.542	0.012	89	10993	5.19	
56 Carbon tetrachloride	117		6.718				ND	
58 Benzene	78		6.943				ND	
59 1,2-Dichloroethane	62		7.022				ND	
64 Trichloroethene	130	7.679	7.679	0.000	94	43331	25.8	
67 1,2-Dichloropropane	63		7.947				ND	
70 1,4-Dioxane	88		8.032				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.233				ND	
74 cis-1,3-Dichloropropene	75		8.677				ND	
75 4-Methyl-2-pentanone (MIBK)	43		8.829				ND	
76 Toluene	91		9.006				ND	
77 trans-1,3-Dichloropropene	75		9.255				ND	
79 1,1,2-Trichloroethane	97		9.450				ND	
80 Tetrachloroethene	164	9.516	9.517	-0.001	98	119138	82.2	
82 2-Hexanone	43		9.663				ND	
84 Chlorodibromomethane	129		9.815				ND	
85 Ethylene Dibromide	107		9.930				ND	
87 Chlorobenzene	112		10.417				ND	
89 1,1,1,2-Tetrachloroethane	131		10.514				ND	
90 Ethylbenzene	106		10.514				ND	
91 m-Xylene & p-Xylene	106		10.648				ND	
92 o-Xylene	106		11.031				ND	
93 Styrene	104		11.050				ND	
94 Bromoform	173		11.232				ND	
99 1,1,2,2-Tetrachloroethane	83		11.707				ND	
S 133 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00042

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00042

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006018.D

Injection Date: 06-Oct-2015 19:08:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: 180-48181-B-8

Lab Sample ID: 180-48181-8

Worklist Smp#: 18

Client ID: HD-QC3-0/1-1

Purge Vol: 5.000 mL

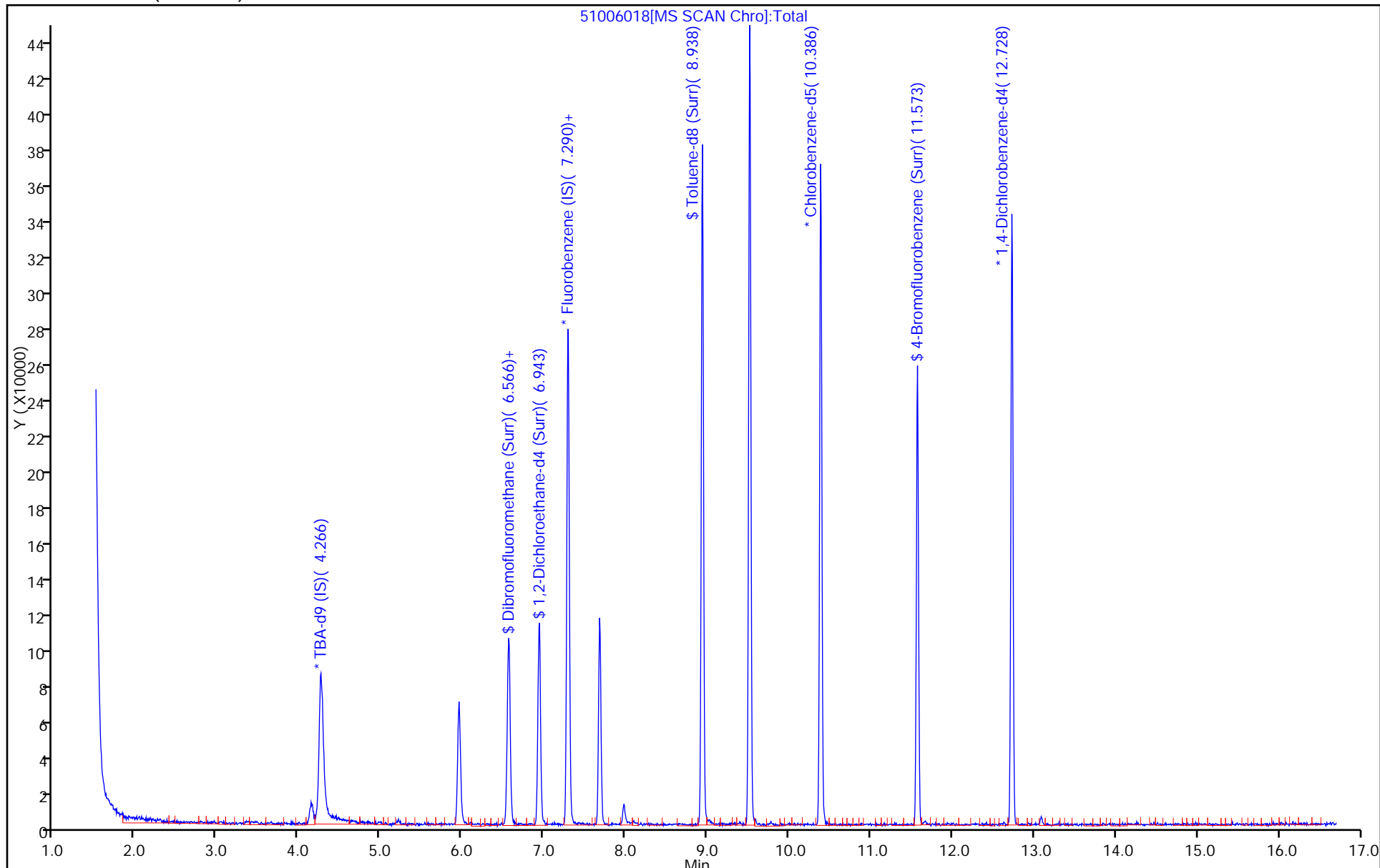
Dil. Factor: 5.0000

ALS Bottle#: 16

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006018.D

Injection Date: 06-Oct-2015 19:08:30

Instrument ID: CHHP5

Lims ID: 180-48181-B-8

Lab Sample ID: 180-48181-8

Client ID: HD-QC3-0/1-1

Operator ID: 001562

ALS Bottle#: 16

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

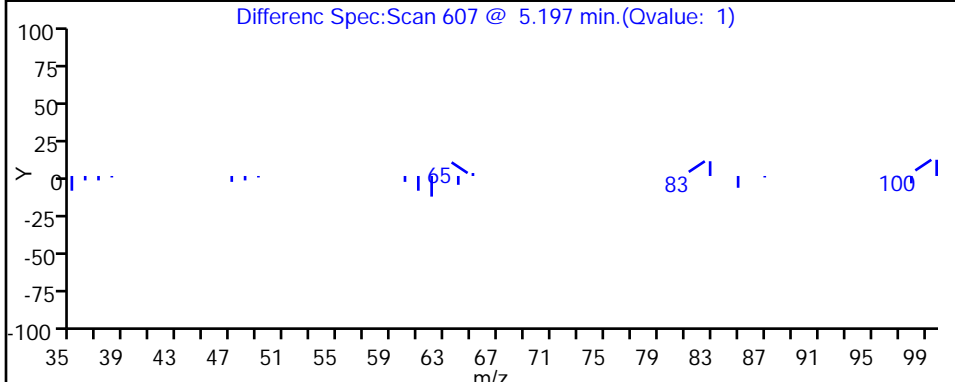
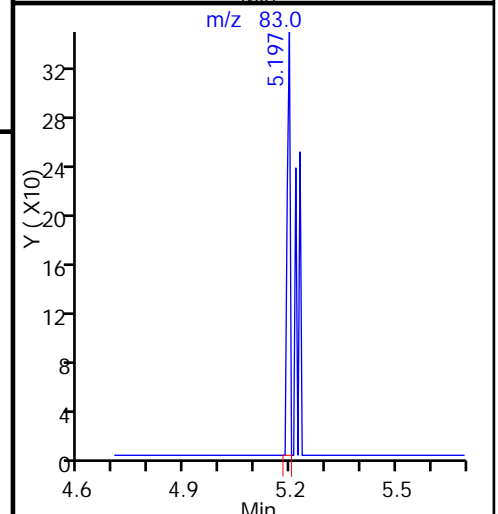
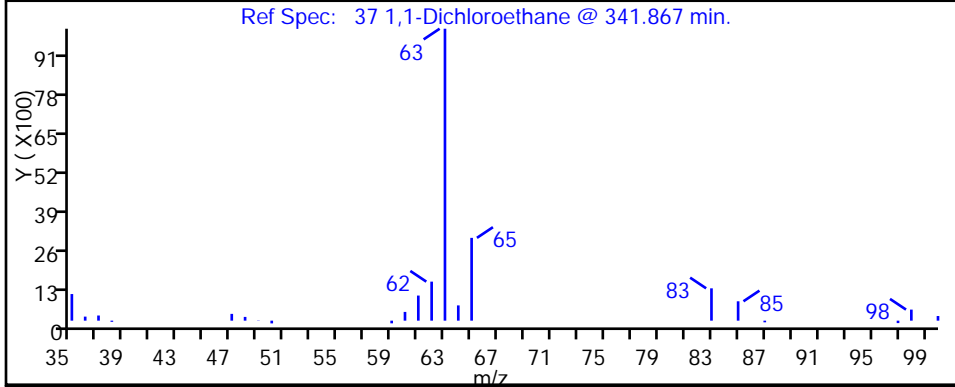
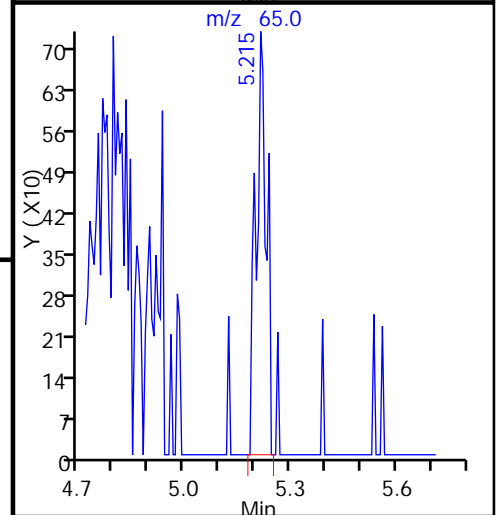
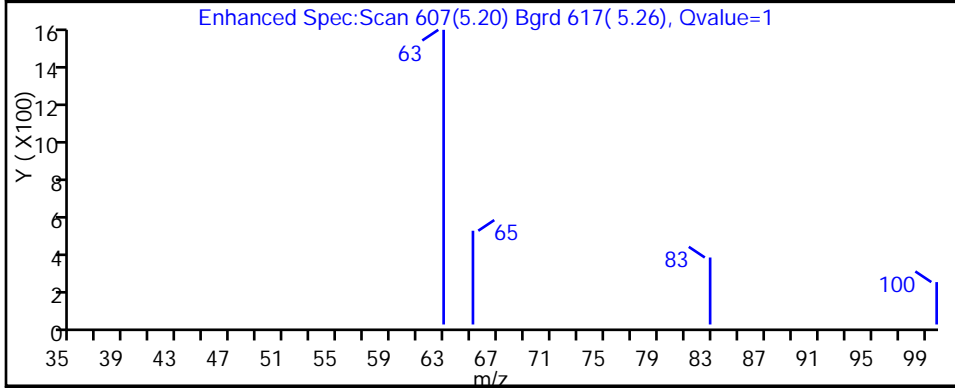
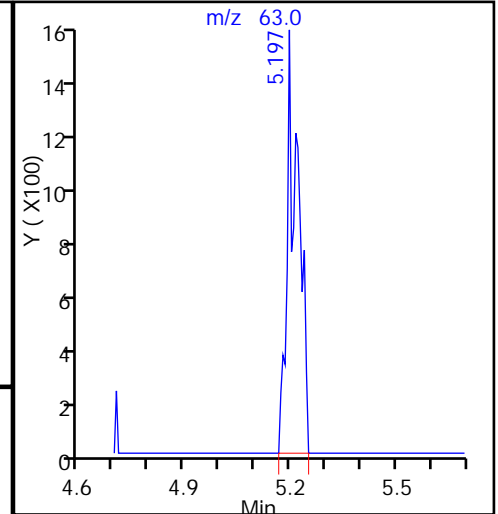
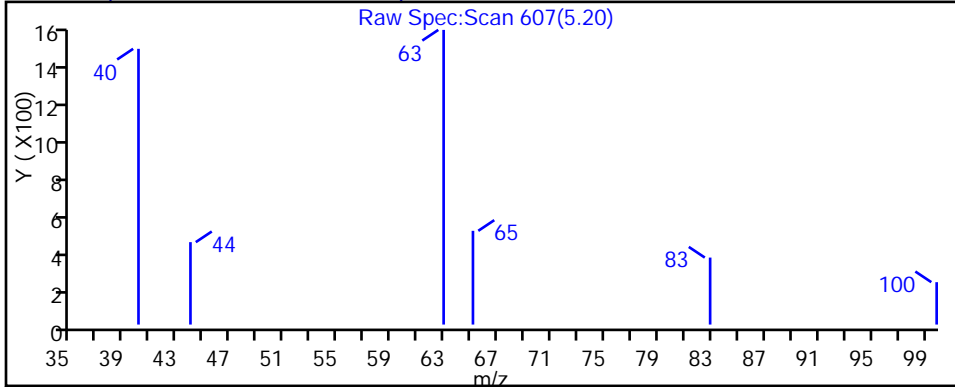
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006018.D

Injection Date: 06-Oct-2015 19:08:30

Instrument ID: CHHP5

Lims ID: 180-48181-B-8

Lab Sample ID: 180-48181-8

Client ID: HD-QC3-0/1-1

Operator ID: 001562

ALS Bottle#: 16

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

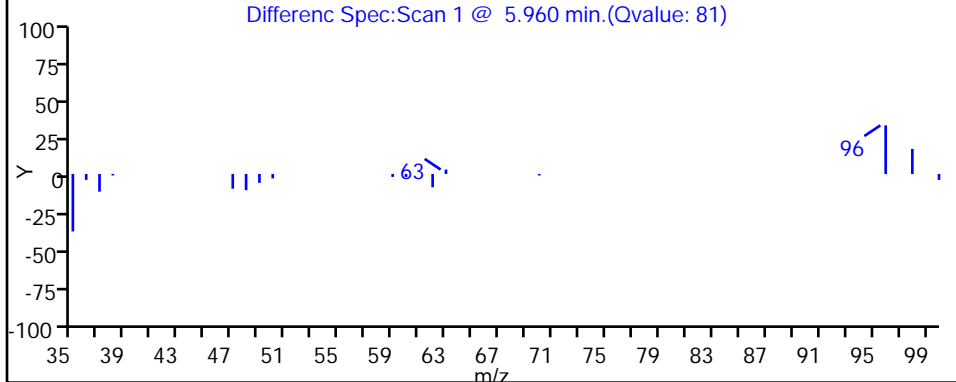
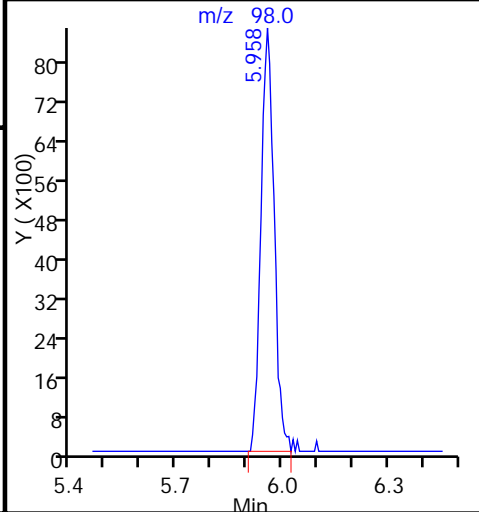
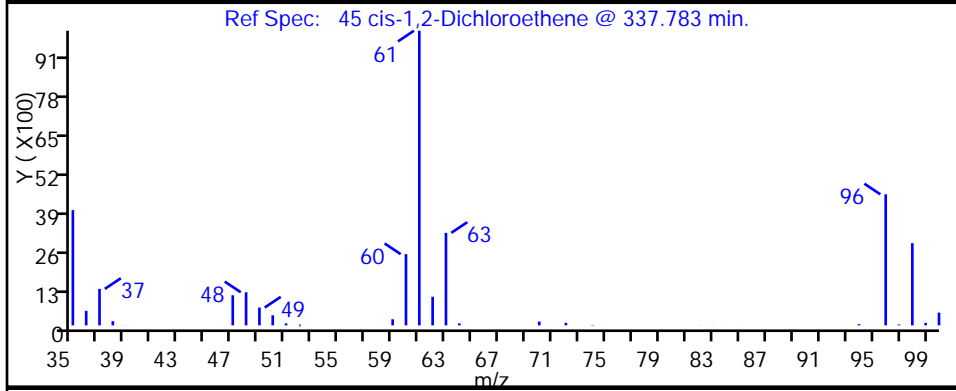
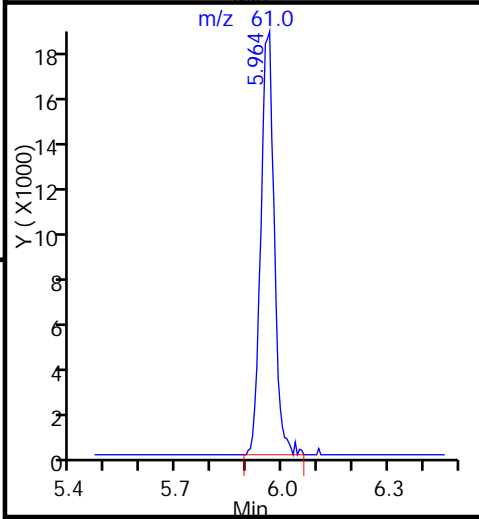
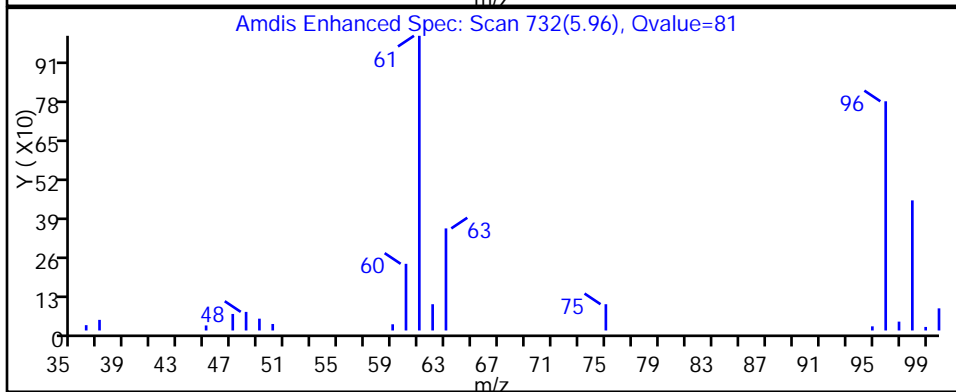
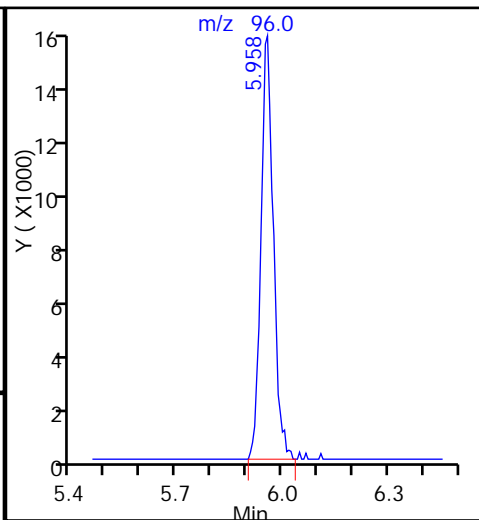
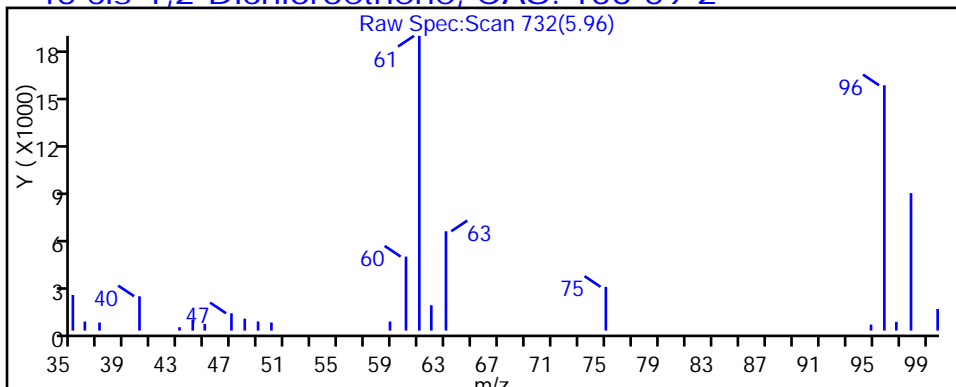
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

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



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006018.D

Injection Date: 06-Oct-2015 19:08:30

Instrument ID: CHHP5

Lims ID: 180-48181-B-8

Lab Sample ID: 180-48181-8

Client ID: HD-QC3-0/1-1

Operator ID: 001562

ALS Bottle#: 16

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

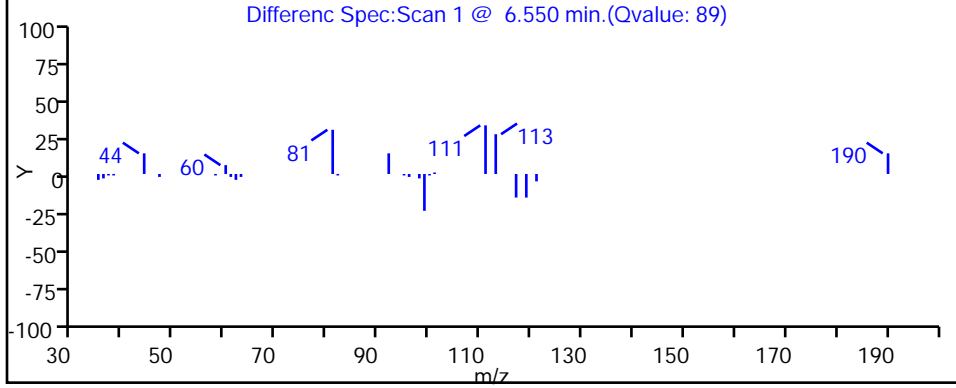
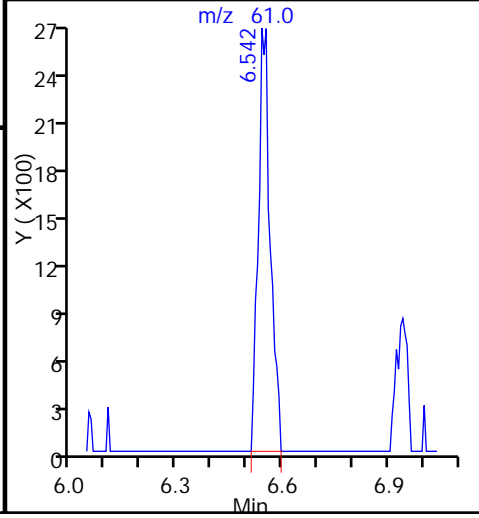
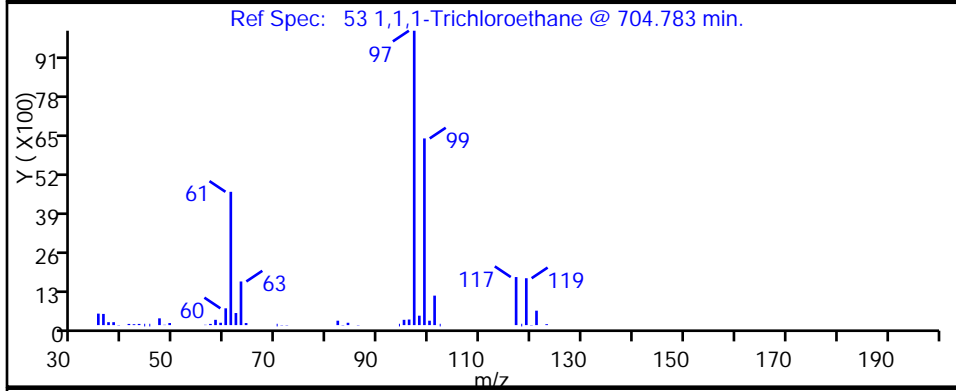
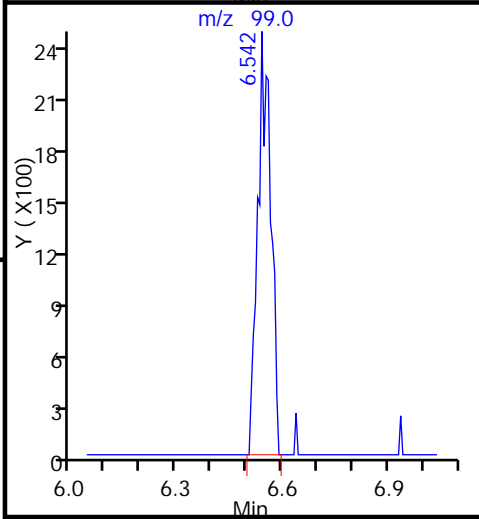
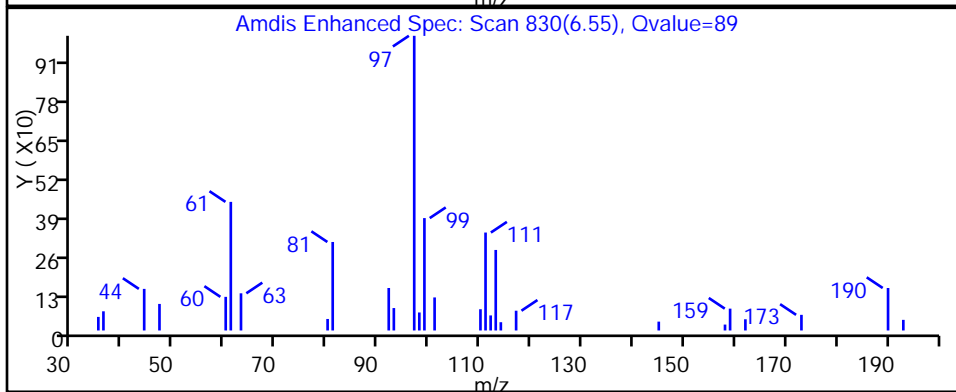
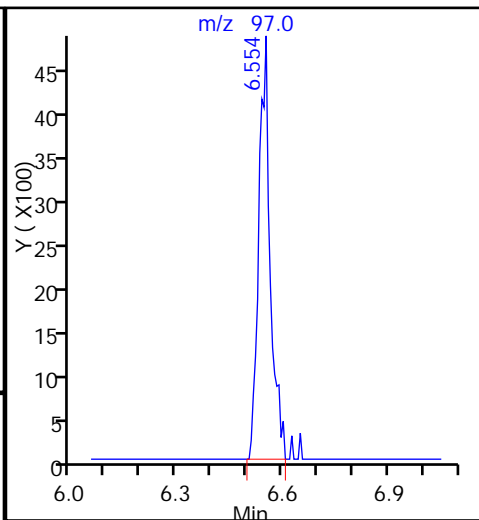
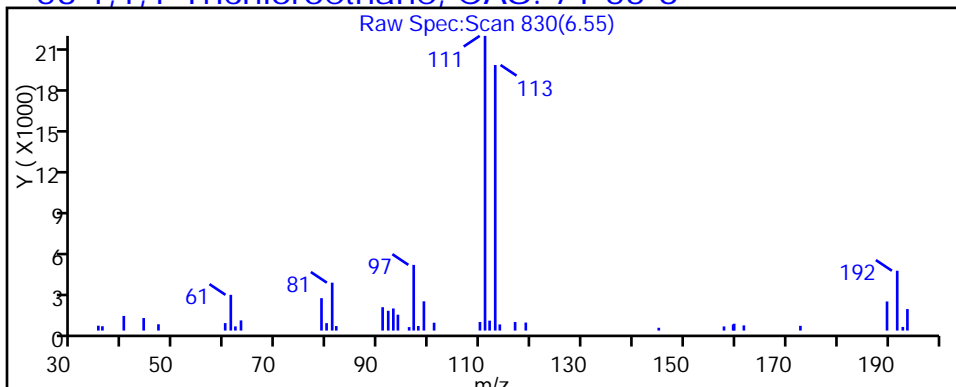
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

53 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006018.D

Injection Date: 06-Oct-2015 19:08:30

Instrument ID: CHHP5

Lims ID: 180-48181-B-8

Lab Sample ID: 180-48181-8

Client ID: HD-QC3-0/1-1

Operator ID: 001562

ALS Bottle#: 16

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

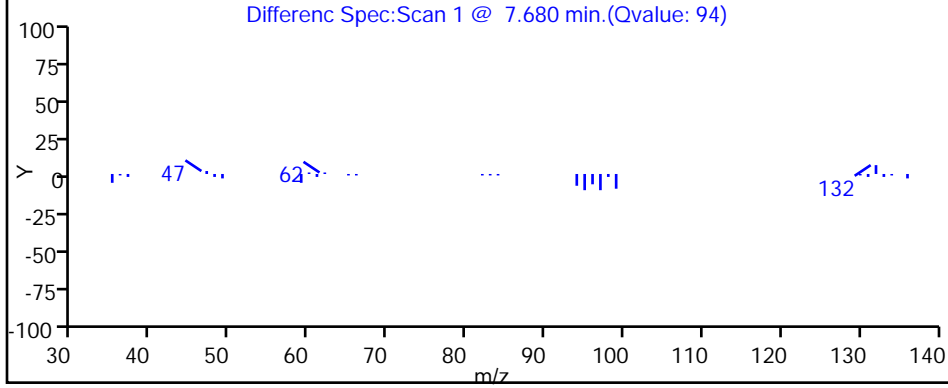
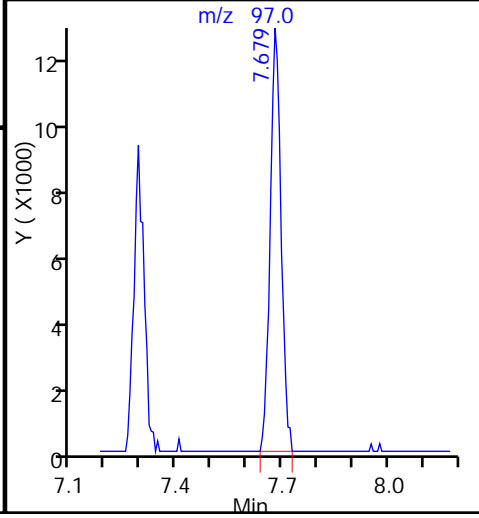
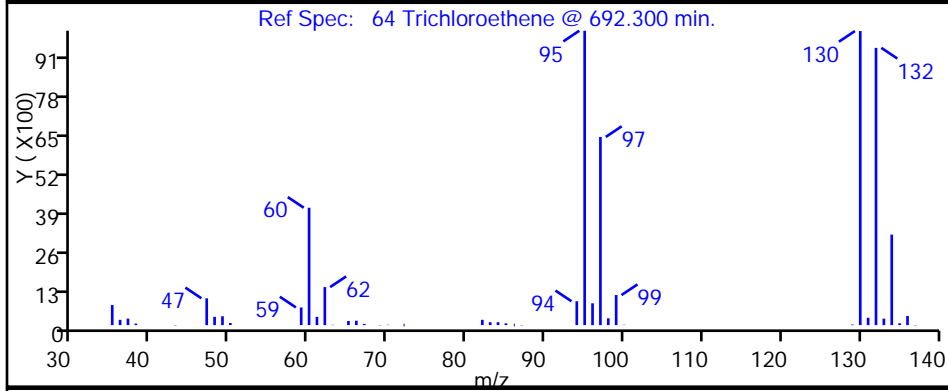
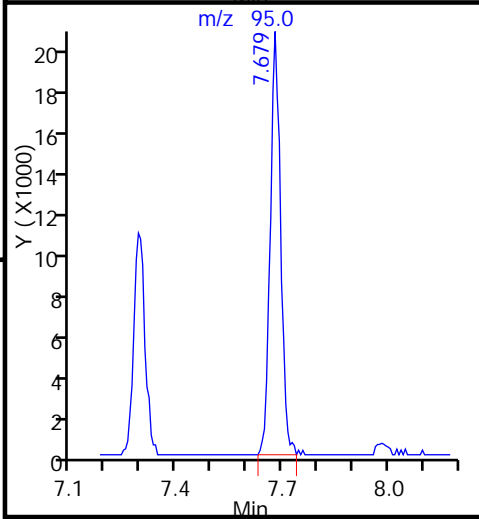
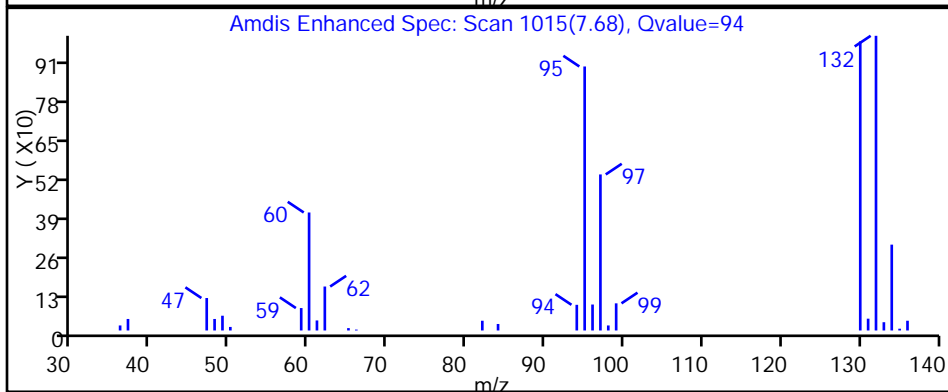
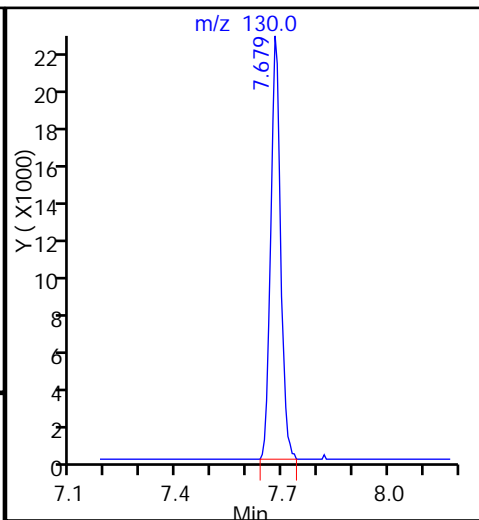
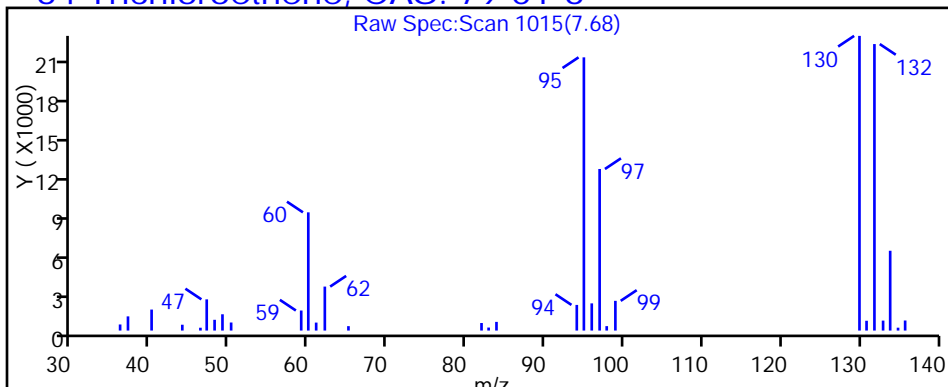
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

64 Trichloroethene, CAS: 79-01-6



TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006018.D

Injection Date: 06-Oct-2015 19:08:30

Instrument ID: CHHP5

Lims ID: 180-48181-B-8

Lab Sample ID: 180-48181-8

Client ID: HD-QC3-0/1-1

Operator ID: 001562

ALS Bottle#: 16

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

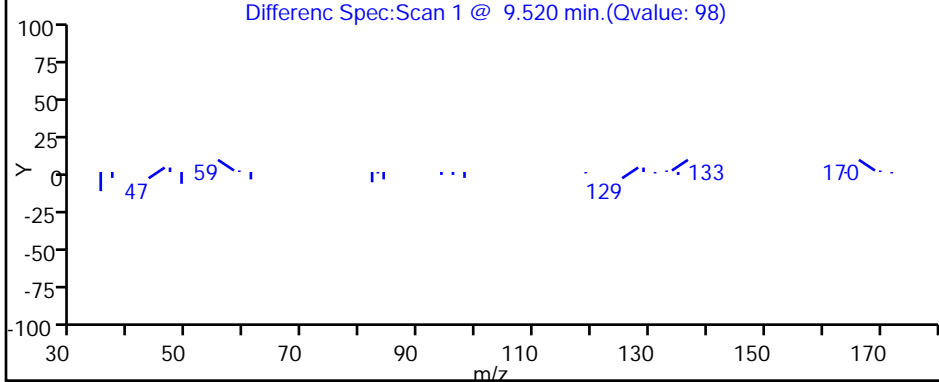
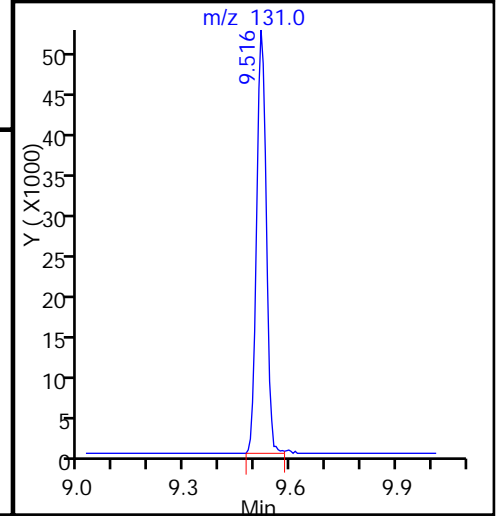
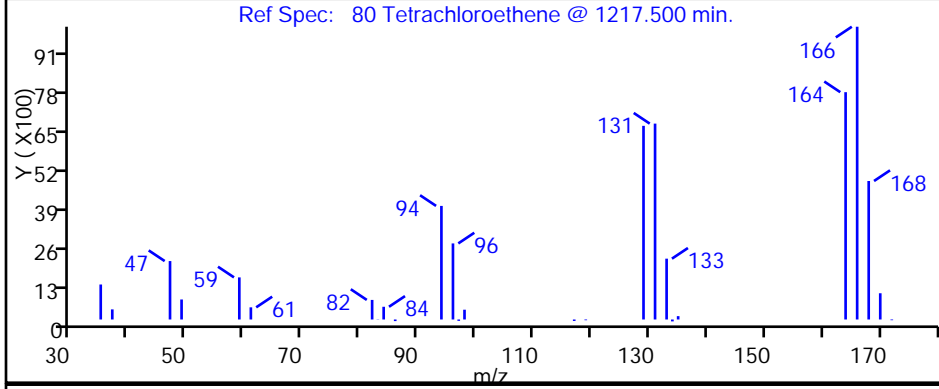
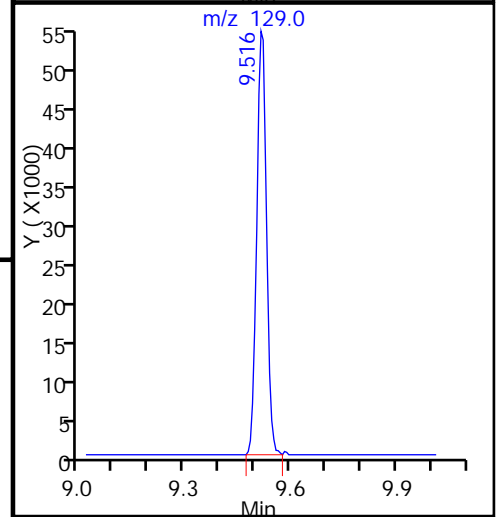
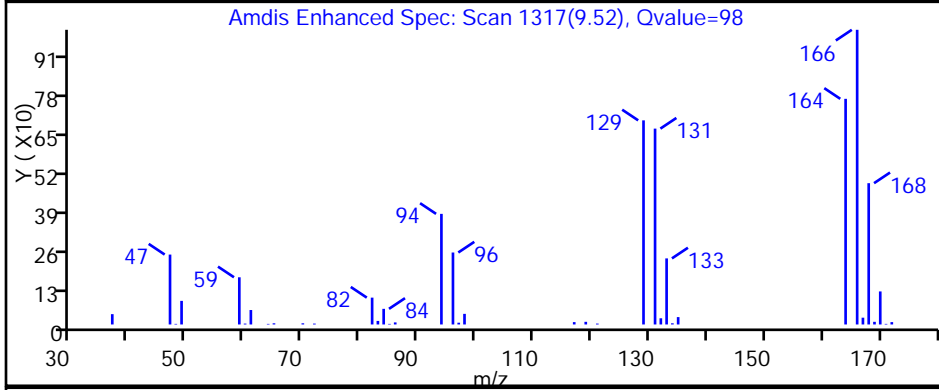
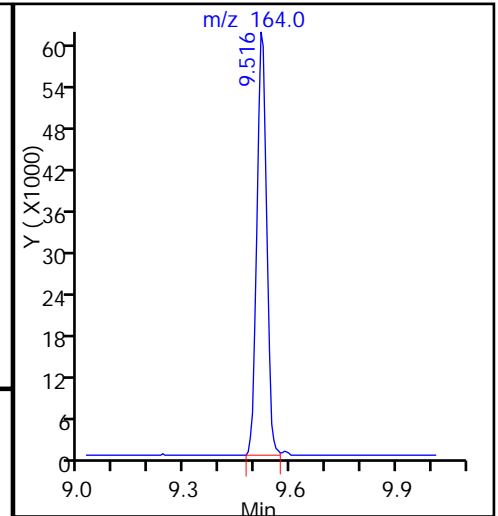
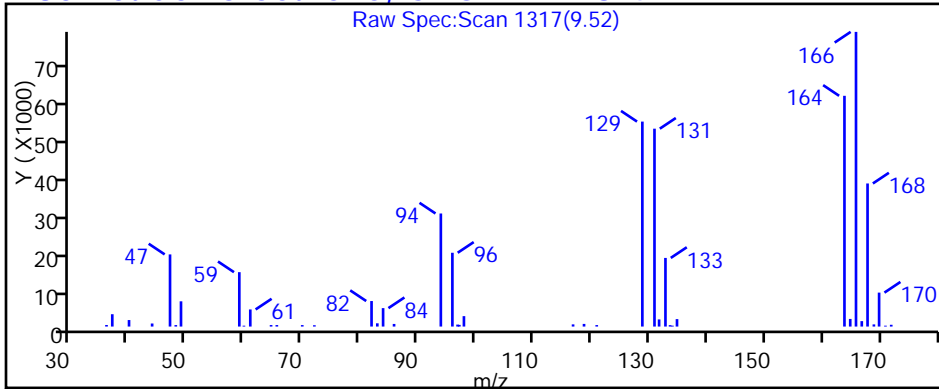
Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)

Detector: MS SCAN

80 Tetrachloroethene, CAS: 127-18-4



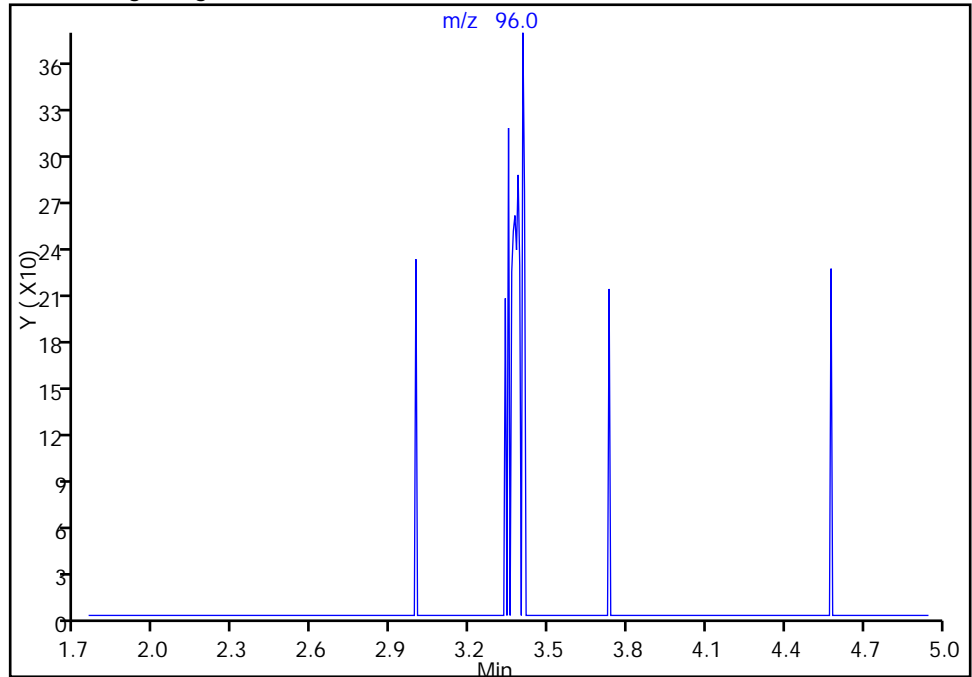
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006018.D
Injection Date: 06-Oct-2015 19:08:30 Instrument ID: CHHP5
Lims ID: 180-48181-B-8 Lab Sample ID: 180-48181-8
Client ID: HD-QC3-0/1-1
Operator ID: 001562 ALS Bottle#: 16 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

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

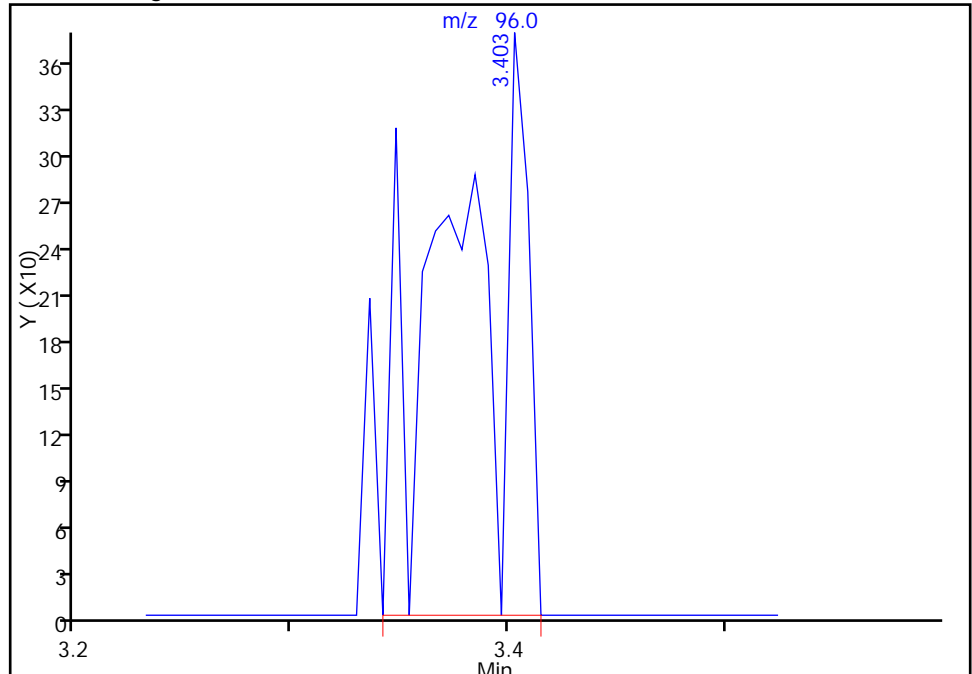
Not Detected
Expected RT: 3.35

Processing Integration Results



RT: 3.40
Area: 883
Amount: 0.569904
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 07-Oct-2015 07:56:24
Audit Action: Manually Integrated
Audit Reason: Missed Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-QC9-0/1-2 Lab Sample ID: 180-48181-9
 Matrix: Water Lab File ID: 51003007.D
 Analysis Method: 8260C Date Collected: 09/25/2015 12:00
 Sample wt/vol: 5 (mL) Date Analyzed: 10/03/2015 14:14
 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.: 155766 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-QC9-0/1-2 Lab Sample ID: 180-48181-9
 Matrix: Water Lab File ID: 51003007.D
 Analysis Method: 8260C Date Collected: 09/25/2015 12:00
 Sample wt/vol: 5 (mL) Date Analyzed: 10/03/2015 14:14
 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.: 155766 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		64-135
2037-26-5	Toluene-d8 (Surr)	92		71-118
460-00-4	4-Bromofluorobenzene (Surr)	85		70-118
1868-53-7	Dibromofluoromethane (Surr)	107		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\51003007.D
 Lims ID: 180-48181-A-9 Lab Sample ID: 180-48181-9
 Client ID: HD-QC9-0/1-2
 Sample Type: Client
 Inject. Date: 03-Oct-2015 14:14:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-48181-A-9
 Misc. Info.: 180-0008807-007
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 03-Oct-2015 14:43:24 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: fergusond

Date: 03-Oct-2015 14:43:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.260	4.283	-0.023	0	135615	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.289	0.000	98	324396	50.0	
* 3 Chlorobenzene-d5	119	10.392	10.385	0.007	87	84641	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.734	12.727	0.007	95	117836	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.565	6.565	0.000	94	85048	53.4	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.936	6.936	0.000	0	107593	49.2	
\$ 7 Toluene-d8 (Surr)	98	8.938	8.937	0.001	94	301294	46.1	
\$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.571	0.001	90	104415	42.4	
12 Chloromethane	50		1.771				ND	
13 Vinyl chloride	62		1.905				ND	
15 Bromomethane	94		2.239				ND	
16 Chloroethane	64		2.391				ND	
22 1,1-Dichloroethene	96		3.346				ND	
24 Acetone	43	3.457	3.444	0.013	0	2198	3.36	M
26 Carbon disulfide	76		3.638				ND	
31 Methylene Chloride	84		4.137				ND	
33 Acrylonitrile	53		4.527				ND	
34 trans-1,2-Dichloroethene	96		4.563				ND	
35 Methyl tert-butyl ether	73		4.581				ND	
37 1,1-Dichloroethane	63		5.202				ND	
45 cis-1,2-Dichloroethene	96		5.950				ND	
46 2-Butanone (MEK)	43		5.962				ND	
49 Chlorobromomethane	128		6.236				ND	
52 Chloroform	83		6.382				ND	
53 1,1,1-Trichloroethane	97		6.540				ND	
56 Carbon tetrachloride	117		6.717				ND	
58 Benzene	78		6.942				ND	
59 1,2-Dichloroethane	62		7.021				ND	
64 Trichloroethene	130		7.678				ND	
67 1,2-Dichloropropane	63		7.946				ND	
70 1,4-Dioxane	88		8.037				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.232				ND	
74 cis-1,3-Dichloropropene	75		8.676				ND	
75 4-Methyl-2-pentanone (MIBK)	43		8.828				ND	
76 Toluene	91		9.004				ND	
77 trans-1,3-Dichloropropene	75		9.254				ND	
79 1,1,2-Trichloroethane	97		9.442				ND	
80 Tetrachloroethene	164		9.515				ND	
82 2-Hexanone	43		9.655				ND	
84 Chlorodibromomethane	129		9.819				ND	
85 Ethylene Dibromide	107		9.929				ND	
87 Chlorobenzene	112		10.415				ND	
89 1,1,1,2-Tetrachloroethane	131		10.513				ND	
90 Ethylbenzene	106		10.519				ND	
91 m-Xylene & p-Xylene	106		10.647				ND	
92 o-Xylene	106		11.030				ND	
93 Styrene	104		11.048				ND	
94 Bromoform	173		11.231				ND	
99 1,1,2,2-Tetrachloroethane	83		11.705				ND	
S 133 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00042

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00042

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\51003007.D

Injection Date: 03-Oct-2015 14:14:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: 180-48181-A-9

Lab Sample ID: 180-48181-9

Worklist Smp#: 7

Client ID: HD-QC9-0/1-2

Purge Vol: 5.000 mL

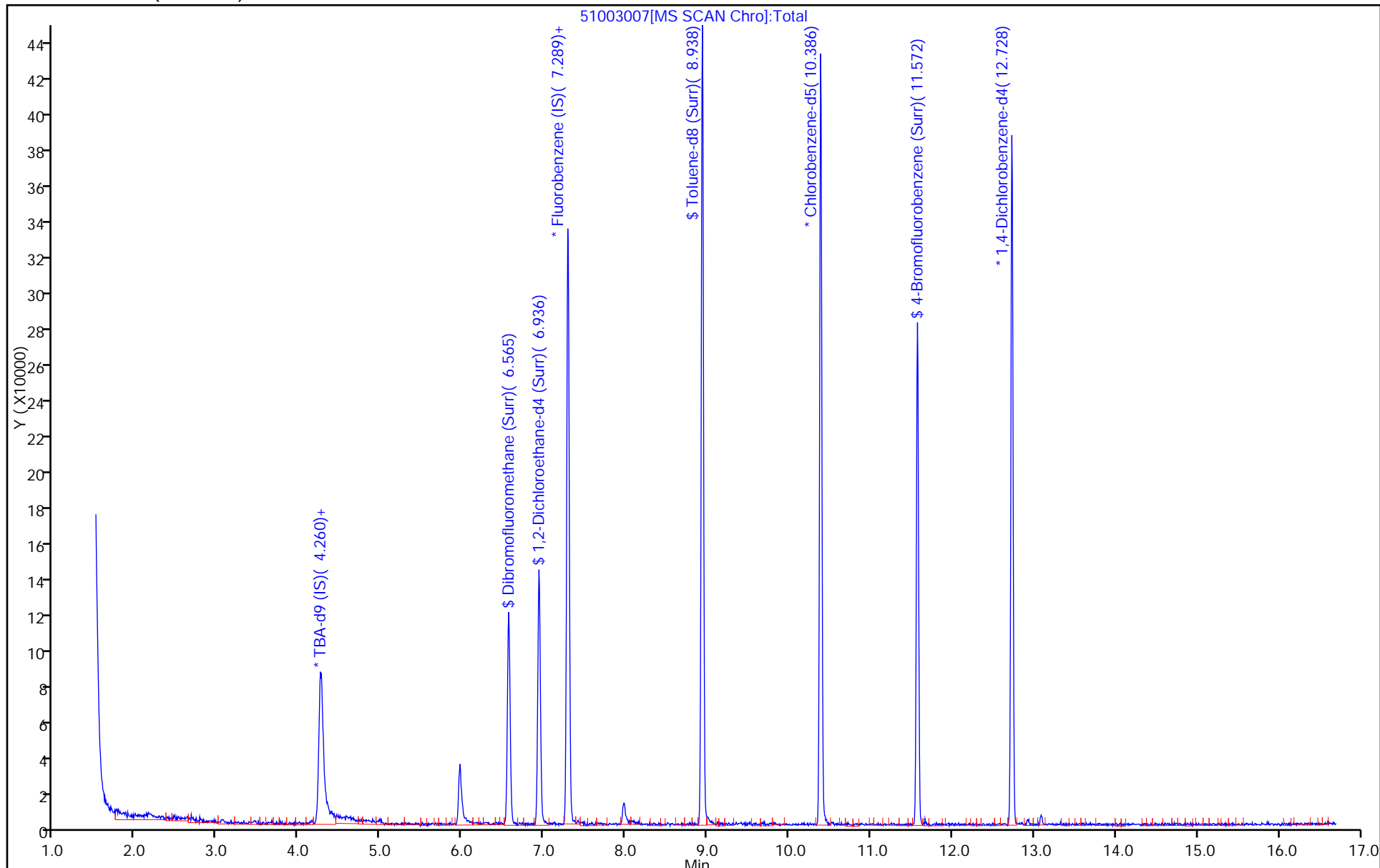
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



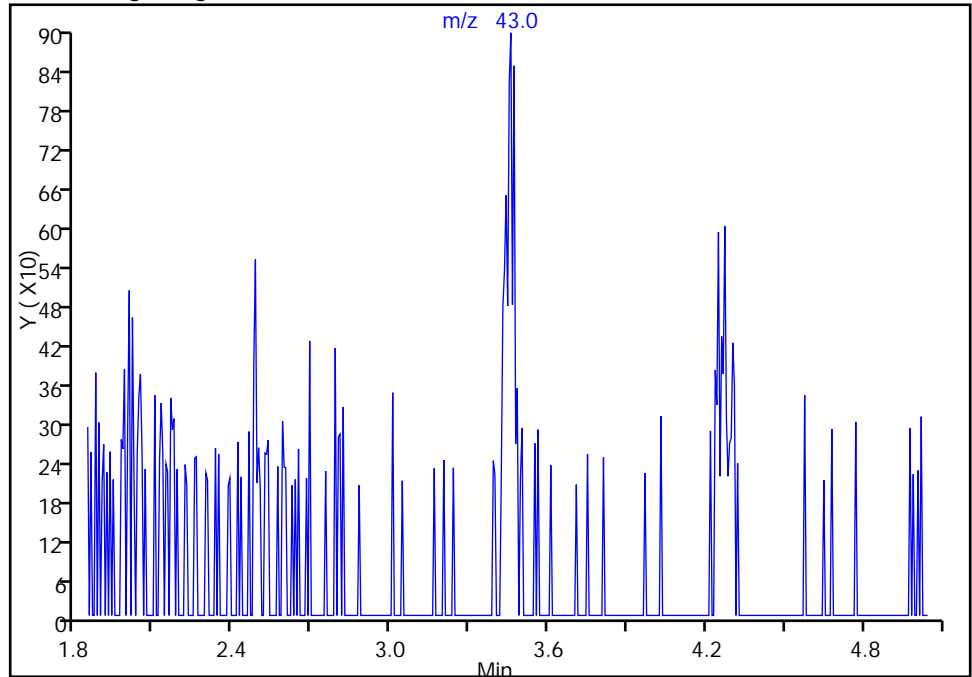
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\51003007.D
Injection Date: 03-Oct-2015 14:14:30 Instrument ID: CHHP5
Lims ID: 180-48181-A-9 Lab Sample ID: 180-48181-9
Client ID: HD-QC9-0/1-2
Operator ID: 001562 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

24 Acetone, CAS: 67-64-1

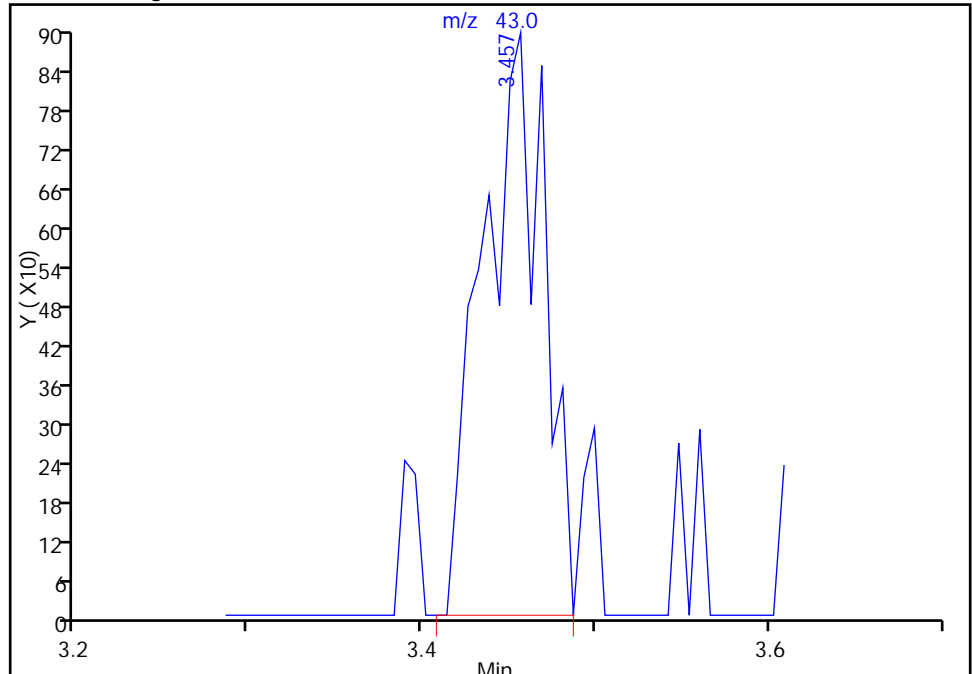
Not Detected
Expected RT: 3.44

Processing Integration Results



RT: 3.46
Area: 2198
Amount: 3.358006
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 03-Oct-2015 14:43:24
Audit Action: Manually Integrated
Audit Reason: Missed Peak

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1 Analy Batch No.: 151868

SDG No.: _____

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

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-151868/6	50826006.D
Level 2	IC 180-151868/8	50826008.D
Level 3	ICIS 180-151868/9	50826009.D
Level 4	IC 180-151868/10	50826010.D
Level 5	IC 180-151868/11	50826011.D
Level 6	IC 180-151868/12	50826012.D
Level 7	IC 180-151868/13	50826013.D
Level 8	IC 180-151868/14	50826014.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	0.3287	0.2973	0.3036	0.2652	0.2686	Ave		0.2825		0.1000	8.8	20.0					
	0.2623	0.2575	0.2768														
Chloromethane	0.5129	0.4550	0.4119	0.3793	0.3858	Ave		0.4148		0.1000	11.6	20.0					
	0.3809	0.3728	0.4194														
Vinyl chloride	0.4001	0.3977	0.3943	0.3444	0.3565	Ave		0.3679		0.1000	7.2	20.0					
	0.3434	0.3372	0.3699														
1,3-Butadiene	0.5239	0.4751	0.4623	0.3955	0.4108	Ave		0.4345		0.0100	11.0	20.0					
	0.3986	0.3875	0.4226														
Bromomethane	0.1691	0.1576	0.1270	0.1608	0.1494	Ave		0.1497		0.0500	10.7	20.0					
	0.1521	0.1241	0.1576														
Chloroethane	0.2791	0.2380	0.2154	0.2110	0.2070	Ave		0.2220		0.0500	11.6	20.0					
	0.2041	0.2011	0.2199														
Dichlorofluoromethane	0.5546	0.5213	0.5031	0.4321	0.4354	Ave		0.4709		0.0100	10.5	20.0					
	0.4260	0.4285	0.4664														
Trichlorofluoromethane	0.3948	0.3814	0.3774	0.3273	0.3345	Ave		0.3523		0.1000	8.0	20.0					
	0.3299	0.3233	0.3496														
Ethyl ether	0.4234	0.3324	0.3164	0.2973	0.2952	Ave		0.3265		0.0100	13.7	20.0					
	0.2964	0.2960	0.3549														
Acrolein	0.0512	0.0489	0.0480	0.0441	0.0462	Ave		0.0486		0.0100	6.7	20.0					
	0.0479	0.0478	0.0550														
1,1-Dichloroethene	0.2946	0.2816	0.2875	0.2618	0.2736	Ave		0.2785		0.1000	5.0	20.0					
	0.2694	0.2624	0.2968														
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3300	0.3157	0.3079	0.2771	0.2839	Ave		0.2951		0.1000	7.2	20.0					
	0.2776	0.2707	0.2975														
Acetone	0.1264	0.1213	0.0958	0.0854	0.0868	Ave		0.1009		0.0500	15.8	20.0					
	0.0944	0.0888	0.1083														
Iodomethane	0.4682	0.4179	0.4130	0.3863	0.3938	Ave		0.4150		0.0100	7.5	20.0					
	0.3963	0.3889	0.4559														

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1 Analy Batch No.: 151868

SDG No.: _____

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

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

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	0.6362 0.6697	0.5938 0.6592	0.6262 0.7601	0.5915	0.6365	Ave		0.6466			0.1000	8.3	20.0				
Allyl chloride	0.1392 0.1626	0.1500 0.1654	0.1522 0.1887	0.1471	0.1566	Ave		0.1577			0.0100	9.6	20.0				
Methyl acetate	0.3337 0.2890	0.3263 0.2857	0.2882 0.3263	0.2787	0.2836	Ave		0.3015			0.1000	7.6	20.0				
Methylene Chloride	0.6517 0.2904	0.3723 0.2913	0.3258 0.3382	0.3056	0.2911	Lin2	1.8054	0.2910			0.1000			0.9950		0.9900	
tert-Butyl alcohol	1.3524 1.1479	1.0348 1.0778	1.0400 1.1523	1.0913	1.1079	Ave		1.1255			0.0100	9.0	20.0				
Acrylonitrile	0.1618 0.1395	0.1545 0.1388	0.1504 0.1578	0.1327	0.1347	Ave		0.1463			0.0100	7.7	20.0				
trans-1,2-Dichloroethene	0.3383 0.2905	0.3111 0.2805	0.3070 0.3253	0.2770	0.2891	Ave		0.3024			0.1000	7.2	20.0				
Methyl tert-butyl ether	0.7340 0.6851	0.6905 0.6950	0.6558 0.8276	0.6473	0.6637	Ave		0.6999			0.1000	8.3	20.0				
Hexane	0.5487 0.5062	0.5124 0.4822	0.5150 0.5325	0.4707	0.4929	Ave		0.5076			0.0100	5.1	20.0				
1,1-Dichloroethane	0.6731 0.5678	0.6009 0.5615	0.5929 0.6517	0.5533	0.5641	Ave		0.5957			0.2000	7.5	20.0				
Vinyl acetate	0.4658 0.4559	0.4321 0.4509	0.4142 0.5072	0.4114	0.4375	Ave		0.4469			0.0100	6.9	20.0				
2,2-Dichloropropane	0.2543 0.2353	0.2294 0.2294	0.2373 0.2670	0.2227	0.2344	Ave		0.2387			0.0100	6.1	20.0				
cis-1,2-Dichloroethene	0.3560 0.3133	0.3276 0.3052	0.3171 0.3596	0.3029	0.3027	Ave		0.3230			0.1000	7.1	20.0				
2-Butanone (MEK)	0.1700 0.1465	0.1604 0.1446	0.1482 0.1652	0.1430	0.1348	Ave		0.1516			0.0500	8.1	20.0				
Bromochloromethane	0.1549 0.1331	0.1498 0.1336	0.1364 0.1592	0.1347	0.1330	Ave		0.1418			0.0100	7.7	20.0				
Tetrahydrofuran	0.1584 0.1188	0.1210 0.1173	0.1165 0.1328	0.1044	0.1035	Ave		0.1216			0.0100	14.4	20.0				
Chloroform	0.6121 0.4769	0.5334 0.4687	0.5043 0.5518	0.4874	0.4825	Ave		0.5146			0.2000	9.5	20.0				
1,1,1-Trichloroethane	0.3907 0.3764	0.3802 0.3610	0.3863 0.4248	0.3588	0.3661	Ave		0.3805			0.1000	5.6	20.0				
Cyclohexane	0.6174 0.6347	0.6332 0.6154	0.6564 0.6862	0.6129	0.6374	Ave		0.6367			0.1000	3.9	20.0				
Carbon tetrachloride	0.3208 0.3222	0.3255 0.3130	0.3231 0.3616	0.3071	0.3191	Ave		0.3240			0.1000	5.0	20.0				

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

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

Lab Name: TestAmerica Pittsburgh

Job No.: 180-48181-1

Analy Batch No.: 151868

SDG No.: _____

Instrument ID: CHHP5

GC Column: DB-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2015 15:04

Calibration End Date: 08/26/2015 17:52

Calibration ID: 25113

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	0.4109 0.4177	0.4291 0.3991	0.4295 0.4615	0.4010	0.4176	Ave		0.4208			0.0100	4.7	20.0				
Isobutyl alcohol	0.0095 0.0095	0.0091 0.0100	0.0099 0.0111	0.0081	0.0090	Ave		0.0095	*	0.0100	9.4	20.0					
Benzene	1.3619 1.1379	1.3471 1.1166	1.2583 1.2803	1.1865	1.1745	Ave		1.2329		0.5000	7.6	20.0					
1,2-Dichloroethane	0.4741 0.4037	0.4480 0.4008	0.4163 0.4668	0.4018	0.3996	Ave		0.4264		0.1000	7.4	20.0					
n-Heptane	0.4905 0.4664	0.4584 0.4370	0.4667 0.4920	0.4330	0.4446	Ave		0.4611		0.0100	4.9	20.0					
Trichloroethene	0.3438 0.2884	0.3023 0.2830	0.3001 0.3282	0.2819	0.2852	Ave		0.3016		0.2000	7.6	20.0					
Methylcyclohexane	0.4249 0.4931	0.4566 0.4767	0.4833 0.5272	0.4569	0.4841	Ave		0.4753		0.1000	6.4	20.0					
1,2-Dichloropropane	0.3806 0.3114	0.3166 0.3023	0.3142 0.3619	0.2970	0.3041	Ave		0.3235		0.1000	9.5	20.0					
1,4-Dioxane	0.0018 0.0024	0.0022 0.0023	0.0022 0.0026	0.0021	0.0022	Ave		0.0022	*	0.0100	11.0	20.0					
Dibromomethane	0.1726 0.1580	0.1745 0.1564	0.1618 0.1826	0.1547	0.1528	Ave		0.1642		0.0100	6.7	20.0					
Bromodichloromethane	0.3187 0.3277	0.3165 0.3275	0.3067 0.3841	0.3076	0.3105	Ave		0.3249		0.2000	7.8	20.0					
cis-1,3-Dichloropropene	0.3262 0.4065	0.3324 0.4128	0.3462 0.4886	0.3587	0.3740	Ave		0.3807		0.2000	14.2	20.0					
4-Methyl-2-pentanone (MIBK)	1.0903 1.2759	1.2109 1.2196	1.2320 1.3578	1.2204	1.2490	Ave		1.2320		0.1000	6.0	20.0					
Toluene	5.5703 4.5203	5.5571 4.1167	5.4822 4.5535	4.9121	4.8891	Ave		4.9502		0.4000	11.0	20.0					
trans-1,3-Dichloropropene	1.1012 1.3656	1.2222 1.3022	1.2566 1.5136	1.2587	1.3145	Ave		1.2918		0.1000	9.2	20.0					
Ethyl methacrylate	1.0084 1.3290	1.1451 1.2693	1.2245 1.4637	1.2645	1.2889	Ave		1.2492		0.0100	10.7	20.0					
1,1,2-Trichloroethane	0.9854 0.8899	1.0921 0.8150	0.9726 0.9474	0.9168	0.9135	Ave		0.9416		0.1000	8.6	20.0					
Tetrachloroethene	1.1379 0.8860	1.0568 0.8108	1.0252 0.9003	0.9316	0.9384	Ave		0.9609		0.2000	11.0	20.0					
1,3-Dichloropropane	1.9919 1.6394	1.8881 1.5526	1.7977 1.7492	1.7044	1.6621	Ave		1.7482		0.0100	8.1	20.0					
2-Hexanone	0.8243 0.9047	0.9086 0.8711	0.9027 0.9534	0.8729	0.8767	Ave		0.8893		0.1000	4.2	20.0					

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1 Analy Batch No.: 151868

SDG No.: _____

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

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

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	0.7656 0.8311	0.7604 0.7903	0.8248 0.9219	0.8043	0.8232	Ave		0.8152			0.1000	6.2	20.0				
1,2-Dibromoethane (EDB)	0.9759 0.8616	0.9872 0.8306	0.9279 0.9400	0.8704	0.8651	Ave		0.9073			0.1000	6.4	20.0				
3-Chlorobenzotrifluoride	1.9141 1.5139	1.7300 1.3853	1.7441 1.3810	1.5596	1.4979	Ave		1.5907			0.0100	11.9	20.0				
Chlorobenzene	3.7359 2.9360	3.5057 2.7547	3.3592 3.0452	3.0983	3.0632	Ave		3.1873			0.5000	10.1	20.0				
4-Chlorobenzotrifluoride	1.7602 1.4166	1.6482 1.3106	1.6401 1.3278	1.5024	1.4249	Ave		1.5038			0.0100	10.9	20.0				
1,1,1,2-Tetrachloroethane	1.1225 0.9996	1.0966 0.9489	1.0413 1.0904	1.0057	1.0062	Ave		1.0389			0.0100	5.7	20.0				
Ethylbenzene	1.6196 1.6672	1.7534 1.5472	1.8359 1.7000	1.6962	1.6973	Ave		1.6896			0.1000	5.1	20.0				
m-Xylene & p-Xylene	1.9469 2.0590	2.1320 1.8861	2.2561 2.1036	2.0873	2.1024	Ave		2.0717			0.1000	5.5	20.0				
o-Xylene	1.7875 1.9631	1.9618 1.8192	2.1700 2.0438	2.0181	1.9885	Ave		1.9690			0.3000	6.2	20.0				
Styrene	2.9089 3.2190	3.4288 3.0069	3.5226 3.3091	3.3907	3.3066	Ave		3.2616			0.3000	6.4	20.0				
Bromoform	0.4690 0.4795	0.4313 0.4703	0.4499 0.5395	0.4346	0.4474	Ave		0.4652			0.1000	7.4	20.0				
2-Chlorobenzotrifluoride	1.7885 1.4787	1.7489 1.3827	1.7033 1.3749	1.5707	1.4741	Ave		1.5652			0.0100	10.5	20.0				
Isopropylbenzene	4.3653 4.6596	5.1113 4.2808	5.5491 4.6316	4.9755	5.0001	Ave		4.8217			0.1000	8.7	20.0				
1,1,2,2-Tetrachloroethane	1.4661 1.1699	1.3993 1.1182	1.3725 1.2326	1.2215	1.1808	Ave		1.2701			0.3000	9.9	20.0				
Bromobenzene	0.9000 0.8558	0.8314 0.8194	0.8380 0.9507	0.8287	0.8423	Ave		0.8583			0.0100	5.2	20.0				
trans-1,4-Dichloro-2-butene	0.2917 0.3299	0.2806 0.3207	0.2875 0.3711	0.2997	0.3010	Ave		0.3103			0.0100	9.5	20.0				
1,2,3-Trichloropropane	0.3063 0.2797	0.2926 0.2700	0.2690 0.3158	0.2674	0.2639	Ave		0.2831			0.0100	6.9	20.0				
N-Propylbenzene	0.8996 1.0031	0.9330 0.9647	1.0104 1.0875	0.9757	0.9863	Ave		0.9825			0.0100	5.7	20.0				
2-Chlorotoluene	0.7422 0.8347	0.8275 0.8182	0.8534 0.9287	0.8318	0.8446	Ave		0.8351			0.0100	6.1	20.0				
3-Chlorotoluene	0.8266 0.8699	0.8669 0.8353	0.8759 0.8984	0.8585	0.8348	Ave		0.8583			0.0100	2.9	20.0				

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1 Analy Batch No.: 151868

SDG No.: _____

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

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

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	2.3645 2.7734	2.8908 2.6232	2.9957 2.8967	2.8185	2.8452	Ave		2.7760			0.0100	7.1	20.0				
4-Chlorotoluene	0.8633 0.9172	0.9746 0.8728	0.9234 0.9963	0.8946	0.9096	Ave		0.9190			0.0100	5.0	20.0				
tert-Butylbenzene	1.8741 2.3430	2.1778 2.2068	2.3521 2.4799	2.2754	2.3463	Ave		2.2569			0.0100	8.0	20.0				
1,2,4-Trimethylbenzene	2.3075 2.7925	2.8627 2.6520	2.9863 2.9459	2.8624	2.8401	Ave		2.7812			0.0100	7.8	20.0				
3,4-Dichlorobenzotrifluoride	0.9332 0.7629	0.7706 0.7120	0.8114 0.7421	0.7469	0.7246	Ave		0.7754			0.0100	9.1	20.0				
sec-Butylbenzene	2.7780 3.1978	3.2532 3.0155	3.5024 3.2789	3.1902	3.2760	Ave		3.1865			0.0100	6.7	20.0				
1,3-Dichlorobenzene	1.5731 1.4773	1.6002 1.4395	1.5858 1.6167	1.4673	1.4672	Ave		1.5284			0.6000	4.7	20.0				
4-Isopropyltoluene	2.1994 2.7400	2.7068 2.6136	2.9233 2.8630	2.7523	2.7684	Ave		2.6959			0.0100	8.2	20.0				
1,4-Dichlorobenzene	1.8395 1.4959	1.6730 1.4568	1.6062 1.6474	1.5057	1.4918	Ave		1.5895			0.5000	8.1	20.0				
2,4-Dichlorobenzotrifluoride	0.8167 0.7142	0.7458 0.6499	0.7804 0.6801	0.6991	0.6616	Ave		0.7185			0.0100	8.2	20.0				
2,5-Dichlorobenzotrifluoride	0.8953 0.7661	0.7731 0.7682	0.8004 0.7491	0.7462	0.7137	Ave		0.7765			0.0100	7.0	20.0				
n-Butylbenzene	1.9548 2.3709	2.2758 2.2727	2.5056 2.4426	2.2735	2.3594	Ave		2.3069			0.0100	7.2	20.0				
1,2-Dichlorobenzene	1.6347 1.3388	1.5012 1.3288	1.4944 1.4525	1.3452	1.3303	Ave		1.4282			0.4000	7.8	20.0				
1,2-Dibromo-3-Chloropropane	0.1072 0.1191	0.1212 0.1226	0.1194 0.1351	0.1034	0.1102	Ave		0.1173			0.0500	8.6	20.0				
2,4- & 2,5- & 2,6- Dichlorotoluene	0.7554 0.8278	0.7846 0.8399	0.9569 0.8065	0.7811	0.7733	Ave		0.8157			0.0100	7.8	20.0				
2,3- & 3,4- Dichlorotoluene	0.7045 0.7833	0.7591 0.8096	0.9510 0.7804	0.7194	0.7151	Ave		0.7778			0.0100	10.2	20.0				
1,2,4-Trichlorobenzene	0.5337 0.5349	0.5713 0.5698	0.6897 0.5692	0.4840	0.4928	Ave		0.5557			0.2000	11.5	20.0				
Hexachlorobutadiene	0.2789 0.2527	0.2957 0.2535	0.3393 0.2508	0.2366	0.2338	Ave		0.2677			0.0100	13.3	20.0				
Naphthalene	1.2233 1.4724	1.2705 1.5865	1.7478 1.5810	1.2452	1.2988	Ave		1.4282			0.0100	13.7	20.0				
1,2,3-Trichlorobenzene	0.4915 0.4124	0.4501 0.4480	0.5796 0.4500	0.3828	0.3844	Ave		0.4498			0.0100	14.2	20.0				

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1 Analy Batch No.: 151868

SDG No.: _____

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

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

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														
2,4,5-Trichlorotoluene	0.1695 0.1581	0.1451 0.1827	0.2185 0.1750	0.1232	0.1263	Ave		0.1623			0.0100	19.4		20.0			
2,3,6-Trichlorotoluene	0.1057 +++++	0.1323 +++++	0.2120 +++++	0.1162	0.1265	Ave		0.1496			0.0100	24.0	*	20.0			
Dibromofluoromethane (Surr)	0.2897 0.2274	0.2548 0.2230	0.2447 0.2662	0.2287	0.2299	Ave		0.2455				9.5		20.0			
1,2-Dichloroethane-d4 (Surr)	0.4203 0.3099	0.3560 0.3035	0.3369 0.3556	0.3100	0.3058	Ave		0.3373				11.9		20.0			
Toluene-d8 (Surr)	4.5689 3.4832	4.1450 3.1902	4.3481 3.5716	3.8169	3.7347	Ave		3.8573				12.1		20.0			
4-Bromofluorobenzene (Surr)	1.6296 1.3602	1.5022 1.2884	1.5824 1.4505	1.4462	1.3812	Ave		1.4551				7.8		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1 Analy Batch No.: 151868

SDG No.: _____

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

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-151868/6	50826006.D
Level 2	IC 180-151868/8	50826008.D
Level 3	ICIS 180-151868/9	50826009.D
Level 4	IC 180-151868/10	50826010.D
Level 5	IC 180-151868/11	50826011.D
Level 6	IC 180-151868/12	50826012.D
Level 7	IC 180-151868/13	50826013.D
Level 8	IC 180-151868/14	50826014.D

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
Dichlorodifluoromethane	FB	Ave	13335 461015	63359 506611	139988 585297	195493	268740	5.00 175	25.0 200	50.0 250	75.0	100
Chloromethane	FB	Ave	20806 669660	96975 733518	189967 886889	279657	386017	5.00 175	25.0 200	50.0 250	75.0	100
Vinyl chloride	FB	Ave	16232 603655	84746 663498	181809 782206	253941	356745	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Butadiene	FB	Ave	21253 700624	101243 762590	213171 893578	291582	411077	5.00 175	25.0 200	50.0 250	75.0	100
Bromomethane	FB	Ave	6860 267454	33586 244127	58568 333317	118541	149495	5.00 175	25.0 200	50.0 250	75.0	100
Chloroethane	FB	Ave	11321 358728	50718 395735	99329 465079	155578	207155	5.00 175	25.0 200	50.0 250	75.0	100
Dichlorofluoromethane	FB	Ave	22499 748877	111107 843233	232009 986298	318608	435665	5.00 175	25.0 200	50.0 250	75.0	100
Trichlorofluoromethane	FB	Ave	16013 579992	81291 636269	174036 739174	241309	334740	5.00 175	25.0 200	50.0 250	75.0	100
Ethyl ether	FB	Ave	17175 521056	70836 582513	145899 750491	219194	295395	5.00 175	25.0 200	50.0 250	75.0	100
Acrolein	FB	Ave	41531 108307	52087 117496	66358 127965	75936	92519	100 225	125 250	150 275	175	200
1,1-Dichloroethene	FB	Ave	11952 473565	60024 516257	132602 627614	192998	273818	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	13388 488054	67283 532678	141996 629046	204297	284081	5.00 175	25.0 200	50.0 250	75.0	100
Acetone	FB	Ave	25628 332039	51703 349354	88342 457819	125942	173687	25.0 350	50.0 400	100 500	150	200
Iodomethane	FB	Ave	18992 696716	89056 765249	190440 963985	284793	394076	5.00 175	25.0 200	50.0 250	75.0	100
Carbon disulfide	FB	Ave	25807 1177201	126552 1297173	288788 1607306	436105	636866	5.00 175	25.0 200	50.0 250	75.0	100

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1 Analy Batch No.: 151868

SDG No.: _____

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

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

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	5646	31974	70192	108440	156677	5.00	25.0	50.0	75.0	100
			285911	325399	399041			175	200	250		
Methyl acetate	FB	Ave	67684	347746	664608	1027560	1419018	25.0	125	250	375	500
			2539904	2811173	3450277			875	1000	1250		
Methylene Chloride	FB	Lin2	26437	79338	150258	225319	291271	5.00	25.0	50.0	75.0	100
			510471	573290	715184			175	200	250		
tert-Butyl alcohol	TBA	Ave	9257	39038	81932	122262	185374	50.0	250	500	750	1000
			352268	410928	514360			1750	2000	2500		
Acrylonitrile	FB	Ave	65631	329204	693478	978697	1347643	50.0	250	500	750	1000
			2452551	2730347	3337347			1750	2000	2500		
trans-1,2-Dichloroethene	FB	Ave	13723	66301	141577	204201	289331	5.00	25.0	50.0	75.0	100
			510637	552053	687878			175	200	250		
Methyl tert-butyl ether	FB	Ave	29774	147150	302403	477236	664089	5.00	25.0	50.0	75.0	100
			1204325	1367672	1750025			175	200	250		
Hexane	FB	Ave	22257	109198	237492	347025	493203	5.00	25.0	50.0	75.0	100
			889892	948868	1125958			175	200	250		
1,1-Dichloroethane	FB	Ave	27303	128072	273423	407919	564450	5.00	25.0	50.0	75.0	100
			998105	1104940	1377944			175	200	250		
Vinyl acetate	FB	Ave	18896	92081	191017	303320	437799	5.00	25.0	50.0	75.0	100
			801339	887283	1072494			175	200	250		
2,2-Dichloropropane	FB	Ave	10315	48880	109416	164171	234514	5.00	25.0	50.0	75.0	100
			413686	451339	564524			175	200	250		
cis-1,2-Dichloroethene	FB	Ave	14442	69819	146208	223289	302874	5.00	25.0	50.0	75.0	100
			550789	600559	760457			175	200	250		
2-Butanone (MEK)	FB	Ave	34471	68384	136667	210830	269779	25.0	50.0	100	150	200
			514894	569128	698551			350	400	500		
Bromochloromethane	FB	Ave	6284	31931	62915	99282	133128	5.00	25.0	50.0	75.0	100
			234034	262832	336595			175	200	250		
Tetrahydrofuran	FB	Ave	12850	51589	107444	153971	207145	10.0	50.0	100	150	200
			417684	461621	561739			350	400	500		
Chloroform	FB	Ave	24828	113670	232542	359318	482795	5.00	25.0	50.0	75.0	100
			838419	922240	1166838			175	200	250		
1,1,1-Trichloroethane	FB	Ave	15850	81030	178131	264507	366328	5.00	25.0	50.0	75.0	100
			661680	710348	898258			175	200	250		
Cyclohexane	FB	Ave	25044	134937	302702	451893	637776	5.00	25.0	50.0	75.0	100
			1115710	1210903	1451032			175	200	250		
Carbon tetrachloride	FB	Ave	13013	69375	148991	226405	319309	5.00	25.0	50.0	75.0	100
			566329	616016	764597			175	200	250		
1,1-Dichloropropene	FB	Ave	16668	91438	198075	295676	417880	5.00	25.0	50.0	75.0	100
			734207	785333	975802			175	200	250		
Isobutyl alcohol	FB	Ave	9663	48239	113924	149085	224262	125	625	1250	1875	2500
			417725	492768	588608			4375	5000	6250		

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1 Analy Batch No.: 151868

SDG No.: _____

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

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

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	55246 2000326	287091 2197241	580241 2707324	874781	1175215	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloroethane	FB	Ave	19231 709743	95482 788760	191991 987010	296218	399895	5.00 175	25.0 200	50.0 250	75.0	100
n-Heptane	FB	Ave	19899 819932	97699 859948	215218 1040377	319252	444901	5.00 175	25.0 200	50.0 250	75.0	100
Trichloroethene	FB	Ave	13948 506964	64418 556980	138404 693909	207852	285365	5.00 175	25.0 200	50.0 250	75.0	100
Methylcyclohexane	FB	Ave	17237 866758	97305 937977	222858 1114866	336831	484430	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloropropane	FB	Ave	15440 547361	67479 594824	144895 765352	218947	304322	5.00 175	25.0 200	50.0 250	75.0	100
1,4-Dioxane	FB	Ave	1429 82622	9374 91547	20164 111802	31691	44562	100 3500	500 4000	1000 5000	1500	2000
Dibromomethane	FB	Ave	7003 277699	37187 307857	74626 386058	114083	152946	5.00 175	25.0 200	50.0 250	75.0	100
Bromodichloromethane	FB	Ave	12926 576102	67441 644471	141423 812136	226806	310676	5.00 175	25.0 200	50.0 250	75.0	100
cis-1,3-Dichloropropene	FB	Ave	13234 714562	70847 812298	159644 1033255	264451	374197	5.00 175	25.0 200	50.0 250	75.0	100
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	52387 1157588	122590 1320471	267134 1599371	434749	614019	25.0 350	50.0 400	100 500	150	200
Toluene	CBZ	Ave	53527 2050607	281285 2228576	594334 2681762	874948	1201786	5.00 175	25.0 200	50.0 250	75.0	100
trans-1,3-Dichloropropene	CBZ	Ave	10582 619485	61867 704918	136231 891401	224205	323125	5.00 175	25.0 200	50.0 250	75.0	100
Ethyl methacrylate	CBZ	Ave	9690 602921	57962 687101	132749 862044	225233	316812	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2-Trichloroethane	CBZ	Ave	9469 403722	55277 441190	105440 557982	163298	224541	5.00 175	25.0 200	50.0 250	75.0	100
Tetrachloroethene	CBZ	Ave	10935 401915	53495 438898	111146 530215	165929	230665	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Dichloropropane	CBZ	Ave	19141 743698	95569 840507	194887 1030200	303582	408560	5.00 175	25.0 200	50.0 250	75.0	100
2-Hexanone	CBZ	Ave	39604 820858	91984 943138	195734 1123041	310969	430988	25.0 350	50.0 400	100 500	150	200
Dibromochloromethane	CBZ	Ave	7357 377032	38492 427847	89414 542940	143257	202349	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dibromoethane (EDB)	CBZ	Ave	9378 390862	49971 449617	100600 553588	155041	212653	5.00 175	25.0 200	50.0 250	75.0	100
3-Chlorobenzotrifluoride	CBZ	Ave	18393 686777	87568 749898	189078 813323	277802	368187	5.00 175	25.0 200	50.0 250	75.0	100

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

Lab Name: TestAmerica Pittsburgh

Job No.: 180-48181-1

Analy Batch No.: 151868

SDG No.: _____

Instrument ID: CHHP5

GC Column: DB-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2015 15:04

Calibration End Date: 08/26/2015 17:52

Calibration ID: 25113

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	35900 1331912	177451 1491257	364174 1793475	551865	752971	5.00 175	25.0 200	50.0 250	75.0	100
4-Chlorobenzotrifluoride	CBZ	Ave	16914 642626	83430 709487	177807 781989	267607	350243	5.00 175	25.0 200	50.0 250	75.0	100
1,1,1,2-Tetrachloroethane	CBZ	Ave	10787 453483	55507 513686	112884 642159	179137	247335	5.00 175	25.0 200	50.0 250	75.0	100
Ethylbenzene	CBZ	Ave	15563 756322	88753 837593	199030 1001210	302122	417206	5.00 175	25.0 200	50.0 250	75.0	100
m-Xylene & p-Xylene	CBZ	Ave	18709 934055	107918 1021032	244588 1238884	371799	516778	5.00 175	25.0 200	50.0 250	75.0	100
o-Xylene	CBZ	Ave	17177 890574	99302 984811	235252 1203666	359461	488783	5.00 175	25.0 200	50.0 250	75.0	100
Styrene	CBZ	Ave	27953 1460286	173558 1627751	381888 1948876	603962	812783	5.00 175	25.0 200	50.0 250	75.0	100
Bromoform	CBZ	Ave	4507 217546	21829 254607	48771 317730	77411	109983	5.00 175	25.0 200	50.0 250	75.0	100
2-Chlorobenzotrifluoride	CBZ	Ave	17186 670799	88525 748529	184654 809757	279773	362334	5.00 175	25.0 200	50.0 250	75.0	100
Isopropylbenzene	CBZ	Ave	41948 2113845	258721 2317406	601591 2727755	886244	1229067	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2,2-Tetrachloroethane	CBZ	Ave	14088 530728	70831 605346	148796 725938	217578	290248	5.00 175	25.0 200	50.0 250	75.0	100
Bromobenzene	DCB	Ave	12648 543146	66130 609774	144660 743219	218069	300450	5.00 175	25.0 200	50.0 250	75.0	100
trans-1,4-Dichloro-2-butene	DCB	Ave	4099 209384	22318 238659	49630 290130	78865	107372	5.00 175	25.0 200	50.0 250	75.0	100
1,2,3-Trichloropropane	DCB	Ave	4305 177490	23273 200908	46443 246872	70373	94129	5.00 175	25.0 200	50.0 250	75.0	100
N-Propylbenzene	DCB	Ave	12643 636587	74204 717909	174426 850210	256762	351814	5.00 175	25.0 200	50.0 250	75.0	100
2-Chlorotoluene	DCB	Ave	10430 529736	65813 608876	147328 726063	218909	301246	5.00 175	25.0 200	50.0 250	75.0	100
3-Chlorotoluene	DCB	Ave	11617 552058	68954 621607	151211 702342	225916	297767	5.00 175	25.0 200	50.0 250	75.0	100
1,3,5-Trimethylbenzene	DCB	Ave	33229 1760059	229921 1952122	517168 2264532	741712	1014826	5.00 175	25.0 200	50.0 250	75.0	100
4-Chlorotoluene	DCB	Ave	12133 582109	77519 649501	159410 778860	235437	324433	5.00 175	25.0 200	50.0 250	75.0	100
tert-Butylbenzene	DCB	Ave	26338 1486960	173217 1642231	406052 1938716	598804	836893	5.00 175	25.0 200	50.0 250	75.0	100
1,2,4-Trimethylbenzene	DCB	Ave	32428 1772230	227690 1973541	515539 2303042	753282	1013032	5.00 175	25.0 200	50.0 250	75.0	100

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1 Analy Batch No.: 151868

SDG No.: _____

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

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

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	13115 484133	61289 529814	140073 580120	196559	258438	5.00 175	25.0 200	50.0 250	75.0	100
sec-Butylbenzene	DCB	Ave	39041 2029430	258745 2244027	604638 2563359	839536	1168492	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Dichlorobenzene	DCB	Ave	22108 937539	127273 1071203	273757 1263925	386149	523315	5.00 175	25.0 200	50.0 250	75.0	100
4-Isopropyltoluene	DCB	Ave	30909 1738859	215293 1944911	504672 2238219	724310	987448	5.00 175	25.0 200	50.0 250	75.0	100
1,4-Dichlorobenzene	DCB	Ave	25851 949324	133066 1084086	277292 1287906	396239	532103	5.00 175	25.0 200	50.0 250	75.0	100
2,4-Dichlorobenzotrifluoride	DCB	Ave	11477 453275	59316 483618	134729 531698	183967	235991	5.00 175	25.0 200	50.0 250	75.0	100
2,5-Dichlorobenzotrifluoride	DCB	Ave	12582 486163	61489 571654	138171 585601	196358	254571	5.00 175	25.0 200	50.0 250	75.0	100
n-Butylbenzene	DCB	Ave	27472 1504673	181007 1691227	432555 1909580	598297	841574	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichlorobenzene	DCB	Ave	22973 849612	119403 988861	257985 1135542	354012	474503	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dibromo-3-Chloropropane	DCB	Ave	1507 75555	9637 91242	20608 105625	27203	39315	5.00 175	25.0 200	50.0 250	75.0	100
2,4- & 2,5- & 2,6- Dichlorotoluene	DCB	Ave	31847 1576122	187206 1875036	495585 1891413	616649	827426	15.0 525	75.0 600	150 750	225	300
2,3- & 3,4- Dichlorotoluene	DCB	Ave	19801 994231	120746 1204899	328345 1220209	378630	510138	10.0 350	50.0 400	100 500	150	200
1,2,4-Trichlorobenzene	DCB	Ave	7500 339446	45439 424061	119069 445017	127381	175776	5.00 175	25.0 200	50.0 250	75.0	100
Hexachlorobutadiene	DCB	Ave	3919 160392	23516 188644	58574 196056	62268	83392	5.00 175	25.0 200	50.0 250	75.0	100
Naphthalene	DCB	Ave	17192 934428	101055 1180622	301738 1235965	327683	463258	5.00 175	25.0 200	50.0 250	75.0	100
1,2,3-Trichlorobenzene	DCB	Ave	6907 261711	35802 333363	100055 351787	100749	137103	5.00 175	25.0 200	50.0 250	75.0	100
2,4,5-Trichlorotoluene	DCB	Ave	2382 100325	11540 135933	37716 136778	32434	45065	5.00 175	25.0 200	50.0 250	75.0	100
2,3,6-Trichlorotoluene	DCB	Ave	1485 +++++	10524 +++++	36592 +++++	30574	45128	5.00 +++++	25.0 +++++	50.0 +++++	75.0	100
Dibromofluoromethane (Surr)	FB	Ave	11752 399678	54310 438908	112824 562879	168602	230039	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloroethane-d4 (Surr)	FB	Ave	17051 544829	75876 597233	155346 751925	228530	306020	5.00 175	25.0 200	50.0 250	75.0	100
Toluene-d8 (Surr)	CBZ	Ave	43904 1580158	209810 1727014	471382 2103482	679876	918031	5.00 175	25.0 200	50.0 250	75.0	100

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1 Analy Batch No.: 151868

SDG No.: _____

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

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

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		
4-Bromofluorobenzene (Surr)	CBZ	Ave	15659 617045	76038 697446	171548 854277	257596	339508	5.00 175	25.0 200	50.0 250	75.0	100

Curve Type Legend:

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

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1 Analy Batch No.: 151868

SDG No.: _____

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

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-151868/6	50826006.D
Level 2	IC 180-151868/8	50826008.D
Level 3	ICIS 180-151868/9	50826009.D
Level 4	IC 180-151868/10	50826010.D
Level 5	IC 180-151868/11	50826011.D
Level 6	IC 180-151868/12	50826012.D
Level 7	IC 180-151868/13	50826013.D
Level 8	IC 180-151868/14	50826014.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #					LVL 7	LVL 8				
Methylene Chloride	-0.1	3.1	-0.5	-3.3	-6.2	-3.8	40	40	40	40	40	40
	-3.0	13.7					40	40				

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826006.D
 Lims ID: IC VSTD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 26-Aug-2015 15:04:30 ALS Bottle#: 6 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD1
 Misc. Info.: 180-0008300-006
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub4
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 27-Aug-2015 12:16:48 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK048

First Level Reviewer: fergusond Date: 27-Aug-2015 12:16:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.266	4.274	-0.008	0	136898	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.291	-0.001	98	405648	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.386	10.387	-0.001	88	96094	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.728	12.730	-0.002	97	140534	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.566	6.567	-0.001	89	11752	5.00	5.90	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.937	6.938	-0.001	0	17051	5.00	6.23	
\$ 7 Toluene-d8 (Surr)	98	8.938	8.933	0.005	95	43904	5.00	5.92	
\$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.574	-0.002	84	15659	5.00	5.60	
11 Dichlorodifluoromethane	85	1.608	1.627	-0.019	94	13335	5.00	5.82	
12 Chloromethane	50	1.760	1.761	-0.001	98	20806	5.00	6.18	
13 Vinyl chloride	62	1.906	1.901	0.005	72	16232	5.00	5.44	
14 Butadiene	39	1.930	1.931	-0.001	96	21253	5.00	6.03	
15 Bromomethane	94	2.228	2.236	-0.008	92	6860	5.00	5.65	
16 Chloroethane	64	2.386	2.376	0.010	96	11321	5.00	6.29	
17 Dichlorofluoromethane	67	2.660	2.661	-0.001	95	22499	5.00	5.89	
18 Trichlorofluoromethane	101	2.648	2.661	-0.013	71	16013	5.00	5.60	M
20 Ethyl ether	59	3.049	3.051	-0.002	97	17175	5.00	6.48	
21 Acrolein	56	3.220	3.233	-0.013	99	41531	100.0	105.2	
22 1,1-Dichloroethene	96	3.335	3.355	-0.020	78	11952	5.00	5.29	
23 1,1,2-Trichloro-1,2,2-trif	101	3.402	3.416	-0.014	66	13388	5.00	5.59	
24 Acetone	43	3.451	3.452	-0.001	99	25628	25.0	31.3	M
25 Iodomethane	142	3.536	3.556	-0.020	100	18992	5.00	5.64	
26 Carbon disulfide	76	3.627	3.635	-0.008	99	25807	5.00	4.92	
28 3-Chloro-1-propene	76	3.913	3.921	-0.008	88	5646	5.00	4.41	
30 Methyl acetate	43	3.938	3.945	-0.007	100	67684	25.0	27.7	
31 Methylene Chloride	84	4.126	4.152	-0.026	96	26437	5.00	4.99	
32 2-Methyl-2-propanol	59	4.406	4.413	-0.007	90	9257	50.0	60.1	
33 Acrylonitrile	53	4.515	4.517	-0.002	99	65631	50.0	55.3	
34 trans-1,2-Dichloroethene	96	4.558	4.566	-0.008	90	13723	5.00	5.59	
35 Methyl tert-butyl ether	73	4.576	4.584	-0.008	92	29774	5.00	5.24	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.990	4.991	-0.001	93	22257	5.00	5.40	
37 1,1-Dichloroethane	63	5.203	5.198	0.005	96	27303	5.00	5.65	
38 Vinyl acetate	43	5.252	5.253	-0.001	98	18896	5.00	5.21	
45 cis-1,2-Dichloroethene	96	5.951	5.953	-0.002	85	14442	5.00	5.51	
44 2,2-Dichloropropane	77	5.939	5.946	-0.007	60	10315	5.00	5.33	
46 2-Butanone (MEK)	43	5.963	5.959	0.004	97	34471	25.0	28.0	
49 Chlorobromomethane	128	6.237	6.238	-0.001	92	6284	5.00	5.46	
51 Tetrahydrofuran	42	6.249	6.257	-0.008	93	12850	10.0	13.0	
52 Chloroform	83	6.389	6.385	0.005	74	24828	5.00	5.95	
53 1,1,1-Trichloroethane	97	6.535	6.549	-0.014	91	15850	5.00	5.13	
54 Cyclohexane	56	6.614	6.616	-0.002	96	25044	5.00	4.85	
56 Carbon tetrachloride	117	6.718	6.719	-0.001	94	13013	5.00	4.95	
55 1,1-Dichloropropene	75	6.724	6.731	-0.007	91	16668	5.00	4.88	
57 Isobutyl alcohol	41	6.918	6.926	-0.008	70	9663	125.0	125.1	
58 Benzene	78	6.943	6.944	-0.001	97	55246	5.00	5.52	
59 1,2-Dichloroethane	62	7.022	7.023	-0.001	95	19231	5.00	5.56	
62 n-Heptane	43	7.314	7.309	0.005	93	19899	5.00	5.32	
64 Trichloroethene	130	7.679	7.674	0.005	92	13948	5.00	5.70	
66 Methylcyclohexane	83	7.916	7.918	-0.002	93	17237	5.00	4.47	
67 1,2-Dichloropropane	63	7.947	7.954	-0.007	90	15440	5.00	5.88	
70 1,4-Dioxane	88	8.026	8.027	-0.001	42	1429	100.0	79.0	
68 Dibromomethane	93	8.026	8.039	-0.013	95	7003	5.00	5.26	
71 Dichlorobromomethane	83	8.232	8.234	-0.002	93	12926	5.00	4.90	
74 cis-1,3-Dichloropropene	75	8.664	8.678	-0.014	65	13234	5.00	4.29	
75 4-Methyl-2-pentanone (MIBK)	43	8.823	8.830	-0.007	97	52387	25.0	22.1	
76 Toluene	91	9.005	9.006	-0.001	97	53527	5.00	5.63	
77 trans-1,3-Dichloropropene	75	9.248	9.250	-0.002	96	10582	5.00	4.26	
78 Ethyl methacrylate	69	9.315	9.311	0.004	94	9690	5.00	4.04	
79 1,1,2-Trichloroethane	97	9.449	9.444	0.005	93	9469	5.00	5.23	
80 Tetrachloroethene	164	9.522	9.517	0.005	93	10935	5.00	5.92	
81 1,3-Dichloropropane	76	9.607	9.603	0.004	99	19141	5.00	5.70	
82 2-Hexanone	43	9.662	9.657	0.005	97	39604	25.0	23.2	
84 Chlorodibromomethane	129	9.814	9.816	-0.002	89	7357	5.00	4.70	
85 Ethylene Dibromide	107	9.930	9.931	-0.001	99	9378	5.00	5.38	
86 3-Chlorobenzotrifluoride	180	10.392	10.387	0.005	56	18393	5.00	6.02	
87 Chlorobenzene	112	10.416	10.418	-0.002	94	35900	5.00	5.86	
88 4-Chlorobenzotrifluoride	180	10.477	10.479	-0.002	96	16914	5.00	5.85	
89 1,1,1,2-Tetrachloroethane	131	10.508	10.509	-0.001	87	10787	5.00	5.40	
90 Ethylbenzene	106	10.514	10.515	-0.001	98	15563	5.00	4.79	
91 m-Xylene & p-Xylene	106	10.648	10.649	-0.001	0	18709	5.00	4.70	
92 o-Xylene	106	11.025	11.026	-0.001	97	17177	5.00	4.54	
93 Styrene	104	11.049	11.051	-0.002	93	27953	5.00	4.46	
94 Bromoform	173	11.226	11.233	-0.007	96	4507	5.00	5.04	
96 2-Chlorobenzotrifluoride	180	11.305	11.294	0.011	92	17186	5.00	5.71	
97 Isopropylbenzene	105	11.396	11.397	-0.001	96	41948	5.00	4.53	
100 Bromobenzene	156	11.712	11.708	0.004	96	12648	5.00	5.24	
99 1,1,2,2-Tetrachloroethane	83	11.712	11.708	0.004	82	14088	5.00	5.77	
102 trans-1,4-Dichloro-2-buten	53	11.749	11.744	0.005	58	4099	5.00	4.70	
101 1,2,3-Trichloropropane	110	11.761	11.762	-0.001	85	4305	5.00	5.41	
103 N-Propylbenzene	120	11.810	11.811	-0.001	99	12643	5.00	4.58	
104 2-Chlorotoluene	126	11.895	11.902	-0.007	95	10430	5.00	4.44	
105 3-Chlorotoluene	126	11.968	11.963	0.005	96	11617	5.00	4.82	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.992	11.993	-0.001	95	33229	5.00	4.26	
107 4-Chlorotoluene	126	12.022	12.024	-0.002	98	12133	5.00	4.70	
108 tert-Butylbenzene	119	12.308	12.310	-0.002	96	26338	5.00	4.15	
110 1,2,4-Trimethylbenzene	105	12.369	12.371	-0.002	96	32428	5.00	4.15	
111 1,2-dichloro-4-(trifluorom	214	12.406	12.413	-0.007	95	13115	5.00	6.02	
112 sec-Butylbenzene	105	12.533	12.535	-0.002	96	39041	5.00	4.36	
113 1,3-Dichlorobenzene	146	12.655	12.650	0.005	94	22108	5.00	5.15	
114 4-Isopropyltoluene	119	12.692	12.687	0.005	94	30909	5.00	4.08	
115 1,4-Dichlorobenzene	146	12.752	12.754	-0.002	94	25851	5.00	5.79	
116 2,4-Dichloro-1-(trifluorom	214	12.783	12.778	0.005	92	11477	5.00	5.68	
118 2,5-Dichlorobenzotrifluori	214	12.825	12.821	0.004	0	12582	5.00	5.77	
120 n-Butylbenzene	91	13.099	13.101	-0.002	98	27472	5.00	4.24	
121 1,2-Dichlorobenzene	146	13.111	13.113	-0.002	97	22973	5.00	5.72	
122 1,2-Dibromo-3-Chloropropan	75	13.920	13.904	0.016	1	1507	5.00	4.57	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.048	14.044	0.004	0	31847	15.0	13.9	
125 2,3- & 3,4- Dichlorotoluen	125	14.462	14.463	-0.001	0	19801	10.0	9.06	
126 1,2,4-Trichlorobenzene	180	14.723	14.725	-0.002	94	7500	5.00	4.80	
127 Hexachlorobutadiene	225	14.876	14.871	0.005	90	3919	5.00	5.21	
128 Naphthalene	128	14.991	14.993	-0.002	96	17192	5.00	4.28	
129 1,2,3-Trichlorobenzene	180	15.216	15.218	-0.002	92	6907	5.00	5.46	
131 2,4,5-Trichlorotoluene	159	15.989	15.990	-0.001	0	2382	5.00	5.22	
130 2,3,6-Trichlorotoluene	159	16.092	16.094	-0.002	87	1485	5.00	3.53	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		10.0	9.24	
S 134 1,2-Dichloroethene, Total	96				0		10.0	11.1	
S 135 1,3-Dichloropropene, Total	1				0		10.0	8.55	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260VOAPRI_00139	Amount Added: 0.20	Units: uL	
voaWEE1stRest_00001	Amount Added: 0.20	Units: uL	
VOAVAPRI_00006	Amount Added: 0.20	Units: uL	
voaWKet1 Rest_00001	Amount Added: 0.80	Units: uL	
VOAACROLEINPR_00006	Amount Added: 4.00	Units: uL	
VOA8260SURRE_00040	Amount Added: 0.20	Units: uL	
VOA8260INT_00040	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826006.D

Injection Date: 26-Aug-2015 15:04:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: IC VSTD1

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

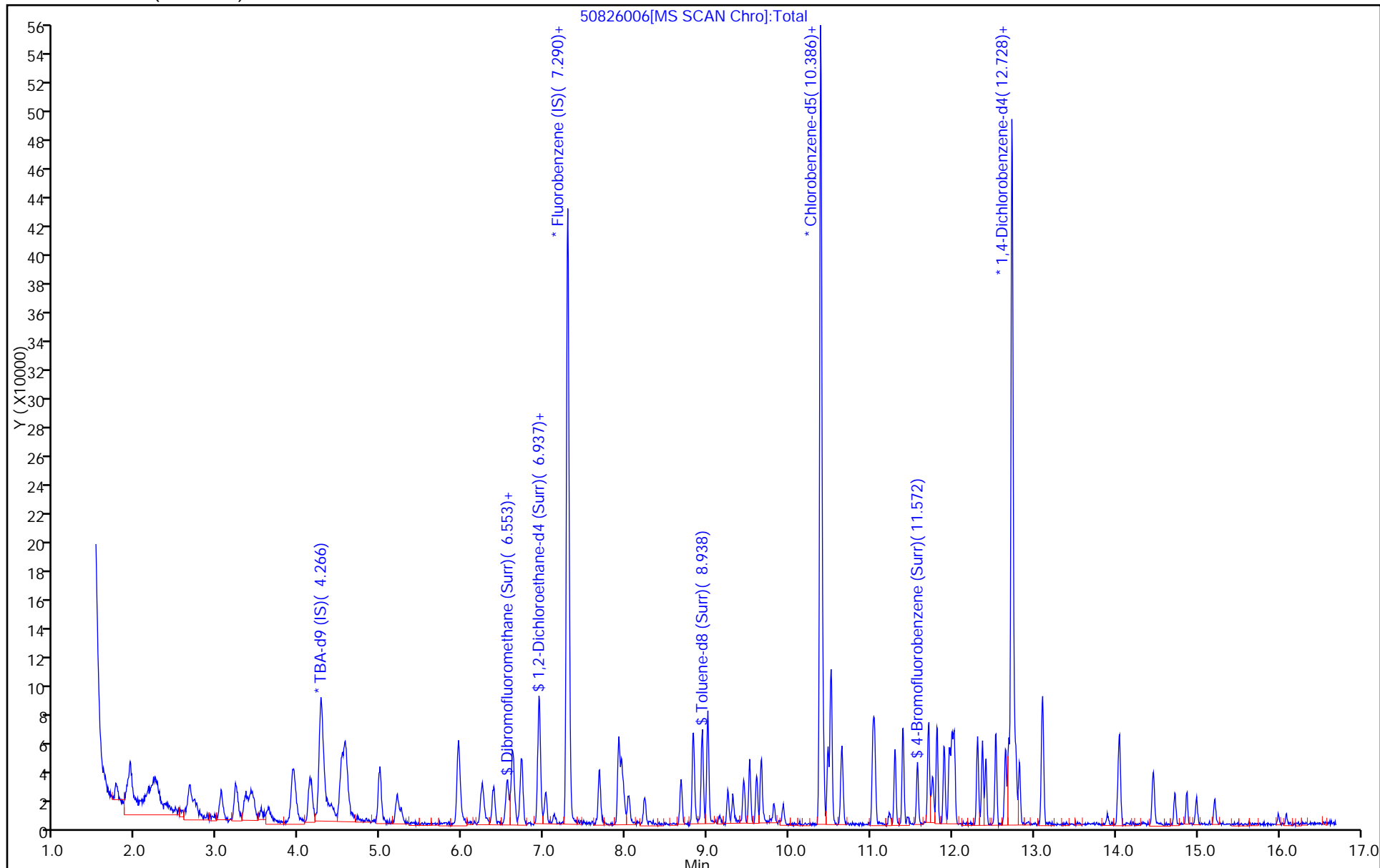
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



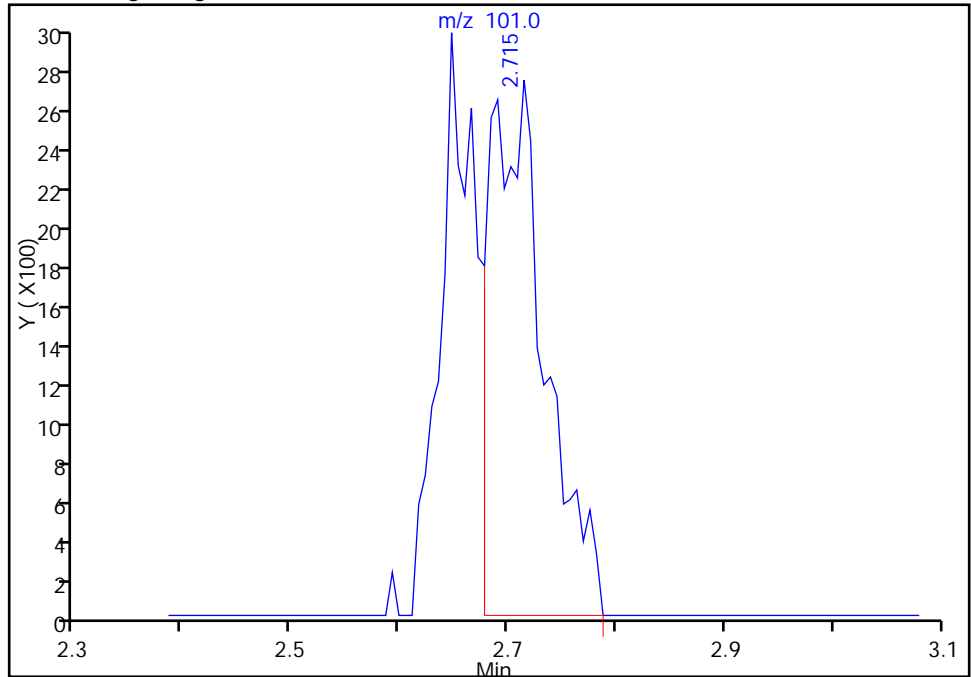
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826006.D
Injection Date: 26-Aug-2015 15:04:30 Instrument ID: CHHP5
Lims ID: IC VSTD1
Client ID:
Operator ID: 001562 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

18 Trichlorofluoromethane, CAS: 75-69-4

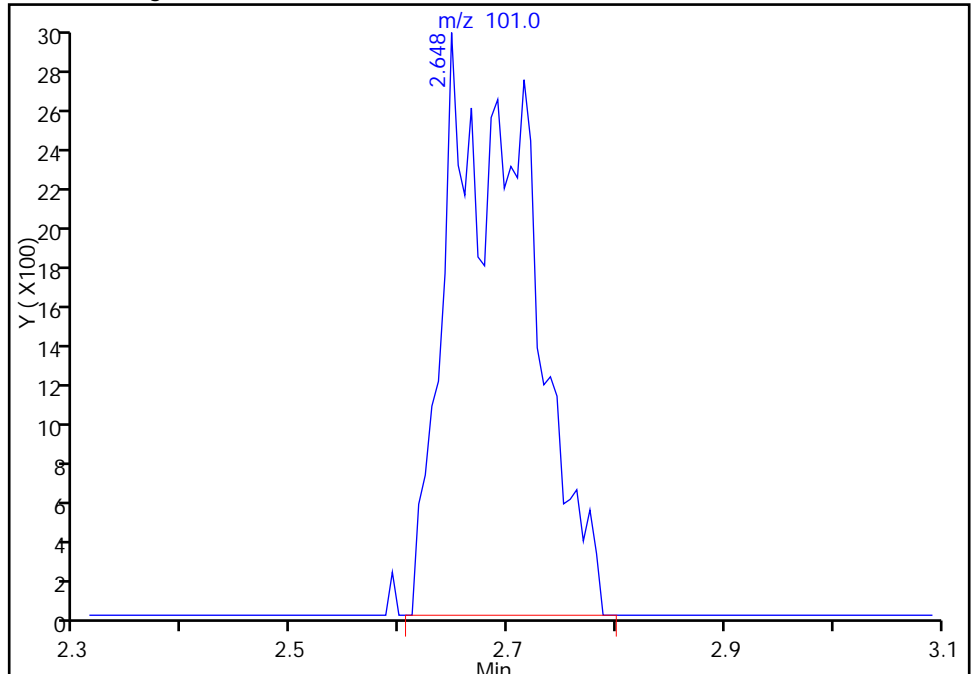
RT: 2.71
Area: 9760
Amount: 4.111403
Amount Units: ng

Processing Integration Results



RT: 2.65
Area: 16013
Amount: 5.602773
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 27-Aug-2015 10:07:27
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

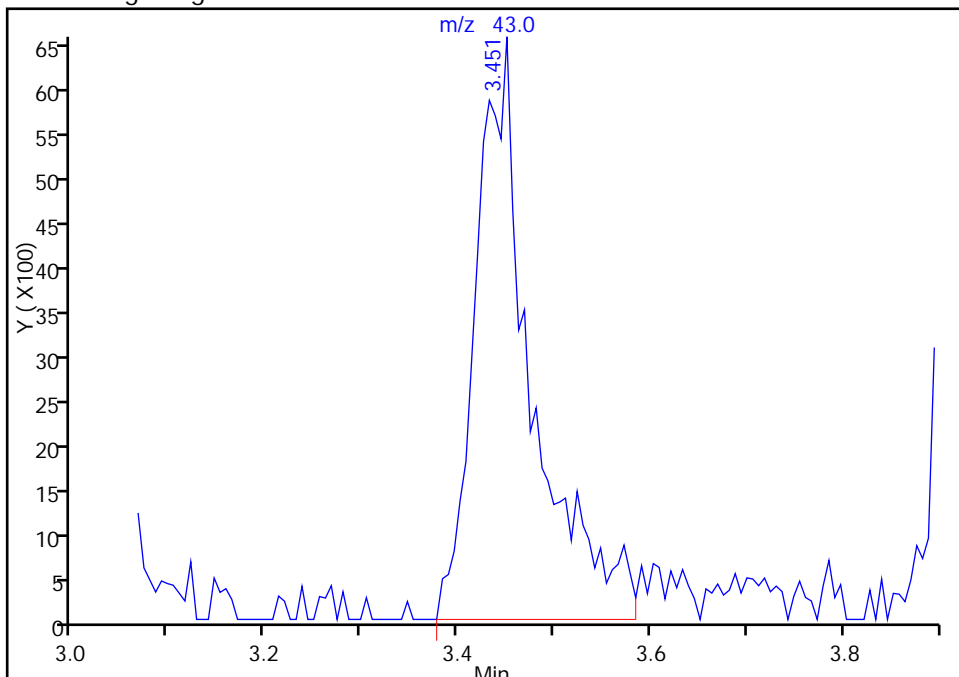
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826006.D
Injection Date: 26-Aug-2015 15:04:30 Instrument ID: CHHP5
Lims ID: IC VSTD1
Client ID:
Operator ID: 001562 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

24 Acetone, CAS: 67-64-1

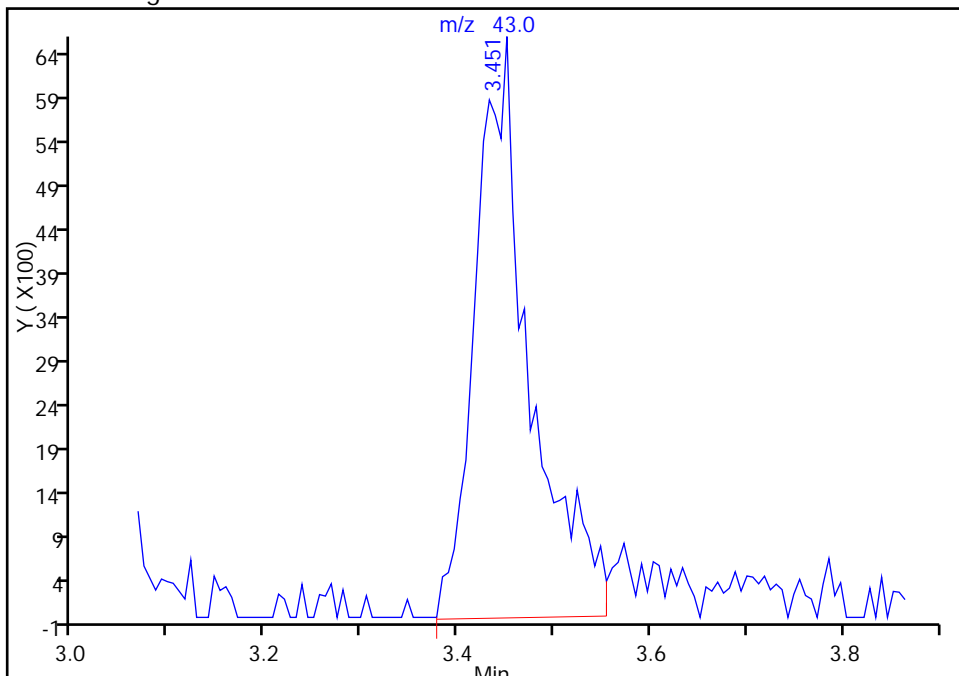
RT: 3.45
Area: 26617
Amount: 32.323853
Amount Units: ng

Processing Integration Results



RT: 3.45
Area: 25628
Amount: 31.310834
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 27-Aug-2015 10:07:27
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826008.D
 Lims ID: IC VSTD5
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 26-Aug-2015 15:28:30 ALS Bottle#: 7 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD5
 Misc. Info.: 180-0008300-008
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub4
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 27-Aug-2015 11:47:16 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK048

First Level Reviewer: fergusond

Date: 27-Aug-2015 10:07:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.260	4.267	-0.007	0	150907	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.290	0.000	97	426232	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.386	10.387	-0.001	89	101235	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.728	12.729	-0.001	96	159073	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.566	6.560	0.006	92	54310	25.0	25.9	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.931	0.000	0	75876	25.0	26.4	
\$ 7 Toluene-d8 (Surr)	98	8.938	8.939	-0.001	95	209810	25.0	26.9	
\$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.573	-0.001	85	76038	25.0	25.8	
11 Dichlorodifluoromethane	85	1.608	1.614	-0.006	99	63359	25.0	26.3	
12 Chloromethane	50	1.760	1.766	-0.006	99	96975	25.0	27.4	
13 Vinyl chloride	62	1.893	1.894	-0.001	97	84746	25.0	27.0	
14 Butadiene	39	1.930	1.937	-0.007	97	101243	25.0	27.3	
15 Bromomethane	94	2.234	2.247	-0.013	88	33586	25.0	26.3	
16 Chloroethane	64	2.386	2.387	-0.001	99	50718	25.0	26.8	
17 Dichlorofluoromethane	67	2.660	2.661	-0.001	97	111107	25.0	27.7	
18 Trichlorofluoromethane	101	2.690	2.667	0.023	87	81291	25.0	27.1	
20 Ethyl ether	59	3.043	3.050	-0.007	93	70836	25.0	25.5	
21 Acrolein	56	3.226	3.232	-0.006	99	52087	125.0	125.6	
22 1,1-Dichloroethene	96	3.347	3.348	-0.001	93	60024	25.0	25.3	
23 1,1,2-Trichloro-1,2,2-trif	101	3.414	3.403	0.011	94	67283	25.0	26.7	
24 Acetone	43	3.451	3.445	0.006	100	51703	50.0	60.1	
25 Iodomethane	142	3.536	3.543	-0.007	98	89056	25.0	25.2	
26 Carbon disulfide	76	3.627	3.628	-0.001	100	126552	25.0	23.0	
28 3-Chloro-1-propene	76	3.913	3.920	-0.007	86	31974	25.0	23.8	
30 Methyl acetate	43	3.938	3.938	0.000	99	347746	125.0	135.3	
31 Methylene Chloride	84	4.144	4.139	0.005	97	79338	25.0	25.8	
32 2-Methyl-2-propanol	59	4.400	4.407	-0.007	87	39038	250.0	229.8	
33 Acrylonitrile	53	4.522	4.522	0.000	100	329204	250.0	264.0	
34 trans-1,2-Dichloroethene	96	4.564	4.565	-0.001	97	66301	25.0	25.7	
35 Methyl tert-butyl ether	73	4.576	4.577	-0.001	95	147150	25.0	24.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.990	4.997	-0.007	95	109198	25.0	25.2	
37 1,1-Dichloroethane	63	5.203	5.204	-0.001	96	128072	25.0	25.2	
38 Vinyl acetate	43	5.252	5.252	0.000	97	92081	25.0	24.2	
45 cis-1,2-Dichloroethene	96	5.951	5.952	-0.001	86	69819	25.0	25.4	
44 2,2-Dichloropropane	77	5.945	5.952	-0.007	58	48880	25.0	24.0	
46 2-Butanone (MEK)	43	5.957	5.964	-0.007	66	68384	50.0	52.9	
49 Chlorobromomethane	128	6.237	6.238	-0.001	91	31931	25.0	26.4	
51 Tetrahydrofuran	42	6.255	6.250	0.005	91	51589	50.0	49.8	
52 Chloroform	83	6.377	6.384	-0.007	96	113670	25.0	25.9	
53 1,1,1-Trichloroethane	97	6.541	6.542	-0.001	95	81030	25.0	25.0	
54 Cyclohexane	56	6.614	6.615	-0.001	96	134937	25.0	24.9	
56 Carbon tetrachloride	117	6.712	6.718	-0.006	95	69375	25.0	25.1	
55 1,1-Dichloropropene	75	6.730	6.730	0.000	91	91438	25.0	25.5	
57 Isobutyl alcohol	41	6.925	6.925	-0.001	78	48239	625.0	594.3	
58 Benzene	78	6.943	6.943	0.000	98	287091	25.0	27.3	
59 1,2-Dichloroethane	62	7.022	7.022	0.000	96	95482	25.0	26.3	
62 n-Heptane	43	7.308	7.308	0.000	93	97699	25.0	24.9	
64 Trichloroethene	130	7.673	7.679	-0.006	96	64418	25.0	25.1	
66 Methylcyclohexane	83	7.916	7.917	-0.001	96	97305	25.0	24.0	
67 1,2-Dichloropropane	63	7.953	7.947	0.006	94	67479	25.0	24.5	
70 1,4-Dioxane	88	8.032	8.026	0.006	40	9374	500.0	493.0	
68 Dibromomethane	93	8.038	8.038	0.000	94	37187	25.0	26.6	
71 Dichlorobromomethane	83	8.232	8.233	-0.001	97	67441	25.0	24.4	
74 cis-1,3-Dichloropropene	75	8.677	8.677	0.000	88	70847	25.0	21.8	
75 4-Methyl-2-pentanone (MIBK)	43	8.829	8.829	0.000	99	122590	50.0	49.1	
76 Toluene	91	9.005	9.006	-0.001	98	281285	25.0	28.1	
77 trans-1,3-Dichloropropene	75	9.248	9.249	-0.001	99	61867	25.0	23.7	
78 Ethyl methacrylate	69	9.309	9.310	-0.001	91	57962	25.0	22.9	
79 1,1,2-Trichloroethane	97	9.443	9.444	-0.001	94	55277	25.0	29.0	
80 Tetrachloroethene	164	9.516	9.517	-0.001	96	53495	25.0	27.5	
81 1,3-Dichloropropane	76	9.601	9.602	-0.001	98	95569	25.0	27.0	
82 2-Hexanone	43	9.656	9.657	-0.001	98	91984	50.0	51.1	
84 Chlorodibromomethane	129	9.814	9.815	-0.001	91	38492	25.0	23.3	
85 Ethylene Dibromide	107	9.930	9.930	0.000	95	49971	25.0	27.2	
86 3-Chlorobenzotrifluoride	180	10.386	10.387	-0.001	69	87568	25.0	27.2	
87 Chlorobenzene	112	10.416	10.417	-0.001	94	177451	25.0	27.5	
88 4-Chlorobenzotrifluoride	180	10.477	10.478	-0.001	96	83430	25.0	27.4	
89 1,1,1,2-Tetrachloroethane	131	10.508	10.508	0.000	89	55507	25.0	26.4	
90 Ethylbenzene	106	10.514	10.514	0.000	99	88753	25.0	25.9	
91 m-Xylene & p-Xylene	106	10.648	10.648	0.000	0	107918	25.0	25.7	
92 o-Xylene	106	11.031	11.025	0.006	98	99302	25.0	24.9	
93 Styrene	104	11.049	11.050	-0.001	94	173558	25.0	26.3	
94 Bromoform	173	11.232	11.232	0.000	95	21829	25.0	23.2	
96 2-Chlorobenzotrifluoride	180	11.299	11.299	0.000	97	88525	25.0	27.9	
97 Isopropylbenzene	105	11.396	11.396	0.000	97	258721	25.0	26.5	
100 Bromobenzene	156	11.712	11.707	0.005	96	66130	25.0	24.2	
99 1,1,2,2-Tetrachloroethane	83	11.706	11.707	-0.001	78	70831	25.0	27.5	
102 trans-1,4-Dichloro-2-buten	53	11.743	11.743	0.000	69	22318	25.0	22.6	
101 1,2,3-Trichloropropane	110	11.761	11.762	-0.001	87	23273	25.0	25.8	
103 N-Propylbenzene	120	11.810	11.810	0.000	99	74204	25.0	23.7	
104 2-Chlorotoluene	126	11.895	11.901	-0.006	95	65813	25.0	24.8	
105 3-Chlorotoluene	126	11.962	11.968	-0.006	95	68954	25.0	25.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.992	11.993	-0.001	95	229921	25.0	26.0	
107 4-Chlorotoluene	126	12.022	12.023	-0.001	98	77519	25.0	26.5	
108 tert-Butylbenzene	119	12.308	12.309	-0.001	95	173217	25.0	24.1	
110 1,2,4-Trimethylbenzene	105	12.369	12.370	-0.001	98	227690	25.0	25.7	
111 1,2-dichloro-4-(trifluorom	214	12.412	12.412	0.000	98	61289	25.0	24.8	
112 sec-Butylbenzene	105	12.533	12.534	-0.001	95	258745	25.0	25.5	
113 1,3-Dichlorobenzene	146	12.649	12.650	-0.001	96	127273	25.0	26.2	
114 4-Isopropyltoluene	119	12.692	12.692	0.000	97	215293	25.0	25.1	
115 1,4-Dichlorobenzene	146	12.752	12.753	-0.001	95	133066	25.0	26.3	
116 2,4-Dichloro-1-(trifluorom	214	12.777	12.777	0.000	93	59316	25.0	25.9	
118 2,5-Dichlorobenzotrifluori	214	12.819	12.820	-0.001	0	61489	25.0	24.9	
120 n-Butylbenzene	91	13.099	13.100	-0.001	98	181007	25.0	24.7	
121 1,2-Dichlorobenzene	146	13.111	13.112	-0.001	95	119403	25.0	26.3	
122 1,2-Dibromo-3-Chloropropan	75	13.902	13.897	0.005	70	9637	25.0	25.8	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.042	14.049	-0.007	0	187206	75.0	72.1	
125 2,3- & 3,4- Dichlorotoluen	125	14.462	14.463	-0.001	0	120746	50.0	48.8	
126 1,2,4-Trichlorobenzene	180	14.730	14.724	0.006	92	45439	25.0	25.7	
127 Hexachlorobutadiene	225	14.870	14.870	0.000	95	23516	25.0	27.6	
128 Naphthalene	128	14.991	14.992	-0.001	98	101055	25.0	22.2	
129 1,2,3-Trichlorobenzene	180	15.210	15.217	-0.007	93	35802	25.0	25.0	
131 2,4,5-Trichlorotoluene	159	15.995	15.990	0.005	0	11540	25.0	22.3	
130 2,3,6-Trichlorotoluene	159	16.092	16.093	-0.001	92	10524	25.0	22.1	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		50.0	50.6	
S 134 1,2-Dichloroethene, Total	96				0		50.0	51.1	
S 135 1,3-Dichloropropene, Total	1				0		50.0	45.5	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOA8260SURR_00040	Amount Added: 1.00	Units: uL	
VOA8260VOAPRI_00139	Amount Added: 1.00	Units: uL	
voaWEE1stRest_00001	Amount Added: 1.00	Units: uL	
voaWKet1 Rest_00001	Amount Added: 1.00	Units: uL	
VOAACROLEINPR_00006	Amount Added: 5.00	Units: uL	
VOAVAPRI_00006	Amount Added: 1.00	Units: uL	
VOA8260INT_00040	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826008.D

Injection Date: 26-Aug-2015 15:28:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: IC VSTD5

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

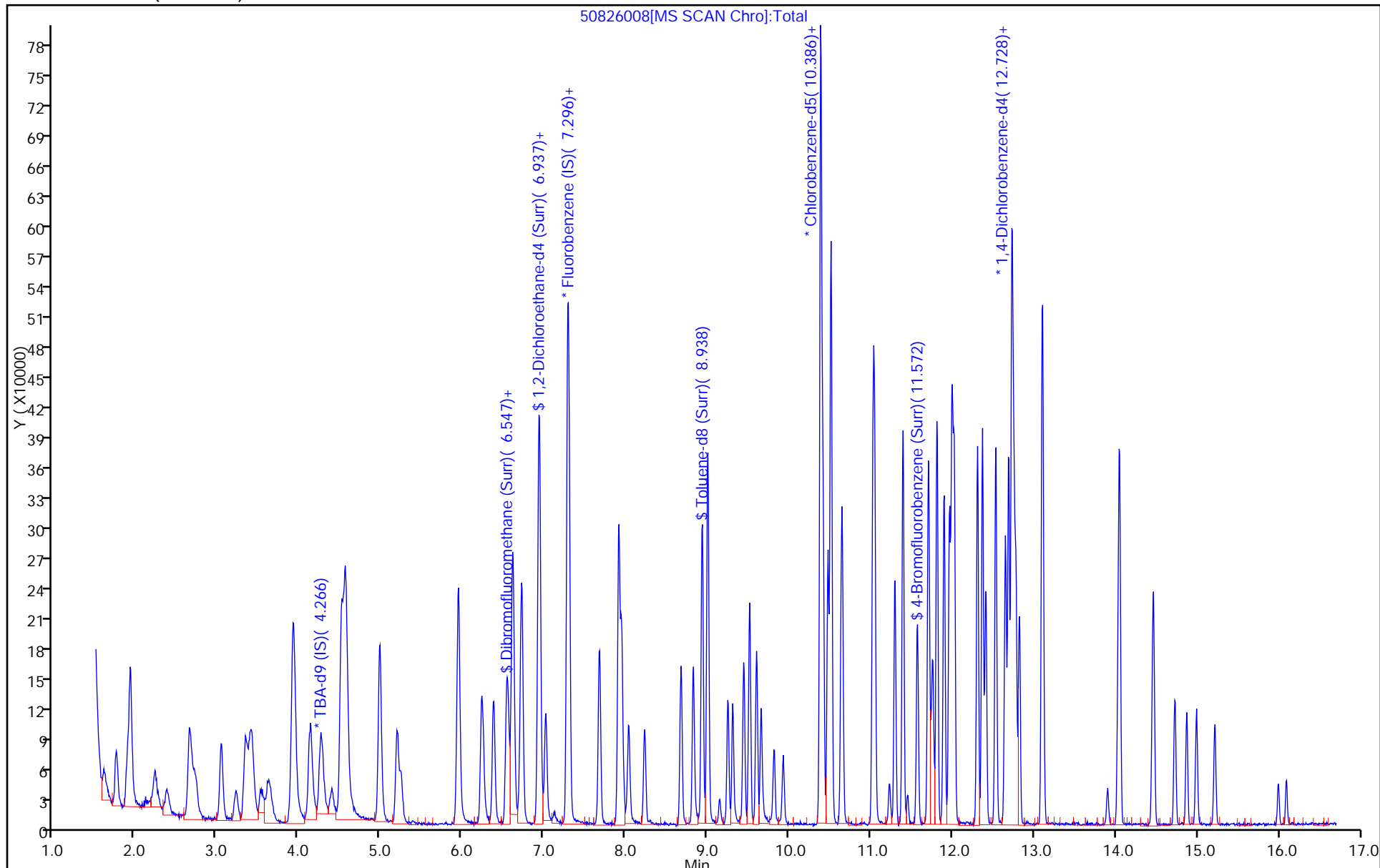
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826009.D
 Lims ID: ICIS VSTD10
 Client ID:
 Sample Type: ICIS Calib Level: 3
 Inject. Date: 26-Aug-2015 15:52:30 ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICIS VSTD10
 Misc. Info.: 180-0008300-009
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub4
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 27-Aug-2015 12:15:57 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK048

First Level Reviewer: fergusond

Date: 27-Aug-2015 08:52:40

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	4.274	0.000	0	157569	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.291	7.291	0.000	98	461146	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.387	10.387	0.000	88	108412	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.730	12.730	0.000	96	172635	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.567	6.567	0.000	94	112824	50.0	49.8	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.938	6.938	0.000	0	155346	50.0	49.9	
\$ 7 Toluene-d8 (Surr)	98	8.933	8.933	0.000	94	471382	50.0	56.4	
\$ 8 4-Bromofluorobenzene (Surr	95	11.574	11.574	0.000	86	171548	50.0	54.4	
11 Dichlorodifluoromethane	85	1.627	1.627	0.000	99	139988	50.0	53.7	
12 Chloromethane	50	1.761	1.761	0.000	100	189967	50.0	49.7	
13 Vinyl chloride	62	1.901	1.901	0.000	97	181809	50.0	53.6	
14 Butadiene	39	1.931	1.931	0.000	97	213171	50.0	53.2	
15 Bromomethane	94	2.236	2.236	0.000	92	58568	50.0	42.4	
16 Chloroethane	64	2.376	2.376	0.000	99	99329	50.0	48.5	
17 Dichlorofluoromethane	67	2.661	2.661	0.000	97	232009	50.0	53.4	
18 Trichlorofluoromethane	101	2.661	2.661	0.000	43	174036	50.0	53.6	
20 Ethyl ether	59	3.051	3.051	0.000	97	145899	50.0	48.5	
21 Acrolein	56	3.233	3.233	0.000	98	66358	150.0	147.9	
22 1,1-Dichloroethene	96	3.355	3.355	0.000	95	132602	50.0	51.6	
23 1,1,2-Trichloro-1,2,2-trif	101	3.416	3.416	0.000	94	141996	50.0	52.2	
24 Acetone	43	3.452	3.452	0.000	99	88342	100.0	94.9	
25 Iodomethane	142	3.556	3.556	0.000	98	190440	50.0	49.8	
26 Carbon disulfide	76	3.635	3.635	0.000	100	288788	50.0	48.4	
28 3-Chloro-1-propene	76	3.921	3.921	0.000	88	70192	50.0	48.3	
30 Methyl acetate	43	3.945	3.945	0.000	99	664608	250.0	239.0	
31 Methylene Chloride	84	4.152	4.152	0.000	97	150258	50.0	49.8	
32 2-Methyl-2-propanol	59	4.413	4.413	0.000	87	81932	500.0	462.0	
33 Acrylonitrile	53	4.517	4.517	0.000	99	693478	500.0	514.1	
34 trans-1,2-Dichloroethene	96	4.566	4.566	0.000	96	141577	50.0	50.8	
35 Methyl tert-butyl ether	73	4.584	4.584	0.000	95	302403	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	4.991	4.991	0.000	95	237492	50.0	50.7	
37 1,1-Dichloroethane	63	5.198	5.198	0.000	96	273423	50.0	49.8	
38 Vinyl acetate	43	5.253	5.253	0.000	97	191017	50.0	46.3	
45 cis-1,2-Dichloroethene	96	5.953	5.953	0.000	86	146208	50.0	49.1	
44 2,2-Dichloropropane	77	5.946	5.946	0.000	60	109416	50.0	49.7	
46 2-Butanone (MEK)	43	5.959	5.959	0.000	73	136667	100.0	97.8	
49 Chlorobromomethane	128	6.238	6.238	0.000	91	62915	50.0	48.1	
51 Tetrahydrofuran	42	6.257	6.257	0.000	94	107444	100.0	95.8	
52 Chloroform	83	6.385	6.385	0.000	96	232542	50.0	49.0	
53 1,1,1-Trichloroethane	97	6.549	6.549	0.000	96	178131	50.0	50.8	
54 Cyclohexane	56	6.616	6.616	0.000	96	302702	50.0	51.5	
56 Carbon tetrachloride	117	6.719	6.719	0.000	95	148991	50.0	49.9	
55 1,1-Dichloropropene	75	6.731	6.731	0.000	91	198075	50.0	51.0	
57 Isobutyl alcohol	41	6.926	6.926	0.000	79	113924	1250.0	1297.3	
58 Benzene	78	6.944	6.944	0.000	98	580241	50.0	51.0	
59 1,2-Dichloroethane	62	7.023	7.023	0.000	96	191991	50.0	48.8	
62 n-Heptane	43	7.309	7.309	0.000	96	215218	50.0	50.6	
64 Trichloroethene	130	7.674	7.674	0.000	97	138404	50.0	49.8	
66 Methylcyclohexane	83	7.918	7.918	0.000	96	222858	50.0	50.8	
67 1,2-Dichloropropane	63	7.954	7.954	0.000	95	144895	50.0	48.6	
70 1,4-Dioxane	88	8.027	8.027	0.000	48	20164	1000.0	980.3	
68 Dibromomethane	93	8.039	8.039	0.000	96	74626	50.0	49.3	
71 Dichlorobromomethane	83	8.234	8.234	0.000	98	141423	50.0	47.2	
74 cis-1,3-Dichloropropene	75	8.678	8.678	0.000	90	159644	50.0	45.5	
75 4-Methyl-2-pentanone (MIBK)	43	8.830	8.830	0.000	99	267134	100.0	100.0	
76 Toluene	91	9.006	9.006	0.000	98	594334	50.0	55.4	
77 trans-1,3-Dichloropropene	75	9.250	9.250	0.000	98	136231	50.0	48.6	
78 Ethyl methacrylate	69	9.311	9.311	0.000	94	132749	50.0	49.0	
79 1,1,2-Trichloroethane	97	9.444	9.444	0.000	94	105440	50.0	51.6	
80 Tetrachloroethene	164	9.517	9.517	0.000	95	111146	50.0	53.3	
81 1,3-Dichloropropane	76	9.603	9.603	0.000	98	194887	50.0	51.4	
82 2-Hexanone	43	9.657	9.657	0.000	99	195734	100.0	101.5	
84 Chlorodibromomethane	129	9.816	9.816	0.000	89	89414	50.0	50.6	
85 Ethylene Dibromide	107	9.931	9.931	0.000	100	100600	50.0	51.1	
86 3-Chlorobenzotrifluoride	180	10.387	10.387	0.000	86	189078	50.0	54.8	
87 Chlorobenzene	112	10.418	10.418	0.000	93	364174	50.0	52.7	
88 4-Chlorobenzotrifluoride	180	10.479	10.479	0.000	96	177807	50.0	54.5	
89 1,1,1,2-Tetrachloroethane	131	10.509	10.509	0.000	91	112884	50.0	50.1	
90 Ethylbenzene	106	10.515	10.515	0.000	99	199030	50.0	54.3	
91 m-Xylene & p-Xylene	106	10.649	10.649	0.000	0	244588	50.0	54.5	
92 o-Xylene	106	11.026	11.026	0.000	97	235252	50.0	55.1	
93 Styrene	104	11.051	11.051	0.000	95	381888	50.0	54.0	
94 Bromoform	173	11.233	11.233	0.000	96	48771	50.0	48.4	
96 2-Chlorobenzotrifluoride	180	11.294	11.294	0.000	96	184654	50.0	54.4	
97 Isopropylbenzene	105	11.397	11.397	0.000	97	601591	50.0	57.5	
100 Bromobenzene	156	11.708	11.708	0.000	94	144660	50.0	48.8	
99 1,1,2,2-Tetrachloroethane	83	11.708	11.708	0.000	77	148796	50.0	54.0	
102 trans-1,4-Dichloro-2-buten	53	11.744	11.744	0.000	79	49630	50.0	46.3	
101 1,2,3-Trichloropropane	110	11.762	11.762	0.000	88	46443	50.0	47.5	
103 N-Propylbenzene	120	11.811	11.811	0.000	99	174426	50.0	51.4	
104 2-Chlorotoluene	126	11.902	11.902	0.000	96	147328	50.0	51.1	
105 3-Chlorotoluene	126	11.963	11.963	0.000	96	151211	50.0	51.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.993	11.993	0.000	95	517168	50.0	54.0	
107 4-Chlorotoluene	126	12.024	12.024	0.000	98	159410	50.0	50.2	
108 tert-Butylbenzene	119	12.310	12.310	0.000	95	406052	50.0	52.1	
110 1,2,4-Trimethylbenzene	105	12.371	12.371	0.000	98	515539	50.0	53.7	
111 1,2-dichloro-4-(trifluorom	214	12.413	12.413	0.000	98	140073	50.0	52.3	
112 sec-Butylbenzene	105	12.535	12.535	0.000	95	604638	50.0	55.0	
113 1,3-Dichlorobenzene	146	12.650	12.650	0.000	98	273757	50.0	51.9	
114 4-Isopropyltoluene	119	12.687	12.687	0.000	97	504672	50.0	54.2	
115 1,4-Dichlorobenzene	146	12.754	12.754	0.000	93	277292	50.0	50.5	
116 2,4-Dichloro-1-(trifluorom	214	12.778	12.778	0.000	96	134729	50.0	54.3	
118 2,5-Dichlorobenzotrifluori	214	12.821	12.821	0.000	0	138171	50.0	51.5	
120 n-Butylbenzene	91	13.101	13.101	0.000	98	432555	50.0	54.3	
121 1,2-Dichlorobenzene	146	13.113	13.113	0.000	95	257985	50.0	52.3	
122 1,2-Dibromo-3-Chloropropan	75	13.904	13.904	0.000	76	20608	50.0	50.9	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.044	14.044	0.000	0	495585	150.0	176.0	
125 2,3- & 3,4- Dichlorotoluen	125	14.463	14.463	0.000	0	328345	100.0	122.3	
126 1,2,4-Trichlorobenzene	180	14.725	14.725	0.000	93	119069	50.0	62.1	
127 Hexachlorobutadiene	225	14.871	14.871	0.000	97	58574	50.0	63.4	
128 Naphthalene	128	14.993	14.993	0.000	97	301738	50.0	61.2	
129 1,2,3-Trichlorobenzene	180	15.218	15.218	0.000	95	100055	50.0	64.4	
131 2,4,5-Trichlorotoluene	159	15.990	15.990	0.000	0	37716	50.0	67.3	
130 2,3,6-Trichlorotoluene	159	16.094	16.094	0.000	94	36592	50.0	70.8	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		100.0	109.6	
S 134 1,2-Dichloroethene, Total	96				0		100.0	99.8	
S 135 1,3-Dichloropropene, Total	1				0		100.0	94.1	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOAACROLEINPR_00006	Amount Added: 6.00	Units: uL	
VOAVAPRI_00006	Amount Added: 2.00	Units: uL	
VOA8260SURR_00040	Amount Added: 2.00	Units: uL	
VOA8260VOAPRI_00139	Amount Added: 2.00	Units: uL	
voaWEE1stRest_00001	Amount Added: 2.00	Units: uL	
voaWKet1 Rest_00001	Amount Added: 2.00	Units: uL	
VOA8260INT_00040	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826009.D

Injection Date: 26-Aug-2015 15:52:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: ICIS VSTD10

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

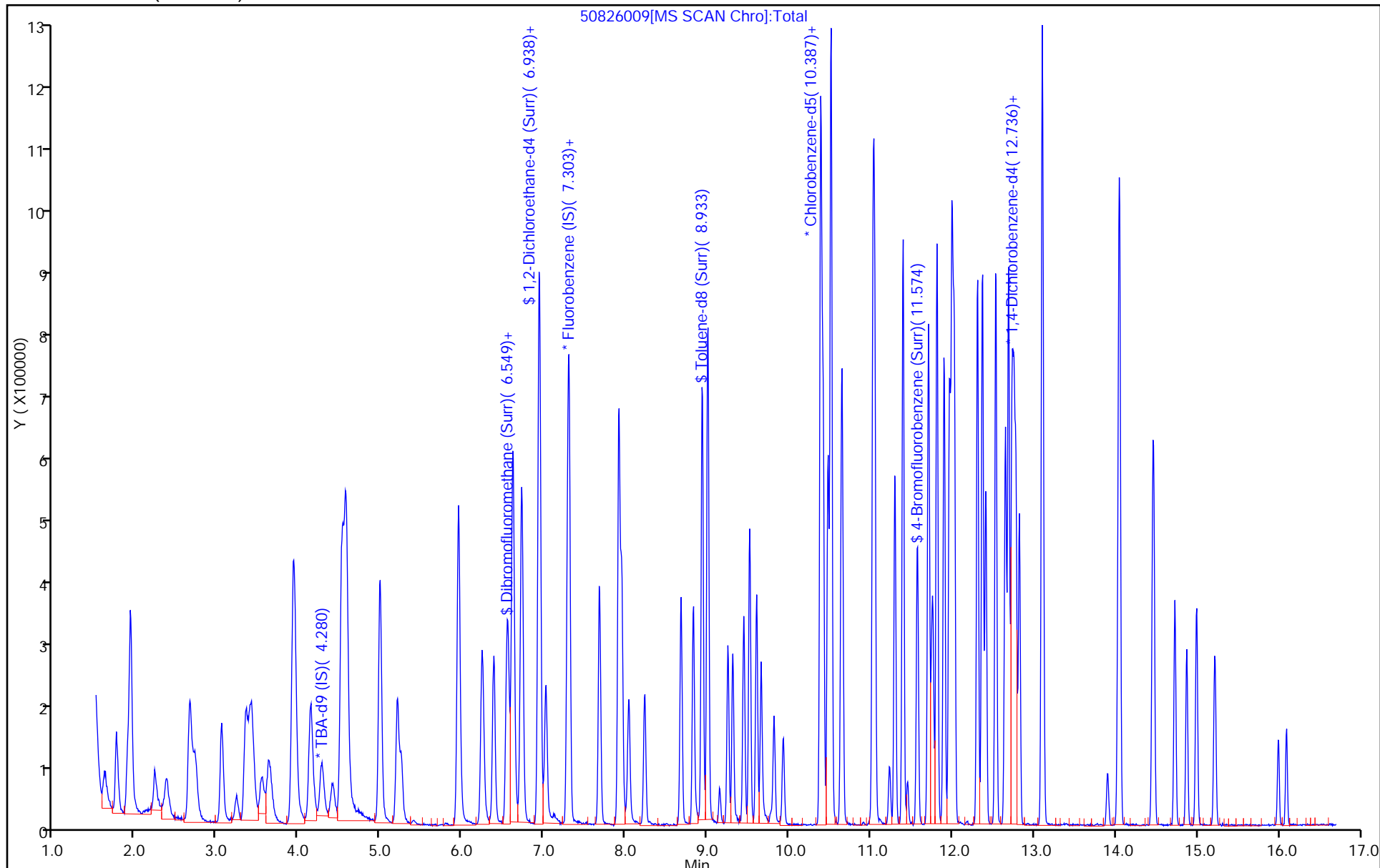
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826010.D
 Lims ID: IC VSTD15
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 26-Aug-2015 16:16:30 ALS Bottle#: 9 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD15
 Misc. Info.: 180-0008300-010
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub4
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 27-Aug-2015 11:49:37 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK048

First Level Reviewer: fergusond

Date: 27-Aug-2015 10:26:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.267	4.267	0.000	0	149384	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.290	0.000	98	491519	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.387	10.387	0.000	87	118747	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.729	12.729	0.000	96	175441	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.560	6.560	0.000	93	168602	75.0	69.8	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.931	0.000	0	228530	75.0	68.9	
\$ 7 Toluene-d8 (Surr)	98	8.939	8.939	0.000	95	679876	75.0	74.2	
\$ 8 4-Bromofluorobenzene (Surr	95	11.573	11.573	0.000	87	257596	75.0	74.5	
11 Dichlorodifluoromethane	85	1.614	1.614	0.000	99	195493	75.0	70.4	
12 Chloromethane	50	1.766	1.766	0.000	99	279657	75.0	68.6	
13 Vinyl chloride	62	1.894	1.894	0.000	98	253941	75.0	70.2	
14 Butadiene	39	1.937	1.937	0.000	95	291582	75.0	68.3	
15 Bromomethane	94	2.247	2.247	0.000	90	118541	75.0	80.5	
16 Chloroethane	64	2.387	2.387	0.000	99	155578	75.0	71.3	
17 Dichlorofluoromethane	67	2.661	2.661	0.000	99	318608	75.0	68.8	
18 Trichlorofluoromethane	101	2.667	2.667	0.000	59	241309	75.0	69.7	
20 Ethyl ether	59	3.050	3.050	0.000	98	219194	75.0	68.3	
21 Acrolein	56	3.232	3.232	0.000	99	75936	175.0	158.8	
22 1,1-Dichloroethene	96	3.348	3.348	0.000	94	192998	75.0	70.5	
23 1,1,2-Trichloro-1,2,2-trif	101	3.403	3.403	0.000	94	204297	75.0	70.4	
24 Acetone	43	3.445	3.445	0.000	98	125942	150.0	127.0	
25 Iodomethane	142	3.543	3.543	0.000	99	284793	75.0	69.8	
26 Carbon disulfide	76	3.628	3.628	0.000	100	436105	75.0	68.6	
28 3-Chloro-1-propene	76	3.920	3.920	0.000	88	108440	75.0	69.9	
30 Methyl acetate	43	3.938	3.938	0.000	99	1027560	375.0	346.7	
31 Methylene Chloride	84	4.139	4.139	0.000	97	225319	75.0	72.5	
32 2-Methyl-2-propanol	59	4.407	4.407	0.000	87	122262	750.0	727.2	
33 Acrylonitrile	53	4.522	4.522	0.000	98	978697	750.0	680.6	
34 trans-1,2-Dichloroethene	96	4.565	4.565	0.000	95	204201	75.0	68.7	
35 Methyl tert-butyl ether	73	4.577	4.577	0.000	96	477236	75.0	69.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.997	4.997	0.000	96	347025	75.0	69.5	
37 1,1-Dichloroethane	63	5.204	5.204	0.000	97	407919	75.0	69.7	
38 Vinyl acetate	43	5.252	5.252	0.000	97	303320	75.0	69.0	
45 cis-1,2-Dichloroethene	96	5.952	5.952	0.000	84	223289	75.0	70.3	
44 2,2-Dichloropropane	77	5.952	5.952	0.000	58	164171	75.0	70.0	
46 2-Butanone (MEK)	43	5.964	5.964	0.000	78	210830	150.0	141.5	
49 Chlorobromomethane	128	6.238	6.238	0.000	92	99282	75.0	71.2	
51 Tetrahydrofuran	42	6.250	6.250	0.000	91	153971	150.0	128.8	
52 Chloroform	83	6.384	6.384	0.000	97	359318	75.0	71.0	
53 1,1,1-Trichloroethane	97	6.542	6.542	0.000	96	264507	75.0	70.7	
54 Cyclohexane	56	6.615	6.615	0.000	97	451893	75.0	72.2	
56 Carbon tetrachloride	117	6.718	6.718	0.000	96	226405	75.0	71.1	
55 1,1-Dichloropropene	75	6.730	6.730	0.000	92	295676	75.0	71.5	
57 Isobutyl alcohol	41	6.925	6.925	0.000	92	149085	1875.0	1592.8	
58 Benzene	78	6.943	6.943	0.000	98	874781	75.0	72.2	
59 1,2-Dichloroethane	62	7.022	7.022	0.000	97	296218	75.0	70.7	
62 n-Heptane	43	7.308	7.308	0.000	96	319252	75.0	70.4	
64 Trichloroethene	130	7.679	7.679	0.000	97	207852	75.0	70.1	
66 Methylcyclohexane	83	7.917	7.917	0.000	96	336831	75.0	72.1	
67 1,2-Dichloropropane	63	7.947	7.947	0.000	94	218947	75.0	68.8	
70 1,4-Dioxane	88	8.026	8.026	0.000	39	31691	1500.0	1445.4	
68 Dibromomethane	93	8.038	8.038	0.000	96	114083	75.0	70.7	
71 Dichlorobromomethane	83	8.233	8.233	0.000	98	226806	75.0	71.0	
74 cis-1,3-Dichloropropene	75	8.677	8.677	0.000	91	264451	75.0	70.7	
75 4-Methyl-2-pentanone (MIBK)	43	8.829	8.829	0.000	99	434749	150.0	148.6	
76 Toluene	91	9.006	9.006	0.000	98	874948	75.0	74.4	
77 trans-1,3-Dichloropropene	75	9.249	9.249	0.000	99	224205	75.0	73.1	
78 Ethyl methacrylate	69	9.310	9.310	0.000	93	225233	75.0	75.9	
79 1,1,2-Trichloroethane	97	9.444	9.444	0.000	94	163298	75.0	73.0	
80 Tetrachloroethene	164	9.517	9.517	0.000	95	165929	75.0	72.7	
81 1,3-Dichloropropane	76	9.602	9.602	0.000	98	303582	75.0	73.1	
82 2-Hexanone	43	9.657	9.657	0.000	99	310969	150.0	147.2	
84 Chlorodibromomethane	129	9.815	9.815	0.000	91	143257	75.0	74.0	
85 Ethylene Dibromide	107	9.930	9.930	0.000	99	155041	75.0	71.9	
86 3-Chlorobenzotrifluoride	180	10.387	10.387	0.000	91	277802	75.0	73.5	
87 Chlorobenzene	112	10.417	10.417	0.000	93	551865	75.0	72.9	
88 4-Chlorobenzotrifluoride	180	10.478	10.478	0.000	95	267607	75.0	74.9	
89 1,1,1,2-Tetrachloroethane	131	10.508	10.508	0.000	92	179137	75.0	72.6	
90 Ethylbenzene	106	10.514	10.514	0.000	99	302122	75.0	75.3	
91 m-Xylene & p-Xylene	106	10.648	10.648	0.000	0	371799	75.0	75.6	
92 o-Xylene	106	11.025	11.025	0.000	97	359461	75.0	76.9	
93 Styrene	104	11.050	11.050	0.000	95	603962	75.0	78.0	
94 Bromoform	173	11.232	11.232	0.000	96	77411	75.0	70.1	
96 2-Chlorobenzotrifluoride	180	11.299	11.299	0.000	96	279773	75.0	75.3	
97 Isopropylbenzene	105	11.396	11.396	0.000	97	886244	75.0	77.4	
100 Bromobenzene	156	11.707	11.707	0.000	95	218069	75.0	72.4	
99 1,1,2,2-Tetrachloroethane	83	11.707	11.707	0.000	76	217578	75.0	72.1	
102 trans-1,4-Dichloro-2-buten	53	11.743	11.743	0.000	72	78865	75.0	72.4	
101 1,2,3-Trichloropropane	110	11.762	11.762	0.000	88	70373	75.0	70.8	
103 N-Propylbenzene	120	11.810	11.810	0.000	99	256762	75.0	74.5	
104 2-Chlorotoluene	126	11.901	11.901	0.000	96	218909	75.0	74.7	
105 3-Chlorotoluene	126	11.968	11.968	0.000	96	225916	75.0	75.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.993	11.993	0.000	94	741712	75.0	76.1	
107 4-Chlorotoluene	126	12.023	12.023	0.000	98	235437	75.0	73.0	
108 tert-Butylbenzene	119	12.309	12.309	0.000	94	598804	75.0	75.6	
110 1,2,4-Trimethylbenzene	105	12.370	12.370	0.000	98	753282	75.0	77.2	
111 1,2-dichloro-4-(trifluorom	214	12.412	12.412	0.000	98	196559	75.0	72.2	
112 sec-Butylbenzene	105	12.534	12.534	0.000	95	839536	75.0	75.1	
113 1,3-Dichlorobenzene	146	12.650	12.650	0.000	97	386149	75.0	72.0	
114 4-Isopropyltoluene	119	12.692	12.692	0.000	97	724310	75.0	76.6	
115 1,4-Dichlorobenzene	146	12.753	12.753	0.000	93	396239	75.0	71.0	
116 2,4-Dichloro-1-(trifluorom	214	12.777	12.777	0.000	96	183967	75.0	73.0	
118 2,5-Dichlorobenzotrifluori	214	12.820	12.820	0.000	0	196358	75.0	72.1	
120 n-Butylbenzene	91	13.100	13.100	0.000	98	598297	75.0	73.9	
121 1,2-Dichlorobenzene	146	13.112	13.112	0.000	95	354012	75.0	70.6	
122 1,2-Dibromo-3-Chloropropan	75	13.897	13.897	0.000	77	27203	75.0	66.1	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.049	14.049	0.000	0	616649	225.0	215.5	
125 2,3- & 3,4- Dichlorotoluen	125	14.463	14.463	0.000	0	378630	150.0	138.7	
126 1,2,4-Trichlorobenzene	180	14.724	14.724	0.000	95	127381	75.0	65.3	
127 Hexachlorobutadiene	225	14.870	14.870	0.000	96	62268	75.0	66.3	
128 Naphthalene	128	14.992	14.992	0.000	98	327683	75.0	65.4	
129 1,2,3-Trichlorobenzene	180	15.217	15.217	0.000	94	100749	75.0	63.8	
131 2,4,5-Trichlorotoluene	159	15.990	15.990	0.000	0	32434	75.0	57.0	
130 2,3,6-Trichlorotoluene	159	16.093	16.093	0.000	92	30574	75.0	58.2	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
S 134 1,2-Dichloroethene, Total	96				0		150.0	139.0	
S 133 Xylenes, Total	106				0		150.0	152.4	
S 135 1,3-Dichloropropene, Total	1				0		150.0	143.7	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOAVAPRI_00006	Amount Added: 3.00	Units: uL	
voaWKet1 Rest_00001	Amount Added: 3.00	Units: uL	
voaWEE1stRest_00001	Amount Added: 3.00	Units: uL	
VOA8260VOAPRI_00139	Amount Added: 3.00	Units: uL	
VOA8260SURR_00040	Amount Added: 3.00	Units: uL	
VOAACROLEINPR_00006	Amount Added: 7.00	Units: uL	
VOA8260INT_00040	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826010.D

Injection Date: 26-Aug-2015 16:16:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: IC VSTD15

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

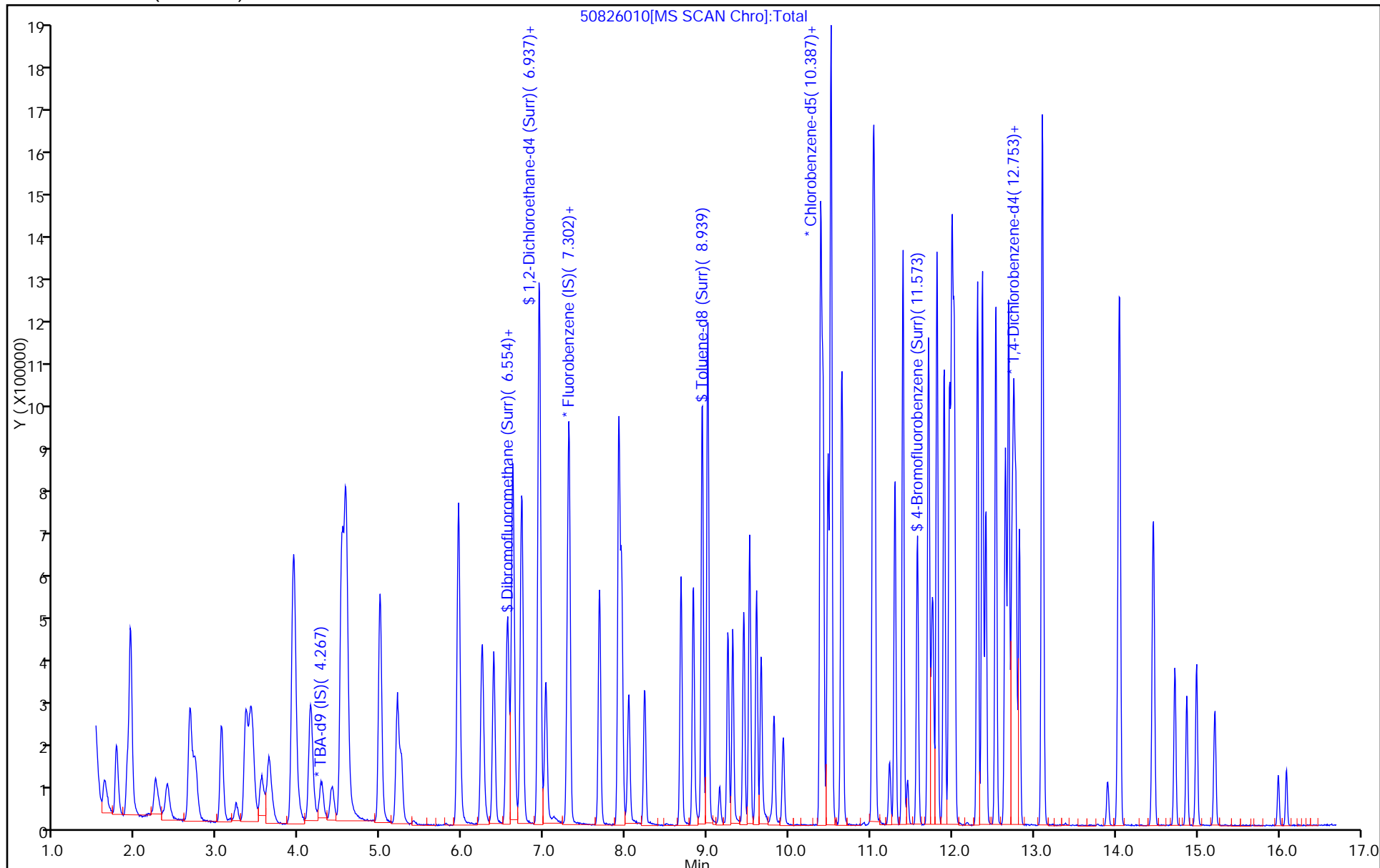
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826011.D
 Lims ID: IC VSTD20
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 26-Aug-2015 16:40:30 ALS Bottle#: 10 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD20
 Misc. Info.: 180-0008300-011
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub4
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 27-Aug-2015 11:44:05 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK048

First Level Reviewer: fergusond

Date: 27-Aug-2015 10:30:53

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	4.267	0.005	0	167321	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.290	-0.001	98	500323	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.386	10.387	-0.001	85	122904	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.728	12.729	-0.001	95	178343	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.566	6.560	0.006	94	230039	100.0	93.6	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.937	6.931	0.006	0	306020	100.0	90.7	
\$ 7 Toluene-d8 (Surr)	98	8.938	8.939	-0.001	95	918031	100.0	96.8	
\$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.573	-0.001	86	339508	100.0	94.9	
11 Dichlorodifluoromethane	85	1.614	1.614	0.000	99	268740	100.0	95.1	
12 Chloromethane	50	1.766	1.766	0.000	99	386017	100.0	93.0	
13 Vinyl chloride	62	1.900	1.894	0.006	98	356745	100.0	96.9	
14 Butadiene	39	1.936	1.937	-0.001	97	411077	100.0	94.5	
15 Bromomethane	94	2.240	2.247	-0.007	90	149495	100.0	99.8	
16 Chloroethane	64	2.386	2.387	-0.001	99	207155	100.0	93.3	
17 Dichlorofluoromethane	67	2.666	2.661	0.005	97	435665	100.0	92.4	
18 Trichlorofluoromethane	101	2.715	2.667	0.048	97	334740	100.0	95.0	
20 Ethyl ether	59	3.049	3.050	-0.001	97	295395	100.0	90.4	
21 Acrolein	56	3.226	3.232	-0.006	98	92519	200.0	190.1	
22 1,1-Dichloroethene	96	3.353	3.348	0.005	95	273818	100.0	98.3	
23 1,1,2-Trichloro-1,2,2-trif	101	3.414	3.403	0.011	93	284081	100.0	96.2	
24 Acetone	43	3.439	3.445	-0.006	99	173687	200.0	172.0	
25 Iodomethane	142	3.536	3.543	-0.007	98	394076	100.0	94.9	
26 Carbon disulfide	76	3.627	3.628	-0.001	100	636866	100.0	98.4	
28 3-Chloro-1-propene	76	3.925	3.920	0.005	88	156677	100.0	99.3	
30 Methyl acetate	43	3.938	3.938	0.000	99	1419018	500.0	470.4	
31 Methylene Chloride	84	4.138	4.139	-0.001	97	291271	100.0	93.8	
32 2-Methyl-2-propanol	59	4.406	4.407	-0.001	90	185374	1000.0	984.3	
33 Acrylonitrile	53	4.522	4.522	0.000	99	1347643	1000.0	920.7	
34 trans-1,2-Dichloroethene	96	4.564	4.565	-0.001	95	289331	100.0	95.6	
35 Methyl tert-butyl ether	73	4.582	4.577	0.005	96	664089	100.0	94.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.990	4.997	-0.007	97	493203	100.0	97.1	
37 1,1-Dichloroethane	63	5.203	5.204	-0.001	96	564450	100.0	94.7	
38 Vinyl acetate	43	5.252	5.252	0.000	97	437799	100.0	97.9	
44 2,2-Dichloropropane	77	5.945	5.952	-0.007	78	234514	100.0	98.2	
45 cis-1,2-Dichloroethene	96	5.951	5.952	-0.001	85	302874	100.0	93.7	
46 2-Butanone (MEK)	43	5.957	5.964	-0.007	62	269779	200.0	177.9	
49 Chlorobromomethane	128	6.237	6.238	-0.001	92	133128	100.0	93.8	
51 Tetrahydrofuran	42	6.249	6.250	-0.001	91	207145	200.0	170.2	
52 Chloroform	83	6.383	6.384	-0.001	96	482795	100.0	93.8	
53 1,1,1-Trichloroethane	97	6.541	6.542	-0.001	97	366328	100.0	96.2	
54 Cyclohexane	56	6.614	6.615	-0.001	96	637776	100.0	100.1	
56 Carbon tetrachloride	117	6.718	6.718	0.000	94	319309	100.0	98.5	
55 1,1-Dichloropropene	75	6.730	6.730	0.000	91	417880	100.0	99.2	
57 Isobutyl alcohol	41	6.924	6.925	-0.001	92	224262	2500.0	2353.8	
58 Benzene	78	6.943	6.943	0.000	98	1175215	100.0	95.3	
59 1,2-Dichloroethane	62	7.022	7.022	0.000	96	399895	100.0	93.7	
62 n-Heptane	43	7.308	7.308	0.000	97	444901	100.0	96.4	
64 Trichloroethene	130	7.679	7.679	0.000	96	285365	100.0	94.6	
66 Methylcyclohexane	83	7.916	7.917	-0.001	96	484430	100.0	101.8	
67 1,2-Dichloropropane	63	7.947	7.947	-0.001	94	304322	100.0	94.0	
70 1,4-Dioxane	88	8.026	8.026	0.000	40	44562	2000.0	1996.7	
68 Dibromomethane	93	8.038	8.038	0.000	97	152946	100.0	93.1	
71 Dichlorobromomethane	83	8.232	8.233	-0.001	97	310676	100.0	95.6	
74 cis-1,3-Dichloropropene	75	8.677	8.677	0.000	90	374197	100.0	98.2	
75 4-Methyl-2-pentanone (MIBK)	43	8.829	8.829	0.000	99	614019	200.0	202.8	
76 Toluene	91	9.005	9.006	-0.001	98	1201786	100.0	98.8	
77 trans-1,3-Dichloropropene	75	9.254	9.249	0.005	99	323125	100.0	101.8	
78 Ethyl methacrylate	69	9.309	9.310	-0.001	94	316812	100.0	103.2	
79 1,1,2-Trichloroethane	97	9.443	9.444	-0.001	94	224541	100.0	97.0	
80 Tetrachloroethene	164	9.516	9.517	-0.001	95	230665	100.0	97.7	
81 1,3-Dichloropropane	76	9.601	9.602	-0.001	98	408560	100.0	95.1	
82 2-Hexanone	43	9.656	9.657	-0.001	99	430988	200.0	197.2	
84 Chlorodibromomethane	129	9.820	9.815	0.005	89	202349	100.0	101.0	
85 Ethylene Dibromide	107	9.930	9.930	0.000	100	212653	100.0	95.3	
86 3-Chlorobenzotrifluoride	180	10.386	10.387	-0.001	91	368187	100.0	94.2	
87 Chlorobenzene	112	10.416	10.417	-0.001	93	752971	100.0	96.1	
88 4-Chlorobenzotrifluoride	180	10.477	10.478	-0.001	96	350243	100.0	94.7	
89 1,1,1,2-Tetrachloroethane	131	10.508	10.508	0.000	91	247335	100.0	96.9	
90 Ethylbenzene	106	10.520	10.514	0.006	99	417206	100.0	100.5	
91 m-Xylene & p-Xylene	106	10.648	10.648	0.000	0	516778	100.0	101.5	
92 o-Xylene	106	11.031	11.025	0.006	97	488783	100.0	101.0	
93 Styrene	104	11.049	11.050	-0.001	95	812783	100.0	101.4	
94 Bromoform	173	11.232	11.232	0.000	96	109983	100.0	96.2	
96 2-Chlorobenzotrifluoride	180	11.299	11.299	-0.001	95	362334	100.0	94.2	
97 Isopropylbenzene	105	11.396	11.396	0.000	97	1229067	100.0	103.7	
100 Bromobenzene	156	11.706	11.707	-0.001	95	300450	100.0	98.1	
99 1,1,2,2-Tetrachloroethane	83	11.706	11.707	-0.001	76	290248	100.0	93.0	
102 trans-1,4-Dichloro-2-buten	53	11.743	11.743	0.000	75	107372	100.0	97.0	
101 1,2,3-Trichloropropane	110	11.767	11.762	0.005	84	94129	100.0	93.2	
103 N-Propylbenzene	120	11.816	11.810	0.006	99	351814	100.0	100.4	
104 2-Chlorotoluene	126	11.901	11.901	0.000	96	301246	100.0	101.1	
105 3-Chlorotoluene	126	11.968	11.968	0.000	95	297767	100.0	97.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.992	11.993	-0.001	94	1014826	100.0	102.5	
107 4-Chlorotoluene	126	12.022	12.023	-0.001	98	324433	100.0	99.0	
108 tert-Butylbenzene	119	12.308	12.309	-0.001	94	836893	100.0	104.0	
110 1,2,4-Trimethylbenzene	105	12.369	12.370	-0.001	98	1013032	100.0	102.1	
111 1,2-dichloro-4-(trifluorom	214	12.412	12.412	0.000	98	258438	100.0	93.4	
112 sec-Butylbenzene	105	12.533	12.534	-0.001	95	1168492	100.0	102.8	
113 1,3-Dichlorobenzene	146	12.649	12.650	-0.001	97	523315	100.0	96.0	
114 4-Isopropyltoluene	119	12.692	12.692	0.000	96	987448	100.0	102.7	
115 1,4-Dichlorobenzene	146	12.752	12.753	-0.001	94	532103	100.0	93.9	
116 2,4-Dichloro-1-(trifluorom	214	12.777	12.777	0.000	95	235991	100.0	92.1	
118 2,5-Dichlorobenzotrifluori	214	12.819	12.820	-0.001	0	254571	100.0	91.9	
120 n-Butylbenzene	91	13.099	13.100	-0.001	98	841574	100.0	102.3	
121 1,2-Dichlorobenzene	146	13.111	13.112	-0.001	94	474503	100.0	93.1	
122 1,2-Dibromo-3-Chloropropan	75	13.902	13.897	0.005	77	39315	100.0	94.0	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.042	14.049	-0.007	0	827426	300.0	284.4	
125 2,3- & 3,4- Dichlorotoluen	125	14.462	14.463	-0.001	0	510138	200.0	183.9	
126 1,2,4-Trichlorobenzene	180	14.723	14.724	-0.001	94	175776	100.0	88.7	
127 Hexachlorobutadiene	225	14.869	14.870	-0.001	97	83392	100.0	87.3	
128 Naphthalene	128	14.991	14.992	-0.001	98	463258	100.0	90.9	
129 1,2,3-Trichlorobenzene	180	15.210	15.217	-0.007	96	137103	100.0	85.4	
131 2,4,5-Trichlorotoluene	159	15.995	15.990	0.005	0	45065	100.0	77.8	
130 2,3,6-Trichlorotoluene	159	16.092	16.093	-0.001	97	45128	100.0	84.5	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
S 134 1,2-Dichloroethene, Total	96				0		200.0	189.3	
S 133 Xylenes, Total	106				0		200.0	202.5	
S 135 1,3-Dichloropropene, Total	1				0		200.0	200.0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOAACROLEINPR_00006	Amount Added: 8.00	Units: uL	
VOAVAPRI_00006	Amount Added: 4.00	Units: uL	
voaWKet1 Rest_00001	Amount Added: 4.00	Units: uL	
voaWEE1stRest_00001	Amount Added: 4.00	Units: uL	
VOA8260VOAPRI_00139	Amount Added: 4.00	Units: uL	
VOA8260SURR_00040	Amount Added: 4.00	Units: uL	
VOA8260INT_00040	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826011.D

Injection Date: 26-Aug-2015 16:40:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: IC VSTD20

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

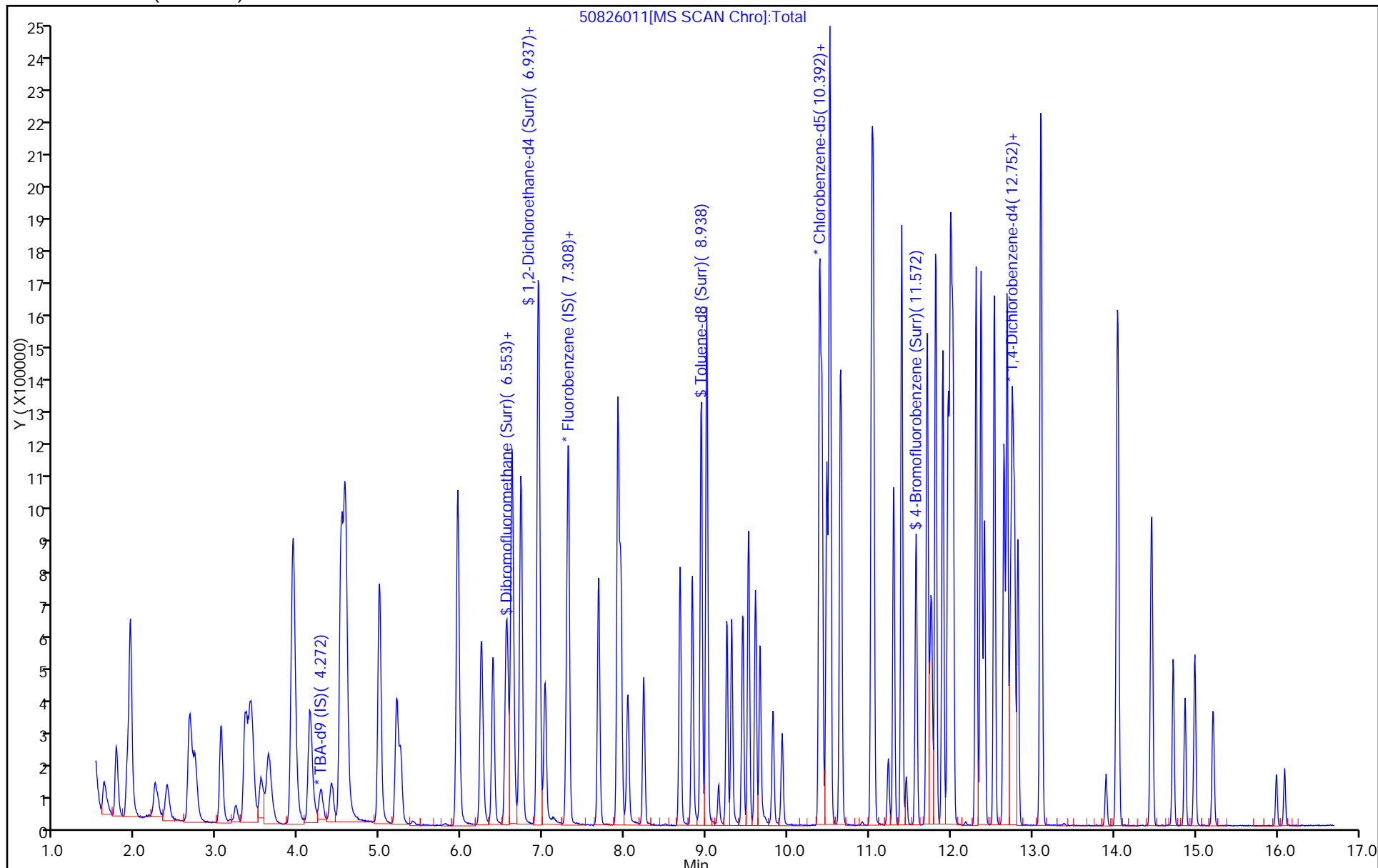
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826012.D
 Lims ID: IC VSTD35
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 26-Aug-2015 17:04:30 ALS Bottle#: 11 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD35
 Misc. Info.: 180-0008300-012
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub4
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 27-Aug-2015 11:50:05 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK048

First Level Reviewer: fergusond

Date: 27-Aug-2015 11:50:05

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	4.267	0.011	0	175358	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.290	-0.001	98	502256	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.385	10.387	-0.002	63	129614	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.727	12.729	-0.002	95	181323	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.559	6.560	-0.001	93	399678	175.0	162.0	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.930	6.931	-0.001	0	544829	175.0	160.8	
\$ 7 Toluene-d8 (Surr)	98	8.937	8.939	-0.002	94	1580158	175.0	158.0	
\$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.573	-0.001	87	617045	175.0	163.6	
11 Dichlorodifluoromethane	85	1.619	1.614	0.005	99	461015	175.0	162.5	
12 Chloromethane	50	1.765	1.766	-0.001	99	669660	175.0	160.7	
13 Vinyl chloride	62	1.905	1.894	0.011	98	603655	175.0	163.3	
14 Butadiene	39	1.935	1.937	-0.002	94	700624	175.0	160.5	
15 Bromomethane	94	2.233	2.247	-0.014	90	267454	175.0	177.8	
16 Chloroethane	64	2.379	2.387	-0.008	99	358728	175.0	160.9	
17 Dichlorofluoromethane	67	2.659	2.661	-0.002	98	748877	175.0	158.3	
18 Trichlorofluoromethane	101	2.708	2.667	0.041	98	579992	175.0	163.9	
20 Ethyl ether	59	3.049	3.050	-0.001	97	521056	175.0	158.9	
21 Acrolein	56	3.231	3.232	-0.001	99	108307	225.0	221.7	
22 1,1-Dichloroethene	96	3.347	3.348	-0.001	95	473565	175.0	169.3	
23 1,1,2-Trichloro-1,2,2-trif	101	3.408	3.403	0.005	94	488054	175.0	164.7	
24 Acetone	43	3.438	3.445	-0.007	98	332039	350.0	327.6	
25 Iodomethane	142	3.547	3.543	0.004	98	696716	175.0	167.1	
26 Carbon disulfide	76	3.633	3.628	0.005	100	1177201	175.0	181.2	
28 3-Chloro-1-propene	76	3.919	3.920	-0.001	89	285911	175.0	180.5	
30 Methyl acetate	43	3.937	3.938	-0.001	99	2539904	875.0	838.7	
31 Methylene Chloride	84	4.138	4.139	-0.001	97	510471	175.0	168.4	
32 2-Methyl-2-propanol	59	4.411	4.407	0.004	90	352268	1750.0	1784.8	
33 Acrylonitrile	53	4.521	4.522	-0.001	99	2452551	1750.0	1669.2	
34 trans-1,2-Dichloroethene	96	4.570	4.565	0.005	95	510637	175.0	168.1	
35 Methyl tert-butyl ether	73	4.582	4.577	0.005	97	1204325	175.0	171.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.989	4.997	-0.008	96	889892	175.0	174.5	
37 1,1-Dichloroethane	63	5.202	5.204	-0.002	96	998105	175.0	166.8	
38 Vinyl acetate	43	5.251	5.252	-0.001	97	801339	175.0	178.5	
44 2,2-Dichloropropane	77	5.944	5.952	-0.008	79	413686	175.0	172.5	
45 cis-1,2-Dichloroethene	96	5.950	5.952	-0.002	86	550789	175.0	169.7	
46 2-Butanone (MEK)	43	5.957	5.964	-0.007	98	514894	350.0	338.2	
49 Chlorobromomethane	128	6.236	6.238	-0.002	92	234034	175.0	164.3	
51 Tetrahydrofuran	42	6.249	6.250	-0.001	91	417684	350.0	342.0	
52 Chloroform	83	6.382	6.384	-0.002	96	838419	175.0	162.2	
53 1,1,1-Trichloroethane	97	6.541	6.542	-0.001	97	661680	175.0	173.1	
54 Cyclohexane	56	6.614	6.615	-0.001	96	1115710	175.0	174.4	
56 Carbon tetrachloride	117	6.717	6.718	-0.001	96	566329	175.0	174.0	
55 1,1-Dichloropropene	75	6.729	6.730	-0.001	91	734207	175.0	173.7	
57 Isobutyl alcohol	41	6.924	6.925	-0.001	94	417725	4375.0	4367.4	
58 Benzene	78	6.942	6.943	-0.001	98	2000326	175.0	161.5	
59 1,2-Dichloroethane	62	7.021	7.022	-0.001	97	709743	175.0	165.7	
62 n-Heptane	43	7.307	7.308	-0.001	96	819932	175.0	177.0	
64 Trichloroethene	130	7.678	7.679	-0.001	97	506964	175.0	167.3	
66 Methylcyclohexane	83	7.915	7.917	-0.002	96	866758	175.0	181.5	
67 1,2-Dichloropropane	63	7.946	7.947	-0.001	94	547361	175.0	168.4	
70 1,4-Dioxane	88	8.025	8.026	-0.001	46	82622	3500.0	3687.8	M
68 Dibromomethane	93	8.037	8.038	-0.001	96	277699	175.0	168.4	
71 Dichlorobromomethane	83	8.232	8.233	-0.001	98	576102	175.0	176.5	
74 cis-1,3-Dichloropropene	75	8.676	8.677	-0.001	90	714562	175.0	186.9	
75 4-Methyl-2-pentanone (MIBK)	43	8.828	8.829	-0.001	98	1157588	350.0	362.5	
76 Toluene	91	9.004	9.006	-0.002	97	2050607	175.0	159.8	
77 trans-1,3-Dichloropropene	75	9.248	9.249	-0.001	98	619485	175.0	185.0	
78 Ethyl methacrylate	69	9.309	9.310	-0.001	94	602921	175.0	186.2	
79 1,1,2-Trichloroethane	97	9.442	9.444	-0.002	93	403722	175.0	165.4	
80 Tetrachloroethene	164	9.515	9.517	-0.002	95	401915	175.0	161.4	
81 1,3-Dichloropropane	76	9.601	9.602	-0.001	98	743698	175.0	164.1	
82 2-Hexanone	43	9.655	9.657	-0.002	99	820858	350.0	356.1	
84 Chlorodibromomethane	129	9.813	9.815	-0.002	91	377032	175.0	178.4	
85 Ethylene Dibromide	107	9.929	9.930	-0.001	99	390862	175.0	166.2	
86 3-Chlorobenzotrifluoride	180	10.385	10.387	-0.002	92	686777	175.0	166.5	
87 Chlorobenzene	112	10.416	10.417	-0.001	91	1331912	175.0	161.2	
88 4-Chlorobenzotrifluoride	180	10.477	10.478	-0.001	96	642626	175.0	164.8	
89 1,1,1,2-Tetrachloroethane	131	10.507	10.508	-0.001	93	453483	175.0	168.4	
90 Ethylbenzene	106	10.513	10.514	-0.001	98	756322	175.0	172.7	
91 m-Xylene & p-Xylene	106	10.647	10.648	-0.001	0	934055	175.0	173.9	
92 o-Xylene	106	11.030	11.025	0.005	95	890574	175.0	174.5	
93 Styrene	104	11.048	11.050	-0.002	95	1460286	175.0	172.7	
94 Bromoform	173	11.231	11.232	-0.001	96	217546	175.0	180.4	
96 2-Chlorobenzotrifluoride	180	11.298	11.299	-0.001	95	670799	175.0	165.3	
97 Isopropylbenzene	105	11.395	11.396	-0.001	97	2113845	175.0	169.1	
100 Bromobenzene	156	11.712	11.707	0.005	95	543146	175.0	174.5	
99 1,1,2,2-Tetrachloroethane	83	11.705	11.707	-0.002	77	530728	175.0	161.2	
102 trans-1,4-Dichloro-2-buten	53	11.742	11.743	-0.001	78	209384	175.0	186.1	
101 1,2,3-Trichloropropane	110	11.760	11.762	-0.002	87	177490	175.0	172.9	
103 N-Propylbenzene	120	11.815	11.810	0.005	97	636587	175.0	178.7	
104 2-Chlorotoluene	126	11.900	11.901	-0.001	95	529736	175.0	174.9	
105 3-Chlorotoluene	126	11.967	11.968	-0.001	95	552058	175.0	177.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.997	11.993	0.004	95	1760059	175.0	174.8	
107 4-Chlorotoluene	126	12.022	12.023	-0.001	98	582109	175.0	174.7	
108 tert-Butylbenzene	119	12.308	12.309	-0.001	94	1486960	175.0	181.7	
110 1,2,4-Trimethylbenzene	105	12.369	12.370	-0.001	98	1772230	175.0	175.7	
111 1,2-dichloro-4-(trifluorom	214	12.411	12.412	-0.001	98	484133	175.0	172.2	
112 sec-Butylbenzene	105	12.533	12.534	-0.001	96	2029430	175.0	175.6	
113 1,3-Dichlorobenzene	146	12.648	12.650	-0.002	97	937539	175.0	169.2	
114 4-Isopropyltoluene	119	12.691	12.692	-0.001	96	1738859	175.0	177.9	
115 1,4-Dichlorobenzene	146	12.752	12.753	-0.001	93	949324	175.0	164.7	
116 2,4-Dichloro-1-(trifluorom	214	12.782	12.777	0.005	95	453275	175.0	174.0	
118 2,5-Dichlorobenzotrifluori	214	12.819	12.820	-0.001	0	486163	175.0	172.6	
120 n-Butylbenzene	91	13.099	13.100	-0.001	97	1504673	175.0	179.9	
121 1,2-Dichlorobenzene	146	13.111	13.112	-0.001	96	849612	175.0	164.0	
122 1,2-Dibromo-3-Chloropropan	75	13.902	13.897	0.005	79	75555	175.0	177.7	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.048	14.049	-0.001	0	1576122	525.0	532.8	
125 2,3- & 3,4- Dichlorotoluen	125	14.461	14.463	-0.002	0	994231	350.0	352.5	
126 1,2,4-Trichlorobenzene	180	14.723	14.724	-0.001	94	339446	175.0	168.4	
127 Hexachlorobutadiene	225	14.869	14.870	-0.001	97	160392	175.0	165.2	
128 Naphthalene	128	14.990	14.992	-0.002	98	934428	175.0	180.4	
129 1,2,3-Trichlorobenzene	180	15.216	15.217	-0.001	94	261711	175.0	160.4	
131 2,4,5-Trichlorotoluene	159	15.988	15.990	-0.002	0	100325	175.0	170.5	
130 2,3,6-Trichlorotoluene	159	16.092	16.093	-0.001	94	99793	175.0	185.2	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		350.0	348.4	
S 134 1,2-Dichloroethene, Total	96				0		350.0	337.9	
S 135 1,3-Dichloropropene, Total	1				0		350.0	371.9	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00040	Amount Added: 7.00	Units: uL	
VOA8260VOAPRI_00139	Amount Added: 7.00	Units: uL	
voaWEE1stRest_00001	Amount Added: 7.00	Units: uL	
voaWKet1 Rest_00001	Amount Added: 7.00	Units: uL	
VOAVAPRI_00006	Amount Added: 7.00	Units: uL	
VOAACROLEINPR_00006	Amount Added: 9.00	Units: uL	
VOA8260INT_00040	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826012.D

Injection Date: 26-Aug-2015 17:04:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: IC VSTD35

Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL

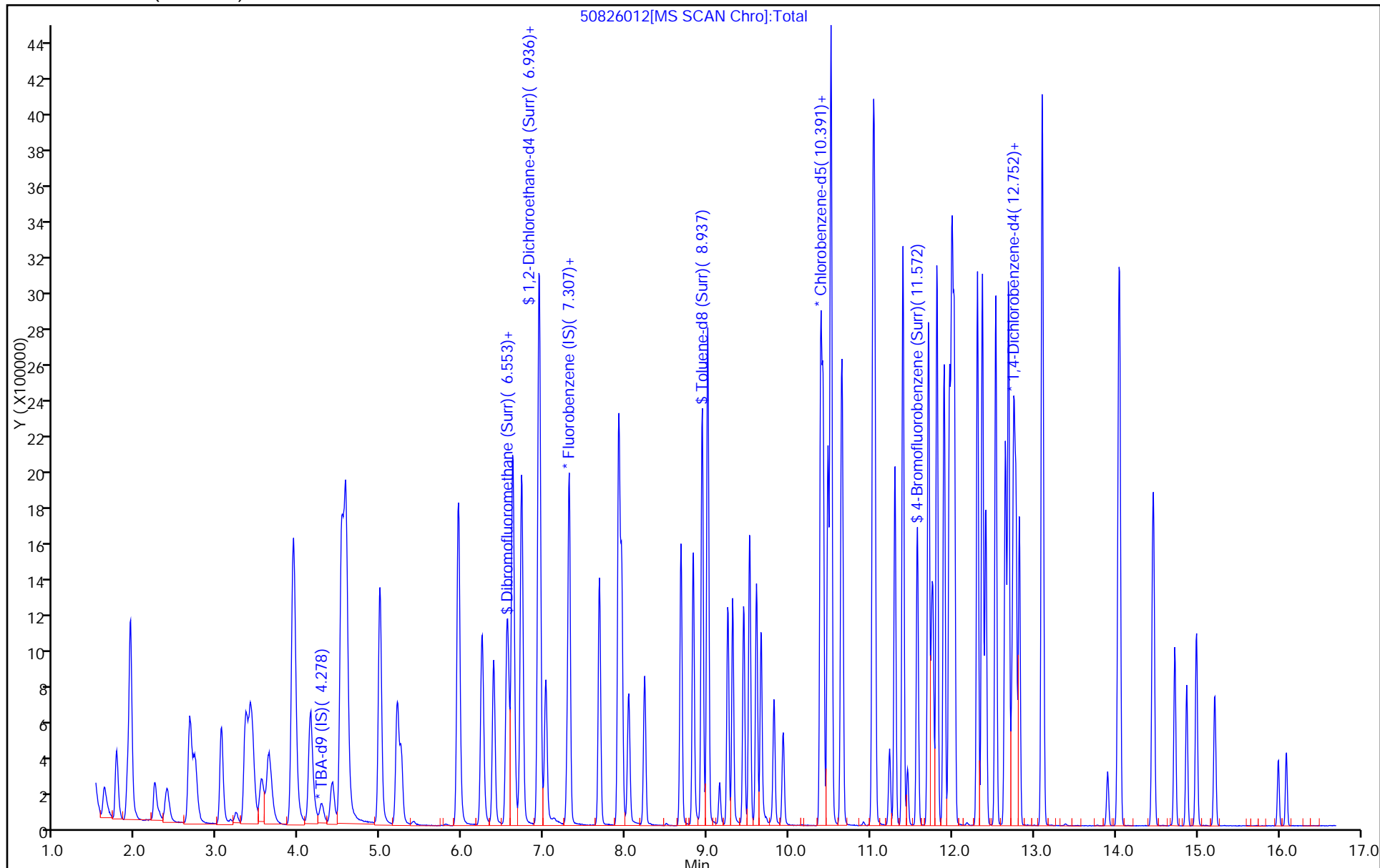
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



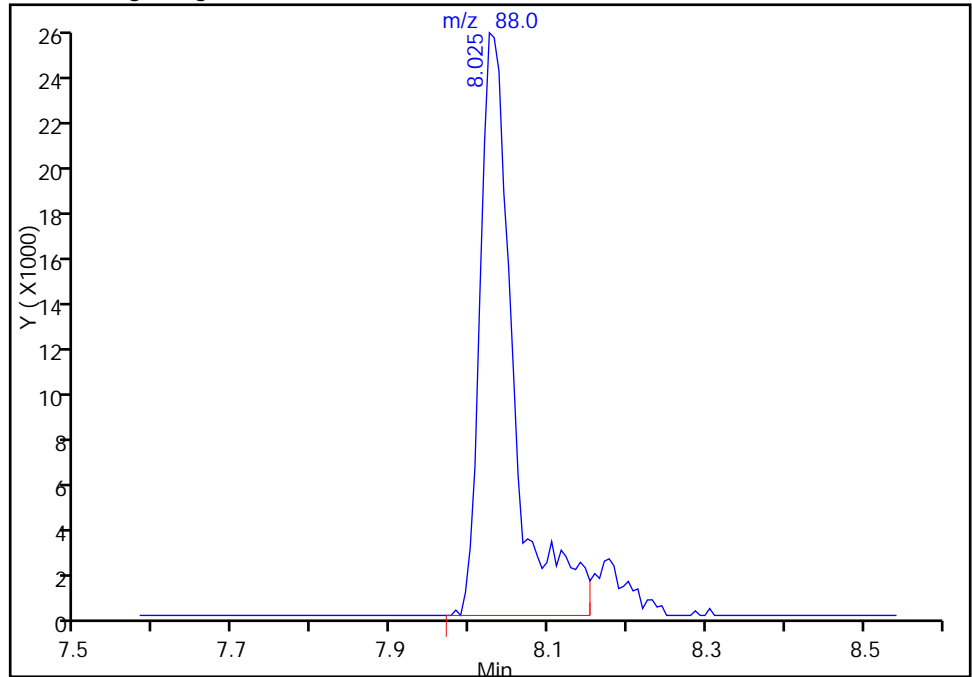
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826012.D
Injection Date: 26-Aug-2015 17:04:30 Instrument ID: CHHP5
Lims ID: IC VSTD35
Client ID:
Operator ID: 001562 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

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

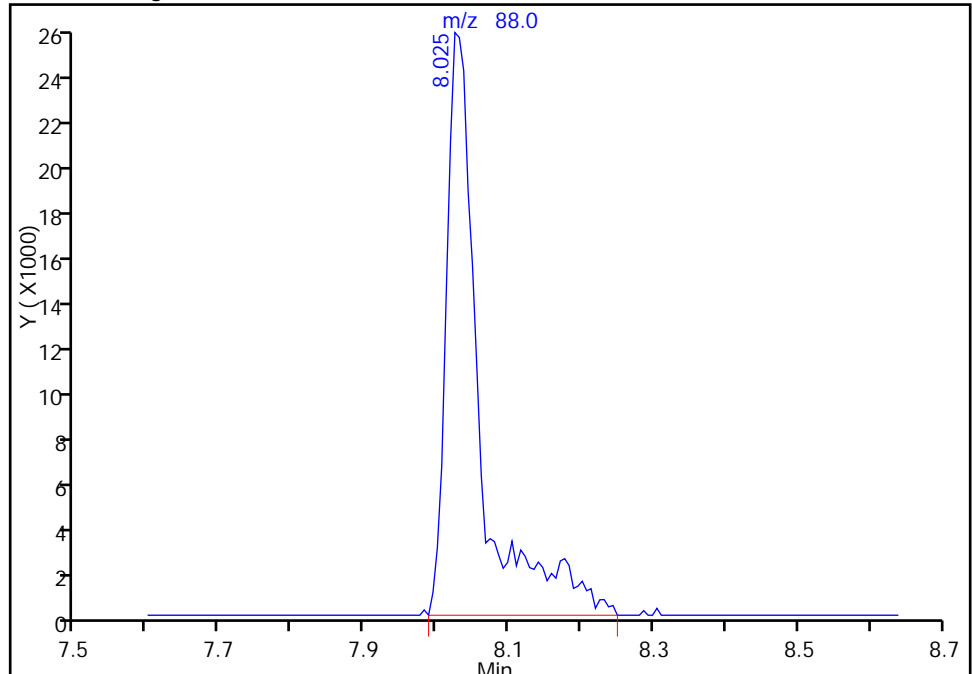
RT: 8.02
Area: 75762
Amount: 3419.0350
Amount Units: ng

Processing Integration Results



RT: 8.02
Area: 82622
Amount: 3687.8427
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 27-Aug-2015 10:34:42
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826013.D
 Lims ID: IC VSTD40
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 26-Aug-2015 17:28:30 ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD40
 Misc. Info.: 180-0008300-013
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub4
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 27-Aug-2015 11:50:23 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK048

First Level Reviewer: fergusond

Date: 27-Aug-2015 10:38:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.274	4.267	0.007	0	190633	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.285	7.290	-0.005	98	491948	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.388	10.387	0.001	59	135336	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.730	12.729	0.001	94	186041	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.562	6.560	0.002	94	438908	200.0	181.7	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.933	6.931	0.002	0	597233	200.0	180.0	
\$ 7 Toluene-d8 (Surr)	98	8.934	8.939	-0.005	94	1727014	200.0	165.4	
\$ 8 4-Bromofluorobenzene (Surr	95	11.568	11.573	-0.005	86	697446	200.0	177.1	
11 Dichlorodifluoromethane	85	1.616	1.614	0.002	98	506611	200.0	182.3	
12 Chloromethane	50	1.762	1.766	-0.004	99	733518	200.0	179.7	
13 Vinyl chloride	62	1.902	1.894	0.008	98	663498	200.0	183.3	
14 Butadiene	39	1.938	1.937	0.001	95	762590	200.0	178.4	
15 Bromomethane	94	2.230	2.247	-0.017	91	244127	200.0	165.7	
16 Chloroethane	64	2.382	2.387	-0.005	99	395735	200.0	181.2	
17 Dichlorofluoromethane	67	2.662	2.661	0.001	98	843233	200.0	182.0	
18 Trichlorofluoromethane	101	2.711	2.667	0.044	98	636269	200.0	183.6	
20 Ethyl ether	59	3.045	3.050	-0.005	97	582513	200.0	181.3	
21 Acrolein	56	3.228	3.232	-0.004	99	117496	250.0	245.5	
22 1,1-Dichloroethene	96	3.343	3.348	-0.005	94	516257	200.0	188.4	
23 1,1,2-Trichloro-1,2,2-trif	101	3.410	3.403	0.007	93	532678	200.0	183.5	
24 Acetone	43	3.435	3.445	-0.010	99	349354	400.0	351.9	
25 Iodomethane	142	3.538	3.543	-0.005	98	765249	200.0	187.4	
26 Carbon disulfide	76	3.629	3.628	0.001	100	1297173	200.0	203.9	
28 3-Chloro-1-propene	76	3.921	3.920	0.001	89	325399	200.0	209.7	
30 Methyl acetate	43	3.940	3.938	0.002	99	2811173	1000.0	947.8	
31 Methylene Chloride	84	4.134	4.139	-0.005	97	573290	200.0	194.0	
32 2-Methyl-2-propanol	59	4.408	4.407	0.001	90	410928	2000.0	1915.2	
33 Acrylonitrile	53	4.517	4.522	-0.005	98	2730347	2000.0	1897.2	
34 trans-1,2-Dichloroethene	96	4.560	4.565	-0.005	95	552053	200.0	185.6	
35 Methyl tert-butyl ether	73	4.578	4.577	0.001	97	1367672	200.0	198.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.986	4.997	-0.011	97	948868	200.0	190.0	
37 1,1-Dichloroethane	63	5.199	5.204	-0.005	97	1104940	200.0	188.5	
38 Vinyl acetate	43	5.247	5.252	-0.005	97	887283	200.0	201.8	
45 cis-1,2-Dichloroethene	96	5.947	5.952	-0.005	84	600559	200.0	188.9	
44 2,2-Dichloropropane	77	5.947	5.952	-0.005	84	451339	200.0	192.2	
46 2-Butanone (MEK)	43	5.953	5.964	-0.011	90	569128	400.0	381.6	
49 Chlorobromomethane	128	6.239	6.238	0.001	92	262832	200.0	188.3	
51 Tetrahydrofuran	42	6.245	6.250	-0.005	95	461621	400.0	385.8	
52 Chloroform	83	6.379	6.384	-0.005	95	922240	200.0	182.1	
53 1,1,1-Trichloroethane	97	6.543	6.542	0.001	96	710348	200.0	189.7	
54 Cyclohexane	56	6.610	6.615	-0.005	96	1210903	200.0	193.3	
56 Carbon tetrachloride	117	6.714	6.718	-0.004	95	616016	200.0	193.2	
55 1,1-Dichloropropene	75	6.726	6.730	-0.004	93	785333	200.0	189.7	
57 Isobutyl alcohol	41	6.927	6.925	0.002	94	492768	5000.0	5259.9	
58 Benzene	78	6.939	6.943	-0.004	98	2197241	200.0	181.1	
59 1,2-Dichloroethane	62	7.018	7.022	-0.004	96	788760	200.0	188.0	
62 n-Heptane	43	7.310	7.308	0.002	96	859948	200.0	189.6	
64 Trichloroethene	130	7.675	7.679	-0.004	96	556980	200.0	187.7	
66 Methylcyclohexane	83	7.912	7.917	-0.005	96	937977	200.0	200.6	
67 1,2-Dichloropropane	63	7.949	7.947	0.002	94	594824	200.0	186.9	
70 1,4-Dioxane	88	8.034	8.026	0.008	41	91547	4000.0	4171.8	
68 Dibromomethane	93	8.034	8.038	-0.004	97	307857	200.0	190.6	
71 Dichlorobromomethane	83	8.228	8.233	-0.005	98	644471	200.0	201.6	
74 cis-1,3-Dichloropropene	75	8.672	8.677	-0.005	91	812298	200.0	216.9	
75 4-Methyl-2-pentanone (MIBK)	43	8.825	8.829	-0.004	98	1320471	400.0	396.0	
76 Toluene	91	9.001	9.006	-0.005	97	2228576	200.0	166.3	
77 trans-1,3-Dichloropropene	75	9.250	9.249	0.001	98	704918	200.0	201.6	
78 Ethyl methacrylate	69	9.311	9.310	0.001	94	687101	200.0	203.2	
79 1,1,2-Trichloroethane	97	9.445	9.444	0.001	94	441190	200.0	173.1	
80 Tetrachloroethene	164	9.518	9.517	0.001	95	438898	200.0	168.8	
81 1,3-Dichloropropane	76	9.603	9.602	0.001	98	840507	200.0	177.6	
82 2-Hexanone	43	9.658	9.657	0.001	98	943138	400.0	391.8	
84 Chlorodibromomethane	129	9.816	9.815	0.001	91	427847	200.0	193.9	
85 Ethylene Dibromide	107	9.926	9.930	-0.004	98	449617	200.0	183.1	
86 3-Chlorobenzotrifluoride	180	10.388	10.387	0.001	93	749898	200.0	174.2	
87 Chlorobenzene	112	10.412	10.417	-0.005	92	1491257	200.0	172.9	
88 4-Chlorobenzotrifluoride	180	10.473	10.478	-0.005	96	709487	200.0	174.3	
89 1,1,1,2-Tetrachloroethane	131	10.510	10.508	0.002	94	513686	200.0	182.7	
90 Ethylbenzene	106	10.516	10.514	0.002	98	837593	200.0	183.2	
91 m-Xylene & p-Xylene	106	10.650	10.648	0.002	0	1021032	200.0	182.1	
92 o-Xylene	106	11.027	11.025	0.002	97	984811	200.0	184.8	
93 Styrene	104	11.051	11.050	0.001	94	1627751	200.0	184.4	
94 Bromoform	173	11.234	11.232	0.002	96	254607	200.0	202.2	
96 2-Chlorobenzotrifluoride	180	11.294	11.299	-0.005	95	748529	200.0	176.7	
97 Isopropylbenzene	105	11.392	11.396	-0.004	97	2317406	200.0	177.6	
100 Bromobenzene	156	11.708	11.707	0.001	95	609774	200.0	190.9	
99 1,1,2,2-Tetrachloroethane	83	11.708	11.707	0.001	78	605346	200.0	176.1	
102 trans-1,4-Dichloro-2-buten	53	11.745	11.743	0.002	43	238659	200.0	206.7	
101 1,2,3-Trichloropropane	110	11.763	11.762	0.001	86	200908	200.0	190.7	
103 N-Propylbenzene	120	11.812	11.810	0.002	97	717909	200.0	196.4	
104 2-Chlorotoluene	126	11.897	11.901	-0.004	96	608876	200.0	195.9	
105 3-Chlorotoluene	126	11.964	11.968	-0.004	95	621607	200.0	194.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.994	11.993	0.001	95	1952122	200.0	189.0	
107 4-Chlorotoluene	126	12.024	12.023	0.001	98	649501	200.0	189.9	
108 tert-Butylbenzene	119	12.310	12.309	0.001	94	1642231	200.0	195.6	
110 1,2,4-Trimethylbenzene	105	12.365	12.370	-0.005	98	1973541	200.0	190.7	
111 1,2-dichloro-4-(trifluorom	214	12.408	12.412	-0.004	97	529814	200.0	183.6	
112 sec-Butylbenzene	105	12.529	12.534	-0.005	96	2244027	200.0	189.3	
113 1,3-Dichlorobenzene	146	12.651	12.650	0.001	96	1071203	200.0	188.4	
114 4-Isopropyltoluene	119	12.688	12.692	-0.004	97	1944911	200.0	193.9	
115 1,4-Dichlorobenzene	146	12.754	12.753	0.001	94	1084086	200.0	183.3	
116 2,4-Dichloro-1-(trifluorom	214	12.779	12.777	0.002	95	483618	200.0	180.9	
118 2,5-Dichlorobenzotrifluori	214	12.821	12.820	0.001	0	571654	200.0	197.9	
120 n-Butylbenzene	91	13.095	13.100	-0.005	98	1691227	200.0	197.0	
121 1,2-Dichlorobenzene	146	13.107	13.112	-0.005	94	988861	200.0	186.1	
122 1,2-Dibromo-3-Chloropropan	75	13.904	13.897	0.007	78	91242	200.0	209.1	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.044	14.049	-0.005	0	1875036	600.0	617.8	
125 2,3- & 3,4- Dichlorotoluen	125	14.458	14.463	-0.005	0	1204899	400.0	416.3	
126 1,2,4-Trichlorobenzene	180	14.726	14.724	0.002	94	424061	200.0	205.1	
127 Hexachlorobutadiene	225	14.872	14.870	0.002	97	188644	200.0	189.4	
128 Naphthalene	128	14.987	14.992	-0.005	98	1180622	200.0	222.2	
129 1,2,3-Trichlorobenzene	180	15.212	15.217	-0.005	95	333363	200.0	199.2	
131 2,4,5-Trichlorotoluene	159	15.991	15.990	0.001	0	135933	200.0	225.1	
130 2,3,6-Trichlorotoluene	159	16.088	16.093	-0.005	95	131306	200.0	242.0	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
S 134 1,2-Dichloroethene, Total	96				0		400.0	374.5	
S 133 Xylenes, Total	106				0		400.0	366.9	
S 135 1,3-Dichloropropene, Total	1				0		400.0	418.5	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOAACROLEINPR_00006	Amount Added: 10.00	Units: uL	
VOAVAPRI_00006	Amount Added: 8.00	Units: uL	
voaWKet1 Rest_00001	Amount Added: 8.00	Units: uL	
voaWEE1stRest_00001	Amount Added: 8.00	Units: uL	
VOA8260VOAPRI_00139	Amount Added: 8.00	Units: uL	
VOA8260SURR_00040	Amount Added: 8.00	Units: uL	
VOA8260INT_00040	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826013.D

Injection Date: 26-Aug-2015 17:28:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: IC VSTD40

Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL

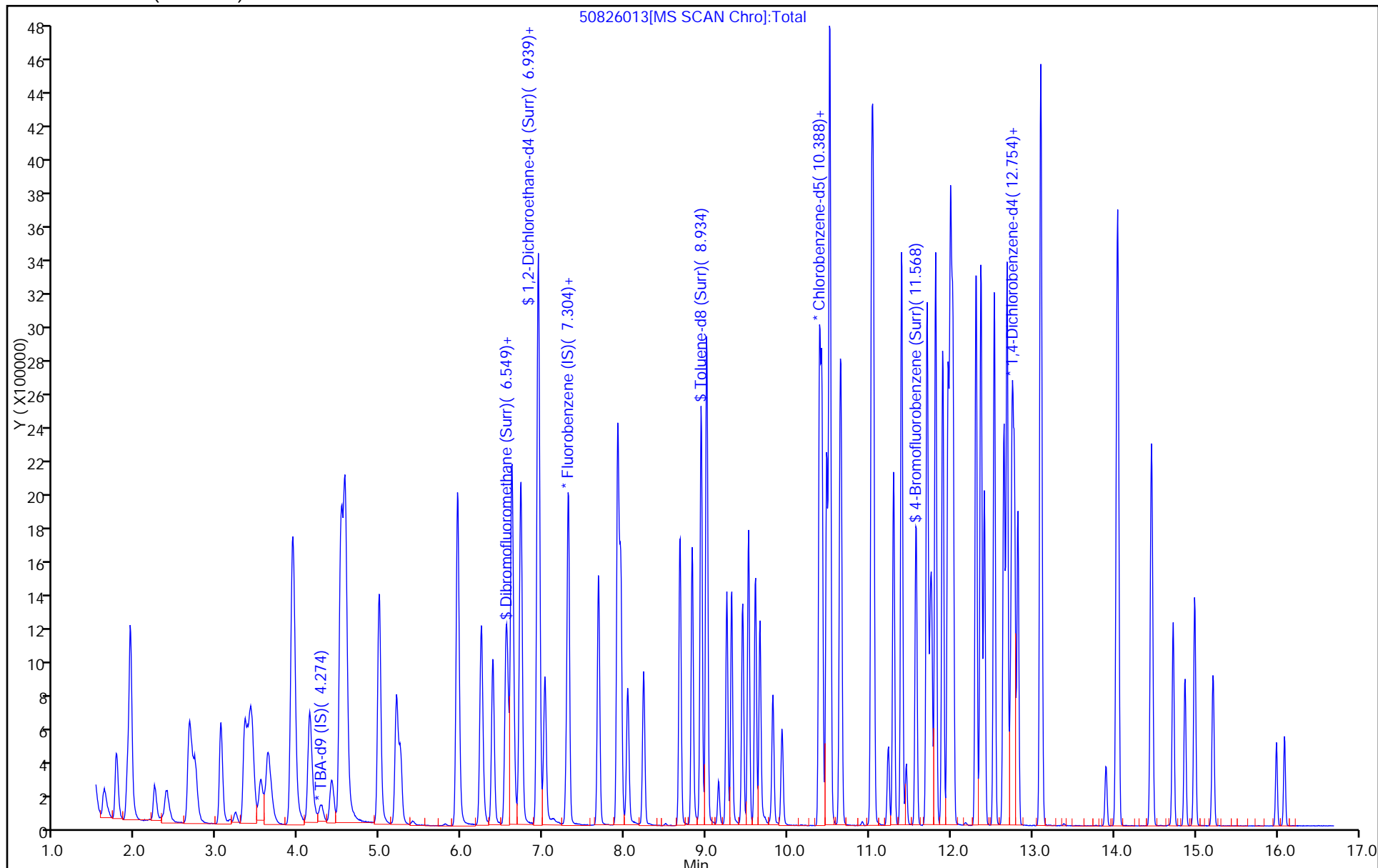
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Lims ID: IC VSTD50
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 26-Aug-2015 17:52:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD50
 Misc. Info.: 180-0008300-014
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub4
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 27-Aug-2015 11:50:43 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK048

First Level Reviewer: fergusond

Date: 27-Aug-2015 10:43:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.271	4.267	0.004	0	178553	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.290	-0.001	98	422908	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.385	10.387	-0.002	56	117789	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.728	12.729	-0.001	92	156354	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.559	6.560	-0.001	93	562879	250.0	271.0	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.936	6.931	0.005	0	751925	250.0	263.6	
\$ 7 Toluene-d8 (Surr)	98	8.938	8.939	-0.001	94	2103482	250.0	231.5	
\$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.573	-0.001	86	854277	250.0	249.2	
11 Dichlorodifluoromethane	85	1.619	1.614	0.005	99	585297	250.0	245.0	
12 Chloromethane	50	1.765	1.766	-0.001	99	886889	250.0	252.8	
13 Vinyl chloride	62	1.905	1.894	0.011	99	782206	250.0	251.3	
14 Butadiene	39	1.935	1.937	-0.002	96	893578	250.0	243.1	
15 Bromomethane	94	2.234	2.247	-0.013	90	333317	250.0	263.2	
16 Chloroethane	64	2.380	2.387	-0.007	99	465079	250.0	247.7	
17 Dichlorofluoromethane	67	2.665	2.661	0.004	98	986298	250.0	247.6	
18 Trichlorofluoromethane	101	2.702	2.667	0.035	96	739174	250.0	248.1	M
20 Ethyl ether	59	3.043	3.050	-0.007	97	750491	250.0	271.8	
21 Acrolein	56	3.225	3.232	-0.007	99	127965	275.0	311.1	
22 1,1-Dichloroethene	96	3.341	3.348	-0.007	95	627614	250.0	266.5	
23 1,1,2-Trichloro-1,2,2-trif	101	3.408	3.403	0.005	93	629046	250.0	252.1	
24 Acetone	43	3.438	3.445	-0.007	99	457819	500.0	536.5	
25 Iodomethane	142	3.535	3.543	-0.008	99	963985	250.0	274.6	
26 Carbon disulfide	76	3.627	3.628	-0.001	100	1607306	250.0	293.9	
28 3-Chloro-1-propene	76	3.913	3.920	-0.007	89	399041	250.0	299.1	
30 Methyl acetate	43	3.937	3.938	-0.001	98	3450277	1250.0	1353.2	
31 Methylene Chloride	84	4.132	4.139	-0.007	98	715184	250.0	284.3	
32 2-Methyl-2-propanol	59	4.405	4.407	-0.002	91	514360	2500.0	2559.4	
33 Acrylonitrile	53	4.521	4.522	-0.001	97	3337347	2500.0	2697.5	
34 trans-1,2-Dichloroethene	96	4.563	4.565	-0.002	95	687878	250.0	269.0	
35 Methyl tert-butyl ether	73	4.576	4.577	-0.001	98	1750025	250.0	295.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.989	4.997	-0.008	97	1125958	250.0	262.3	
37 1,1-Dichloroethane	63	5.202	5.204	-0.002	96	1377944	250.0	273.5	
38 Vinyl acetate	43	5.245	5.252	-0.007	97	1072494	250.0	283.7	
45 cis-1,2-Dichloroethene	96	5.951	5.952	-0.001	85	760457	250.0	278.3	
44 2,2-Dichloropropane	77	5.944	5.952	-0.008	84	564524	250.0	279.6	
46 2-Butanone (MEK)	43	5.957	5.964	-0.007	99	698551	500.0	544.9	
49 Chlorobromomethane	128	6.236	6.238	-0.002	92	336595	250.0	280.6	
51 Tetrahydrofuran	42	6.249	6.250	-0.001	93	561739	500.0	546.2	
52 Chloroform	83	6.382	6.384	-0.002	96	1166838	250.0	268.1	
53 1,1,1-Trichloroethane	97	6.541	6.542	-0.001	97	898258	250.0	279.1	
54 Cyclohexane	56	6.614	6.615	-0.001	96	1451032	250.0	269.4	
56 Carbon tetrachloride	117	6.711	6.718	-0.007	95	764597	250.0	279.0	
55 1,1-Dichloropropene	75	6.729	6.730	-0.001	91	975802	250.0	274.2	
57 Isobutyl alcohol	41	6.924	6.925	-0.001	94	588608	6250.0	7308.6	
58 Benzene	78	6.942	6.943	-0.001	99	2707324	250.0	259.6	
59 1,2-Dichloroethane	62	7.021	7.022	-0.001	96	987010	250.0	273.7	
62 n-Heptane	43	7.307	7.308	-0.001	96	1040377	250.0	266.8	
64 Trichloroethene	130	7.678	7.679	-0.001	97	693909	250.0	272.0	
66 Methylcyclohexane	83	7.915	7.917	-0.002	95	1114866	250.0	277.3	
67 1,2-Dichloropropane	63	7.946	7.947	-0.001	94	765352	250.0	279.7	
70 1,4-Dioxane	88	8.031	8.026	0.005	42	111802	5000.0	5926.6	
68 Dibromomethane	93	8.037	8.038	-0.001	97	386058	250.0	278.0	
71 Dichlorobromomethane	83	8.232	8.233	-0.001	98	812136	250.0	295.5	
74 cis-1,3-Dichloropropene	75	8.676	8.677	-0.001	91	1033255	250.0	320.9	
75 4-Methyl-2-pentanone (MIBK)	43	8.828	8.829	-0.001	98	1599371	500.0	551.1	
76 Toluene	91	9.004	9.006	-0.002	96	2681762	250.0	230.0	
77 trans-1,3-Dichloropropene	75	9.248	9.249	-0.001	99	891401	250.0	292.9	
78 Ethyl methacrylate	69	9.309	9.310	-0.001	94	862044	250.0	292.9	
79 1,1,2-Trichloroethane	97	9.442	9.444	-0.002	94	557982	250.0	251.6	
80 Tetrachloroethene	164	9.515	9.517	-0.002	94	530215	250.0	234.2	
81 1,3-Dichloropropane	76	9.601	9.602	-0.001	98	1030200	250.0	250.2	
82 2-Hexanone	43	9.655	9.657	-0.002	98	1123041	500.0	536.1	
84 Chlorodibromomethane	129	9.814	9.815	-0.001	91	542940	250.0	282.7	
85 Ethylene Dibromide	107	9.929	9.930	-0.001	98	553588	250.0	259.0	
86 3-Chlorobenzotrifluoride	180	10.391	10.387	0.004	92	813323	250.0	217.0	
87 Chlorobenzene	112	10.416	10.417	-0.001	91	1793475	250.0	238.9	
88 4-Chlorobenzotrifluoride	180	10.477	10.478	-0.001	96	781989	250.0	220.7	
89 1,1,1,2-Tetrachloroethane	131	10.507	10.508	-0.001	93	642159	250.0	262.4	
90 Ethylbenzene	106	10.519	10.514	0.005	97	1001210	250.0	251.5	
91 m-Xylene & p-Xylene	106	10.647	10.648	-0.001	0	1238884	250.0	253.8	
92 o-Xylene	106	11.030	11.025	0.005	97	1203666	250.0	259.5	
93 Styrene	104	11.048	11.050	-0.002	94	1948876	250.0	253.6	
94 Bromoform	173	11.231	11.232	-0.001	95	317730	250.0	289.9	
96 2-Chlorobenzotrifluoride	180	11.298	11.299	-0.001	94	809757	250.0	219.6	
97 Isopropylbenzene	105	11.395	11.396	-0.001	98	2727755	250.0	240.1	
100 Bromobenzene	156	11.705	11.707	-0.002	95	743219	250.0	276.9	
99 1,1,2,2-Tetrachloroethane	83	11.705	11.707	-0.002	77	725938	250.0	242.6	
102 trans-1,4-Dichloro-2-buten	53	11.742	11.743	-0.001	77	290130	250.0	299.0	
101 1,2,3-Trichloropropane	110	11.766	11.762	0.004	87	246872	250.0	278.9	
103 N-Propylbenzene	120	11.809	11.810	-0.001	97	850210	250.0	276.7	
104 2-Chlorotoluene	126	11.900	11.901	-0.001	95	726063	250.0	278.0	
105 3-Chlorotoluene	126	11.967	11.968	-0.001	95	702342	250.0	261.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.997	11.993	0.004	95	2264532	250.0	260.9	
107 4-Chlorotoluene	126	12.022	12.023	-0.001	98	778860	250.0	271.0	
108 tert-Butylbenzene	119	12.308	12.309	-0.001	94	1938716	250.0	274.7	
110 1,2,4-Trimethylbenzene	105	12.369	12.370	-0.001	98	2303042	250.0	264.8	
111 1,2-dichloro-4-(trifluorom	214	12.411	12.412	-0.001	97	580120	250.0	239.2	
112 sec-Butylbenzene	105	12.533	12.534	-0.001	96	2563359	250.0	257.3	
113 1,3-Dichlorobenzene	146	12.648	12.650	-0.002	96	1263925	250.0	264.5	
114 4-Isopropyltoluene	119	12.691	12.692	-0.001	95	2238219	250.0	265.5	
115 1,4-Dichlorobenzene	146	12.758	12.753	0.005	91	1287906	250.0	259.1	
116 2,4-Dichloro-1-(trifluorom	214	12.782	12.777	0.005	96	531698	250.0	236.7	
118 2,5-Dichlorobenzotrifluori	214	12.819	12.820	-0.001	0	585601	250.0	241.2	
120 n-Butylbenzene	91	13.099	13.100	-0.001	96	1909580	250.0	264.7	
121 1,2-Dichlorobenzene	146	13.111	13.112	-0.001	94	1135542	250.0	254.3	
122 1,2-Dibromo-3-Chloropropan	75	13.902	13.897	0.005	92	105625	250.0	288.0	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.048	14.049	-0.001	0	1891413	750.0	741.5	
125 2,3- & 3,4- Dichlorotoluen	125	14.461	14.463	-0.002	0	1220209	500.0	501.7	
126 1,2,4-Trichlorobenzene	180	14.723	14.724	-0.001	94	445017	250.0	256.1	
127 Hexachlorobutadiene	225	14.869	14.870	-0.001	98	196056	250.0	234.2	
128 Naphthalene	128	14.991	14.992	-0.001	98	1235965	250.0	276.7	
129 1,2,3-Trichlorobenzene	180	15.216	15.217	-0.001	94	351787	250.0	250.1	
131 2,4,5-Trichlorotoluene	159	15.994	15.990	0.004	0	136778	250.0	269.5	
130 2,3,6-Trichlorotoluene	159	16.092	16.093	-0.001	96	133555	250.0	291.3	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		500.0	513.3	
S 134 1,2-Dichloroethene, Total	96				0		500.0	547.3	
S 135 1,3-Dichloropropene, Total	1				0		500.0	613.8	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00040	Amount Added: 10.00	Units: uL	
VOA8260VOAPRI_00139	Amount Added: 10.00	Units: uL	
voaWEE1stRest_00001	Amount Added: 10.00	Units: uL	
voaWKet1 Rest_00001	Amount Added: 10.00	Units: uL	
VOAVAPRI_00006	Amount Added: 10.00	Units: uL	
VOAACROLEINPR_00006	Amount Added: 11.00	Units: uL	
VOA8260INT_00040	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Injection Date: 26-Aug-2015 17:52:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: IC VSTD50

Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL

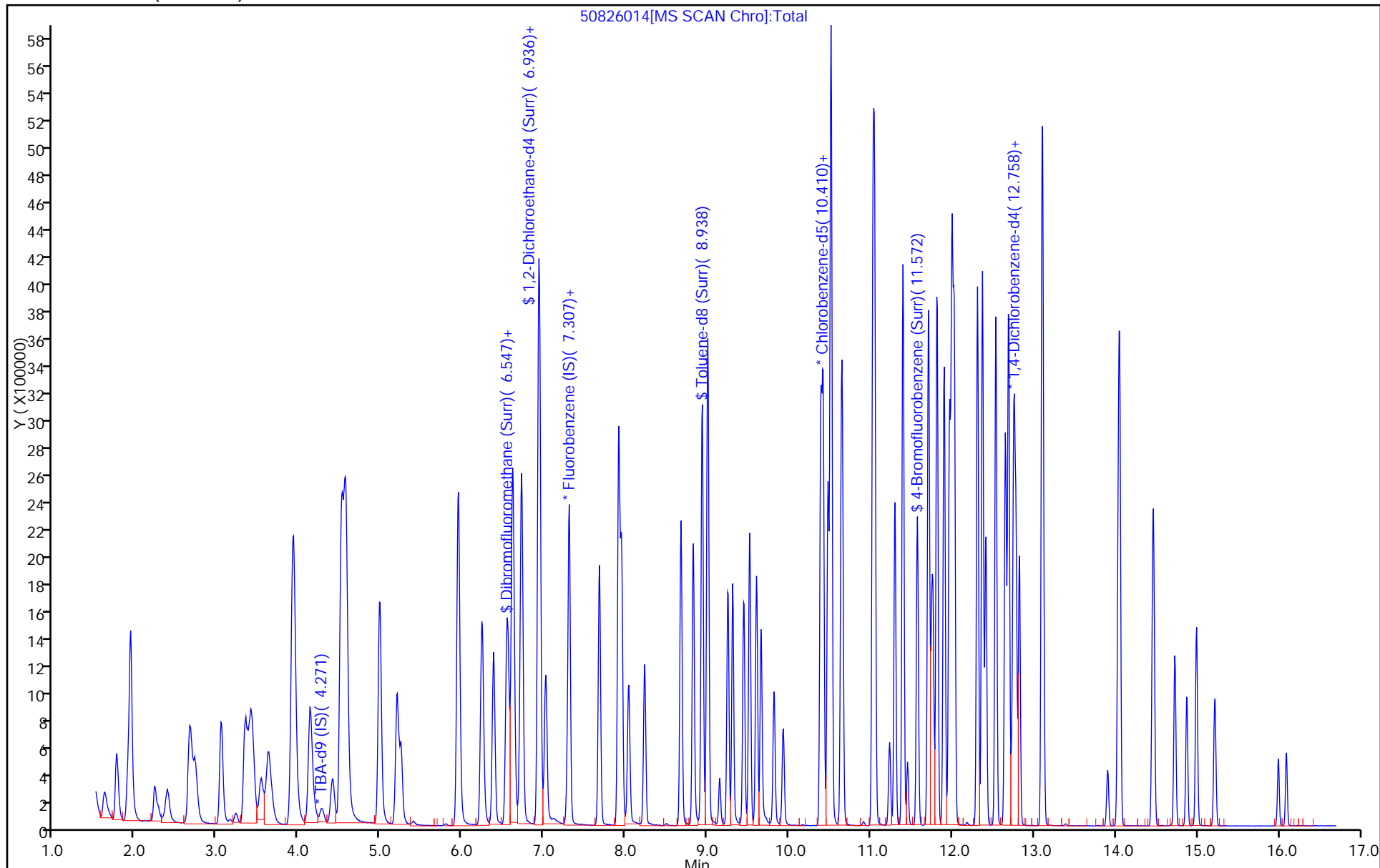
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



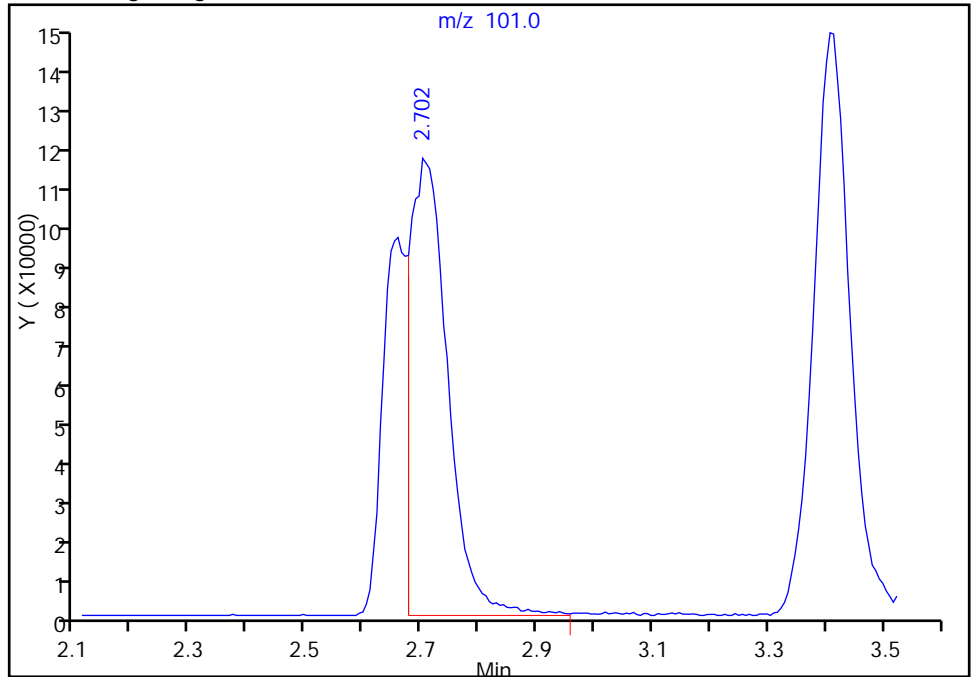
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
Injection Date: 26-Aug-2015 17:52:30 Instrument ID: CHHP5
Lims ID: IC VSTD50
Client ID:
Operator ID: 001562 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

18 Trichlorofluoromethane, CAS: 75-69-4

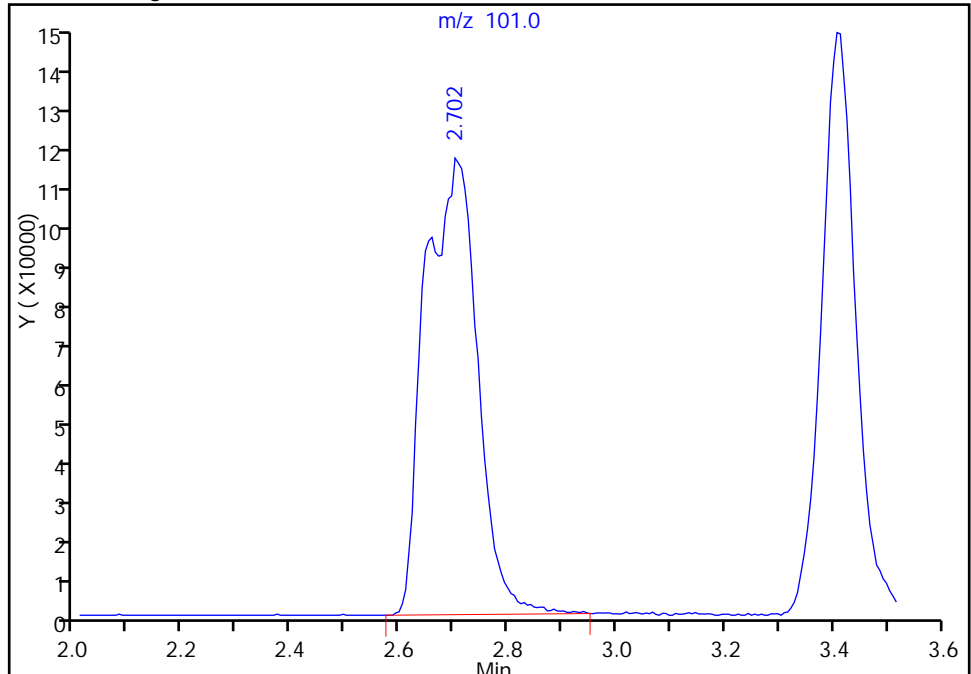
RT: 2.70
Area: 496107
Amount: 173.5779
Amount Units: ng

Processing Integration Results



RT: 2.70
Area: 739174
Amount: 248.0735
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 27-Aug-2015 10:43:05
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1 Analy Batch No.: 149469

SDG No.: _____

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

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-149469/14	60731014.D
Level 2	IC 180-149469/4	60731004.D
Level 3	ICIS 180-149469/5	60731005.D
Level 4	IC 180-149469/6	60731006.D
Level 5	IC 180-149469/7	60731007.D
Level 6	IC 180-149469/8	60731008.D
Level 7	IC 180-149469/9	60731009.D
Level 8	IC 180-149469/10	60731010.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	0.3784 0.3460	0.3285 0.3562	0.3421 0.3286	0.3615	0.3285	Ave		0.3462			0.1000	5.3	20.0				
Chloromethane	0.3392 0.2834	0.3040 0.2926	0.3038 0.2799	0.2953	0.2891	Ave		0.2984			0.1000	6.2	20.0				
Vinyl chloride	0.3459 0.3113	0.3263 0.3277	0.3180 0.3087	0.3307	0.3028	Ave		0.3214			0.1000	4.4	20.0				
1,3-Butadiene	0.3349 0.2908	0.3110 0.3014	0.3020 0.2828	0.3029	0.2847	Ave		0.3013			0.0100	5.5	20.0				
Bromomethane	0.2086 0.1495	0.1854 0.1475	0.1846 +++++	0.1749	0.1644	Ave		0.1735			0.0500	12.5	20.0				
Chloroethane	0.2173 0.2164	0.2251 0.2256	0.2291 0.2095	0.2259	0.2061	Ave		0.2194			0.0500	3.8	20.0				
Dichlorofluoromethane	0.5463 0.4931	0.5444 0.5038	0.5165 0.4737	0.5267	0.4802	Ave		0.5106			0.0100	5.4	20.0				
Trichlorofluoromethane	0.4247 0.4001	0.4150 0.4067	0.4245 0.3867	0.4197	0.3805	Ave		0.4072			0.1000	4.2	20.0				
Ethyl ether	0.3195 0.2756	0.2914 0.2931	0.2819 0.2818	0.2864	0.2793	Ave		0.2886			0.0100	4.8	20.0				
Acrolein	0.0310 0.0318	0.0309 0.0342	0.0297 0.0340	0.0320	0.0281	Ave		0.0315			0.0100	6.5	20.0				
1,1-Dichloroethene	0.2600 0.2474	0.2411 0.2670	0.2447 0.2555	0.2551	0.2426	Ave		0.2517			0.1000	3.7	20.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2893 0.2688	0.2611 0.2694	0.2602 0.2595	0.2670	0.2502	Ave		0.2657			0.1000	4.3	20.0				
Acetone	0.0973 0.0856	0.0931 0.0888	0.0785 0.0945	0.0834	0.0864	Ave		0.0885			0.0500	7.1	20.0				
Iodomethane	0.3086 0.3409	0.3325 0.3671	0.3285 0.3511	0.3438	0.3304	Ave		0.3379			0.0100	5.1	20.0				

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

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

Lab Name: TestAmerica Pittsburgh

Job No.: 180-48181-1

Analy Batch No.: 149469

SDG No.: _____

Instrument ID: CHHP6

GC Column: DB-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2015 14:00

Calibration End Date: 07/31/2015 18:02

Calibration ID: 24897

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	LVL 5													
Carbon disulfide	0.5727 0.6930	0.5928 0.7451	0.6074 0.7142	0.6519	0.6407	Ave		0.6522			0.1000	9.4	20.0				
Allyl chloride	0.1218 0.1547	0.1181 0.1646	0.1364 0.1606	0.1388	0.1402	Ave		0.1419			0.0100	12.0	20.0				
Methyl acetate	0.2192 0.2022	0.2017 0.2144	0.2047 0.2065	0.2072	0.2036	Ave		0.2074			0.1000	3.0	20.0				
Methylene Chloride	0.6631 0.3174	0.3874 0.3424	0.3361 0.3218	0.3366	0.3254	Lin2	1.7443	0.3138			0.1000			0.9990		0.9900	
tert-Butyl alcohol	1.2140 1.0554	1.0995 1.1213	1.1428 1.0861	1.1107	1.1728	Ave		1.1253			0.0100	4.5	20.0				
Acrylonitrile	0.1067 0.1050	0.1002 0.1099	0.1033 0.1041	0.1042	0.1030	Ave		0.1046			0.0100	2.7	20.0				
trans-1,2-Dichloroethene	0.2889 0.2884	0.2883 0.3069	0.2879 0.2909	0.2950	0.2774	Ave		0.2905			0.1000	2.9	20.0				
Methyl tert-butyl ether	0.8998 0.8761	0.8047 0.9451	0.8127 0.8903	0.8782	0.8559	Ave		0.8703			0.1000	5.3	20.0				
Hexane	0.4211 0.4030	0.3676 0.4125	0.3850 0.3998	0.3938	0.3659	Ave		0.3936			0.0100	5.0	20.0				
1,1-Dichloroethane	0.5075 0.5187	0.5138 0.5491	0.5187 0.5191	0.5246	0.5085	Ave		0.5200			0.2000	2.5	20.0				
Vinyl acetate	0.3814 0.4481	0.3469 0.4857	0.3831 0.4671	0.4180	0.4276	Ave		0.4197			0.0100	11.2	20.0				
2,2-Dichloropropane	0.2106 0.2916	0.2324 0.2998	0.2516 0.2938	0.2636	0.2601	Ave		0.2629			0.0100	12.0	20.0				
cis-1,2-Dichloroethene	0.3288 0.3134	0.2997 0.3336	0.3121 0.3178	0.3154	0.3061	Ave		0.3158			0.1000	3.5	20.0				
2-Butanone (MEK)	0.1157 0.1241	0.1112 0.1317	0.1112 0.1244	0.1274	0.1201	Ave		0.1207			0.0500	6.2	20.0				
Bromochloromethane	0.1341 0.1264	0.1227 0.1349	0.1194 0.1303	0.1248	0.1226	Ave		0.1269			0.0100	4.5	20.0				
Tetrahydrofuran	0.0899 0.0835	0.0679 0.0856	0.0729 0.0875	0.0830	0.0802	Ave		0.0813			0.0100	9.2	20.0				
Chloroform	0.5240 0.5101	0.5110 0.5372	0.5156 0.5057	0.5231	0.5023	Ave		0.5161			0.2000	2.2	20.0				
1,1,1-Trichloroethane	0.3298 0.3969	0.3454 0.4238	0.3768 0.4049	0.3936	0.3797	Ave		0.3814			0.1000	8.1	20.0				
Cyclohexane	0.4970 0.5019	0.4468 0.5151	0.4891 0.4904	0.5075	0.4613	Ave		0.4886			0.1000	4.8	20.0				
Carbon tetrachloride	0.2286 0.2886	0.2478 0.3002	0.2596 0.2920	0.2763	0.2618	Ave		0.2694			0.1000	9.1	20.0				

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

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

Lab Name: TestAmerica Pittsburgh

Job No.: 180-48181-1

Analy Batch No.: 149469

SDG No.: _____

Instrument ID: CHHP6

GC Column: DB-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2015 14:00

Calibration End Date: 07/31/2015 18:02

Calibration ID: 24897

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	0.3926 0.4066	0.3932 0.4288	0.4179 0.4097	0.4260	0.4065	Ave		0.4102			0.0100	3.3	20.0				
Isobutyl alcohol	0.0064 0.0079	0.0060 0.0084	0.0067 0.0082	0.0069	0.0074	Ave		0.0072		*	0.0100	12.0	20.0				
Benzene	1.3108 1.1051	1.1747 1.1573	1.1838 1.0686	1.1862	1.1360	Ave		1.1653			0.5000	6.1	20.0				
1,2-Dichloroethane	0.5170 0.4491	0.4680 0.4788	0.4635 0.4465	0.4749	0.4571	Ave		0.4694			0.1000	4.8	20.0				
n-Heptane	0.3283 0.3166	0.2930 0.3296	0.3187 0.3201	0.3273	0.3009	Ave		0.3168			0.0100	4.2	20.0				
Trichloroethene	0.2495 0.2439	0.2242 0.2580	0.2340 0.2443	0.2514	0.2390	Ave		0.2430			0.2000	4.4	20.0				
Methylcyclohexane	0.4988 0.5022	0.4670 0.5125	0.4962 0.4944	0.5026	0.4718	Ave		0.4932			0.1000	3.2	20.0				
1,2-Dichloropropane	0.3004 0.2740	0.2605 0.2918	0.2603 0.2810	0.2821	0.2771	Ave		0.2784			0.1000	5.0	20.0				
1,4-Dioxane	0.0025 0.0030	0.0022 0.0032	0.0027 0.0030	0.0026	0.0028	Ave		0.0027		*	0.0100	11.1	20.0				
Dibromomethane	0.1697 0.1704	0.1570 0.1809	0.1594 0.1730	0.1722	0.1697	Ave		0.1690			0.0100	4.5	20.0				
Bromodichloromethane	0.2616 0.3321	0.2926 0.3618	0.2967 0.3476	0.3256	0.3231	Ave		0.3176			0.2000	10.2	20.0				
cis-1,3-Dichloropropene	0.2584 0.3913	0.2782 0.4177	0.3074 0.4064	0.3604	0.3717	Ave		0.3489			0.2000	17.3	20.0				
4-Methyl-2-pentanone (MIBK)	0.8987 1.0658	0.9802 1.1445	0.9985 1.0527	1.0544	1.0284	Ave		1.0279			0.1000	7.0	20.0				
Toluene	5.9056 4.7537	5.5995 4.8374	5.4167 4.3396	5.4012	5.0191	Ave		5.1591			0.4000	9.9	20.0				
trans-1,3-Dichloropropene	0.8702 1.4914	1.1099 1.5454	1.1917 1.4764	1.4148	1.3777	Ave		1.3097			0.1000	17.8	20.0				
Ethyl methacrylate	1.0584 1.5306	1.1597 1.6211	1.2934 1.5074	1.4730	1.4851	Ave		1.3911			0.0100	14.3	20.0				
1,1,2-Trichloroethane	1.1649 1.0331	1.0986 1.0808	1.0395 0.9995	1.0976	1.0221	Ave		1.0670			0.1000	5.0	20.0				
Tetrachloroethene	0.9697 0.8437	0.9092 0.8645	0.8932 0.8142	0.9113	0.8341	Ave		0.8800			0.2000	5.8	20.0				
1,3-Dichloropropane	2.1051 1.8922	2.0770 1.9466	1.9733 1.8014	2.0412	1.9340	Ave		1.9713			0.0100	5.1	20.0				
2-Hexanone	0.5961 0.7048	0.6359 0.7303	0.6480 0.6962	0.7009	0.6879	Ave		0.6750			0.1000	6.6	20.0				

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

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

Lab Name: TestAmerica Pittsburgh

Job No.: 180-48181-1

Analy Batch No.: 149469

SDG No.: _____

Instrument ID: CHHP6

GC Column: DB-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2015 14:00

Calibration End Date: 07/31/2015 18:02

Calibration ID: 24897

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	0.4970 0.7956	0.6594 0.8501	0.6992 0.7965	0.7868	0.7414	Ave		0.7283			0.1000	15.3	20.0				
1,2-Dibromoethane (EDB)	0.9377 0.9584	0.9062 1.0009	0.8845 0.9279	0.9777	0.9601	Ave		0.9442			0.1000	4.0	20.0				
3-Chlorobenzotrifluoride	1.9346 1.5843	1.7960 1.5900	1.7022 1.3868	1.6742	1.5483	Ave		1.6520			0.0100	10.1	20.0				
Chlorobenzene	3.5287 3.0123	3.3662 3.0694	3.2495 2.7949	3.2738	3.0742	Ave		3.1711			0.5000	7.2	20.0				
4-Chlorobenzotrifluoride	1.6752 1.5041	1.6791 1.5135	1.5757 1.3040	1.5621	1.4356	Ave		1.5312			0.0100	8.1	20.0				
1,1,1,2-Tetrachloroethane	0.6900 0.9213	0.8149 0.9909	0.8845 0.9158	0.8859	0.8746	Ave		0.8691			0.0100	10.2	20.0				
Ethylbenzene	1.8948 1.7498	1.7825 1.8007	1.8382 1.6637	1.8404	1.7406	Ave		1.7888			0.1000	4.0	20.0				
m-Xylene & p-Xylene	2.2690 2.1710	2.2783 2.2282	2.2514 2.0794	2.2987	2.1836	Ave		2.2200			0.1000	3.3	20.0				
o-Xylene	2.1401 2.1982	2.2838 2.2768	2.2497 2.0945	2.3260	2.1995	Ave		2.2211			0.3000	3.5	20.0				
Styrene	3.0262 3.3999	3.5063 3.5053	3.5865 3.2169	3.6244	3.4204	Ave		3.4107			0.3000	5.9	20.0				
Bromoform	0.2774 0.4245	0.3854 0.4551	0.3553 0.4390	0.3847	0.3885	Ave		0.3887			0.1000	14.3	20.0				
2-Chlorobenzotrifluoride	1.7789 1.6566	1.8882 1.6800	1.7229 1.4654	1.7518	1.5913	Ave		1.6919			0.0100	7.5	20.0				
Isopropylbenzene	5.2778 5.0660	5.7181 5.1776	5.7365 4.6086	5.7208	5.2098	Ave		5.3144			0.1000	7.4	20.0				
1,1,2,2-Tetrachloroethane	1.4524 1.4044	1.5283 1.4375	1.4123 1.3480	1.4533	1.3845	Ave		1.4276			0.3000	3.8	20.0				
Bromobenzene	0.8149 0.7981	0.7780 0.8354	0.7958 0.7913	0.8100	0.8070	Ave		0.8038			0.0100	2.1	20.0				
trans-1,4-Dichloro-2-butene	0.2183 0.2782	0.2316 0.2872	0.2398 0.2842	0.2451	0.2549	Ave		0.2549			0.0100	10.1	20.0				
1,2,3-Trichloropropane	0.3115 0.3095	0.3103 0.3168	0.2929 0.3057	0.3005	0.2983	Ave		0.3057			0.0100	2.6	20.0				
N-Propylbenzene	0.8326 0.9631	0.8814 0.9609	0.9454 0.9440	0.9506	0.9278	Ave		0.9257			0.0100	4.9	20.0				
2-Chlorotoluene	0.7094 0.7751	0.7465 0.7992	0.7798 0.7755	0.7871	0.7761	Ave		0.7686			0.0100	3.7	20.0				
3-Chlorotoluene	0.7543 0.8420	0.8134 0.8337	0.8056 0.7727	0.8118	0.8241	Ave		0.8072			0.0100	3.7	20.0				

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1 Analy Batch No.: 149469

SDG No.: _____

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

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

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	2.7736 3.0025	3.0962 3.0472	3.1690 2.8036	3.1761	3.0091	Ave		3.0097			0.0100	5.0	20.0				
4-Chlorotoluene	0.7667 0.8064	0.7905 0.8463	0.8267 0.8136	0.8328	0.8125	Ave		0.8119			0.0100	3.1	20.0				
tert-Butylbenzene	2.1654 2.4390	2.2766 2.4763	2.4320 2.3179	2.5249	2.3935	Ave		2.3782			0.0100	5.0	20.0				
1,2,4-Trimethylbenzene	2.6641 3.0999	3.1580 3.1389	3.2410 2.8935	3.2855	3.1393	Ave		3.0775			0.0100	6.6	20.0				
3,4-Dichlorobenzotrifluoride	0.9506 0.8837	0.9051 0.8812	0.8433 0.8086	0.8848	0.8177	Ave		0.8719			0.0100	5.4	20.0				
sec-Butylbenzene	3.1858 3.5384	3.7184 3.5357	3.7627 3.2573	3.8203	3.5793	Ave		3.5497			0.0100	6.4	20.0				
1,3-Dichlorobenzene	1.6112 1.5388	1.6196 1.5936	1.5650 1.5066	1.5844	1.5419	Ave		1.5701			0.6000	2.5	20.0				
4-Isopropyltoluene	2.5478 3.0138	2.9539 3.0592	3.1574 2.8450	3.2053	3.0463	Ave		2.9786			0.0100	6.9	20.0				
1,4-Dichlorobenzene	1.6477 1.5662	1.6451 1.6298	1.6095 1.5306	1.6252	1.5856	Ave		1.6050			0.5000	2.6	20.0				
2,4-Dichlorobenzotrifluoride	0.8809 0.9283	0.9010 0.9168	0.8399 0.7625	0.8415	0.8683	Ave		0.8674			0.0100	6.1	20.0				
2,5-Dichlorobenzotrifluoride	1.1148 0.9323	0.9613 0.9470	0.9883 0.9297	0.9952	0.8812	Ave		0.9687			0.0100	7.1	20.0				
n-Butylbenzene	2.7413 3.0098	2.9731 3.0263	3.1192 2.7966	3.1553	2.9714	Ave		2.9741			0.0100	4.8	20.0				
1,2-Dichlorobenzene	1.7344 1.5614	1.6042 1.5872	1.5781 1.4856	1.5970	1.5347	Ave		1.5853			0.4000	4.5	20.0				
1,2-Dibromo-3-Chloropropane	0.1041 0.1673	0.1254 0.1741	0.1287 0.1752	0.1449	0.1432	Ave		0.1454			0.0500	17.6	20.0				
2,4- & 2,5- & 2,6- Dichlorotoluene	1.3659 1.3828	1.4490 1.3691	1.4643 1.2123	1.4309	1.3634	Ave		1.3797			0.0100	5.7	20.0				
2,3- & 3,4- Dichlorotoluene	1.4220 1.5594	1.5913 1.5578	1.5507 1.4014	1.5802	1.5161	Ave		1.5224			0.0100	4.7	20.0				
1,2,4-Trichlorobenzene	1.1743 1.2613	1.2132 1.2999	1.2170 1.2151	1.2351	1.2123	Ave		1.2285			0.2000	3.1	20.0				
Hexachlorobutadiene	0.4483 0.5040	0.4710 0.5079	0.4894 0.4926	0.4879	0.4705	Ave		0.4839			0.0100	4.1	20.0				
Naphthalene	1.9638 2.6901	2.2408 2.7319	2.4855 2.5560	2.6099	2.5577	Ave		2.4795			0.0100	10.3	20.0				
1,2,3-Trichlorobenzene	1.1813 1.1689	1.1348 1.2045	1.1056 1.1331	1.1438	1.1242	Ave		1.1495			0.0100	2.8	20.0				

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1 Analy Batch No.: 149469

SDG No.: _____

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

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

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														
2,4,5-Trichlorotoluene	0.6523 0.8517	0.6908 0.8911	0.7114 0.8098	0.7914	0.7765	Ave		0.7719			0.0100	10.6		20.0			
2,3,6-Trichlorotoluene	0.6747 0.7987	0.6373 0.8256	0.7048 0.7502	0.7418	0.7252	Ave		0.7323			0.0100	8.4		20.0			
Dibromofluoromethane (Surr)	0.2580 0.2278	0.2120 0.2401	0.2284 0.2160	0.2307	0.2293	Ave		0.2303				6.2		20.0			
1,2-Dichloroethane-d4 (Surr)	0.4370 0.3580	0.3544 0.3741	0.3729 0.3410	0.3684	0.3665	Ave		0.3715				7.7		20.0			
Toluene-d8 (Surr)	4.4422 3.7317	4.0733 3.7760	4.2664 3.2298	4.1020	3.9291	Ave		3.9438				9.5		20.0			
4-Bromofluorobenzene (Surr)	2.0841 1.7019	1.7074 1.7446	1.7653 1.5225	1.7965	1.6857	Ave		1.7510				9.0		20.0			

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

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1 Analy Batch No.: 149469

SDG No.: _____

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

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-149469/14	60731014.D
Level 2	IC 180-149469/4	60731004.D
Level 3	ICIS 180-149469/5	60731005.D
Level 4	IC 180-149469/6	60731006.D
Level 5	IC 180-149469/7	60731007.D
Level 6	IC 180-149469/8	60731008.D
Level 7	IC 180-149469/9	60731009.D
Level 8	IC 180-149469/10	60731010.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	17276 575043	76046 636192	166146 776950	255750	316945	5.00 175	25.0 200	50.0 250	75.0	100
Chloromethane	FB	Ave	15485 470953	70391 522516	147560 661756	208858	278884	5.00 175	25.0 200	50.0 250	75.0	100
Vinyl chloride	FB	Ave	15792 517410	75541 585198	154423 729853	233901	292173	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Butadiene	FB	Ave	15290 483297	72002 538199	146675 668636	214248	274693	5.00 175	25.0 200	50.0 250	75.0	100
Bromomethane	FB	Ave	9521 248522	42916 263364	89628 +++++	123705	158589	5.00 175	25.0 200	50.0 +++++	75.0	100
Chloroethane	FB	Ave	9922 359701	52119 402907	111283 495382	159781	198857	5.00 175	25.0 200	50.0 250	75.0	100
Dichlorofluoromethane	FB	Ave	24941 819476	126043 899692	250823 1120159	372545	463283	5.00 175	25.0 200	50.0 250	75.0	100
Trichlorofluoromethane	FB	Ave	19389 664854	96092 726249	206141 914267	296881	367084	5.00 175	25.0 200	50.0 250	75.0	100
Ethyl ether	FB	Ave	14586 458021	67458 523507	136903 666334	202583	269465	5.00 175	25.0 200	50.0 250	75.0	100
Acrolein	FB	Ave	28320 68050	35802 76429	43327 88331	52894	54177	100 225	125 250	150 275	175	200
1,1-Dichloroethene	FB	Ave	11872 411177	55817 476887	118856 604031	180424	234083	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	13209 446711	60462 481169	126375 613669	188852	241359	5.00 175	25.0 200	50.0 250	75.0	100
Acetone	FB	Ave	22203 284563	43121 317270	76252 446823	117975	166807	25.0 350	50.0 400	100 500	150	200
Iodomethane	FB	Ave	14090 566533	76980 655616	159542 830188	243211	318736	5.00 175	25.0 200	50.0 250	75.0	100
Carbon disulfide	FB	Ave	26146 1151644	137245 1330649	294989 1688724	461167	618168	5.00 175	25.0 200	50.0 250	75.0	100

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1 Analy Batch No.: 149469

SDG No.: _____

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

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

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		
Allyl chloride	FB	Ave	5562 257112	27346 293887	66228 379717	98190	135273	5.00 175	25.0 200	50.0 250	75.0	100
Methyl acetate	FB	Ave	50033 1680300	233460 1914014	497011 2441128	732698	982363	25.0 875	125 1000	250 1250	375	500
Methylene Chloride	FB	Lin2	30274 527474	89699 611401	163213 760977	238130	313904	5.00 175	25.0 200	50.0 250	75.0	100
tert-Butyl alcohol	TBA	Ave	9874 354063	43837 426462	91997 559063	141735	198055	50.0 1750	250 2000	500 2500	750	1000
Acrylonitrile	FB	Ave	48723 1745686	231943 1961872	501701 2461613	737397	994141	50.0 1750	250 2000	500 2500	750	1000
trans-1,2-Dichloroethene	FB	Ave	13191 479327	66744 548086	139824 687783	208665	267617	5.00 175	25.0 200	50.0 250	75.0	100
Methyl tert-butyl ether	FB	Ave	41079 1455878	186303 1687770	394698 2105039	621185	825760	5.00 175	25.0 200	50.0 250	75.0	100
Hexane	FB	Ave	19223 669795	85113 736641	186977 945322	278592	352983	5.00 175	25.0 200	50.0 250	75.0	100
1,1-Dichloroethane	FB	Ave	23168 861981	118950 980644	251887 1227440	371113	490563	5.00 175	25.0 200	50.0 250	75.0	100
Vinyl acetate	FB	Ave	17413 744628	80307 867464	186047 1104555	295714	412541	5.00 175	25.0 200	50.0 250	75.0	100
2,2-Dichloropropane	FB	Ave	9613 484574	53806 535345	122189 694588	186450	250901	5.00 175	25.0 200	50.0 250	75.0	100
cis-1,2-Dichloroethene	FB	Ave	15010 520777	69383 595718	151575 751398	223081	295290	5.00 175	25.0 200	50.0 250	75.0	100
2-Butanone (MEK)	FB	Ave	26408 412307	51510 470276	108037 588377	180292	231667	25.0 350	50.0 400	100 500	150	200
Bromochloromethane	FB	Ave	6120 209995	28403 240962	58005 308059	88252	118290	5.00 175	25.0 200	50.0 250	75.0	100
Tetrahydrofuran	FB	Ave	8204 277489	31436 305718	70787 413888	117489	154776	10.0 350	50.0 400	100 500	150	200
Chloroform	FB	Ave	23924 847765	118313 959266	250393 1195678	370042	484585	5.00 175	25.0 200	50.0 250	75.0	100
1,1,1-Trichloroethane	FB	Ave	15055 659562	79977 756837	182973 957300	278390	366376	5.00 175	25.0 200	50.0 250	75.0	100
Cyclohexane	FB	Ave	22688 834057	103455 919827	237539 1159567	359010	445084	5.00 175	25.0 200	50.0 250	75.0	100
Carbon tetrachloride	FB	Ave	10435 479558	57375 536127	126096 690480	195436	252588	5.00 175	25.0 200	50.0 250	75.0	100
1,1-Dichloropropene	FB	Ave	17924 675711	91039 765806	202951 968671	301319	392146	5.00 175	25.0 200	50.0 250	75.0	100
Isobutyl alcohol	FB	Ave	7317 326401	34707 375937	81470 482886	122452	178080	125 4375	625 5000	1250 6250	1875	2500

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

Lab Name: TestAmerica Pittsburgh

Job No.: 180-48181-1

Analy Batch No.: 149469

SDG No.: _____

Instrument ID: CHHP6

GC Column: DB-624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2015 14:00

Calibration End Date: 07/31/2015 18:02

Calibration ID: 24897

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	59844 1836424	271972 2066671	574901 2526807	839117	1096030	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloroethane	FB	Ave	23604 746328	108353 855052	225116 1055651	335915	440984	5.00 175	25.0 200	50.0 250	75.0	100
n-Heptane	FB	Ave	14990 526126	67835 588643	154761 756814	231524	290327	5.00 175	25.0 200	50.0 250	75.0	100
Trichloroethene	FB	Ave	11389 405251	51907 460676	113666 577638	177868	230554	5.00 175	25.0 200	50.0 250	75.0	100
Methylcyclohexane	FB	Ave	22772 834543	108113 915285	240977 1169092	355558	455180	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloropropane	FB	Ave	13712 455391	60301 521174	126414 664355	199527	267345	5.00 175	25.0 200	50.0 250	75.0	100
1,4-Dioxane	FB	Ave	2321 98136	10219 114196	26388 139772	36545	54577	100 3500	500 4000	1000 5000	1500	2000
Dibromomethane	FB	Ave	7749 283101	36346 323060	77394 409028	121844	163719	5.00 175	25.0 200	50.0 250	75.0	100
Bromodichloromethane	FB	Ave	11941 551929	67754 646107	144075 821950	230314	311750	5.00 175	25.0 200	50.0 250	75.0	100
cis-1,3-Dichloropropene	FB	Ave	11797 650196	64404 745866	149301 960857	254907	358605	5.00 175	25.0 200	50.0 250	75.0	100
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	42150 808342	90891 947711	208546 1194590	330779	452681	25.0 350	50.0 400	100 500	150	200
Toluene	CBZ	Ave	55394 1802740	259618 2002822	565645 2462377	847209	1104648	5.00 175	25.0 200	50.0 250	75.0	100
trans-1,3-Dichloropropene	CBZ	Ave	8162 565592	51458 639831	124444 837722	221914	303226	5.00 175	25.0 200	50.0 250	75.0	100
Ethyl methacrylate	CBZ	Ave	9928 580427	53768 671187	135064 855316	231048	326852	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2-Trichloroethane	CBZ	Ave	10927 391776	50938 447467	108552 567107	172158	224945	5.00 175	25.0 200	50.0 250	75.0	100
Tetrachloroethene	CBZ	Ave	9096 319955	42156 357911	93269 461983	142949	183568	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Dichloropropane	CBZ	Ave	19746 717566	96298 805963	206060 1022129	320167	425660	5.00 175	25.0 200	50.0 250	75.0	100
2-Hexanone	CBZ	Ave	27957 534519	58962 604727	135329 790089	219895	302805	25.0 350	50.0 400	100 500	150	200
Dibromochloromethane	CBZ	Ave	4662 301710	30573 351983	73014 451973	123420	163175	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dibromoethane (EDB)	CBZ	Ave	8796 363449	42016 414395	92363 526477	153351	211303	5.00 175	25.0 200	50.0 250	75.0	100
3-Chlorobenzotrifluoride	CBZ	Ave	18146 600793	83271 658293	177755 786880	262608	340769	5.00 175	25.0 200	50.0 250	75.0	100

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1 Analy Batch No.: 149469

SDG No.: _____

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

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

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	33099 1142353	156070 1270819	339330 1585885	513514	676590	5.00 175	25.0 200	50.0 250	75.0	100
4-Chlorobenzotrifluoride	CBZ	Ave	15713 570403	77852 626628	164547 739908	245021	315960	5.00 175	25.0 200	50.0 250	75.0	100
1,1,1,2-Tetrachloroethane	CBZ	Ave	6472 349368	37781 410261	89710 519653	138964	192497	5.00 175	25.0 200	50.0 250	75.0	100
Ethylbenzene	CBZ	Ave	17773 663577	82647 745552	191951 943999	288675	383099	5.00 175	25.0 200	50.0 250	75.0	100
m-Xylene & p-Xylene	CBZ	Ave	21283 823294	105633 922542	235109 1179895	360561	480587	5.00 175	25.0 200	50.0 250	75.0	100
o-Xylene	CBZ	Ave	20074 833629	105888 942660	234926 1188451	364838	484093	5.00 175	25.0 200	50.0 250	75.0	100
Styrene	CBZ	Ave	28385 1289309	162570 1451301	374525 1825312	568513	752806	5.00 175	25.0 200	50.0 250	75.0	100
Bromoform	CBZ	Ave	2602 160966	17870 188413	37102 249108	60348	85498	5.00 175	25.0 200	50.0 250	75.0	100
2-Chlorobenzotrifluoride	CBZ	Ave	16686 628216	87545 695569	179913 831476	274773	350232	5.00 175	25.0 200	50.0 250	75.0	100
Isopropylbenzene	CBZ	Ave	49505 1921153	265117 2143689	599038 2614965	897341	1146617	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2,2-Tetrachloroethane	CBZ	Ave	13623 532593	70858 595171	147479 764885	227964	304710	5.00 175	25.0 200	50.0 250	75.0	100
Bromobenzene	DCB	Ave	12814 459843	61847 533334	136094 665597	203181	276525	5.00 175	25.0 200	50.0 250	75.0	100
trans-1,4-Dichloro-2-butene	DCB	Ave	3433 160304	18413 183338	41001 239026	61474	87362	5.00 175	25.0 200	50.0 250	75.0	100
1,2,3-Trichloropropane	DCB	Ave	4898 178317	24668 202262	50085 257089	75371	102213	5.00 175	25.0 200	50.0 250	75.0	100
N-Propylbenzene	DCB	Ave	13092 554932	70063 613443	161671 793964	238465	317924	5.00 175	25.0 200	50.0 250	75.0	100
2-Chlorotoluene	DCB	Ave	11155 446590	59338 510216	133354 652311	197431	265955	5.00 175	25.0 200	50.0 250	75.0	100
3-Chlorotoluene	DCB	Ave	11861 485130	64658 532252	137766 649907	203636	282386	5.00 175	25.0 200	50.0 250	75.0	100
1,3,5-Trimethylbenzene	DCB	Ave	43612 1730016	246129 1945327	541915 2358116	796704	1031152	5.00 175	25.0 200	50.0 250	75.0	100
4-Chlorotoluene	DCB	Ave	12056 464650	62837 540303	141377 684319	208897	278435	5.00 175	25.0 200	50.0 250	75.0	100
tert-Butylbenzene	DCB	Ave	34048 1405341	180978 1580824	415895 1949627	633351	820194	5.00 175	25.0 200	50.0 250	75.0	100
1,2,4-Trimethylbenzene	DCB	Ave	41890 1786151	251042 2003823	554224 2433681	824147	1075766	5.00 175	25.0 200	50.0 250	75.0	100

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1 Analy Batch No.: 149469

SDG No.: _____

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

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

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	14947 509173	71946 562570	144215 680073	221955	280215	5.00 175	25.0 200	50.0 250	75.0	100
sec-Butylbenzene	DCB	Ave	50094 2038837	295586 2257148	643438 2739728	958306	1226548	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Dichlorobenzene	DCB	Ave	25334 886632	128745 1017363	267626 1267194	397446	528372	5.00 175	25.0 200	50.0 250	75.0	100
4-Isopropyltoluene	DCB	Ave	40061 1736569	234813 1952987	539941 2392925	804039	1043904	5.00 175	25.0 200	50.0 250	75.0	100
1,4-Dichlorobenzene	DCB	Ave	25908 902441	130776 1040432	275229 1287354	407678	543357	5.00 175	25.0 200	50.0 250	75.0	100
2,4-Dichlorobenzotrifluoride	DCB	Ave	13852 534909	71623 585295	143623 641375	211084	297534	5.00 175	25.0 200	50.0 250	75.0	100
2,5-Dichlorobenzotrifluoride	DCB	Ave	17529 537191	76420 604585	169006 781945	249633	301973	5.00 175	25.0 200	50.0 250	75.0	100
n-Butylbenzene	DCB	Ave	43104 1734264	236342 1931969	533401 2352259	791496	1018212	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichlorobenzene	DCB	Ave	27271 899668	127520 1013269	269873 1249514	400593	525918	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dibromo-3-Chloropropane	DCB	Ave	1637 96376	9971 111156	22010 147337	36339	49062	5.00 175	25.0 200	50.0 250	75.0	100
2,4- & 2,5- & 2,6- Dichlorotoluene	DCB	Ave	64430 2390336	345570 2621988	751227 3058923	1076776	1401616	15.0 525	75.0 600	150 750	225	300
2,3- & 3,4- Dichlorotoluene	DCB	Ave	44720 1797097	252992 1989024	530353 2357462	792789	1039069	10.0 350	50.0 400	100 500	150	200
1,2,4-Trichlorobenzene	DCB	Ave	18465 726756	96442 829845	208112 1022001	309817	415442	5.00 175	25.0 200	50.0 250	75.0	100
Hexachlorobutadiene	DCB	Ave	7049 290426	37440 324236	83692 414314	122376	161228	5.00 175	25.0 200	50.0 250	75.0	100
Naphthalene	DCB	Ave	30879 1550041	178131 1744010	425036 2149836	654694	876449	5.00 175	25.0 200	50.0 250	75.0	100
1,2,3-Trichlorobenzene	DCB	Ave	18575 673533	90206 768952	189066 953082	286920	385220	5.00 175	25.0 200	50.0 250	75.0	100
2,4,5-Trichlorotoluene	DCB	Ave	10257 490754	54916 568870	121646 681135	198517	266093	5.00 175	25.0 200	50.0 250	75.0	100
2,3,6-Trichlorotoluene	DCB	Ave	10609 460224	50658 527070	120523 630961	186087	248497	5.00 175	25.0 200	50.0 250	75.0	100
Dibromofluoromethane (Surr)	FB	Ave	11777 378487	49079 428779	110929 510673	163209	221245	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloroethane-d4 (Surr)	FB	Ave	19952 595019	82044 668015	181120 806396	260570	353626	5.00 175	25.0 200	50.0 250	75.0	100
Toluene-d8 (Surr)	CBZ	Ave	41667 1415164	188855 1563368	445521 1832665	643420	864751	5.00 175	25.0 200	50.0 250	75.0	100

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1 Analy Batch No.: 149469

SDG No.: _____

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

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

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		
4-Bromofluorobenzene (Surr)	CBZ	Ave	19549 645419	79163 722308	184340 863895	281797	371000	5.00 175	25.0 200	50.0 250	75.0	100

Curve Type Legend:

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

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1 Analy Batch No.: 149469

SDG No.: _____

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

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-149469/14	60731014.D
Level 2	IC 180-149469/4	60731004.D
Level 3	ICIS 180-149469/5	60731005.D
Level 4	IC 180-149469/6	60731006.D
Level 5	IC 180-149469/7	60731007.D
Level 6	IC 180-149469/8	60731008.D
Level 7	IC 180-149469/9	60731009.D
Level 8	IC 180-149469/10	60731010.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #					LVL 7	LVL 8				
Methylene Chloride	0.2	1.2	-4.0	-0.1	-1.9	-2.0	40	40	40	40	40	40
	6.3	0.3					40	40				

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731004.D
 Lims ID: IC VSTD5
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 31-Jul-2015 14:00:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD5
 Misc. Info.: 180-0007999-004
 Operator ID: 001562 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 03-Aug-2015 12:15:33 Calib Date: 31-Jul-2015 18:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK049

First Level Reviewer: fergusond Date: 31-Jul-2015 16:26:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.245	4.248	-0.003	91	159479	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.286	7.284	0.002	98	463046	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.395	10.398	-0.003	92	92729	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.743	12.747	-0.004	97	158987	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.556	6.554	0.002	68	49079	25.0	23.0	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.934	6.931	0.003	54	82044	25.0	23.8	
\$ 7 Toluene-d8 (Surr)	98	8.941	8.938	0.003	93	188855	25.0	25.8	
\$ 8 4-Bromofluorobenzene (Surr	95	11.587	11.585	0.002	81	79163	25.0	24.4	
11 Dichlorodifluoromethane	85	1.611	1.608	0.002	99	76046	25.0	23.7	
12 Chloromethane	50	1.757	1.754	0.003	100	70391	25.0	25.5	
13 Vinyl chloride	62	1.884	1.888	-0.004	98	75541	25.0	25.4	
14 Butadiene	39	1.933	1.930	0.003	92	72002	25.0	25.8	
15 Bromomethane	94	2.231	2.228	0.003	91	42916	25.0	26.7	M
16 Chloroethane	64	2.377	2.368	0.009	98	52119	25.0	25.7	
17 Dichlorofluoromethane	67	2.651	2.648	0.003	97	126043	25.0	26.7	
18 Trichlorofluoromethane	101	2.669	2.660	0.009	85	96092	25.0	25.5	
20 Ethyl ether	59	3.046	3.049	-0.003	88	67458	25.0	25.2	
21 Acrolein	56	3.223	3.220	0.003	97	35802	125.0	122.8	
22 1,1-Dichloroethene	96	3.338	3.341	-0.003	95	55817	25.0	23.9	
23 1,1,2-Trichloro-1,2,2-trif	101	3.393	3.390	0.003	94	60462	25.0	24.6	
24 Acetone	43	3.429	3.421	0.008	99	43121	50.0	52.6	
25 Iodomethane	142	3.539	3.536	0.003	97	76980	25.0	24.6	
26 Carbon disulfide	76	3.636	3.627	0.009	100	137245	25.0	22.7	
29 3-Chloro-1-propene	76	3.922	3.919	0.003	61	27346	25.0	20.8	
30 Methyl acetate	43	3.934	3.926	0.008	97	233460	125.0	121.5	
31 Methylene Chloride	84	4.135	4.132	0.003	92	89699	25.0	25.3	
32 2-Methyl-2-propanol	59	4.366	4.370	-0.004	93	43837	250.0	244.3	
33 Acrylonitrile	53	4.500	4.503	-0.003	100	231943	250.0	239.5	
34 trans-1,2-Dichloroethene	96	4.555	4.564	-0.009	95	66744	25.0	24.8	
35 Methyl tert-butyl ether	73	4.573	4.576	-0.003	97	186303	25.0	23.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.987	4.990	-0.003	94	85113	25.0	23.4	
37 1,1-Dichloroethane	63	5.206	5.197	0.009	97	118950	25.0	24.7	
38 Vinyl acetate	43	5.236	5.240	-0.004	97	80307	25.0	20.7	
43 cis-1,2-Dichloroethene	96	5.948	5.939	0.009	84	69383	25.0	23.7	
44 2-Butanone (MEK)	43	5.948	5.945	0.003	56	51510	50.0	46.1	
42 2,2-Dichloropropane	77	5.942	5.945	-0.003	59	53806	25.0	22.1	
48 Chlorobromomethane	128	6.228	6.231	-0.003	94	28403	25.0	24.2	
49 Tetrahydrofuran	42	6.240	6.249	-0.009	81	31436	50.0	41.7	
50 Chloroform	83	6.368	6.371	-0.003	93	118313	25.0	24.8	
51 1,1,1-Trichloroethane	97	6.538	6.541	-0.003	96	79977	25.0	22.6	
52 Cyclohexane	56	6.611	6.620	-0.009	93	103455	25.0	22.9	
53 Carbon tetrachloride	117	6.708	6.718	-0.010	98	57375	25.0	23.0	
54 1,1-Dichloropropene	75	6.727	6.724	0.003	94	91039	25.0	24.0	
55 Isobutyl alcohol	41	6.903	6.900	0.003	95	34707	625.0	518.1	
56 Benzene	78	6.940	6.943	-0.003	97	271972	25.0	25.2	
57 1,2-Dichloroethane	62	7.019	7.016	0.003	98	108353	25.0	24.9	
59 n-Heptane	43	7.311	7.308	0.003	89	67835	25.0	23.1	
61 Trichloroethene	130	7.676	7.679	-0.003	92	51907	25.0	23.1	
63 Methylcyclohexane	83	7.925	7.922	0.003	91	108113	25.0	23.7	
64 1,2-Dichloropropane	63	7.949	7.953	-0.004	95	60301	25.0	23.4	
65 1,4-Dioxane	88	8.029	8.032	-0.003	40	10219	500.0	401.6	M
67 Dibromomethane	93	8.035	8.038	-0.003	91	36346	25.0	23.2	
68 Dichlorobromomethane	83	8.235	8.227	0.008	98	67754	25.0	23.0	
71 cis-1,3-Dichloropropene	75	8.673	8.677	-0.004	92	64404	25.0	19.9	
72 4-Methyl-2-pentanone (MIBK)	43	8.826	8.823	0.003	95	90891	50.0	47.7	
73 Toluene	91	9.008	9.011	-0.003	97	259618	25.0	27.1	
74 trans-1,3-Dichloropropene	75	9.257	9.255	0.002	97	51458	25.0	21.2	
75 Ethyl methacrylate	69	9.312	9.315	-0.003	86	53768	25.0	20.8	
76 1,1,2-Trichloroethane	97	9.446	9.449	-0.003	96	50938	25.0	25.7	
77 Tetrachloroethene	164	9.525	9.522	0.003	92	42156	25.0	25.8	
78 1,3-Dichloropropane	76	9.604	9.607	-0.003	92	96298	25.0	26.3	
79 2-Hexanone	43	9.659	9.656	0.003	97	58962	50.0	47.1	
81 Chlorodibromomethane	129	9.817	9.826	-0.009	92	30573	25.0	22.6	
82 Ethylene Dibromide	107	9.939	9.942	-0.003	97	42016	25.0	24.0	
83 3-Chlorobenzotrifluoride	180	10.395	10.392	0.003	89	83271	25.0	27.2	
84 Chlorobenzene	112	10.425	10.429	-0.004	91	156070	25.0	26.5	
85 4-Chlorobenzotrifluoride	180	10.480	10.483	-0.003	95	77852	25.0	27.4	
86 1,1,1,2-Tetrachloroethane	131	10.523	10.520	0.003	87	37781	25.0	23.4	
87 Ethylbenzene	106	10.529	10.526	0.003	99	82647	25.0	24.9	
88 m-Xylene & p-Xylene	106	10.657	10.660	-0.003	99	105633	25.0	25.7	
89 o-Xylene	106	11.040	11.043	-0.003	98	105888	25.0	25.7	
90 Styrene	104	11.058	11.061	-0.003	94	162570	25.0	25.7	
91 Bromoform	173	11.241	11.244	-0.003	94	17870	25.0	24.8	
92 2-Chlorobenzotrifluoride	180	11.308	11.305	0.003	95	87545	25.0	27.9	
93 Isopropylbenzene	105	11.405	11.408	-0.003	97	265117	25.0	26.9	
96 1,1,2,2-Tetrachloroethane	83	11.715	11.712	0.003	94	70858	25.0	26.8	
95 Bromobenzene	156	11.721	11.725	-0.004	97	61847	25.0	24.2	
97 trans-1,4-Dichloro-2-buten	53	11.752	11.749	0.003	66	18413	25.0	22.7	
98 1,2,3-Trichloropropane	110	11.770	11.767	0.003	86	24668	25.0	25.4	
99 N-Propylbenzene	120	11.825	11.828	-0.003	99	70063	25.0	23.8	
100 2-Chlorotoluene	126	11.916	11.913	0.003	94	59338	25.0	24.3	
101 3-Chlorotoluene	126	11.977	11.980	-0.003	97	64658	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	12.007	12.010	-0.003	92	246129	25.0	25.7	
103 4-Chlorotoluene	126	12.038	12.041	-0.003	98	62837	25.0	24.3	
104 tert-Butylbenzene	119	12.323	12.321	0.002	90	180978	25.0	23.9	
106 1,2,4-Trimethylbenzene	105	12.384	12.382	0.002	97	251042	25.0	25.7	
107 1,2-dichloro-4-(trifluorom	214	12.421	12.418	0.003	95	71946	25.0	26.0	
108 sec-Butylbenzene	105	12.549	12.546	0.003	96	295586	25.0	26.2	
109 1,3-Dichlorobenzene	146	12.664	12.667	-0.003	93	128745	25.0	25.8	
110 4-Isopropyltoluene	119	12.707	12.704	0.003	96	234813	25.0	24.8	
111 1,4-Dichlorobenzene	146	12.768	12.771	-0.003	89	130776	25.0	25.6	
113 2,4-Dichloro-1-(trifluorom	214	12.792	12.789	0.003	94	71623	25.0	26.0	
114 2,5-Dichlorobenzotrifluori	214	12.828	12.832	-0.004	96	76420	25.0	24.8	
116 n-Butylbenzene	91	13.114	13.112	0.002	98	236342	25.0	25.0	
117 1,2-Dichlorobenzene	146	13.120	13.124	-0.004	91	127520	25.0	25.3	
118 1,2-Dibromo-3-Chloropropan	75	13.911	13.921	-0.010	62	9971	25.0	21.6	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.063	14.061	0.002	98	345570	75.0	78.8	
121 2,3- & 3,4- Dichlorotoluen	125	14.471	14.474	-0.003	99	252992	50.0	52.3	
122 1,2,4-Trichlorobenzene	180	14.745	14.736	0.009	92	96442	25.0	24.7	
123 Hexachlorobutadiene	225	14.891	14.888	0.003	96	37440	25.0	24.3	
124 Naphthalene	128	15.006	15.004	0.002	98	178131	25.0	22.6	
125 1,2,3-Trichlorobenzene	180	15.231	15.229	0.002	95	90206	25.0	24.7	
126 2,4,5-Trichlorotoluene	159	16.004	16.007	-0.003	0	54916	25.0	22.4	
127 2,3,6-Trichlorotoluene	159	16.107	16.111	-0.004	91	50658	25.0	21.8	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		50.0	48.5	
S 131 Xylenes, Total	106				0		50.0	51.4	
S 132 1,3-Dichloropropene, Total	1				0		50.0	41.1	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00039	Amount Added: 1.00	Units: uL	
voaWket1Reste_00001	Amount Added: 1.00	Units: uL	
voaWeemix1Res_00001	Amount Added: 1.00	Units: uL	
voaWVA1st Res_00003	Amount Added: 1.00	Units: uL	
VOA8260VOAPRI_00134	Amount Added: 1.00	Units: uL	
voaWAcro2nd R_00006	Amount Added: 5.00	Units: uL	
VOA8260INT_00039	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731004.D

Injection Date: 31-Jul-2015 14:00:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: IC VSTD5

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

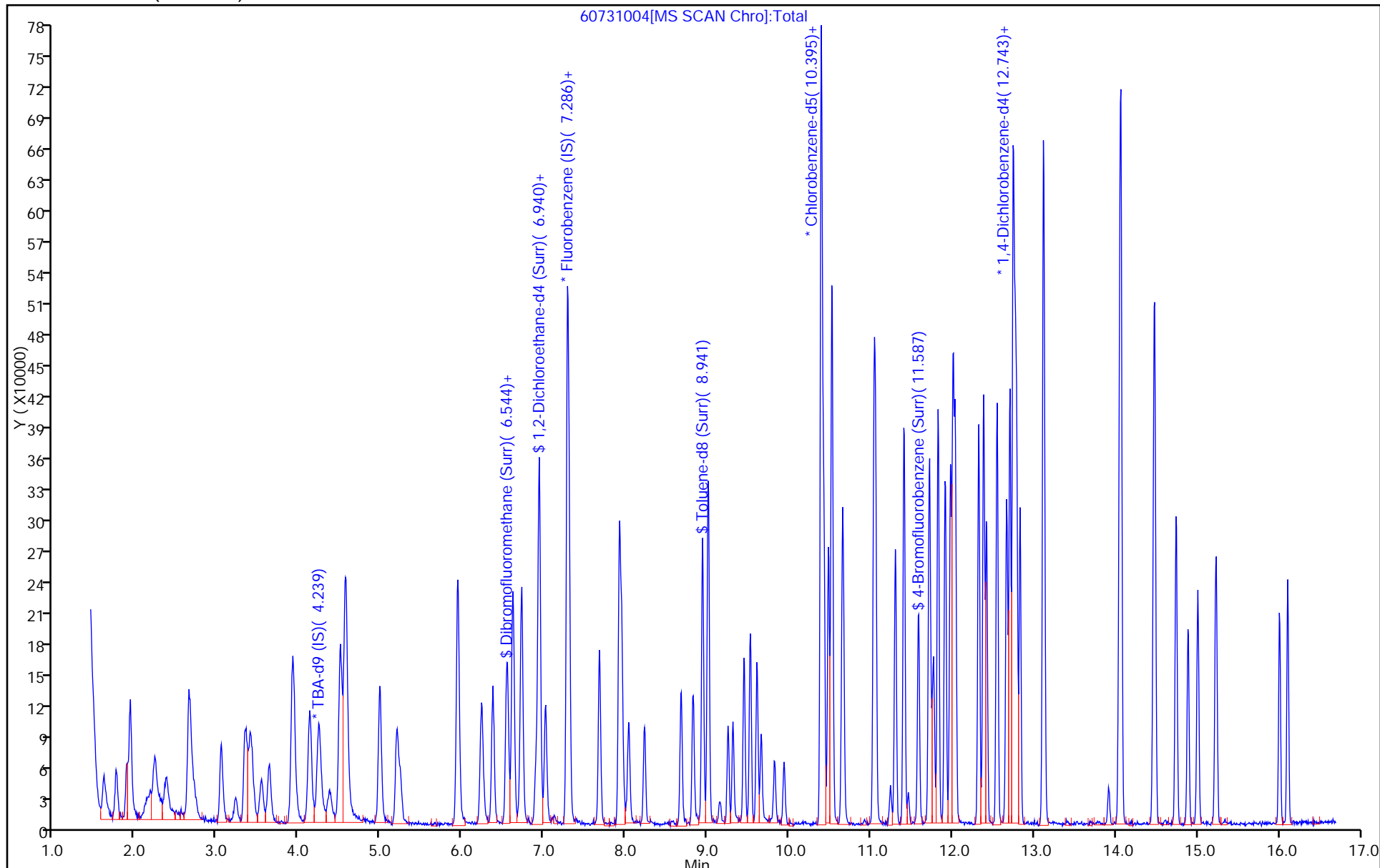
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



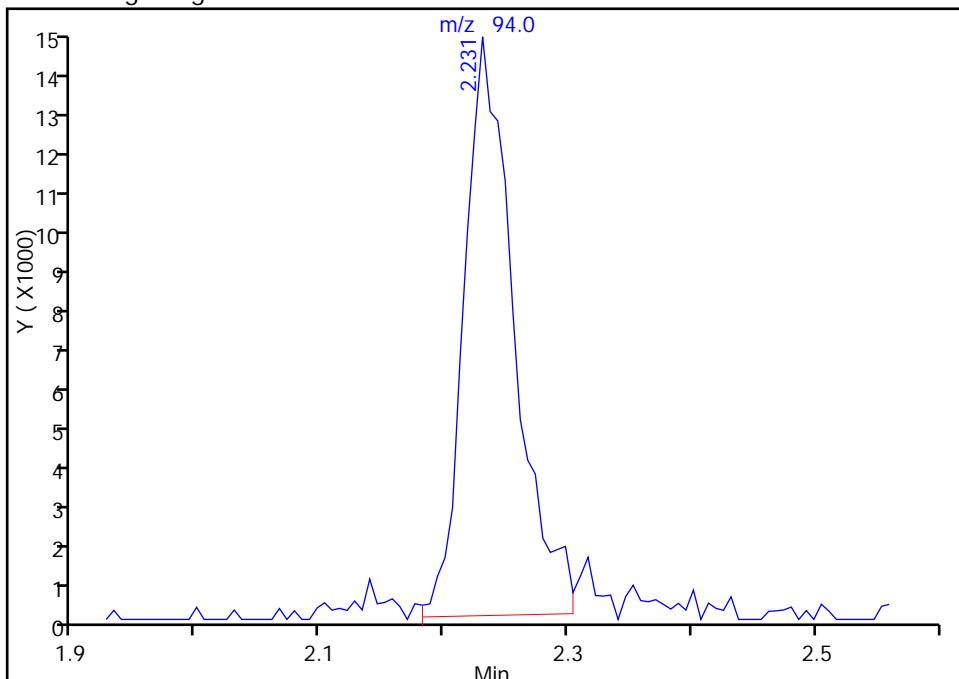
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731004.D
Injection Date: 31-Jul-2015 14:00:30 Instrument ID: CHHP6
Lims ID: IC VSTD5
Client ID:
Operator ID: 001562 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

15 Bromomethane, CAS: 74-83-9

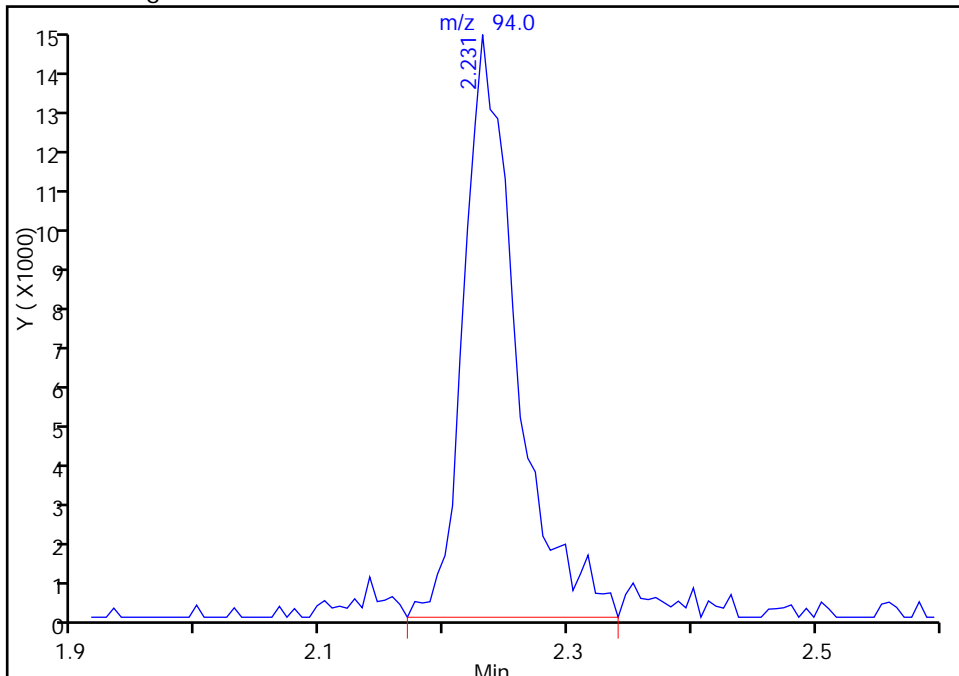
RT: 2.23
Area: 40394
Amount: 23.319863
Amount Units: ng

Processing Integration Results



RT: 2.23
Area: 42916
Amount: 26.704234
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 03-Aug-2015 10:46:01
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

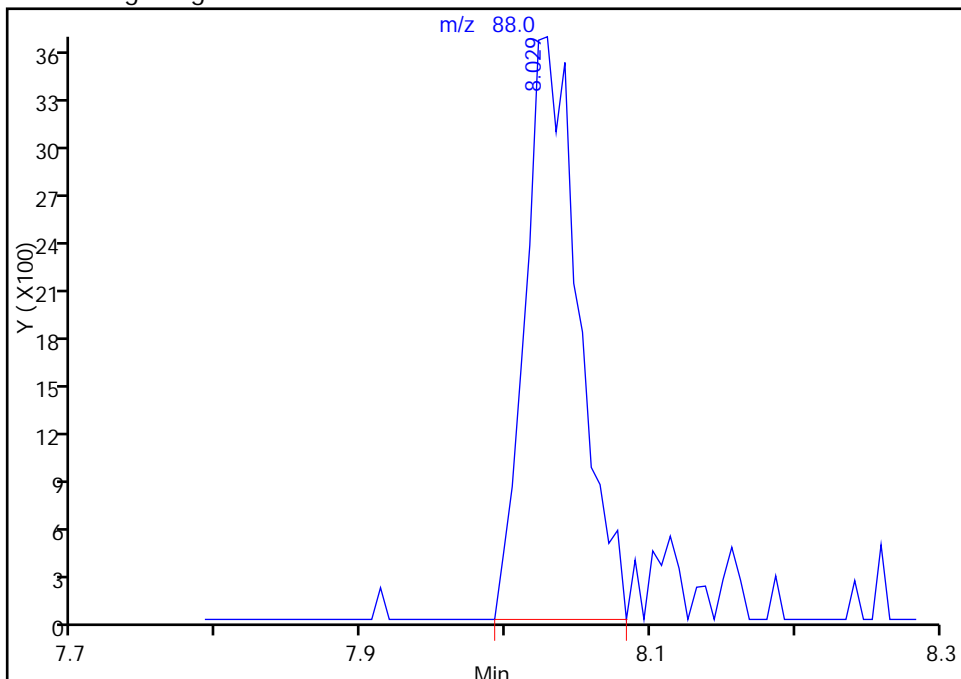
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731004.D
Injection Date: 31-Jul-2015 14:00:30 Instrument ID: CHHP6
Lims ID: IC VSTD5
Client ID:
Operator ID: 001562 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

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

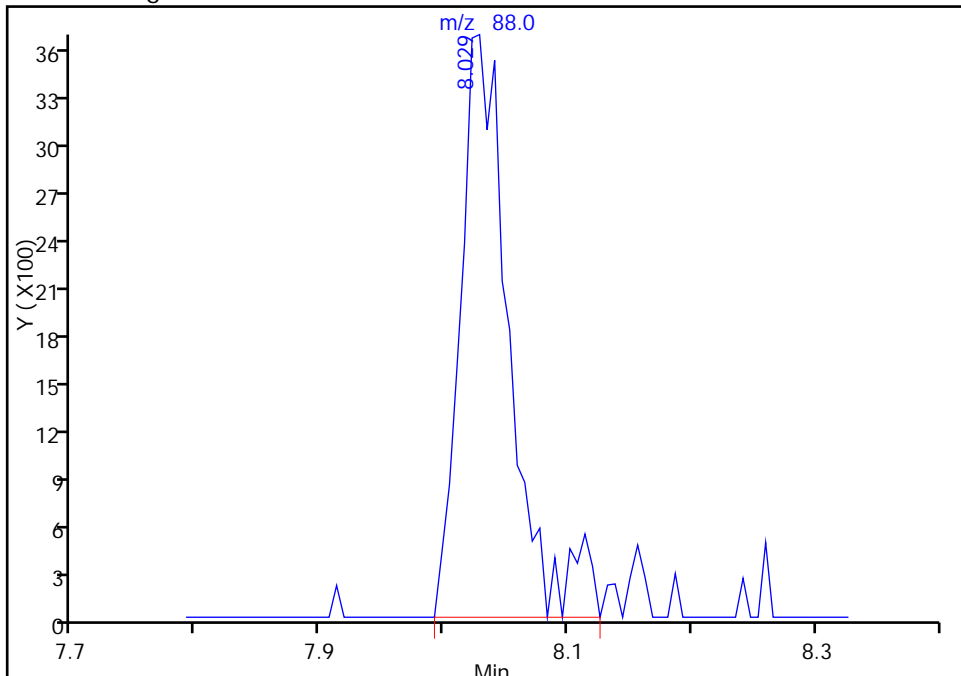
RT: 8.03
Area: 9488
Amount: 365.3313
Amount Units: ng

Processing Integration Results



RT: 8.03
Area: 10219
Amount: 401.5715
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 03-Aug-2015 10:46:01
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731005.D
 Lims ID: ICIS VSTD10
 Client ID:
 Sample Type: ICIS Calib Level: 3
 Inject. Date: 31-Jul-2015 14:24:30 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICIS VSTD10
 Misc. Info.: 180-0007999-005
 Operator ID: 001562 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 03-Aug-2015 12:56:50 Calib Date: 31-Jul-2015 18:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK049

First Level Reviewer: fergusond

Date: 03-Aug-2015 12:15:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.248	4.248	0.000	92	161009	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.284	7.284	0.000	98	485657	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.398	0.000	91	104426	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.747	12.747	0.000	94	171006	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.554	6.554	0.000	92	110929	50.0	49.6	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.931	0.000	71	181120	50.0	50.2	
\$ 7 Toluene-d8 (Surr)	98	8.938	8.938	0.000	94	445521	50.0	54.1	
\$ 8 4-Bromofluorobenzene (Surr	95	11.585	11.585	0.000	80	184340	50.0	50.4	
11 Dichlorodifluoromethane	85	1.608	1.608	0.000	99	166146	50.0	49.4	
12 Chloromethane	50	1.754	1.754	0.000	100	147560	50.0	50.9	
13 Vinyl chloride	62	1.888	1.888	0.000	99	154423	50.0	49.5	
14 Butadiene	39	1.930	1.930	0.000	90	146675	50.0	50.1	
15 Bromomethane	94	2.228	2.228	0.000	90	89628	50.0	53.2	
16 Chloroethane	64	2.368	2.368	0.000	99	111283	50.0	52.2	
17 Dichlorofluoromethane	67	2.648	2.648	0.000	96	250823	50.0	50.6	
18 Trichlorofluoromethane	101	2.660	2.660	0.000	73	206141	50.0	52.1	
20 Ethyl ether	59	3.049	3.049	0.000	90	136903	50.0	48.8	
21 Acrolein	56	3.220	3.220	0.000	97	43327	150.0	141.7	
22 1,1-Dichloroethene	96	3.341	3.341	0.000	96	118856	50.0	48.6	
23 1,1,2-Trichloro-1,2,2-trif	101	3.390	3.390	0.000	95	126375	50.0	49.0	
24 Acetone	43	3.421	3.421	0.000	98	76252	100.0	88.7	
25 Iodomethane	142	3.536	3.536	0.000	98	159542	50.0	48.6	
26 Carbon disulfide	76	3.627	3.627	0.000	100	294989	50.0	46.6	
29 3-Chloro-1-propene	76	3.919	3.919	0.000	61	66228	50.0	48.1	
30 Methyl acetate	43	3.926	3.926	0.000	96	497011	250.0	246.7	
31 Methylene Chloride	84	4.132	4.132	0.000	93	163213	50.0	48.0	
32 2-Methyl-2-propanol	59	4.370	4.370	0.000	93	91997	500.0	507.7	
33 Acrylonitrile	53	4.503	4.503	0.000	98	501701	500.0	494.0	
34 trans-1,2-Dichloroethene	96	4.564	4.564	0.000	96	139824	50.0	49.6	
35 Methyl tert-butyl ether	73	4.576	4.576	0.000	97	394698	50.0	46.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.990	4.990	0.000	93	186977	50.0	48.9	
37 1,1-Dichloroethane	63	5.197	5.197	0.000	97	251887	50.0	49.9	
38 Vinyl acetate	43	5.240	5.240	0.000	98	186047	50.0	45.6	
43 cis-1,2-Dichloroethene	96	5.939	5.939	0.000	85	151575	50.0	49.4	
44 2-Butanone (MEK)	43	5.945	5.945	0.000	60	108037	100.0	92.1	
42 2,2-Dichloropropane	77	5.945	5.945	0.000	61	122189	50.0	47.8	
48 Chlorobromomethane	128	6.231	6.231	0.000	96	58005	50.0	47.1	
49 Tetrahydrofuran	42	6.249	6.249	0.000	87	70787	100.0	89.6	
50 Chloroform	83	6.371	6.371	0.000	94	250393	50.0	49.9	
51 1,1,1-Trichloroethane	97	6.541	6.541	0.000	97	182973	50.0	49.4	
52 Cyclohexane	56	6.620	6.620	0.000	93	237539	50.0	50.0	
53 Carbon tetrachloride	117	6.718	6.718	0.000	95	126096	50.0	48.2	
54 1,1-Dichloropropene	75	6.724	6.724	0.000	95	202951	50.0	50.9	
55 Isobutyl alcohol	41	6.900	6.900	0.000	88	81470	1250.0	1159.5	
56 Benzene	78	6.943	6.943	0.000	97	574901	50.0	50.8	
57 1,2-Dichloroethane	62	7.016	7.016	0.000	99	225116	50.0	49.4	
59 n-Heptane	43	7.308	7.308	0.000	88	154761	50.0	50.3	
61 Trichloroethene	130	7.679	7.679	0.000	92	113666	50.0	48.2	
63 Methylcyclohexane	83	7.922	7.922	0.000	92	240977	50.0	50.3	
64 1,2-Dichloropropane	63	7.953	7.953	0.000	87	126414	50.0	46.8	
65 1,4-Dioxane	88	8.032	8.032	0.000	44	26388	1000.0	988.7	M
67 Dibromomethane	93	8.038	8.038	0.000	94	77394	50.0	47.1	
68 Dichlorobromomethane	83	8.227	8.227	0.000	98	144075	50.0	46.7	
71 cis-1,3-Dichloropropene	75	8.677	8.677	0.000	92	149301	50.0	44.1	
72 4-Methyl-2-pentanone (MIBK)	43	8.823	8.823	0.000	96	208546	100.0	97.1	
73 Toluene	91	9.011	9.011	0.000	98	565645	50.0	52.5	
74 trans-1,3-Dichloropropene	75	9.255	9.255	0.000	95	124444	50.0	45.5	
75 Ethyl methacrylate	69	9.315	9.315	0.000	88	135064	50.0	46.5	
76 1,1,2-Trichloroethane	97	9.449	9.449	0.000	94	108552	50.0	48.7	
77 Tetrachloroethene	164	9.522	9.522	0.000	93	93269	50.0	50.7	
78 1,3-Dichloropropane	76	9.607	9.607	0.000	91	206060	50.0	50.0	
79 2-Hexanone	43	9.656	9.656	0.000	95	135329	100.0	96.0	
81 Chlorodibromomethane	129	9.826	9.826	0.000	91	73014	50.0	48.0	
82 Ethylene Dibromide	107	9.942	9.942	0.000	97	92363	50.0	46.8	
83 3-Chlorobenzotrifluoride	180	10.392	10.392	0.000	87	177755	50.0	51.5	
84 Chlorobenzene	112	10.429	10.429	0.000	91	339330	50.0	51.2	
85 4-Chlorobenzotrifluoride	180	10.483	10.483	0.000	96	164547	50.0	51.5	
86 1,1,1,2-Tetrachloroethane	131	10.520	10.520	0.000	85	89710	50.0	49.4	
87 Ethylbenzene	106	10.526	10.526	0.000	99	191951	50.0	51.4	
88 m-Xylene & p-Xylene	106	10.660	10.660	0.000	99	235109	50.0	50.7	
89 o-Xylene	106	11.043	11.043	0.000	98	234926	50.0	50.6	
90 Styrene	104	11.061	11.061	0.000	94	374525	50.0	52.6	
91 Bromoform	173	11.244	11.244	0.000	92	37102	50.0	45.7	
92 2-Chlorobenzotrifluoride	180	11.305	11.305	0.000	94	179913	50.0	50.9	
93 Isopropylbenzene	105	11.408	11.408	0.000	98	599038	50.0	54.0	
96 1,1,2,2-Tetrachloroethane	83	11.712	11.712	0.000	95	147479	50.0	49.5	
95 Bromobenzene	156	11.725	11.725	0.000	96	136094	50.0	49.5	
97 trans-1,4-Dichloro-2-buten	53	11.749	11.749	0.000	77	41001	50.0	47.0	
98 1,2,3-Trichloropropane	110	11.767	11.767	0.000	87	50085	50.0	47.9	
99 N-Propylbenzene	120	11.828	11.828	0.000	99	161671	50.0	51.1	
100 2-Chlorotoluene	126	11.913	11.913	0.000	93	133354	50.0	50.7	
101 3-Chlorotoluene	126	11.980	11.980	0.000	97	137766	50.0	49.9	

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	12.010	12.010	0.000	95	541915	50.0	52.6	
103 4-Chlorotoluene	126	12.041	12.041	0.000	98	141377	50.0	50.9	
104 tert-Butylbenzene	119	12.321	12.321	0.000	91	415895	50.0	51.1	
106 1,2,4-Trimethylbenzene	105	12.382	12.382	0.000	99	554224	50.0	52.7	
107 1,2-dichloro-4-(trifluorom	214	12.418	12.418	0.000	96	144215	50.0	48.4	
108 sec-Butylbenzene	105	12.546	12.546	0.000	96	643438	50.0	53.0	
109 1,3-Dichlorobenzene	146	12.667	12.667	0.000	93	267626	50.0	49.8	
110 4-Isopropyltoluene	119	12.704	12.704	0.000	96	539941	50.0	53.0	
111 1,4-Dichlorobenzene	146	12.771	12.771	0.000	88	275229	50.0	50.1	
113 2,4-Dichloro-1-(trifluorom	214	12.789	12.789	0.000	95	143623	50.0	48.4	
114 2,5-Dichlorobenzotrifluori	214	12.832	12.832	0.000	98	169006	50.0	51.0	
116 n-Butylbenzene	91	13.112	13.112	0.000	99	533401	50.0	52.4	
117 1,2-Dichlorobenzene	146	13.124	13.124	0.000	91	269873	50.0	49.8	
118 1,2-Dibromo-3-Chloropropan	75	13.915	13.921	-0.006	68	22010	50.0	44.3	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.061	14.061	0.000	98	751227	150.0	159.2	
121 2,3- & 3,4- Dichlorotoluen	125	14.474	14.474	0.000	99	530353	100.0	101.9	
122 1,2,4-Trichlorobenzene	180	14.736	14.736	0.000	92	208112	50.0	49.5	
123 Hexachlorobutadiene	225	14.888	14.888	0.000	95	83692	50.0	50.6	
124 Naphthalene	128	15.004	15.004	0.000	99	425036	50.0	50.1	
125 1,2,3-Trichlorobenzene	180	15.229	15.229	0.000	91	189066	50.0	48.1	
126 2,4,5-Trichlorotoluene	159	16.007	16.007	0.000	0	121646	50.0	46.1	
127 2,3,6-Trichlorotoluene	159	16.111	16.111	0.000	92	120523	50.0	48.1	
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	
144 2,4-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	99.0	
S 131 Xylenes, Total	106				0		100.0	101.4	
S 132 1,3-Dichloropropene, Total	1				0		100.0	89.5	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00039	Amount Added: 2.00	Units: uL	
voaWket1Reste_00001	Amount Added: 2.00	Units: uL	
voaWeemix1Res_00001	Amount Added: 2.00	Units: uL	
VOA8260VOAPRI_00134	Amount Added: 2.00	Units: uL	
voaWVA1st Res_00003	Amount Added: 2.00	Units: uL	
voaWAcro2nd R_00006	Amount Added: 6.00	Units: uL	
VOA8260INT_00039	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731005.D

Injection Date: 31-Jul-2015 14:24:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: ICIS VSTD10

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

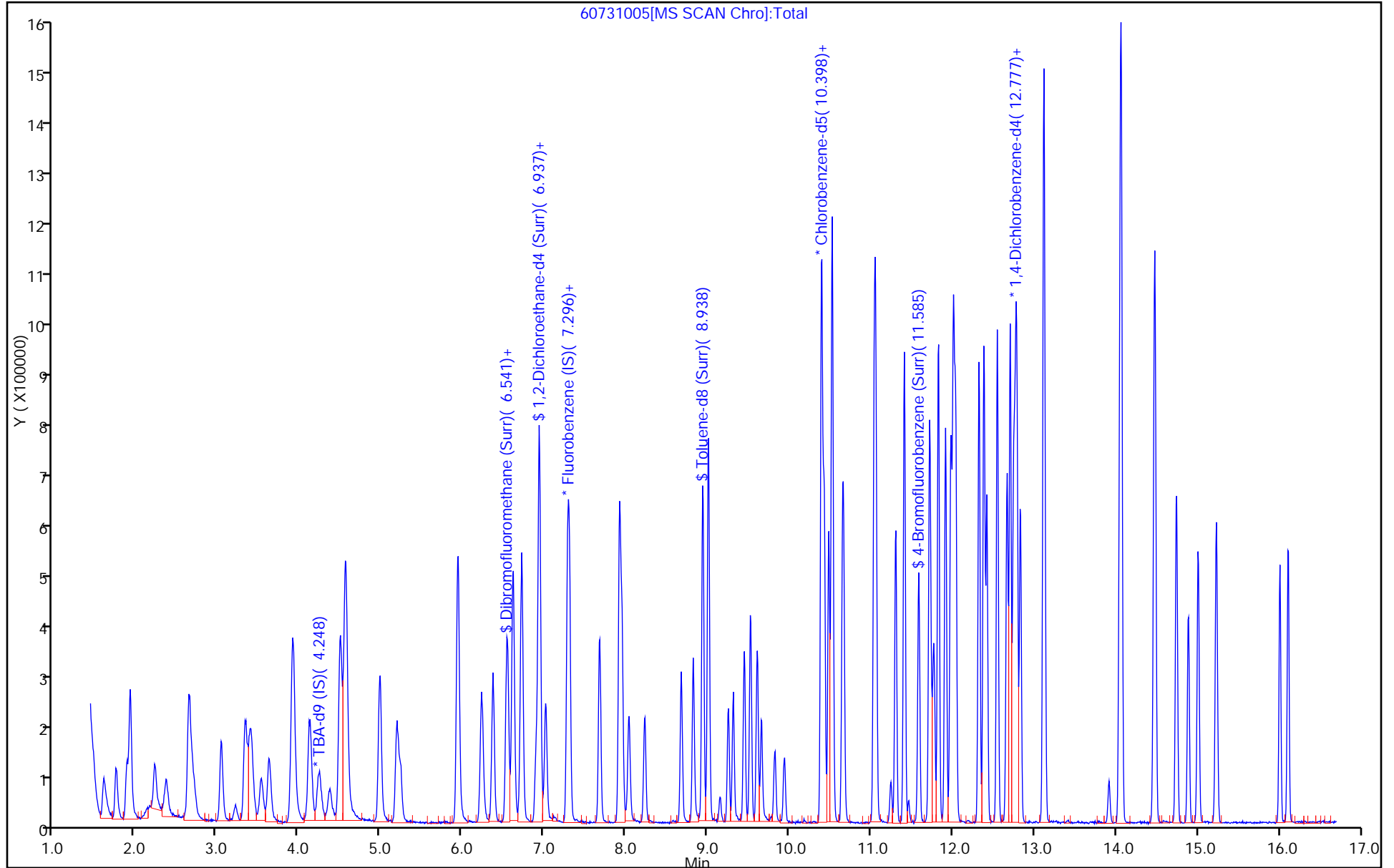
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



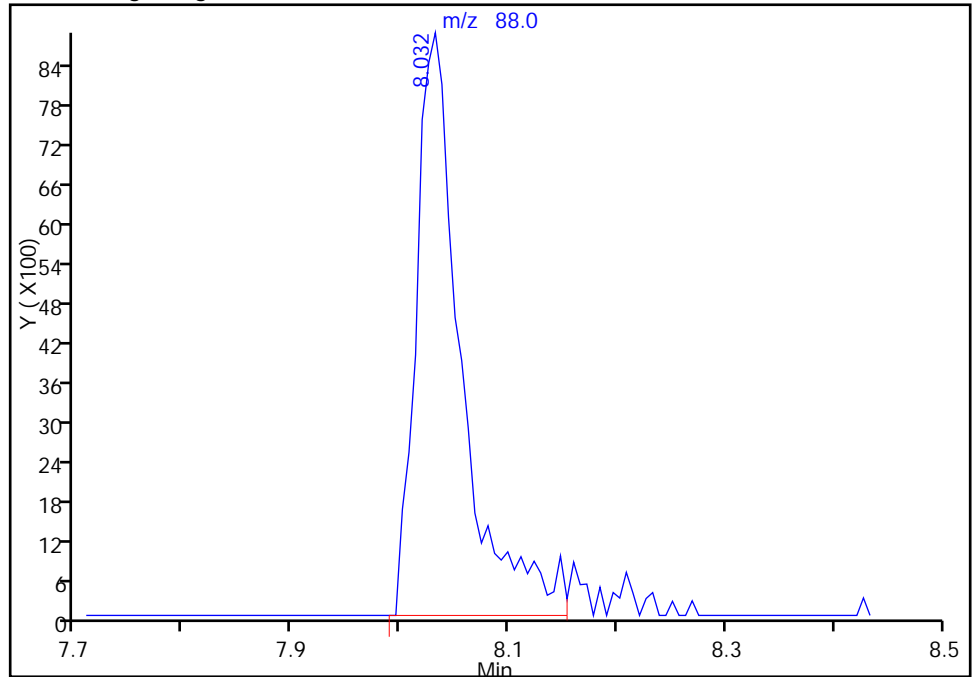
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731005.D
Injection Date: 31-Jul-2015 14:24:30 Instrument ID: CHHP6
Lims ID: ICIS VSTD10
Client ID:
Operator ID: 001562 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

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

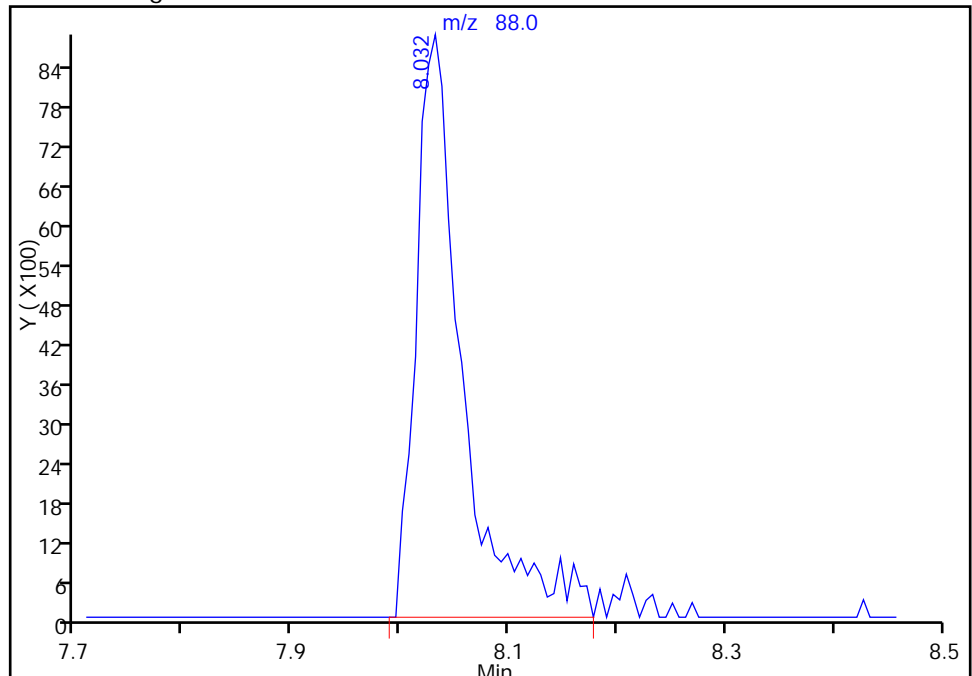
RT: 8.03
Area: 25747
Amount: 938.6160
Amount Units: ng

Processing Integration Results



RT: 8.03
Area: 26388
Amount: 988.6792
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 03-Aug-2015 10:47:28
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731006.D
 Lims ID: IC VSTD15
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 31-Jul-2015 14:49:30 ALS Bottle#: 6 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD15
 Misc. Info.: 180-0007999-006
 Operator ID: 001562 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 03-Aug-2015 12:15:42 Calib Date: 31-Jul-2015 18:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK049

First Level Reviewer: fergusond

Date: 03-Aug-2015 10:29:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.247	4.247	0.000	90	170149	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.289	0.000	98	471581	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.398	0.000	92	104570	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.746	12.746	0.000	95	167231	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.553	6.553	0.000	92	163209	75.0	75.1	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.930	6.930	0.000	71	260570	75.0	74.4	
\$ 7 Toluene-d8 (Surr)	98	8.938	8.938	0.000	94	643420	75.0	78.0	
\$ 8 4-Bromofluorobenzene (Surr	95	11.584	11.584	0.000	80	281797	75.0	77.0	
11 Dichlorodifluoromethane	85	1.607	1.607	0.000	98	255750	75.0	78.3	
12 Chloromethane	50	1.759	1.759	0.000	99	208858	75.0	74.2	
13 Vinyl chloride	62	1.893	1.893	0.000	84	233901	75.0	77.2	
14 Butadiene	39	1.930	1.930	0.000	90	214248	75.0	75.4	
15 Bromomethane	94	2.228	2.228	0.000	89	123705	75.0	75.6	
16 Chloroethane	64	2.374	2.374	0.000	99	159781	75.0	77.2	
17 Dichlorofluoromethane	67	2.654	2.654	0.000	99	372545	75.0	77.4	
18 Trichlorofluoromethane	101	2.678	2.678	0.000	84	296881	75.0	77.3	
20 Ethyl ether	59	3.043	3.043	0.000	89	202583	75.0	74.4	
21 Acrolein	56	3.213	3.213	0.000	99	52894	175.0	178.1	
22 1,1-Dichloroethene	96	3.341	3.341	0.000	96	180424	75.0	76.0	
23 1,1,2-Trichloro-1,2,2-trif	101	3.402	3.402	0.000	96	188852	75.0	75.4	
24 Acetone	43	3.432	3.432	0.000	99	117975	150.0	141.4	
25 Iodomethane	142	3.530	3.530	0.000	99	243211	75.0	76.3	
26 Carbon disulfide	76	3.633	3.633	0.000	100	461167	75.0	75.0	
29 3-Chloro-1-propene	76	3.913	3.913	0.000	89	98190	75.0	73.4	
30 Methyl acetate	43	3.925	3.925	0.000	97	732698	375.0	374.5	
31 Methylene Chloride	84	4.132	4.132	0.000	93	238130	75.0	74.9	
32 2-Methyl-2-propanol	59	4.369	4.369	0.000	92	141735	750.0	740.2	
33 Acrylonitrile	53	4.497	4.497	0.000	99	737397	750.0	747.7	
34 trans-1,2-Dichloroethene	96	4.564	4.564	0.000	71	208665	75.0	76.2	
35 Methyl tert-butyl ether	73	4.576	4.576	0.000	97	621185	75.0	75.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.990	4.990	0.000	94	278592	75.0	75.0	
37 1,1-Dichloroethane	63	5.196	5.196	0.000	97	371113	75.0	75.7	
38 Vinyl acetate	43	5.239	5.239	0.000	98	295714	75.0	74.7	
43 cis-1,2-Dichloroethene	96	5.939	5.939	0.000	85	223081	75.0	74.9	
44 2-Butanone (MEK)	43	5.945	5.945	0.000	61	180292	150.0	158.3	
42 2,2-Dichloropropane	77	5.945	5.945	0.000	61	186450	75.0	75.2	
48 Chlorobromomethane	128	6.225	6.225	0.000	97	88252	75.0	73.7	
49 Tetrahydrofuran	42	6.237	6.237	0.000	85	117489	150.0	153.2	
50 Chloroform	83	6.371	6.371	0.000	96	370042	75.0	76.0	
51 1,1,1-Trichloroethane	97	6.541	6.541	0.000	97	278390	75.0	77.4	
52 Cyclohexane	56	6.620	6.620	0.000	91	359010	75.0	77.9	
53 Carbon tetrachloride	117	6.717	6.717	0.000	97	195436	75.0	76.9	
54 1,1-Dichloropropene	75	6.730	6.730	0.000	95	301319	75.0	77.9	
55 Isobutyl alcohol	41	6.900	6.900	0.000	90	122452	1875.0	1794.8	
56 Benzene	78	6.942	6.942	0.000	97	839117	75.0	76.3	
57 1,2-Dichloroethane	62	7.015	7.015	0.000	99	335915	75.0	75.9	
59 n-Heptane	43	7.307	7.307	0.000	88	231524	75.0	77.5	
61 Trichloroethene	130	7.679	7.679	0.000	92	177868	75.0	77.6	
63 Methylcyclohexane	83	7.922	7.922	0.000	91	355558	75.0	76.4	
64 1,2-Dichloropropane	63	7.952	7.952	0.000	94	199527	75.0	76.0	
65 1,4-Dioxane	88	8.031	8.031	0.000	40	36545	1500.0	1410.1	
67 Dibromomethane	93	8.037	8.037	0.000	90	121844	75.0	76.4	
68 Dichlorobromomethane	83	8.226	8.226	0.000	98	230314	75.0	76.9	
71 cis-1,3-Dichloropropene	75	8.676	8.676	0.000	93	254907	75.0	77.5	
72 4-Methyl-2-pentanone (MIBK)	43	8.822	8.822	0.000	94	330779	150.0	153.9	
73 Toluene	91	9.011	9.011	0.000	98	847209	75.0	78.5	
74 trans-1,3-Dichloropropene	75	9.254	9.254	0.000	97	221914	75.0	81.0	
75 Ethyl methacrylate	69	9.315	9.315	0.000	88	231048	75.0	79.4	
76 1,1,2-Trichloroethane	97	9.449	9.449	0.000	95	172158	75.0	77.1	
77 Tetrachloroethene	164	9.528	9.528	0.000	94	142949	75.0	77.7	
78 1,3-Dichloropropane	76	9.607	9.607	0.000	92	320167	75.0	77.7	
79 2-Hexanone	43	9.656	9.656	0.000	96	219895	150.0	155.8	
81 Chlorodibromomethane	129	9.826	9.826	0.000	89	123420	75.0	81.0	
82 Ethylene Dibromide	107	9.936	9.936	0.000	97	153351	75.0	77.7	
83 3-Chlorobenzotrifluoride	180	10.392	10.392	0.000	91	262608	75.0	76.0	
84 Chlorobenzene	112	10.428	10.428	0.000	91	513514	75.0	77.4	
85 4-Chlorobenzotrifluoride	180	10.483	10.483	0.000	96	245021	75.0	76.5	
86 1,1,1,2-Tetrachloroethane	131	10.520	10.520	0.000	87	138964	75.0	76.5	
87 Ethylbenzene	106	10.526	10.526	0.000	99	288675	75.0	77.2	
88 m-Xylene & p-Xylene	106	10.659	10.659	0.000	99	360561	75.0	77.7	
89 o-Xylene	106	11.037	11.037	0.000	98	364838	75.0	78.5	
90 Styrene	104	11.061	11.061	0.000	94	568513	75.0	79.7	
91 Bromoform	173	11.243	11.243	0.000	93	60348	75.0	74.2	
92 2-Chlorobenzotrifluoride	180	11.304	11.304	0.000	96	274773	75.0	77.7	
93 Isopropylbenzene	105	11.408	11.408	0.000	98	897341	75.0	80.7	
96 1,1,2,2-Tetrachloroethane	83	11.712	11.712	0.000	97	227964	75.0	76.4	
95 Bromobenzene	156	11.724	11.724	0.000	97	203181	75.0	75.6	
97 trans-1,4-Dichloro-2-buten	53	11.748	11.748	0.000	68	61474	75.0	72.1	
98 1,2,3-Trichloropropane	110	11.773	11.773	0.000	86	75371	75.0	73.7	
99 N-Propylbenzene	120	11.827	11.827	0.000	99	238465	75.0	77.0	
100 2-Chlorotoluene	126	11.913	11.913	0.000	93	197431	75.0	76.8	
101 3-Chlorotoluene	126	11.980	11.980	0.000	97	203636	75.0	75.4	

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	12.010	12.010	0.000	92	796704	75.0	79.1	
103 4-Chlorotoluene	126	12.034	12.034	0.000	99	208897	75.0	76.9	
104 tert-Butylbenzene	119	12.320	12.320	0.000	91	633351	75.0	79.6	
106 1,2,4-Trimethylbenzene	105	12.381	12.381	0.000	99	824147	75.0	80.1	
107 1,2-dichloro-4-(trifluorom	214	12.418	12.418	0.000	96	221955	75.0	76.1	
108 sec-Butylbenzene	105	12.545	12.545	0.000	96	958306	75.0	80.7	
109 1,3-Dichlorobenzene	146	12.667	12.667	0.000	93	397446	75.0	75.7	
110 4-Isopropyltoluene	119	12.703	12.703	0.000	96	804039	75.0	80.7	
111 1,4-Dichlorobenzene	146	12.770	12.770	0.000	92	407678	75.0	75.9	
113 2,4-Dichloro-1-(trifluorom	214	12.789	12.789	0.000	95	211084	75.0	72.8	
114 2,5-Dichlorobenzotrifluori	214	12.831	12.831	0.000	99	249633	75.0	77.0	
116 n-Butylbenzene	91	13.111	13.111	0.000	98	791496	75.0	79.6	
117 1,2-Dichlorobenzene	146	13.123	13.123	0.000	90	400593	75.0	75.6	
118 1,2-Dibromo-3-Chloropropan	75	13.914	13.920	-0.006	70	36339	75.0	74.7	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.060	14.060	0.000	98	1076776	225.0	233.3	
121 2,3- & 3,4- Dichlorotoluen	125	14.474	14.474	0.000	98	792789	150.0	155.7	
122 1,2,4-Trichlorobenzene	180	14.741	14.741	0.000	92	309817	75.0	75.4	
123 Hexachlorobutadiene	225	14.887	14.887	0.000	96	122376	75.0	75.6	
124 Naphthalene	128	15.003	15.003	0.000	99	654694	75.0	78.9	
125 1,2,3-Trichlorobenzene	180	15.228	15.228	0.000	93	286920	75.0	74.6	
126 2,4,5-Trichlorotoluene	159	16.007	16.007	0.000	0	198517	75.0	76.9	
127 2,3,6-Trichlorotoluene	159	16.110	16.110	0.000	93	186087	75.0	76.0	
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		150.0	151.1	
S 131 Xylenes, Total	106				0		150.0	156.2	
S 132 1,3-Dichloropropene, Total	1				0		150.0	158.5	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOA8260SURR_00039	Amount Added: 3.00	Units: uL	
voaWket1Reste_00001	Amount Added: 3.00	Units: uL	
voaWeemix1Res_00001	Amount Added: 3.00	Units: uL	
voaWVA1st Res_00003	Amount Added: 3.00	Units: uL	
VOA8260VOAPRI_00134	Amount Added: 3.00	Units: uL	
voaWAcro2nd R_00006	Amount Added: 7.00	Units: uL	
VOA8260INT_00039	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731006.D

Injection Date: 31-Jul-2015 14:49:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: IC VSTD15

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

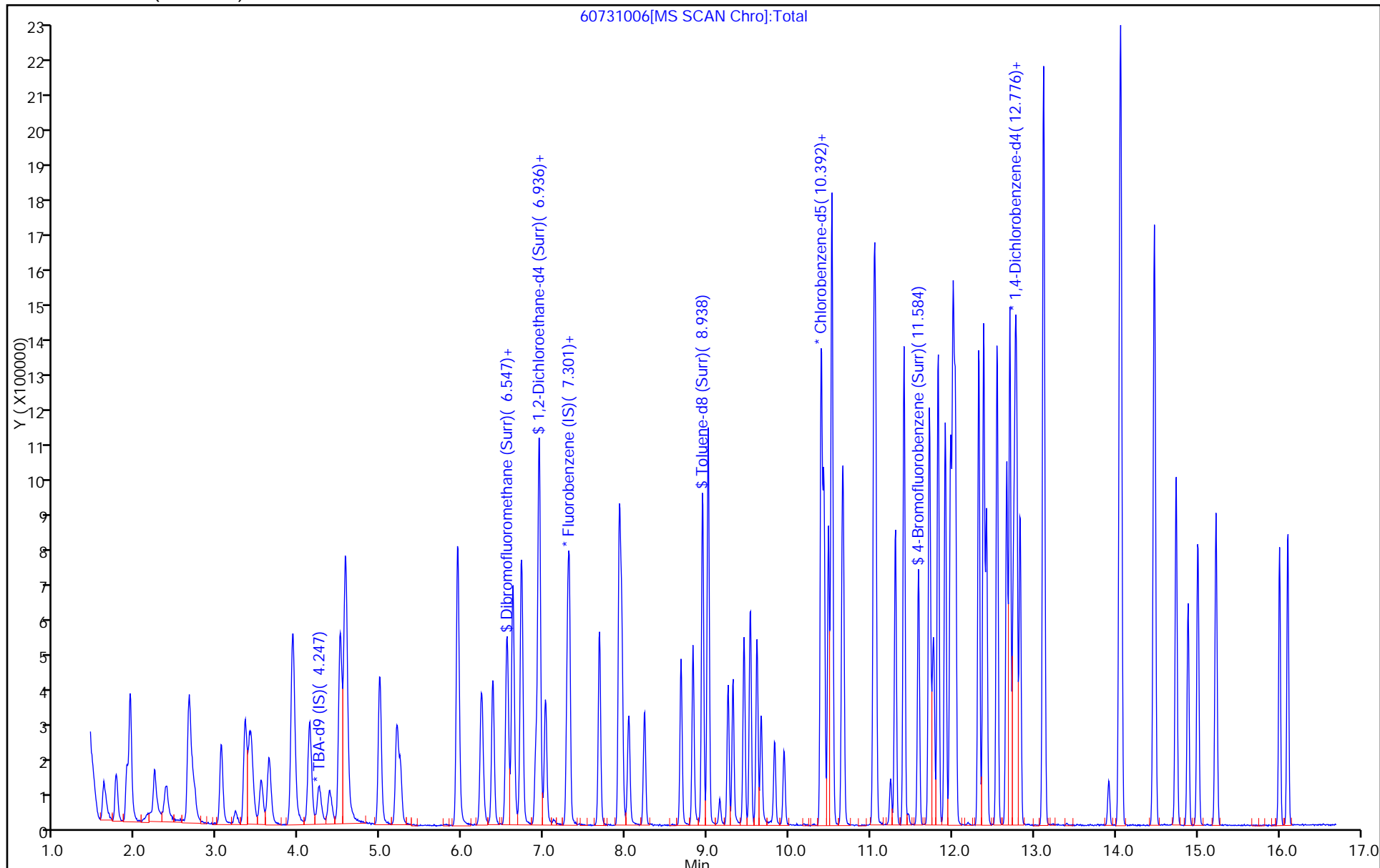
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731007.D
 Lims ID: IC VSTD20
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 31-Jul-2015 15:13:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD20
 Misc. Info.: 180-0007999-007
 Operator ID: 001562 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 03-Aug-2015 12:15:51 Calib Date: 31-Jul-2015 18:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK049

First Level Reviewer: fergusond

Date: 03-Aug-2015 10:27:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.241	4.247	-0.006	92	168874	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.283	7.289	-0.006	98	482403	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.398	0.000	91	110045	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.746	12.746	0.000	94	171338	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.553	6.553	0.000	93	221245	100.0	99.6	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.930	6.930	0.000	70	353626	100.0	98.6	
\$ 7 Toluene-d8 (Surr)	98	8.938	8.938	0.000	95	864751	100.0	99.6	
\$ 8 4-Bromofluorobenzene (Surr	95	11.584	11.584	0.000	81	371000	100.0	96.3	
11 Dichlorodifluoromethane	85	1.607	1.607	0.000	100	316945	100.0	94.9	
12 Chloromethane	50	1.759	1.759	0.000	99	278884	100.0	96.9	
13 Vinyl chloride	62	1.887	1.893	-0.006	99	292173	100.0	94.2	
14 Butadiene	39	1.930	1.930	0.000	90	274693	100.0	94.5	
15 Bromomethane	94	2.234	2.228	0.006	91	158589	100.0	94.7	
16 Chloroethane	64	2.368	2.374	-0.006	99	198857	100.0	93.9	
17 Dichlorofluoromethane	67	2.647	2.654	-0.007	98	463283	100.0	94.0	
18 Trichlorofluoromethane	101	2.672	2.678	-0.006	99	367084	100.0	93.4	
20 Ethyl ether	59	3.043	3.043	0.000	90	269465	100.0	96.8	
21 Acrolein	56	3.219	3.213	0.006	98	54177	200.0	178.4	
22 1,1-Dichloroethene	96	3.335	3.341	-0.006	96	234083	100.0	96.4	
23 1,1,2-Trichloro-1,2,2-trif	101	3.396	3.402	-0.006	96	241359	100.0	94.2	
24 Acetone	43	3.426	3.432	-0.006	99	166807	200.0	195.5	
25 Iodomethane	142	3.536	3.530	0.006	98	318736	100.0	97.8	
26 Carbon disulfide	76	3.633	3.633	0.000	100	618168	100.0	98.2	
29 3-Chloro-1-propene	76	3.907	3.913	-0.006	88	135273	100.0	98.8	
30 Methyl acetate	43	3.925	3.925	0.000	97	982363	500.0	490.9	
31 Methylene Chloride	84	4.132	4.132	0.000	92	313904	100.0	98.1	
32 2-Methyl-2-propanol	59	4.369	4.369	0.000	92	198055	1000.0	1042.2	
33 Acrylonitrile	53	4.503	4.497	0.006	99	994141	1000.0	985.4	
34 trans-1,2-Dichloroethene	96	4.564	4.564	0.000	97	267617	100.0	95.5	
35 Methyl tert-butyl ether	73	4.576	4.576	0.000	97	825760	100.0	98.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.983	4.990	-0.007	93	352983	100.0	93.0	
37 1,1-Dichloroethane	63	5.196	5.196	0.000	97	490563	100.0	97.8	
38 Vinyl acetate	43	5.239	5.239	0.000	97	412541	100.0	101.9	
43 cis-1,2-Dichloroethene	96	5.945	5.939	0.006	85	295290	100.0	96.9	
44 2-Butanone (MEK)	43	5.945	5.945	0.000	60	231667	200.0	198.9	
42 2,2-Dichloropropane	77	5.945	5.945	0.000	62	250901	100.0	98.9	
48 Chlorobromomethane	128	6.231	6.225	0.006	97	118290	100.0	96.6	
49 Tetrahydrofuran	42	6.249	6.237	0.012	85	154776	200.0	197.3	
50 Chloroform	83	6.370	6.371	-0.001	96	484585	100.0	97.3	
51 1,1,1-Trichloroethane	97	6.535	6.541	-0.006	98	366376	100.0	99.6	
52 Cyclohexane	56	6.614	6.620	-0.006	92	445084	100.0	94.4	
53 Carbon tetrachloride	117	6.717	6.717	0.000	98	252588	100.0	97.2	
54 1,1-Dichloropropene	75	6.729	6.730	-0.001	94	392146	100.0	99.1	
55 Isobutyl alcohol	41	6.900	6.900	0.000	92	178080	2500.0	2551.6	
56 Benzene	78	6.942	6.942	0.000	98	1096030	100.0	97.5	
57 1,2-Dichloroethane	62	7.015	7.015	0.000	99	440984	100.0	97.4	
59 n-Heptane	43	7.307	7.307	0.000	85	290327	100.0	95.0	
61 Trichloroethene	130	7.678	7.679	-0.001	93	230554	100.0	98.3	
63 Methylcyclohexane	83	7.922	7.922	0.000	91	455180	100.0	95.7	
64 1,2-Dichloropropane	63	7.952	7.952	0.000	94	267345	100.0	99.5	
65 1,4-Dioxane	88	8.031	8.031	0.000	41	54577	2000.0	2058.6	M
67 Dibromomethane	93	8.037	8.037	0.000	92	163719	100.0	100.4	
68 Dichlorobromomethane	83	8.232	8.226	0.006	99	311750	100.0	101.7	
71 cis-1,3-Dichloropropene	75	8.676	8.676	0.000	93	358605	100.0	106.5	
72 4-Methyl-2-pentanone (MIBK)	43	8.822	8.822	0.000	95	452681	200.0	200.1	
73 Toluene	91	9.011	9.011	0.000	98	1104648	100.0	97.3	
74 trans-1,3-Dichloropropene	75	9.254	9.254	0.000	97	303226	100.0	105.2	
75 Ethyl methacrylate	69	9.315	9.315	0.000	88	326852	100.0	106.8	
76 1,1,2-Trichloroethane	97	9.449	9.449	0.000	95	224945	100.0	95.8	
77 Tetrachloroethene	164	9.528	9.528	0.000	94	183568	100.0	94.8	
78 1,3-Dichloropropane	76	9.607	9.607	0.000	92	425660	100.0	98.1	
79 2-Hexanone	43	9.656	9.656	0.000	95	302805	200.0	203.8	
81 Chlorodibromomethane	129	9.826	9.826	0.000	90	163175	100.0	101.8	
82 Ethylene Dibromide	107	9.941	9.936	0.005	96	211303	100.0	101.7	
83 3-Chlorobenzotrifluoride	180	10.392	10.392	0.000	91	340769	100.0	93.7	
84 Chlorobenzene	112	10.428	10.428	0.000	91	676590	100.0	96.9	
85 4-Chlorobenzotrifluoride	180	10.483	10.483	0.000	96	315960	100.0	93.8	
86 1,1,1,2-Tetrachloroethane	131	10.525	10.520	0.005	88	192497	100.0	100.6	
87 Ethylbenzene	106	10.525	10.526	-0.001	99	383099	100.0	97.3	
88 m-Xylene & p-Xylene	106	10.659	10.659	0.000	100	480587	100.0	98.4	
89 o-Xylene	106	11.036	11.037	-0.001	98	484093	100.0	99.0	
90 Styrene	104	11.061	11.061	0.000	94	752806	100.0	100.3	
91 Bromoform	173	11.243	11.243	0.000	93	85498	100.0	99.9	
92 2-Chlorobenzotrifluoride	180	11.304	11.304	0.000	93	350232	100.0	94.1	
93 Isopropylbenzene	105	11.408	11.408	0.000	98	1146617	100.0	98.0	
96 1,1,2,2-Tetrachloroethane	83	11.718	11.712	0.006	96	304710	100.0	97.0	
95 Bromobenzene	156	11.724	11.724	0.000	97	276525	100.0	100.4	
97 trans-1,4-Dichloro-2-buten	53	11.748	11.748	0.000	80	87362	100.0	100.0	
98 1,2,3-Trichloropropane	110	11.773	11.773	0.000	86	102213	100.0	97.6	
99 N-Propylbenzene	120	11.827	11.827	0.000	98	317924	100.0	100.2	
100 2-Chlorotoluene	126	11.913	11.913	-0.001	93	265955	100.0	101.0	
101 3-Chlorotoluene	126	11.979	11.980	-0.001	97	282386	100.0	102.1	

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	12.010	12.010	0.000	94	1031152	100.0	100.0	
103 4-Chlorotoluene	126	12.034	12.034	0.000	100	278435	100.0	100.1	
104 tert-Butylbenzene	119	12.326	12.320	0.006	91	820194	100.0	100.6	
106 1,2,4-Trimethylbenzene	105	12.381	12.381	0.000	99	1075766	100.0	102.0	
107 1,2-dichloro-4-(trifluorom	214	12.417	12.418	-0.001	95	280215	100.0	93.8	
108 sec-Butylbenzene	105	12.545	12.545	0.000	97	1226548	100.0	100.8	
109 1,3-Dichlorobenzene	146	12.667	12.667	0.000	93	528372	100.0	98.2	
110 4-Isopropyltoluene	119	12.703	12.703	0.000	95	1043904	100.0	102.3	
111 1,4-Dichlorobenzene	146	12.770	12.770	0.000	90	543357	100.0	98.8	
113 2,4-Dichloro-1-(trifluorom	214	12.789	12.789	0.000	97	297534	100.0	100.1	
114 2,5-Dichlorobenzotrifluori	214	12.831	12.831	0.000	98	301973	100.0	91.0	
116 n-Butylbenzene	91	13.111	13.111	0.000	97	1018212	100.0	99.9	
117 1,2-Dichlorobenzene	146	13.123	13.123	0.000	92	525918	100.0	96.8	
118 1,2-Dibromo-3-Chloropropan	75	13.914	13.920	-0.006	68	49062	100.0	98.5	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.060	14.060	0.000	98	1401616	300.0	296.5	
121 2,3- & 3,4- Dichlorotoluen	125	14.474	14.474	0.000	98	1039069	200.0	199.2	
122 1,2,4-Trichlorobenzene	180	14.741	14.741	0.000	92	415442	100.0	98.7	
123 Hexachlorobutadiene	225	14.887	14.887	0.000	97	161228	100.0	97.2	
124 Naphthalene	128	15.003	15.003	0.000	99	876449	100.0	103.2	
125 1,2,3-Trichlorobenzene	180	15.228	15.228	0.000	92	385220	100.0	97.8	
126 2,4,5-Trichlorotoluene	159	16.007	16.007	0.000	0	266093	100.0	100.6	
127 2,3,6-Trichlorotoluene	159	16.110	16.110	0.000	93	248497	100.0	99.0	
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		200.0	192.4	
S 131 Xylenes, Total	106				0		200.0	197.4	
S 132 1,3-Dichloropropene, Total	1				0		200.0	211.7	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00039	Amount Added: 4.00	Units: uL	
voaWket1Reste_00001	Amount Added: 4.00	Units: uL	
voaWeemix1Res_00001	Amount Added: 4.00	Units: uL	
voaWVA1st Res_00003	Amount Added: 4.00	Units: uL	
VOA8260VOAPRI_00134	Amount Added: 4.00	Units: uL	
voaWAcro2nd R_00006	Amount Added: 8.00	Units: uL	
VOA8260INT_00039	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731007.D

Injection Date: 31-Jul-2015 15:13:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: IC VSTD20

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

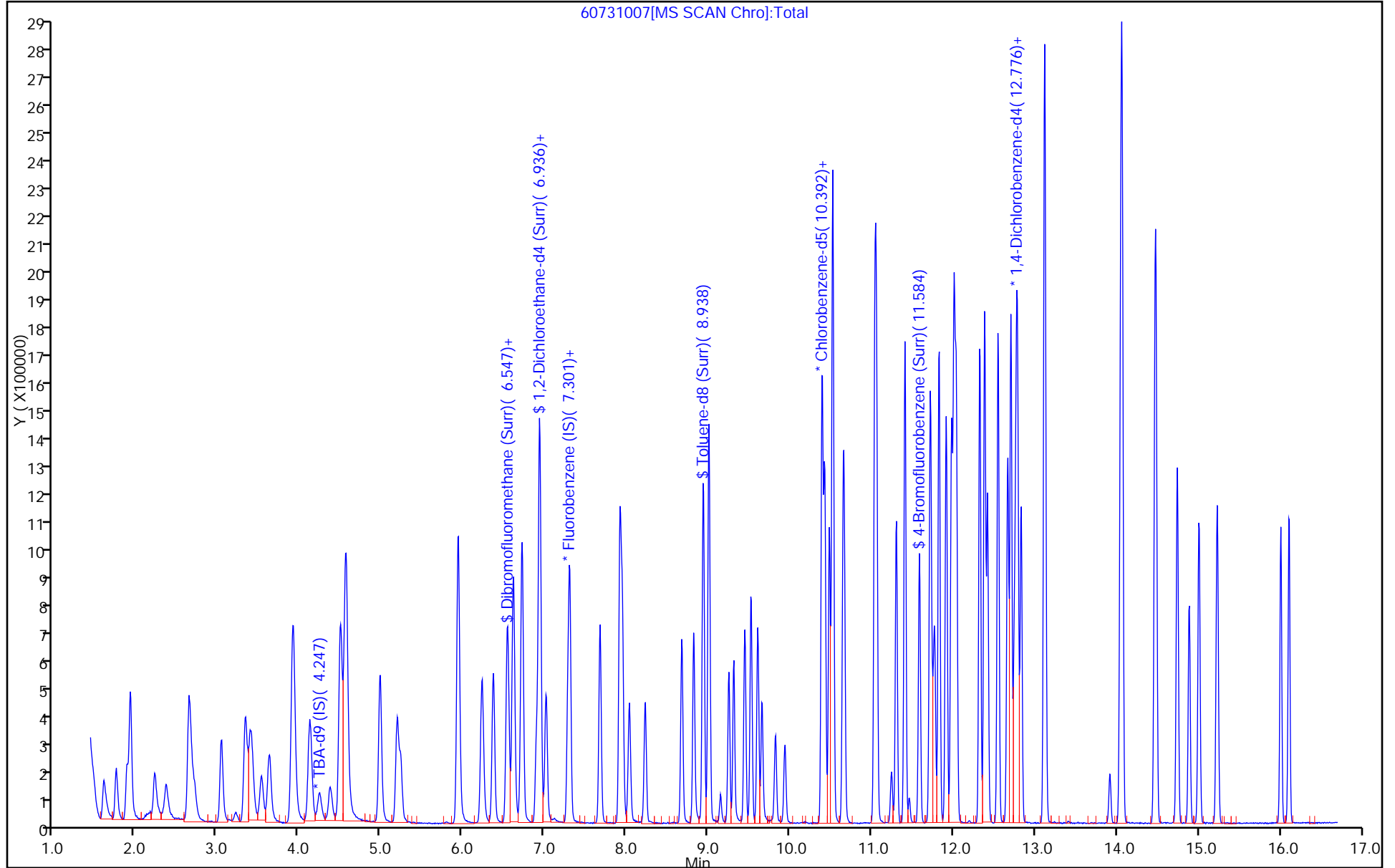
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



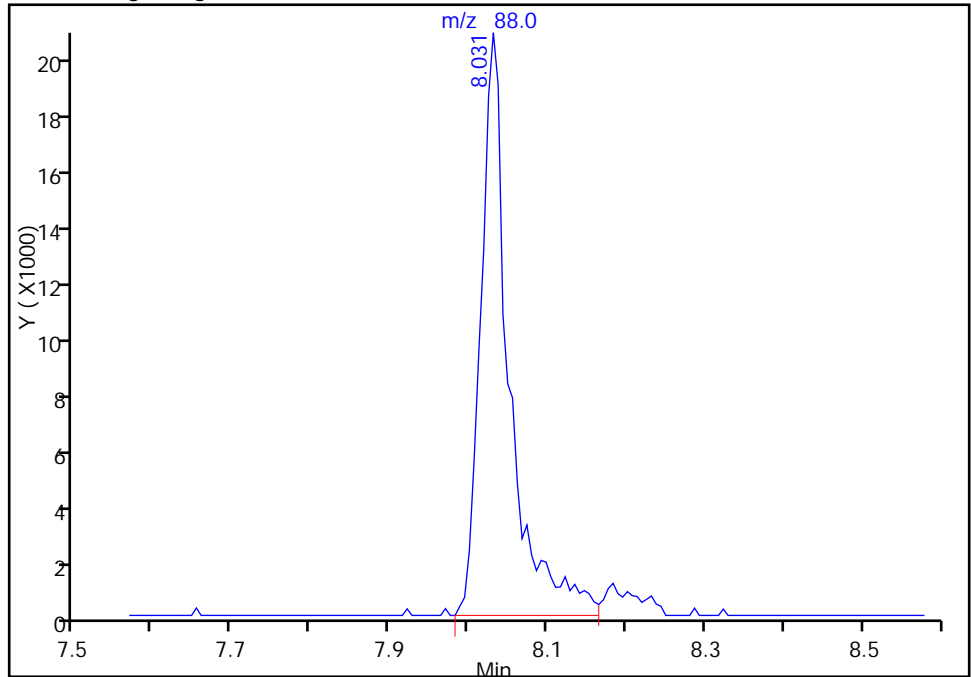
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731007.D
Injection Date: 31-Jul-2015 15:13:30 Instrument ID: CHHP6
Lims ID: IC VSTD20
Client ID:
Operator ID: 001562 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

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

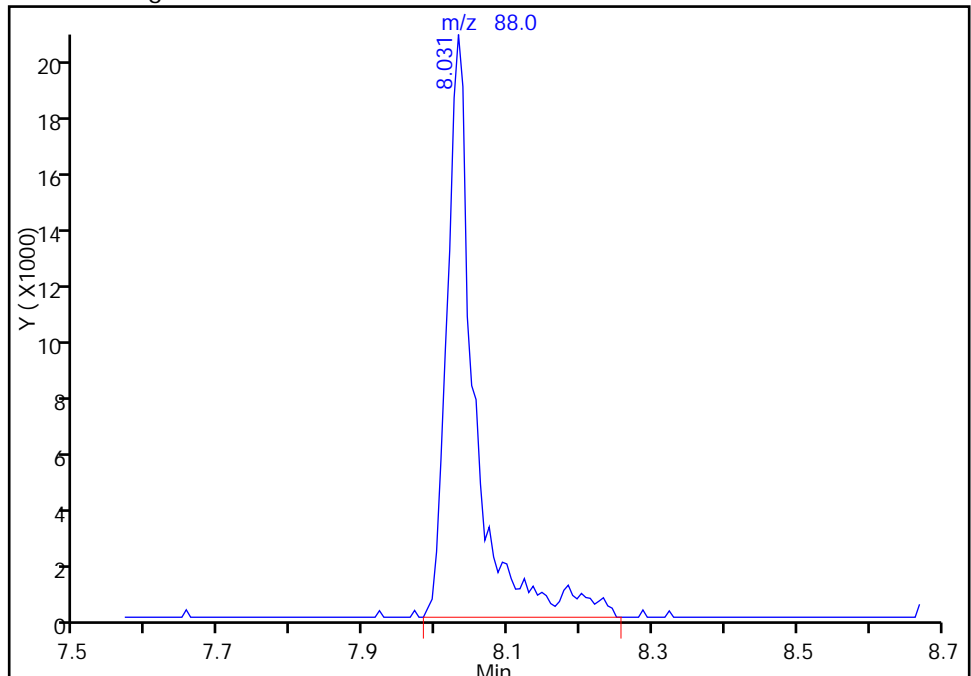
RT: 8.03
Area: 51451
Amount: 1915.4354
Amount Units: ng

Processing Integration Results



RT: 8.03
Area: 54577
Amount: 2058.6297
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 03-Aug-2015 10:27:52
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731008.D
 Lims ID: IC VSTD35
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 31-Jul-2015 15:37:30 ALS Bottle#: 8 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD35
 Misc. Info.: 180-0007999-008
 Operator ID: 001562 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 03-Aug-2015 12:16:01 Calib Date: 31-Jul-2015 18:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK049

First Level Reviewer: fergusond

Date: 31-Jul-2015 16:23:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.254	4.247	0.007	92	191694	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.283	7.289	-0.006	98	474812	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.398	0.000	91	108350	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.746	12.746	0.000	96	164628	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.553	6.553	0.000	92	378487	175.0	173.1	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.930	0.001	71	595019	175.0	168.6	
\$ 7 Toluene-d8 (Surr)	98	8.938	8.938	0.000	94	1415164	175.0	165.6	
\$ 8 4-Bromofluorobenzene (Surr	95	11.584	11.584	0.000	80	645419	175.0	170.1	
11 Dichlorodifluoromethane	85	1.601	1.607	-0.006	99	575043	175.0	174.9	
12 Chloromethane	50	1.754	1.759	-0.005	99	470953	175.0	166.2	
13 Vinyl chloride	62	1.887	1.893	-0.006	99	517410	175.0	169.5	
14 Butadiene	39	1.924	1.930	-0.006	90	483297	175.0	168.9	
15 Bromomethane	94	2.222	2.228	-0.006	90	248522	175.0	150.8	
16 Chloroethane	64	2.356	2.374	-0.018	99	359701	175.0	172.7	
17 Dichlorofluoromethane	67	2.642	2.654	-0.012	97	819476	175.0	169.0	
18 Trichlorofluoromethane	101	2.654	2.678	-0.024	76	664854	175.0	171.9	
20 Ethyl ether	59	3.043	3.043	0.000	89	458021	175.0	167.1	
21 Acrolein	56	3.220	3.213	0.007	99	68050	225.0	227.6	
22 1,1-Dichloroethene	96	3.335	3.341	-0.006	96	411177	175.0	172.0	
23 1,1,2-Trichloro-1,2,2-trif	101	3.390	3.402	-0.012	95	446711	175.0	177.0	
24 Acetone	43	3.426	3.432	-0.006	100	284563	350.0	338.8	
25 Iodomethane	142	3.536	3.530	0.006	99	566533	175.0	176.6	
26 Carbon disulfide	76	3.627	3.633	-0.006	100	1151644	175.0	185.9	
29 3-Chloro-1-propene	76	3.913	3.913	0.000	89	257112	175.0	190.8	
30 Methyl acetate	43	3.925	3.925	0.000	96	1680300	875.0	853.1	
31 Methylene Chloride	84	4.132	4.132	0.000	91	527474	175.0	171.5	
32 2-Methyl-2-propanol	59	4.382	4.369	0.013	93	354063	1750.0	1641.3	
33 Acrylonitrile	53	4.503	4.497	0.006	98	1745686	1750.0	1758.1	
34 trans-1,2-Dichloroethene	96	4.558	4.564	-0.006	98	479327	175.0	173.8	
35 Methyl tert-butyl ether	73	4.570	4.576	-0.006	97	1455878	175.0	176.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.984	4.990	-0.006	92	669795	175.0	179.2	
37 1,1-Dichloroethane	63	5.191	5.196	-0.005	97	861981	175.0	174.6	
38 Vinyl acetate	43	5.239	5.239	0.000	97	744628	175.0	186.8	
43 cis-1,2-Dichloroethene	96	5.939	5.939	0.000	87	520777	175.0	173.6	
44 2-Butanone (MEK)	43	5.945	5.945	0.000	87	412307	350.0	359.6	
42 2,2-Dichloropropane	77	5.945	5.945	0.000	79	484574	175.0	194.1	
48 Chlorobromomethane	128	6.231	6.225	0.006	97	209995	175.0	174.3	
49 Tetrahydrofuran	42	6.249	6.237	0.012	86	277489	350.0	359.4	
50 Chloroform	83	6.371	6.371	0.000	94	847765	175.0	173.0	
51 1,1,1-Trichloroethane	97	6.535	6.541	-0.006	97	659562	175.0	182.1	
52 Cyclohexane	56	6.614	6.620	-0.006	92	834057	175.0	179.7	
53 Carbon tetrachloride	117	6.718	6.717	0.001	97	479558	175.0	187.5	
54 1,1-Dichloropropene	75	6.724	6.730	-0.006	95	675711	175.0	173.5	
55 Isobutyl alcohol	41	6.900	6.900	0.000	89	326401	4375.0	4751.5	
56 Benzene	78	6.943	6.942	0.001	98	1836424	175.0	166.0	
57 1,2-Dichloroethane	62	7.016	7.015	0.001	98	746328	175.0	167.4	
59 n-Heptane	43	7.308	7.307	0.001	86	526126	175.0	174.9	
61 Trichloroethene	130	7.679	7.679	0.000	93	405251	175.0	175.6	
63 Methylcyclohexane	83	7.922	7.922	0.000	91	834543	175.0	178.2	
64 1,2-Dichloropropane	63	7.953	7.952	0.001	86	455391	175.0	172.3	
65 1,4-Dioxane	88	8.032	8.031	0.001	47	98136	3500.0	3760.8	M
67 Dibromomethane	93	8.038	8.037	0.001	92	283101	175.0	176.4	
68 Dichlorobromomethane	83	8.226	8.226	0.000	98	551929	175.0	183.0	
71 cis-1,3-Dichloropropene	75	8.677	8.676	0.001	93	650196	175.0	196.2	
72 4-Methyl-2-pentanone (MIBK)	43	8.823	8.822	0.001	93	808342	350.0	362.9	
73 Toluene	91	9.011	9.011	0.000	98	1802740	175.0	161.2	
74 trans-1,3-Dichloropropene	75	9.254	9.254	0.000	96	565592	175.0	199.3	
75 Ethyl methacrylate	69	9.315	9.315	0.000	87	580427	175.0	192.5	
76 1,1,2-Trichloroethane	97	9.449	9.449	0.000	94	391776	175.0	169.4	
77 Tetrachloroethene	164	9.528	9.528	0.000	95	319955	175.0	167.8	
78 1,3-Dichloropropane	76	9.607	9.607	0.000	93	717566	175.0	168.0	
79 2-Hexanone	43	9.656	9.656	0.000	94	534519	350.0	365.4	
81 Chlorodibromomethane	129	9.820	9.826	-0.006	90	301710	175.0	191.2	
82 Ethylene Dibromide	107	9.936	9.936	0.000	97	363449	175.0	177.6	
83 3-Chlorobenzotrifluoride	180	10.392	10.392	0.000	92	600793	175.0	167.8	
84 Chlorobenzene	112	10.429	10.428	0.001	89	1142353	175.0	166.2	
85 4-Chlorobenzotrifluoride	180	10.483	10.483	0.000	96	570403	175.0	171.9	
86 1,1,1,2-Tetrachloroethane	131	10.520	10.520	0.000	89	349368	175.0	185.5	
87 Ethylbenzene	106	10.526	10.526	0.000	98	663577	175.0	171.2	
88 m-Xylene & p-Xylene	106	10.660	10.659	0.001	99	823294	175.0	171.1	
89 o-Xylene	106	11.037	11.037	0.000	96	833629	175.0	173.2	
90 Styrene	104	11.061	11.061	0.000	92	1289309	175.0	174.4	
91 Bromoform	173	11.244	11.243	0.001	93	160966	175.0	191.1	
92 2-Chlorobenzotrifluoride	180	11.305	11.304	0.001	94	628216	175.0	171.3	
93 Isopropylbenzene	105	11.408	11.408	0.000	99	1921153	175.0	166.8	
96 1,1,2,2-Tetrachloroethane	83	11.712	11.712	0.000	96	532593	175.0	172.2	
95 Bromobenzene	156	11.724	11.724	0.000	98	459843	175.0	173.7	
97 trans-1,4-Dichloro-2-buten	53	11.749	11.748	0.001	80	160304	175.0	191.0	
98 1,2,3-Trichloropropane	110	11.773	11.773	0.000	84	178317	175.0	177.2	
99 N-Propylbenzene	120	11.828	11.827	0.001	98	554932	175.0	182.1	
100 2-Chlorotoluene	126	11.913	11.913	0.000	93	446590	175.0	176.5	
101 3-Chlorotoluene	126	11.980	11.980	0.000	96	485130	175.0	182.5	

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	12.010	12.010	0.000	93	1730016	175.0	174.6	
103 4-Chlorotoluene	126	12.041	12.034	0.007	100	464650	175.0	173.8	
104 tert-Butylbenzene	119	12.327	12.320	0.007	90	1405341	175.0	179.5	
106 1,2,4-Trimethylbenzene	105	12.381	12.381	0.000	98	1786151	175.0	176.3	
107 1,2-dichloro-4-(trifluorom	214	12.418	12.418	0.000	95	509173	175.0	177.4	
108 sec-Butylbenzene	105	12.546	12.545	0.001	97	2038837	175.0	174.4	
109 1,3-Dichlorobenzene	146	12.667	12.667	0.000	92	886632	175.0	171.5	
110 4-Isopropyltoluene	119	12.704	12.703	0.001	94	1736569	175.0	177.1	
111 1,4-Dichlorobenzene	146	12.771	12.770	0.001	92	902441	175.0	170.8	
113 2,4-Dichloro-1-(trifluorom	214	12.789	12.789	0.000	94	534909	175.0	187.3	
114 2,5-Dichlorobenzotrifluori	214	12.832	12.831	0.001	96	537191	175.0	168.4	
116 n-Butylbenzene	91	13.111	13.111	0.000	97	1734264	175.0	177.1	
117 1,2-Dichlorobenzene	146	13.124	13.123	0.001	89	899668	175.0	172.4	
118 1,2-Dibromo-3-Chloropropan	75	13.914	13.920	-0.006	71	96376	175.0	201.4	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.060	14.060	0.000	95	2390336	525.0	526.2	
121 2,3- & 3,4- Dichlorotoluen	125	14.474	14.474	0.000	97	1797097	350.0	358.5	
122 1,2,4-Trichlorobenzene	180	14.742	14.741	0.001	92	726756	175.0	179.7	
123 Hexachlorobutadiene	225	14.888	14.887	0.001	97	290426	175.0	182.3	
124 Naphthalene	128	15.003	15.003	0.000	99	1550041	175.0	189.9	
125 1,2,3-Trichlorobenzene	180	15.228	15.228	0.000	93	673533	175.0	178.0	
126 2,4,5-Trichlorotoluene	159	16.007	16.007	0.000	0	490754	175.0	193.1	
127 2,3,6-Trichlorotoluene	159	16.111	16.110	0.000	94	460224	175.0	190.9	
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	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		350.0	347.4	
S 131 Xylenes, Total	106				0		350.0	344.3	
S 132 1,3-Dichloropropene, Total	1				0		350.0	395.5	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00039	Amount Added: 7.00	Units: uL	
voaWket1Reste_00001	Amount Added: 7.00	Units: uL	
voaWeemix1Res_00001	Amount Added: 7.00	Units: uL	
VOA8260VOAPRI_00134	Amount Added: 7.00	Units: uL	
voaWVA1st Res_00003	Amount Added: 7.00	Units: uL	
voaWAcro2nd R_00006	Amount Added: 9.00	Units: uL	
VOA8260INT_00039	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731008.D

Injection Date: 31-Jul-2015 15:37:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: IC VSTD35

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

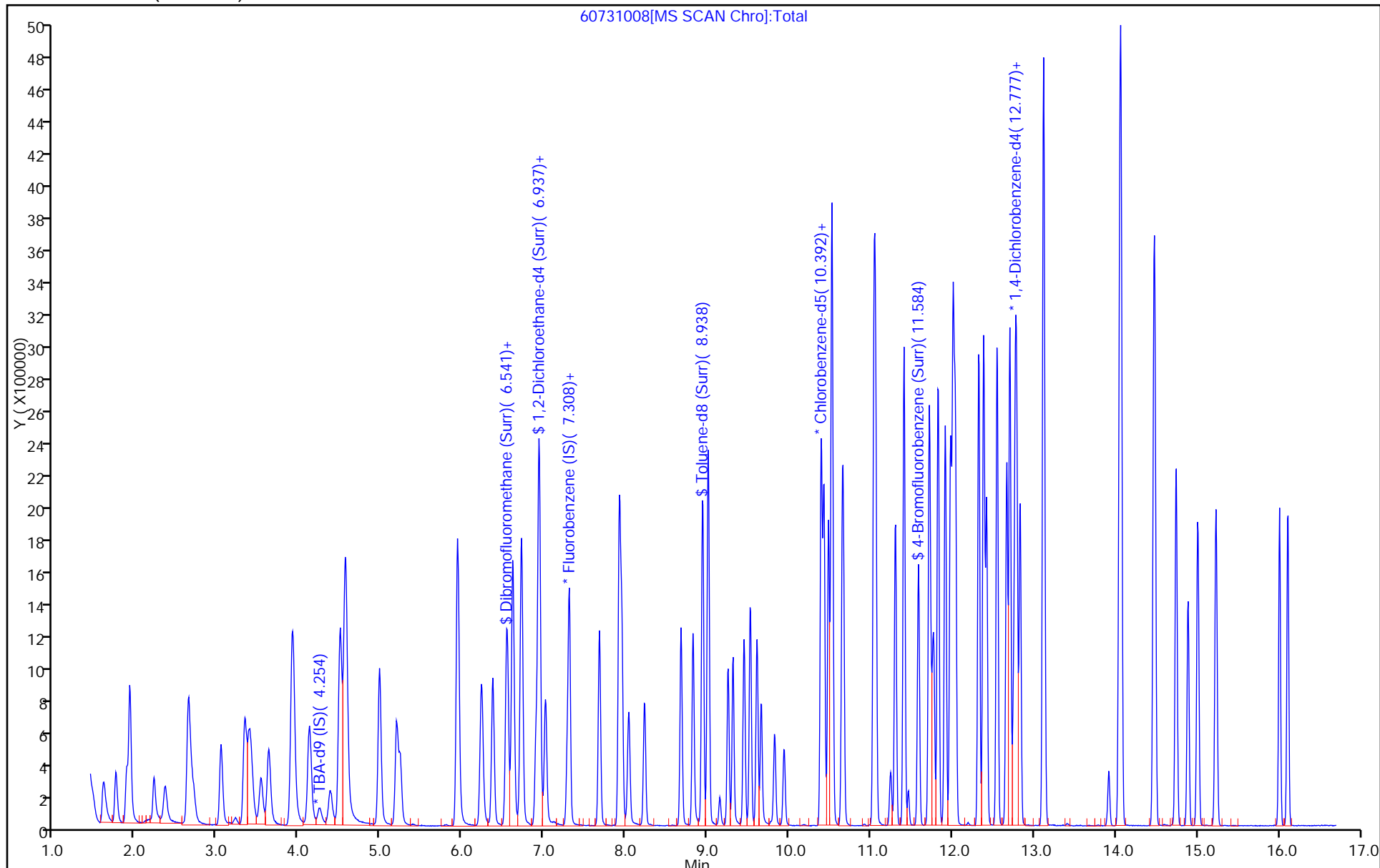
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



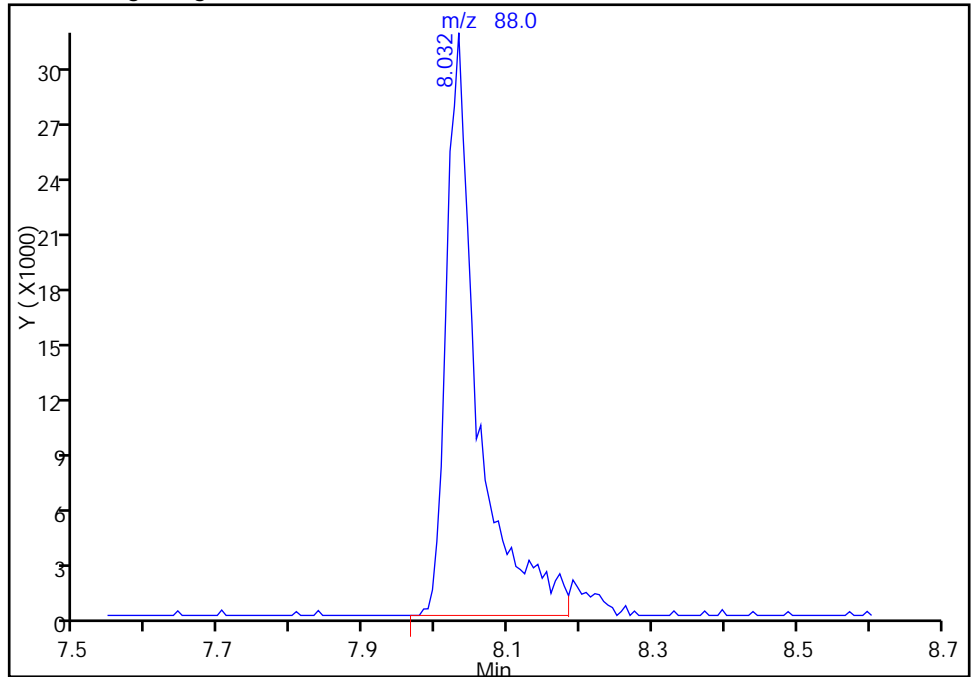
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731008.D
Injection Date: 31-Jul-2015 15:37:30 Instrument ID: CHHP6
Lims ID: IC VSTD35
Client ID:
Operator ID: 001562 ALS Bottle#: 8 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

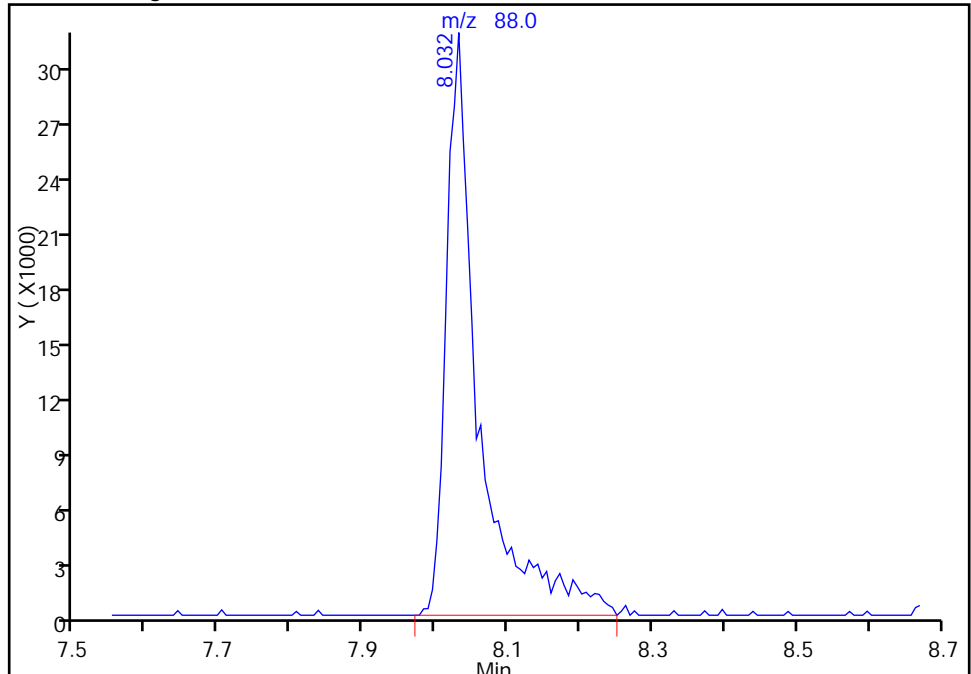
RT: 8.03
Area: 94184
Amount: 3581.4908
Amount Units: ng

Processing Integration Results



RT: 8.03
Area: 98136
Amount: 3760.8433
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 03-Aug-2015 10:13:21
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731009.D
 Lims ID: IC VSTD40
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 31-Jul-2015 16:01:30 ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD40
 Misc. Info.: 180-0007999-009
 Operator ID: 001562 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 03-Aug-2015 12:16:10 Calib Date: 31-Jul-2015 18:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK049

First Level Reviewer: fergusond

Date: 03-Aug-2015 10:06:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.253	4.247	0.006	92	190170	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.289	0.000	98	446456	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.398	0.000	89	103508	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.746	12.746	0.000	95	159598	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.553	6.553	0.000	92	428779	200.0	208.5	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.930	6.930	0.000	72	668015	200.0	201.4	
\$ 7 Toluene-d8 (Surr)	98	8.944	8.938	0.006	94	1563368	200.0	191.5	
\$ 8 4-Bromofluorobenzene (Surr	95	11.584	11.584	0.000	81	722308	200.0	199.3	
11 Dichlorodifluoromethane	85	1.613	1.607	0.006	99	636192	200.0	205.8	
12 Chloromethane	50	1.759	1.759	0.000	99	522516	200.0	196.1	
13 Vinyl chloride	62	1.893	1.893	0.000	98	585198	200.0	203.9	
14 Butadiene	39	1.935	1.930	0.005	92	538199	200.0	200.0	
15 Bromomethane	94	2.233	2.228	0.005	91	263364	200.0	170.0	
16 Chloroethane	64	2.373	2.374	-0.001	99	402907	200.0	205.7	
17 Dichlorofluoromethane	67	2.647	2.654	-0.007	98	899692	200.0	197.3	
18 Trichlorofluoromethane	101	2.672	2.678	-0.006	99	726249	200.0	199.7	
20 Ethyl ether	59	3.049	3.043	0.006	89	523507	200.0	203.1	
21 Acrolein	56	3.225	3.213	0.012	96	76429	250.0	271.9	
22 1,1-Dichloroethene	96	3.341	3.341	0.000	99	476887	200.0	212.2	
23 1,1,2-Trichloro-1,2,2-trif	101	3.395	3.402	-0.007	95	481169	200.0	202.8	
24 Acetone	43	3.432	3.432	0.000	100	317270	400.0	401.7	
25 Iodomethane	142	3.529	3.530	-0.001	99	655616	200.0	217.3	
26 Carbon disulfide	76	3.627	3.633	-0.006	100	1330649	200.0	228.5	
29 3-Chloro-1-propene	76	3.906	3.913	-0.007	88	293887	200.0	231.9	
30 Methyl acetate	43	3.925	3.925	0.000	96	1914014	1000.0	1033.4	
31 Methylene Chloride	84	4.125	4.132	-0.007	91	611401	200.0	212.7	
32 2-Methyl-2-propanol	59	4.381	4.369	0.012	93	426462	2000.0	1992.8	
33 Acrylonitrile	53	4.503	4.497	0.006	97	1961872	2000.0	2101.3	
34 trans-1,2-Dichloroethene	96	4.563	4.564	-0.001	97	548086	200.0	211.3	
35 Methyl tert-butyl ether	73	4.576	4.576	0.000	98	1687770	200.0	217.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.989	4.990	-0.001	91	736641	200.0	209.6	
37 1,1-Dichloroethane	63	5.196	5.196	0.000	97	980644	200.0	211.2	
38 Vinyl acetate	43	5.239	5.239	0.000	97	867464	200.0	231.4	
43 cis-1,2-Dichloroethene	96	5.944	5.939	0.005	85	595718	200.0	211.2	
44 2-Butanone (MEK)	43	5.944	5.945	-0.001	98	470276	400.0	436.3	
42 2,2-Dichloropropane	77	5.944	5.945	-0.001	66	535345	200.0	228.0	
48 Chlorobromomethane	128	6.230	6.225	0.005	97	240962	200.0	212.7	
49 Tetrahydrofuran	42	6.243	6.237	0.005	83	305718	400.0	421.1	
50 Chloroform	83	6.376	6.371	0.005	94	959266	200.0	208.2	
51 1,1,1-Trichloroethane	97	6.541	6.541	0.000	98	756837	200.0	222.3	
52 Cyclohexane	56	6.620	6.620	0.000	92	919827	200.0	210.8	
53 Carbon tetrachloride	117	6.717	6.717	0.000	97	536127	200.0	222.9	
54 1,1-Dichloropropene	75	6.729	6.730	-0.001	94	765806	200.0	209.1	
55 Isobutyl alcohol	41	6.906	6.900	0.006	92	375937	5000.0	5820.2	
56 Benzene	78	6.942	6.942	0.000	99	2066671	200.0	198.6	
57 1,2-Dichloroethane	62	7.015	7.015	0.000	98	855052	200.0	204.0	
59 n-Heptane	43	7.307	7.307	0.000	87	588643	200.0	208.1	
61 Trichloroethene	130	7.678	7.679	-0.001	92	460676	200.0	212.3	
63 Methylcyclohexane	83	7.922	7.922	0.000	91	915285	200.0	207.8	
64 1,2-Dichloropropane	63	7.952	7.952	0.000	84	521174	200.0	209.7	
65 1,4-Dioxane	88	8.031	8.031	0.000	44	114196	4000.0	4654.3	M
67 Dibromomethane	93	8.037	8.037	0.000	92	323060	200.0	214.0	
68 Dichlorobromomethane	83	8.232	8.226	0.006	99	646107	200.0	227.8	
71 cis-1,3-Dichloropropene	75	8.676	8.676	0.000	94	745866	200.0	239.4	
72 4-Methyl-2-pentanone (MIBK)	43	8.822	8.822	0.000	93	947711	400.0	445.4	
73 Toluene	91	9.010	9.011	-0.001	97	2002822	200.0	187.5	
74 trans-1,3-Dichloropropene	75	9.254	9.254	0.000	96	639831	200.0	236.0	
75 Ethyl methacrylate	69	9.315	9.315	0.000	88	671187	200.0	233.1	
76 1,1,2-Trichloroethane	97	9.448	9.449	-0.001	94	447467	200.0	202.6	
77 Tetrachloroethene	164	9.528	9.528	0.000	93	357911	200.0	196.5	
78 1,3-Dichloropropane	76	9.607	9.607	0.000	93	805963	200.0	197.5	
79 2-Hexanone	43	9.655	9.656	-0.001	95	604727	400.0	432.8	
81 Chlorodibromomethane	129	9.826	9.826	0.000	91	351983	200.0	233.5	
82 Ethylene Dibromide	107	9.941	9.936	0.005	98	414395	200.0	212.0	
83 3-Chlorobenzotrifluoride	180	10.398	10.392	0.006	93	658293	200.0	192.5	
84 Chlorobenzene	112	10.428	10.428	0.000	90	1270819	200.0	193.6	
85 4-Chlorobenzotrifluoride	180	10.483	10.483	0.000	96	626628	200.0	197.7	
86 1,1,1,2-Tetrachloroethane	131	10.519	10.520	-0.001	90	410261	200.0	228.0	
87 Ethylbenzene	106	10.525	10.526	-0.001	98	745552	200.0	201.3	
88 m-Xylene & p-Xylene	106	10.659	10.659	0.000	99	922542	200.0	200.7	
89 o-Xylene	106	11.042	11.037	0.005	96	942660	200.0	205.0	
90 Styrene	104	11.061	11.061	0.000	91	1451301	200.0	205.5	
91 Bromoform	173	11.243	11.243	0.000	93	188413	200.0	234.1	
92 2-Chlorobenzotrifluoride	180	11.304	11.304	0.000	94	695569	200.0	198.6	
93 Isopropylbenzene	105	11.407	11.408	-0.001	99	2143689	200.0	194.9	
96 1,1,2,2-Tetrachloroethane	83	11.712	11.712	0.000	97	595171	200.0	201.4	
95 Bromobenzene	156	11.724	11.724	0.000	98	533334	200.0	207.9	
97 trans-1,4-Dichloro-2-buten	53	11.754	11.748	0.006	78	183338	200.0	225.3	
98 1,2,3-Trichloropropane	110	11.772	11.773	-0.001	84	202262	200.0	207.3	
99 N-Propylbenzene	120	11.827	11.827	0.000	98	613443	200.0	207.6	
100 2-Chlorotoluene	126	11.912	11.913	-0.001	93	510216	200.0	208.0	
101 3-Chlorotoluene	126	11.979	11.980	-0.001	97	532252	200.0	206.6	

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	12.010	12.010	0.000	94	1945327	200.0	202.5	
103 4-Chlorotoluene	126	12.040	12.034	0.006	100	540303	200.0	208.5	
104 tert-Butylbenzene	119	12.326	12.320	0.006	90	1580824	200.0	208.2	
106 1,2,4-Trimethylbenzene	105	12.381	12.381	0.000	98	2003823	200.0	204.0	
107 1,2-dichloro-4-(trifluorom	214	12.423	12.418	0.005	96	562570	200.0	202.1	
108 sec-Butylbenzene	105	12.551	12.545	0.006	97	2257148	200.0	199.2	
109 1,3-Dichlorobenzene	146	12.667	12.667	0.000	92	1017363	200.0	203.0	
110 4-Isopropyltoluene	119	12.703	12.703	0.000	94	1952987	200.0	205.4	
111 1,4-Dichlorobenzene	146	12.770	12.770	0.000	91	1040432	200.0	203.1	
113 2,4-Dichloro-1-(trifluorom	214	12.788	12.789	-0.001	93	585295	200.0	211.4	
114 2,5-Dichlorobenzotrifluori	214	12.831	12.831	0.000	97	604585	200.0	195.5	
116 n-Butylbenzene	91	13.111	13.111	0.000	96	1931969	200.0	203.5	
117 1,2-Dichlorobenzene	146	13.123	13.123	0.000	93	1013269	200.0	200.2	
118 1,2-Dibromo-3-Chloropropan	75	13.914	13.920	-0.006	74	111156	200.0	239.6	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.060	14.060	0.000	95	2621988	600.0	595.4	
121 2,3- & 3,4- Dichlorotoluen	125	14.473	14.474	-0.001	96	1989024	400.0	409.3	
122 1,2,4-Trichlorobenzene	180	14.741	14.741	0.000	92	829845	200.0	211.6	
123 Hexachlorobutadiene	225	14.887	14.887	0.000	97	324236	200.0	209.9	
124 Naphthalene	128	15.009	15.003	0.006	99	1744010	200.0	220.4	
125 1,2,3-Trichlorobenzene	180	15.228	15.228	0.000	92	768952	200.0	209.6	
126 2,4,5-Trichlorotoluene	159	16.006	16.007	-0.001	0	568870	200.0	230.9	
127 2,3,6-Trichlorotoluene	159	16.110	16.110	0.000	94	527070	200.0	225.5	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		400.0	422.6	
S 131 Xylenes, Total	106				0		400.0	405.8	
S 132 1,3-Dichloropropene, Total	1				0		400.0	475.4	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00039	Amount Added: 8.00	Units: uL	
voaWAcro2nd R_00006	Amount Added: 10.00	Units: uL	
voaWket1Reste_00001	Amount Added: 8.00	Units: uL	
voaWeemix1Res_00001	Amount Added: 8.00	Units: uL	
voaWVA1st Res_00003	Amount Added: 8.00	Units: uL	
VOA8260VOAPRI_00134	Amount Added: 8.00	Units: uL	
VOA8260INT_00039	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731009.D

Injection Date: 31-Jul-2015 16:01:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: IC VSTD40

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

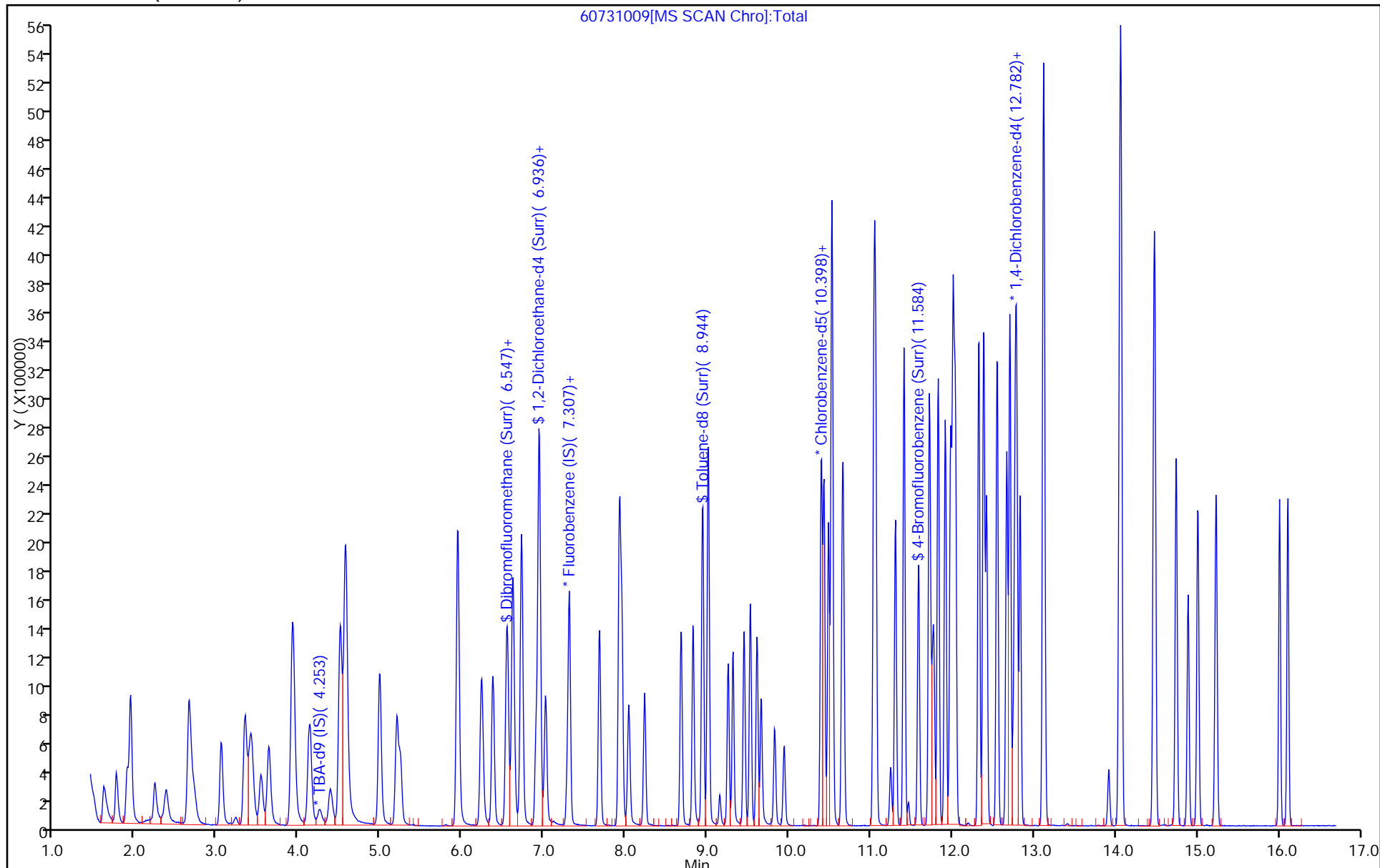
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



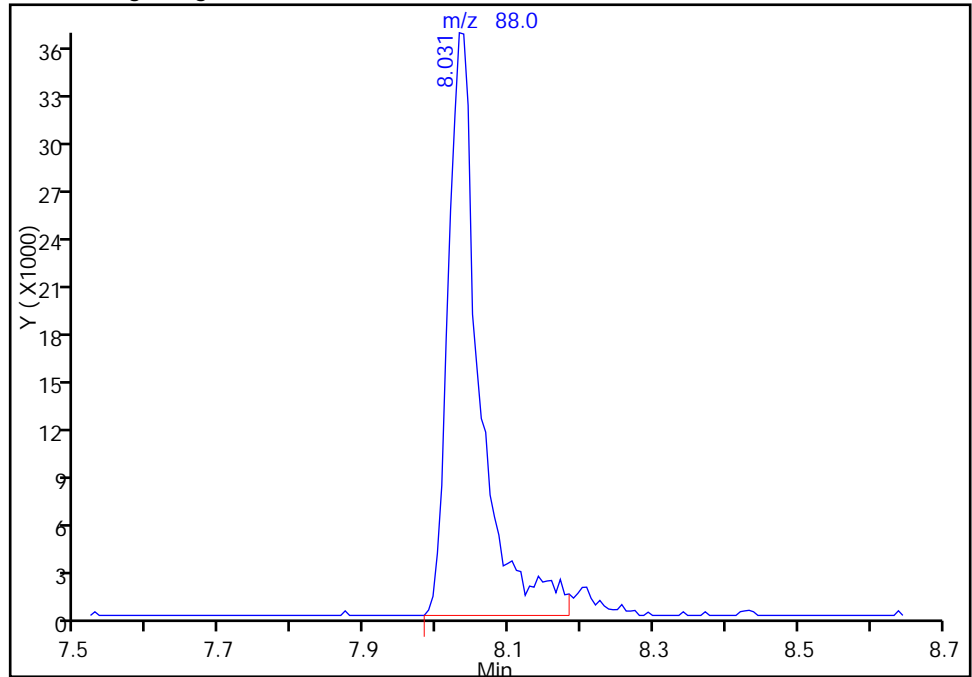
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731009.D
Injection Date: 31-Jul-2015 16:01:30 Instrument ID: CHHP6
Lims ID: IC VSTD40
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

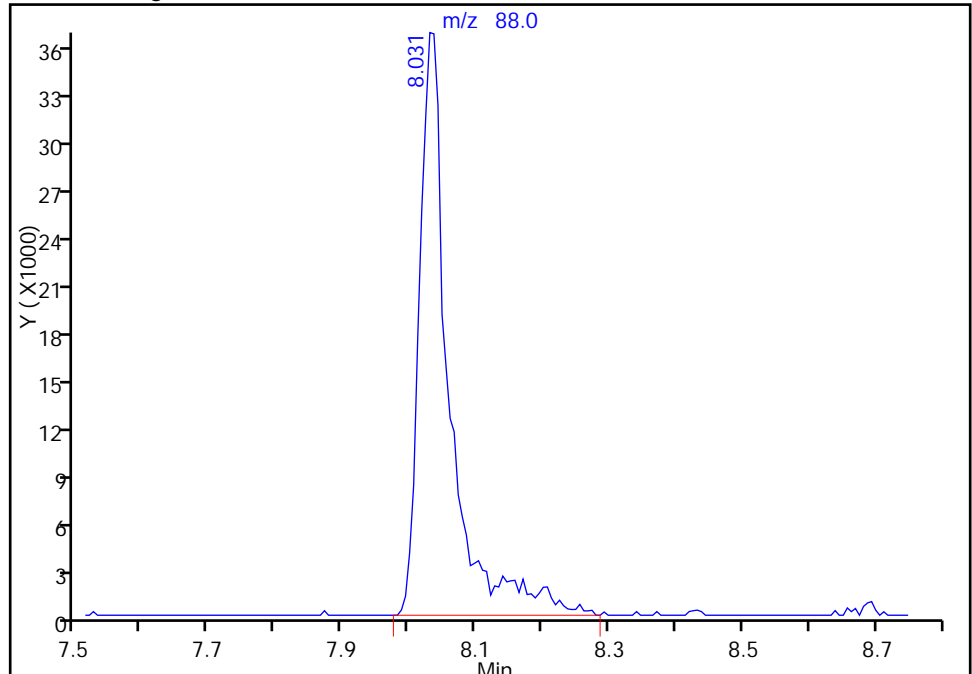
RT: 8.03
Area: 109899
Amount: 4509.0182
Amount Units: ng

Processing Integration Results



RT: 8.03
Area: 114196
Amount: 4654.2617
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 03-Aug-2015 10:06:32
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731010.D
 Lims ID: IC VSTD50
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 31-Jul-2015 16:25:30 ALS Bottle#: 10 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD50
 Misc. Info.: 180-0007999-010
 Operator ID: 001562 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 03-Aug-2015 12:16:19 Calib Date: 31-Jul-2015 18:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK049

First Level Reviewer: fergusond

Date: 03-Aug-2015 10:08:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.266	4.247	0.019	94	205888	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.283	7.289	-0.006	98	472902	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.398	0.000	91	113483	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.746	12.746	0.000	92	168220	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.553	6.553	0.000	92	510673	250.0	234.5	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.930	6.930	0.000	73	806396	250.0	229.5	
\$ 7 Toluene-d8 (Surr)	98	8.938	8.938	0.000	94	1832665	250.0	204.7	
\$ 8 4-Bromofluorobenzene (Surr	95	11.584	11.584	0.000	80	863895	250.0	217.4	
11 Dichlorodifluoromethane	85	1.607	1.607	0.000	100	776950	250.0	237.3	
12 Chloromethane	50	1.759	1.759	0.000	99	661756	250.0	234.5	
13 Vinyl chloride	62	1.893	1.893	0.000	99	729853	250.0	240.1	
14 Butadiene	39	1.936	1.930	0.006	90	668636	250.0	234.6	
15 Bromomethane	94	2.228	2.228	0.000	91	301175	250.0	183.5	
16 Chloroethane	64	2.362	2.374	-0.012	98	495382	250.0	238.7	
17 Dichlorofluoromethane	67	2.647	2.654	-0.007	97	1120159	250.0	232.0	
18 Trichlorofluoromethane	101	2.660	2.678	-0.018	74	914267	250.0	237.4	
20 Ethyl ether	59	3.043	3.043	0.000	89	666334	250.0	244.1	
21 Acrolein	56	3.225	3.213	0.012	98	88331	275.0	296.7	
22 1,1-Dichloroethene	96	3.335	3.341	-0.006	98	604031	250.0	253.7	
23 1,1,2-Trichloro-1,2,2-trif	101	3.396	3.402	-0.006	95	613669	250.0	244.2	
24 Acetone	43	3.432	3.432	0.000	100	446823	500.0	534.1	
25 Iodomethane	142	3.530	3.530	0.000	99	830188	250.0	259.8	
26 Carbon disulfide	76	3.627	3.633	-0.006	100	1688724	250.0	273.8	
29 3-Chloro-1-propene	76	3.913	3.913	0.000	87	379717	250.0	282.9	
30 Methyl acetate	43	3.925	3.925	0.000	96	2441128	1250.0	1244.3	
31 Methylene Chloride	84	4.126	4.132	-0.006	90	760977	250.0	250.8	
32 2-Methyl-2-propanol	59	4.387	4.369	0.018	93	559063	2500.0	2413.0	
33 Acrylonitrile	53	4.503	4.497	0.006	97	2461613	2500.0	2489.1	
34 trans-1,2-Dichloroethene	96	4.564	4.564	0.000	97	687783	250.0	250.4	
35 Methyl tert-butyl ether	73	4.576	4.576	0.000	98	2105039	250.0	255.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.984	4.990	-0.006	92	945322	250.0	253.9	
37 1,1-Dichloroethane	63	5.196	5.196	0.000	96	1227440	250.0	249.6	
38 Vinyl acetate	43	5.239	5.239	0.000	97	1104555	250.0	278.2	
43 cis-1,2-Dichloroethene	96	5.945	5.939	0.006	83	751398	250.0	251.5	
44 2-Butanone (MEK)	43	5.945	5.945	0.000	98	588377	500.0	515.3	
42 2,2-Dichloropropane	77	5.939	5.945	-0.006	66	694588	250.0	279.3	
48 Chlorobromomethane	128	6.225	6.225	0.000	97	308059	250.0	256.7	
49 Tetrahydrofuran	42	6.243	6.237	0.006	83	413888	500.0	538.2	
50 Chloroform	83	6.371	6.371	0.000	95	1195678	250.0	244.9	
51 1,1,1-Trichloroethane	97	6.535	6.541	-0.006	98	957300	250.0	265.4	
52 Cyclohexane	56	6.614	6.620	-0.006	91	1159567	250.0	250.9	
53 Carbon tetrachloride	117	6.717	6.717	0.000	89	690480	250.0	271.0	
54 1,1-Dichloropropene	75	6.729	6.730	-0.001	93	968671	250.0	249.7	
55 Isobutyl alcohol	41	6.900	6.900	0.000	91	482886	6250.0	7057.9	
56 Benzene	78	6.942	6.942	0.000	99	2526807	250.0	229.3	
57 1,2-Dichloroethane	62	7.015	7.015	0.000	98	1055651	250.0	237.8	
59 n-Heptane	43	7.307	7.307	0.000	87	756814	250.0	252.6	
61 Trichloroethene	130	7.678	7.679	-0.001	93	577638	250.0	251.3	
63 Methylcyclohexane	83	7.922	7.922	0.000	91	1169092	250.0	250.6	
64 1,2-Dichloropropane	63	7.952	7.952	0.000	86	664355	250.0	252.3	
65 1,4-Dioxane	88	8.031	8.031	0.000	44	139772	5000.0	5378.1	M
67 Dibromomethane	93	8.037	8.037	0.000	93	409028	250.0	255.8	
68 Dichlorobromomethane	83	8.232	8.226	0.006	99	821950	250.0	273.6	
71 cis-1,3-Dichloropropene	75	8.676	8.676	0.000	93	960857	250.0	291.2	
72 4-Methyl-2-pentanone (MIBK)	43	8.822	8.822	0.000	93	1194590	500.0	512.0	
73 Toluene	91	9.011	9.011	0.000	97	2462377	250.0	210.3	
74 trans-1,3-Dichloropropene	75	9.254	9.254	0.000	96	837722	250.0	281.8	
75 Ethyl methacrylate	69	9.315	9.315	0.000	88	855316	250.0	270.9	
76 1,1,2-Trichloroethane	97	9.449	9.449	0.000	93	567107	250.0	234.2	
77 Tetrachloroethene	164	9.522	9.528	-0.006	92	461983	250.0	231.3	
78 1,3-Dichloropropane	76	9.607	9.607	0.000	92	1022129	250.0	228.4	
79 2-Hexanone	43	9.656	9.656	0.000	93	790089	500.0	515.7	
81 Chlorodibromomethane	129	9.820	9.826	-0.006	90	451973	250.0	273.4	
82 Ethylene Dibromide	107	9.942	9.936	0.006	98	526477	250.0	245.7	
83 3-Chlorobenzotrifluoride	180	10.392	10.392	0.000	92	786880	250.0	209.9	
84 Chlorobenzene	112	10.428	10.428	0.000	89	1585885	250.0	220.3	
85 4-Chlorobenzotrifluoride	180	10.483	10.483	0.000	96	739908	250.0	212.9	
86 1,1,1,2-Tetrachloroethane	131	10.519	10.520	-0.001	49	519653	250.0	263.5	
87 Ethylbenzene	106	10.526	10.526	0.000	97	943999	250.0	232.5	
88 m-Xylene & p-Xylene	106	10.659	10.659	0.000	97	1179895	250.0	234.2	
89 o-Xylene	106	11.043	11.037	0.006	96	1188451	250.0	235.8	
90 Styrene	104	11.061	11.061	0.000	93	1825312	250.0	235.8	
91 Bromoform	173	11.243	11.243	0.000	93	249108	250.0	282.3	
92 2-Chlorobenzotrifluoride	180	11.304	11.304	0.000	94	831476	250.0	216.5	
93 Isopropylbenzene	105	11.408	11.408	0.000	99	2614965	250.0	216.8	
96 1,1,2,2-Tetrachloroethane	83	11.712	11.712	0.000	97	764885	250.0	236.1	
95 Bromobenzene	156	11.724	11.724	0.000	98	665597	250.0	246.1	
97 trans-1,4-Dichloro-2-buten	53	11.754	11.748	0.006	83	239026	250.0	278.7	
98 1,2,3-Trichloropropane	110	11.773	11.773	0.000	85	257089	250.0	250.0	
99 N-Propylbenzene	120	11.827	11.827	0.000	96	793964	250.0	254.9	
100 2-Chlorotoluene	126	11.913	11.913	0.000	93	652311	250.0	252.3	
101 3-Chlorotoluene	126	11.979	11.980	-0.001	96	649907	250.0	239.3	

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	12.010	12.010	0.000	96	2358116	250.0	232.9	
103 4-Chlorotoluene	126	12.034	12.034	0.000	99	684319	250.0	250.5	
104 tert-Butylbenzene	119	12.326	12.320	0.006	90	1949627	250.0	243.7	
106 1,2,4-Trimethylbenzene	105	12.381	12.381	0.000	97	2433681	250.0	235.0	
107 1,2-dichloro-4-(trifluorom	214	12.418	12.418	0.000	95	680073	250.0	231.8	
108 sec-Butylbenzene	105	12.545	12.545	0.000	96	2739728	250.0	229.4	
109 1,3-Dichlorobenzene	146	12.667	12.667	0.000	92	1267194	250.0	239.9	
110 4-Isopropyltoluene	119	12.703	12.703	0.000	93	2392925	250.0	238.8	
111 1,4-Dichlorobenzene	146	12.770	12.770	0.000	92	1287354	250.0	238.4	
113 2,4-Dichloro-1-(trifluorom	214	12.789	12.789	0.000	96	641375	250.0	219.8	
114 2,5-Dichlorobenzotrifluori	214	12.831	12.831	0.000	97	781945	250.0	239.9	
116 n-Butylbenzene	91	13.111	13.111	0.000	95	2352259	250.0	235.1	
117 1,2-Dichlorobenzene	146	13.123	13.123	0.000	95	1249514	250.0	234.3	
118 1,2-Dibromo-3-Chloropropan	75	13.914	13.920	-0.006	73	147337	250.0	301.3	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.060	14.060	0.000	93	3058923	750.0	659.0	
121 2,3- & 3,4- Dichlorotoluen	125	14.474	14.474	0.000	95	2357462	500.0	460.3	
122 1,2,4-Trichlorobenzene	180	14.741	14.741	0.000	92	1022001	250.0	247.3	
123 Hexachlorobutadiene	225	14.887	14.887	0.000	97	414314	250.0	254.5	
124 Naphthalene	128	15.003	15.003	0.000	98	2149836	250.0	257.7	
125 1,2,3-Trichlorobenzene	180	15.228	15.228	0.000	92	953082	250.0	246.4	
126 2,4,5-Trichlorotoluene	159	16.007	16.007	0.000	0	681135	250.0	262.3	
127 2,3,6-Trichlorotoluene	159	16.110	16.110	0.000	93	630961	250.0	256.1	
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		500.0	501.9	
S 131 Xylenes, Total	106				0		500.0	469.9	
S 132 1,3-Dichloropropene, Total	1				0		500.0	573.0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00039	Amount Added: 10.00	Units: uL	
voaWVA1st Res_00003	Amount Added: 10.00	Units: uL	
voaWket1Reste_00001	Amount Added: 10.00	Units: uL	
voaWeemix1Res_00001	Amount Added: 10.00	Units: uL	
VOA8260VOAPRI_00134	Amount Added: 10.00	Units: uL	
voaWAcro2nd R_00006	Amount Added: 11.00	Units: uL	
VOA8260INT_00039	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731010.D

Injection Date: 31-Jul-2015 16:25:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: IC VSTD50

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

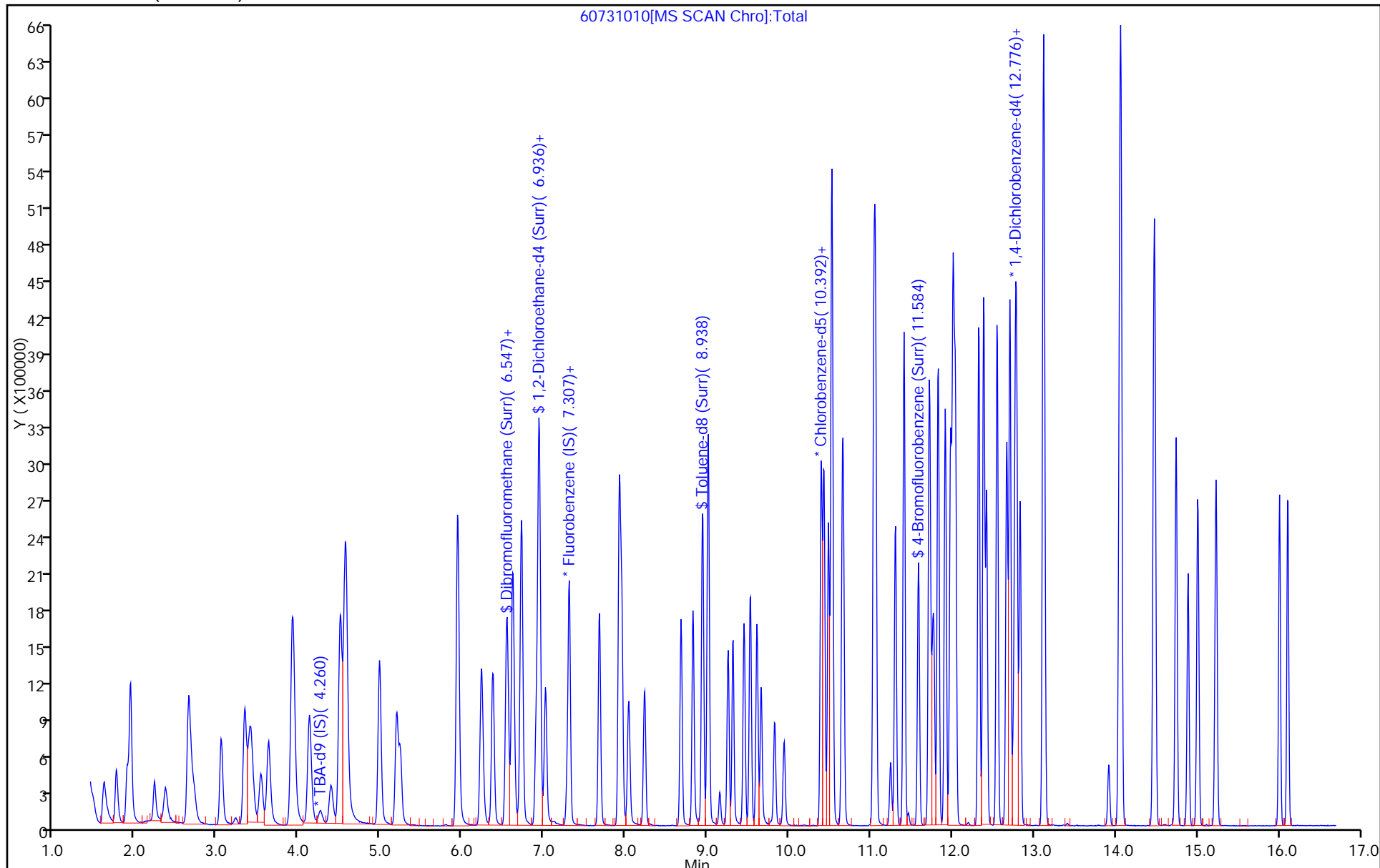
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



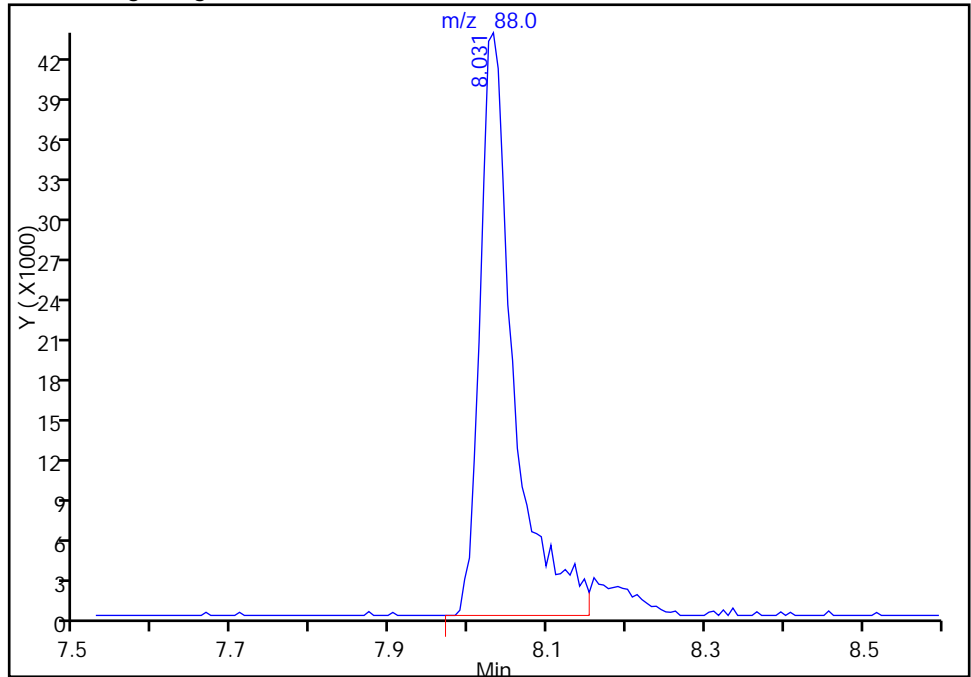
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731010.D
Injection Date: 31-Jul-2015 16:25:30 Instrument ID: CHHP6
Lims ID: IC VSTD50
Client ID:
Operator ID: 001562 ALS Bottle#: 10 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

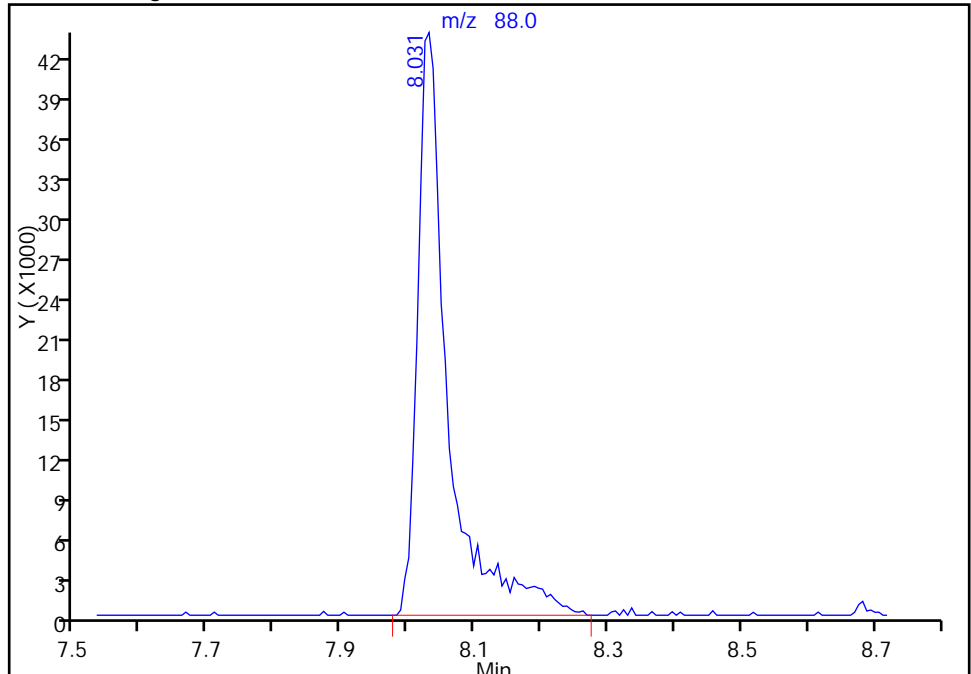
RT: 8.03
Area: 130472
Amount: 5026.0517
Amount Units: ng

Processing Integration Results



RT: 8.03
Area: 139772
Amount: 5378.0842
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 03-Aug-2015 10:08:16
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D
 Lims ID: IC VSTD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 31-Jul-2015 18:02:30 ALS Bottle#: 14 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC VSTD1
 Misc. Info.: 180-0007999-014
 Operator ID: 001562 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 03-Aug-2015 12:57:05 Calib Date: 31-Jul-2015 18:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK049

First Level Reviewer: fergusond

Date: 03-Aug-2015 11:05:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.242	4.248	-0.006	92	162667	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.284	7.284	0.000	98	456532	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.398	0.000	92	93799	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.746	12.747	-0.001	97	157240	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.553	6.554	-0.001	89	11777	5.00	5.60	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.931	0.000	54	19952	5.00	5.88	
\$ 7 Toluene-d8 (Surr)	98	8.938	8.938	0.000	94	41667	5.00	5.63	
\$ 8 4-Bromofluorobenzene (Surr	95	11.585	11.585	0.000	77	19549	5.00	5.95	
11 Dichlorodifluoromethane	85	1.614	1.608	0.006	97	17276	5.00	5.46	
12 Chloromethane	50	1.754	1.754	0.000	99	15485	5.00	5.68	
13 Vinyl chloride	62	1.887	1.888	-0.001	62	15792	5.00	5.38	
14 Butadiene	39	1.930	1.930	0.000	93	15290	5.00	5.56	
15 Bromomethane	94	2.234	2.228	0.006	96	9521	5.00	6.01	
16 Chloroethane	64	2.356	2.368	-0.012	92	9922	5.00	4.95	
17 Dichlorofluoromethane	67	2.648	2.648	0.000	96	24941	5.00	5.35	
18 Trichlorofluoromethane	101	2.684	2.660	0.024	51	19389	5.00	5.21	M
20 Ethyl ether	59	3.037	3.049	-0.012	90	14586	5.00	5.53	
21 Acrolein	56	3.220	3.220	0.000	99	28320	100.0	98.5	
22 1,1-Dichloroethene	96	3.335	3.341	-0.006	95	11872	5.00	5.17	
23 1,1,2-Trichloro-1,2,2-trif	101	3.396	3.390	0.006	53	13209	5.00	5.44	
24 Acetone	43	3.421	3.421	-0.001	99	22203	25.0	27.5	M
25 Iodomethane	142	3.542	3.536	0.006	81	14090	5.00	4.57	
26 Carbon disulfide	76	3.633	3.627	0.006	99	26146	5.00	4.39	
29 3-Chloro-1-propene	76	3.919	3.919	0.000	86	5562	5.00	4.29	
30 Methyl acetate	43	3.932	3.926	0.006	98	50033	25.0	26.4	
31 Methylene Chloride	84	4.132	4.132	0.000	94	30274	5.00	5.01	
32 2-Methyl-2-propanol	59	4.363	4.370	-0.007	86	9874	50.0	53.9	
33 Acrylonitrile	53	4.509	4.503	0.006	99	48723	50.0	51.0	M
34 trans-1,2-Dichloroethene	96	4.558	4.564	-0.006	70	13191	5.00	4.97	
35 Methyl tert-butyl ether	73	4.564	4.576	-0.012	98	41079	5.00	5.17	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.984	4.990	-0.006	91	19223	5.00	5.35	
37 1,1-Dichloroethane	63	5.197	5.197	0.000	89	23168	5.00	4.88	
38 Vinyl acetate	43	5.246	5.240	0.006	96	17413	5.00	4.54	
43 cis-1,2-Dichloroethene	96	5.951	5.939	0.012	83	15010	5.00	5.20	
44 2-Butanone (MEK)	43	5.945	5.945	0.000	97	26408	25.0	24.0	
42 2,2-Dichloropropane	77	5.939	5.945	-0.006	57	9613	5.00	4.00	
48 Chlorobromomethane	128	6.231	6.231	0.000	95	6120	5.00	5.28	
49 Tetrahydrofuran	42	6.249	6.249	0.000	82	8204	10.0	11.1	
50 Chloroform	83	6.371	6.371	0.000	94	23924	5.00	5.08	
51 1,1,1-Trichloroethane	97	6.547	6.541	0.006	96	15055	5.00	4.32	M
52 Cyclohexane	56	6.608	6.620	-0.012	88	22688	5.00	5.09	
53 Carbon tetrachloride	117	6.712	6.718	-0.006	92	10435	5.00	4.24	
54 1,1-Dichloropropene	75	6.724	6.724	0.000	90	17924	5.00	4.79	
55 Isobutyl alcohol	41	6.900	6.900	0.000	80	7317	125.0	110.8	M
56 Benzene	78	6.943	6.943	0.000	96	59844	5.00	5.62	
57 1,2-Dichloroethane	62	7.016	7.016	0.000	98	23604	5.00	5.51	
59 n-Heptane	43	7.302	7.308	-0.006	86	14990	5.00	5.18	
61 Trichloroethene	130	7.679	7.679	0.000	89	11389	5.00	5.13	
63 Methylcyclohexane	83	7.916	7.922	-0.006	88	22772	5.00	5.06	
64 1,2-Dichloropropane	63	7.947	7.953	-0.006	86	13712	5.00	5.39	
65 1,4-Dioxane	88	8.026	8.032	-0.006	39	2321	100.0	92.5	
67 Dibromomethane	93	8.032	8.038	-0.006	92	7749	5.00	5.02	
68 Dichlorobromomethane	83	8.226	8.227	-0.001	96	11941	5.00	4.12	
71 cis-1,3-Dichloropropene	75	8.683	8.677	0.006	90	11797	5.00	3.70	
72 4-Methyl-2-pentanone (MIBK)	43	8.829	8.823	0.006	96	42150	25.0	21.9	
73 Toluene	91	9.011	9.011	0.000	98	55394	5.00	5.72	
74 trans-1,3-Dichloropropene	75	9.255	9.255	0.000	97	8162	5.00	3.32	
75 Ethyl methacrylate	69	9.315	9.315	0.000	87	9928	5.00	3.80	
76 1,1,2-Trichloroethane	97	9.449	9.449	0.000	91	10927	5.00	5.46	
77 Tetrachloroethene	164	9.528	9.522	0.006	90	9096	5.00	5.51	
78 1,3-Dichloropropane	76	9.607	9.607	0.000	91	19746	5.00	5.34	
79 2-Hexanone	43	9.656	9.656	0.000	96	27957	25.0	22.1	
81 Chlorodibromomethane	129	9.826	9.826	0.000	88	4662	5.00	3.41	
82 Ethylene Dibromide	107	9.942	9.942	0.000	93	8796	5.00	4.97	
83 3-Chlorobenzotrifluoride	180	10.392	10.392	0.000	56	18146	5.00	5.86	
84 Chlorobenzene	112	10.429	10.429	0.000	93	33099	5.00	5.56	
85 4-Chlorobenzotrifluoride	180	10.490	10.483	0.007	96	15713	5.00	5.47	
86 1,1,1,2-Tetrachloroethane	131	10.514	10.520	-0.006	40	6472	5.00	3.97	
87 Ethylbenzene	106	10.532	10.526	0.006	98	17773	5.00	5.30	
88 m-Xylene & p-Xylene	106	10.654	10.660	-0.006	97	21283	5.00	5.11	
89 o-Xylene	106	11.037	11.043	-0.006	96	20074	5.00	4.82	
90 Styrene	104	11.061	11.061	0.000	93	28385	5.00	4.44	
91 Bromoform	173	11.244	11.244	0.000	35	2602	5.00	3.57	
92 2-Chlorobenzotrifluoride	180	11.305	11.305	0.000	92	16686	5.00	5.26	
93 Isopropylbenzene	105	11.408	11.408	0.000	96	49505	5.00	4.97	
96 1,1,2,2-Tetrachloroethane	83	11.712	11.712	0.000	73	13623	5.00	5.09	
95 Bromobenzene	156	11.724	11.725	-0.001	96	12814	5.00	5.07	
97 trans-1,4-Dichloro-2-buten	53	11.749	11.749	0.000	51	3433	5.00	4.28	
98 1,2,3-Trichloropropane	110	11.773	11.767	0.006	83	4898	5.00	5.10	
99 N-Propylbenzene	120	11.822	11.828	-0.006	99	13092	5.00	4.50	
100 2-Chlorotoluene	126	11.919	11.913	0.006	93	11155	5.00	4.62	
101 3-Chlorotoluene	126	11.980	11.980	0.000	97	11861	5.00	4.67	

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	12.010	12.010	0.000	93	43612	5.00	4.61	
103 4-Chlorotoluene	126	12.035	12.041	-0.006	98	12056	5.00	4.72	
104 tert-Butylbenzene	119	12.321	12.321	0.000	92	34048	5.00	4.55	
106 1,2,4-Trimethylbenzene	105	12.381	12.382	-0.001	98	41890	5.00	4.33	
107 1,2-dichloro-4-(trifluorom	214	12.418	12.418	0.000	96	14947	5.00	5.45	
108 sec-Butylbenzene	105	12.546	12.546	0.000	96	50094	5.00	4.49	
109 1,3-Dichlorobenzene	146	12.661	12.667	-0.006	88	25334	5.00	5.13	
110 4-Isopropyltoluene	119	12.704	12.704	0.000	95	40061	5.00	4.28	
111 1,4-Dichlorobenzene	146	12.771	12.771	0.000	88	25908	5.00	5.13	
113 2,4-Dichloro-1-(trifluorom	214	12.789	12.789	0.000	92	13852	5.00	5.08	
114 2,5-Dichlorobenzotrifluori	214	12.832	12.832	0.000	94	17529	5.00	5.75	
116 n-Butylbenzene	91	13.111	13.112	-0.001	98	43104	5.00	4.61	
117 1,2-Dichlorobenzene	146	13.130	13.124	0.006	93	27271	5.00	5.47	
118 1,2-Dibromo-3-Chloropropan	75	13.921	13.921	0.000	62	1637	5.00	3.58	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.054	14.061	-0.007	98	64430	15.0	14.8	
121 2,3- & 3,4- Dichlorotoluen	125	14.480	14.474	0.006	97	44720	10.0	9.34	
122 1,2,4-Trichlorobenzene	180	14.742	14.736	0.006	88	18465	5.00	4.78	
123 Hexachlorobutadiene	225	14.888	14.888	0.000	91	7049	5.00	4.63	
124 Naphthalene	128	15.010	15.004	0.006	97	30879	5.00	3.96	
125 1,2,3-Trichlorobenzene	180	15.229	15.229	0.000	92	18575	5.00	5.14	
126 2,4,5-Trichlorotoluene	159	16.013	16.007	0.006	0	10257	5.00	4.23	
127 2,3,6-Trichlorotoluene	159	16.111	16.111	0.000	93	10609	5.00	4.61	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		10.0	10.2	
S 131 Xylenes, Total	106				0		10.0	9.93	
S 132 1,3-Dichloropropene, Total	1				0		10.0	7.03	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00039	Amount Added: 0.20	Units: uL	
VOA8260VOAPRI_00134	Amount Added: 0.20	Units: uL	
voaWVA1st Res_00003	Amount Added: 0.20	Units: uL	
voaWeemix1Res_00001	Amount Added: 0.20	Units: uL	
voaWket1Reste_00001	Amount Added: 0.80	Units: uL	
voaWAcro2nd R_00006	Amount Added: 4.00	Units: uL	
VOA8260INT_00039	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D

Injection Date: 31-Jul-2015 18:02:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: IC VSTD1

Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL

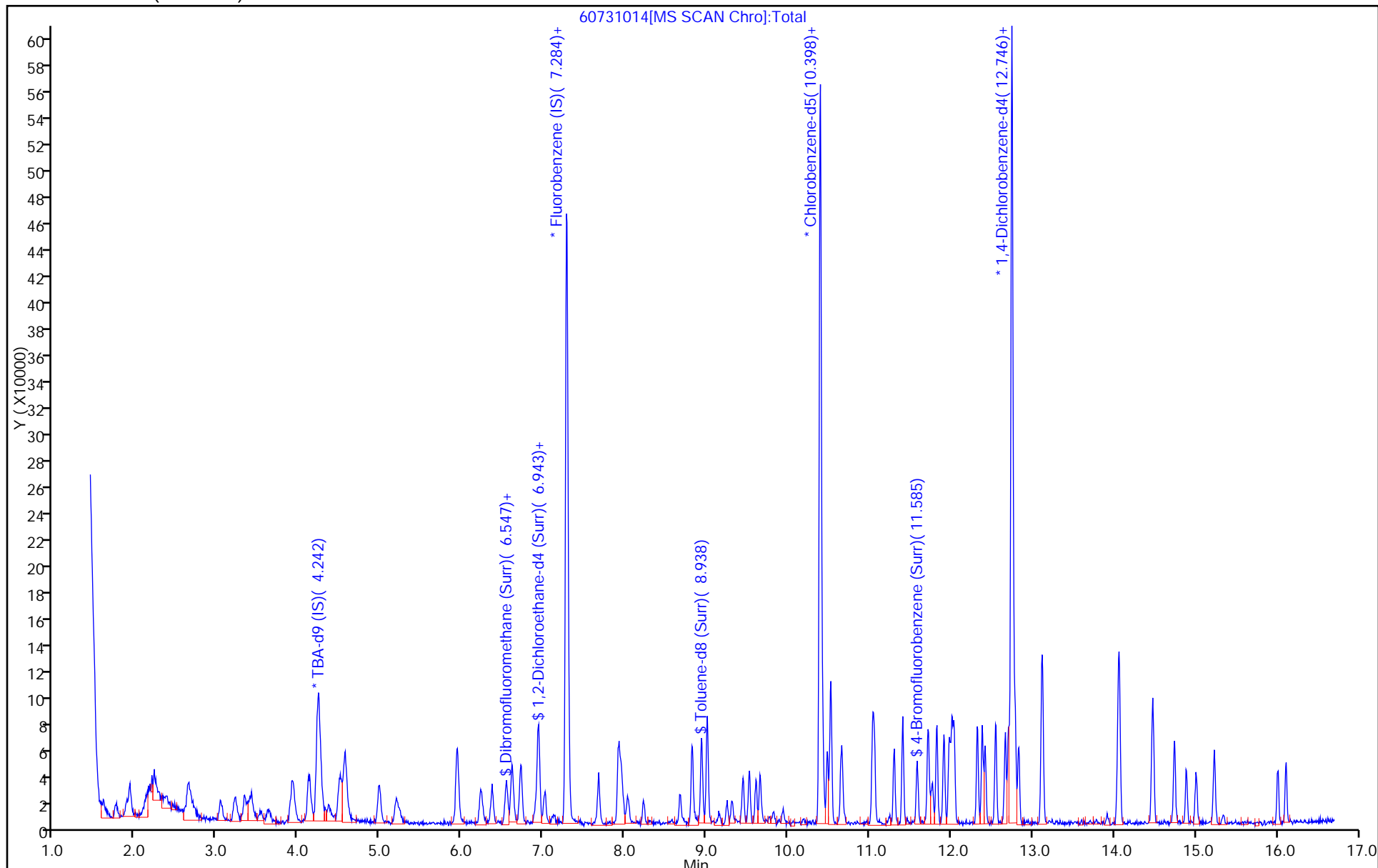
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



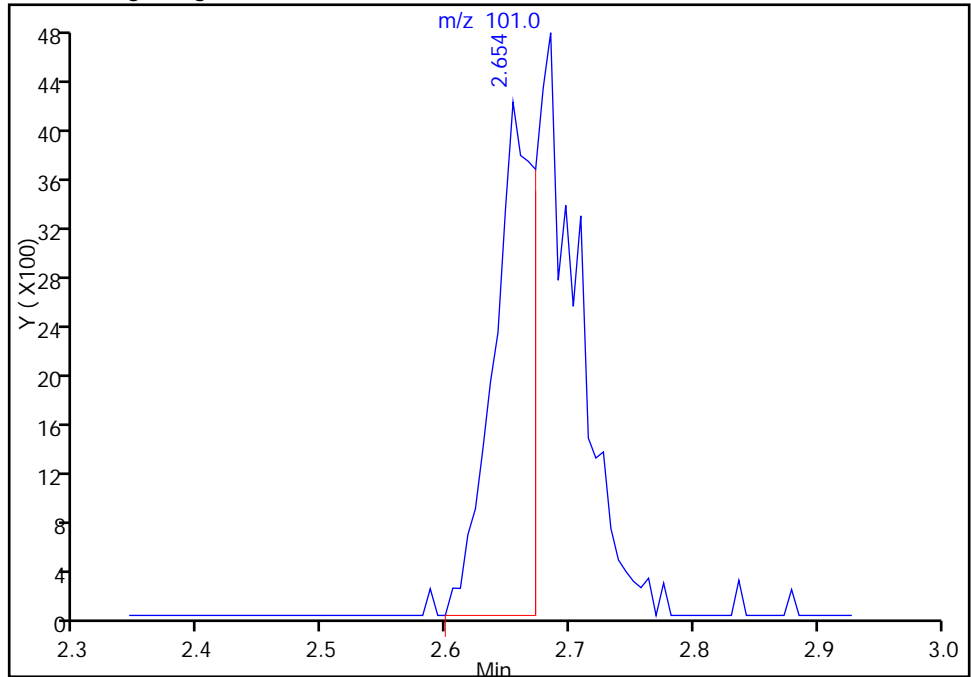
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D
Injection Date: 31-Jul-2015 18:02:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
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

18 Trichlorofluoromethane, CAS: 75-69-4

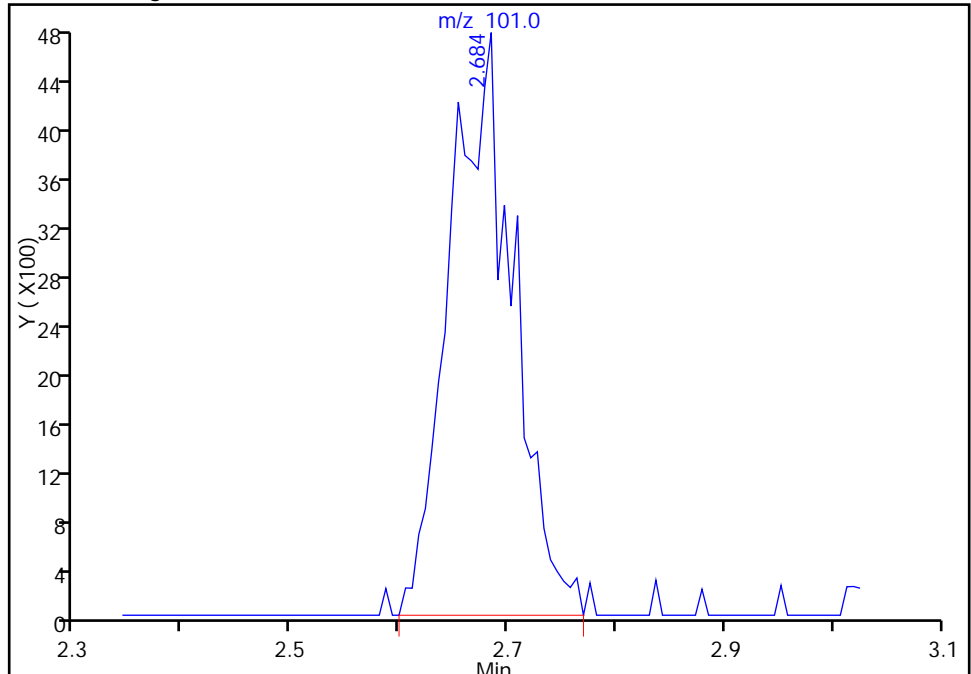
RT: 2.65
Area: 9483
Amount: 2.504798
Amount Units: ng

Processing Integration Results



RT: 2.68
Area: 19389
Amount: 5.214616
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 03-Aug-2015 11:05:58
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

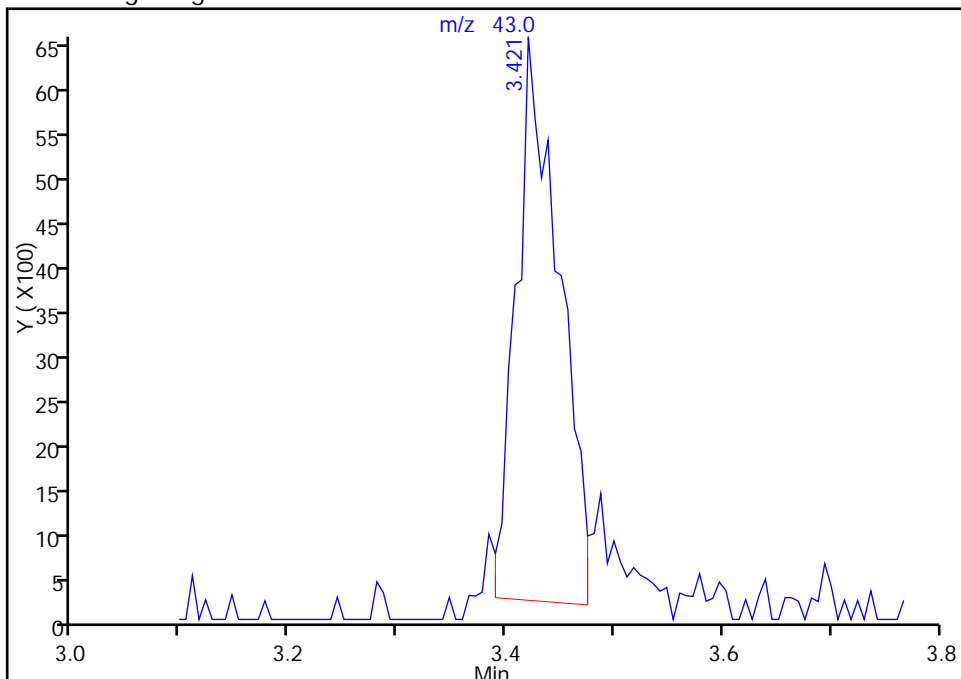
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D
Injection Date: 31-Jul-2015 18:02:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
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

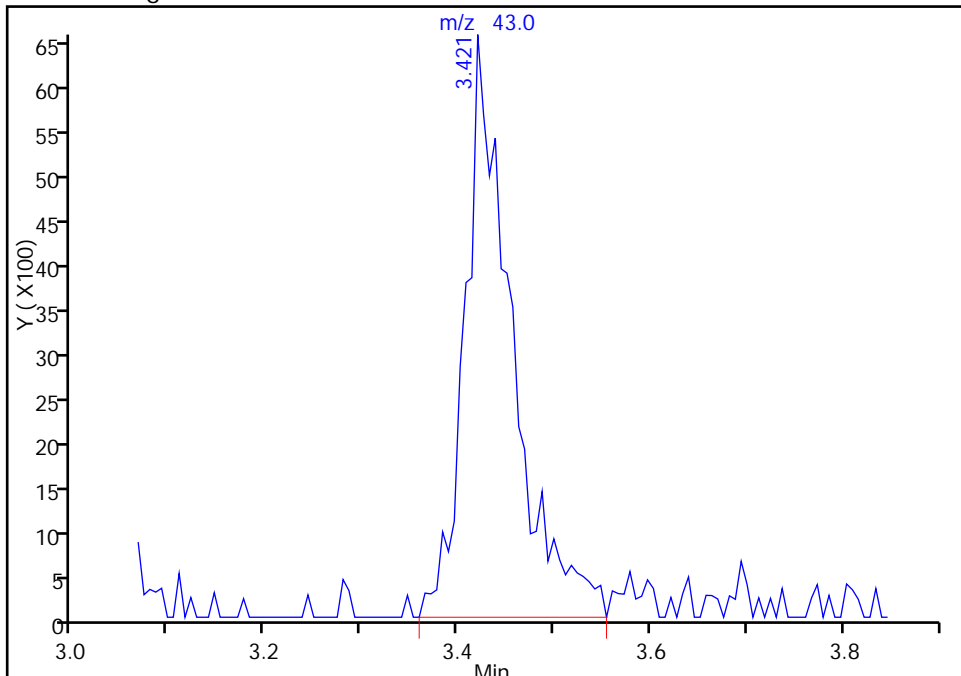
RT: 3.42
Area: 17621
Amount: 21.931508
Amount Units: ng

Processing Integration Results



RT: 3.42
Area: 22203
Amount: 27.489890
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 03-Aug-2015 11:05:58
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

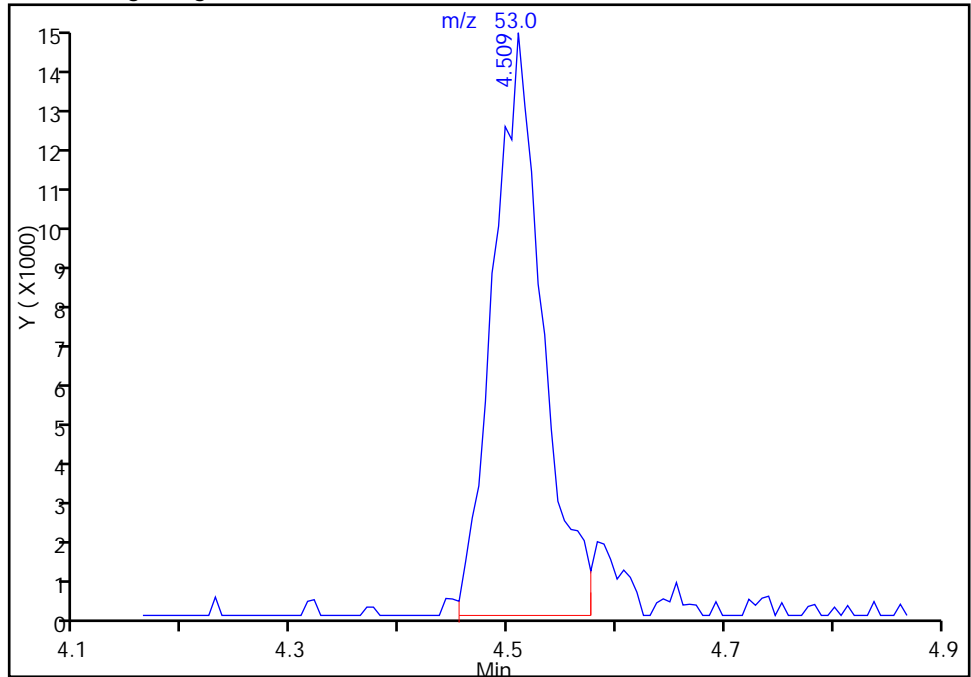
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D
Injection Date: 31-Jul-2015 18:02:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
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

33 Acrylonitrile, CAS: 107-13-1

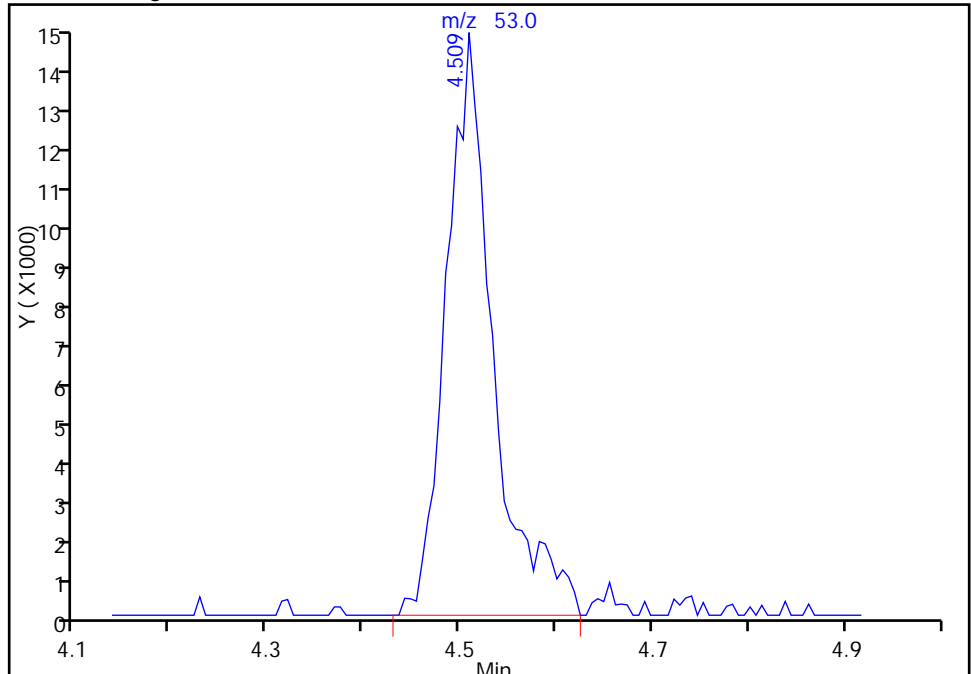
RT: 4.51
Area: 45326
Amount: 48.323975
Amount Units: ng

Processing Integration Results



RT: 4.51
Area: 48723
Amount: 51.033411
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 03-Aug-2015 11:05:58
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

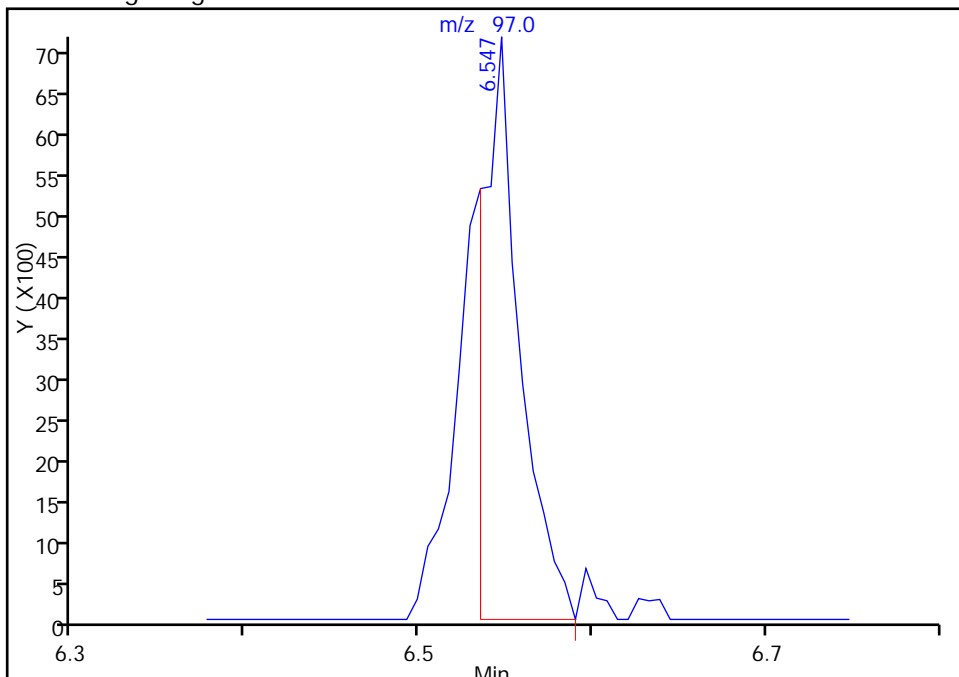
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D
Injection Date: 31-Jul-2015 18:02:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
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

51 1,1,1-Trichloroethane, CAS: 71-55-6

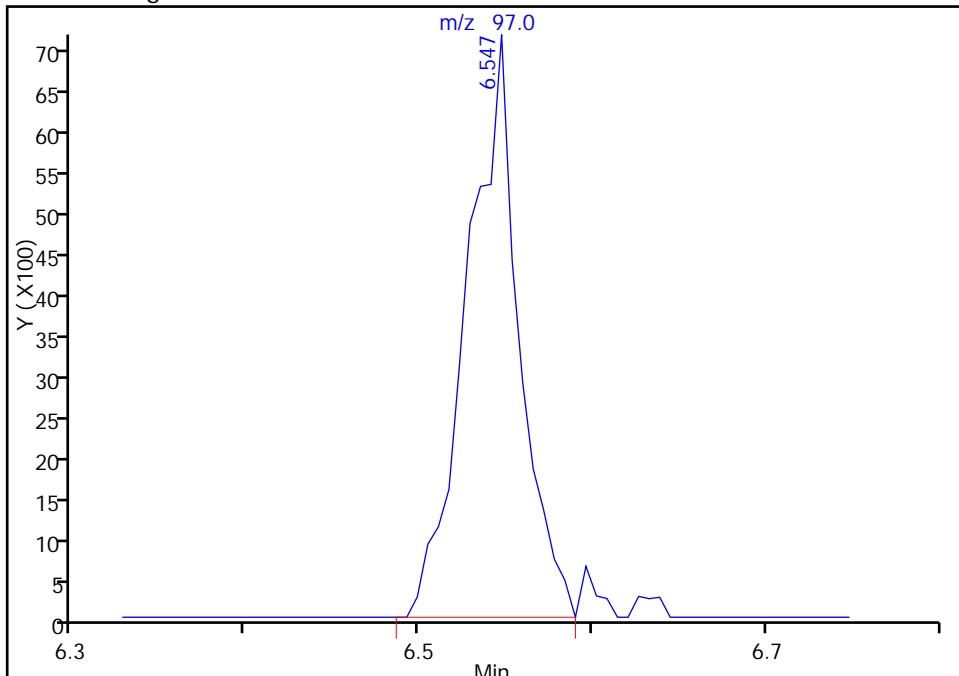
RT: 6.55
Area: 10745
Amount: 3.045023
Amount Units: ng

Processing Integration Results



RT: 6.55
Area: 15055
Amount: 4.323691
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 03-Aug-2015 11:05:58
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

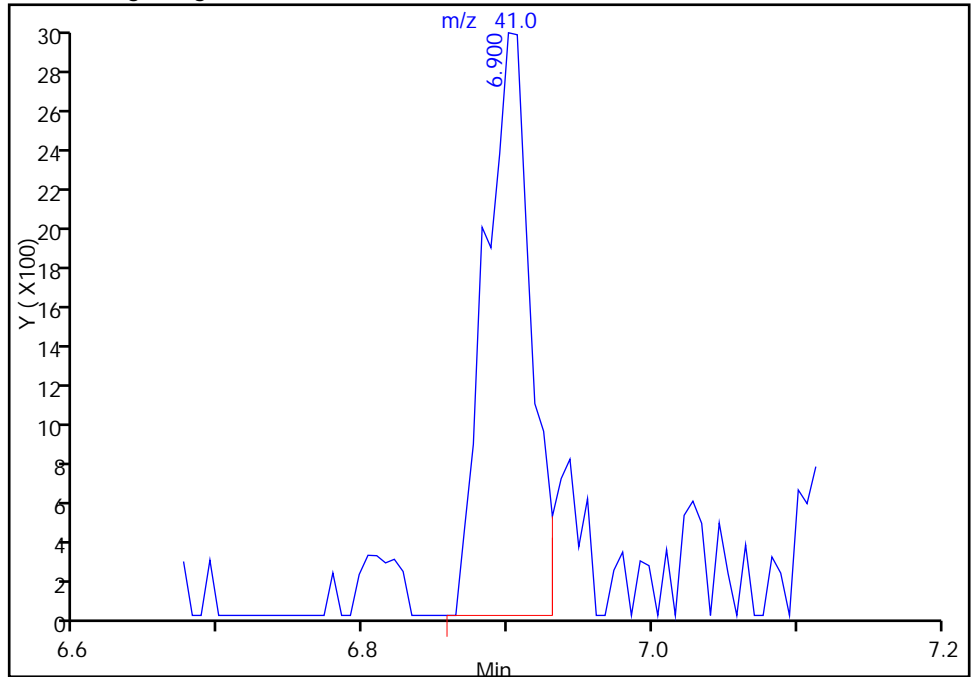
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D
Injection Date: 31-Jul-2015 18:02:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
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

55 Isobutyl alcohol, CAS: 78-83-1

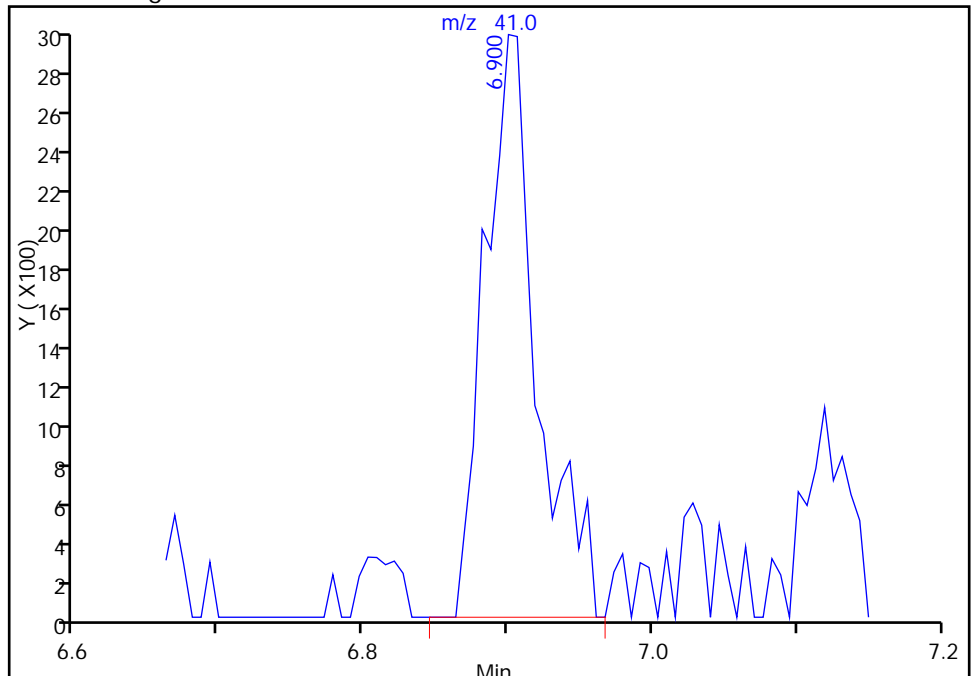
RT: 6.90
Area: 6443
Amount: 97.511814
Amount Units: ng

Processing Integration Results



RT: 6.90
Area: 7317
Amount: 110.7809
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 03-Aug-2015 11:05:58
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-155766/2 Calibration Date: 10/03/2015 12:18
 Instrument ID: CHHP5 Calib Start Date: 08/26/2015 15:04
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 08/26/2015 17:52
 Lab File ID: 51003002.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	0.2825	0.3394	0.1000	12.0	10.0	20.1*	20.0
Chloromethane	Ave	0.4148	0.4712	0.1000	11.4	10.0	13.6	20.0
Vinyl chloride	Ave	0.3679	0.3779	0.1000	10.3	10.0	2.7	20.0
1,3-Butadiene	Ave	0.4345	0.5022	0.0100	11.6	10.0	15.6	20.0
Bromomethane	Ave	0.1497	0.1661	0.0500	11.1	10.0	10.9	20.0
Chloroethane	Ave	0.2220	0.2042	0.0500	9.20	10.0	-8.0	20.0
Dichlorofluoromethane	Ave	0.4709	0.4515	0.0100	9.59	10.0	-4.1	20.0
Trichlorofluoromethane	Ave	0.3523	0.3757	0.1000	10.7	10.0	6.6	20.0
Ethyl ether	Ave	0.3265	0.2995	0.0100	9.17	10.0	-8.3	20.0
Acrolein	Ave	0.0486	0.0431	0.0100	26.6	30.0	-11.4	20.0
1,1-Dichloroethene	Ave	0.2785	0.2860	0.1000	10.3	10.0	2.7	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2951	0.3049	0.1000	10.3	10.0	3.3	20.0
Acetone	Ave	0.1009	0.1031	0.0500	20.4	20.0	2.2	20.0
Iodomethane	Ave	0.4150	0.4277	0.0100	10.3	10.0	3.1	20.0
Carbon disulfide	Ave	0.6466	0.5790	0.1000	8.95	10.0	-10.5	20.0
Allyl chloride	Ave	0.1577	0.1442	0.0100	9.15	10.0	-8.5	20.0
Methyl acetate	Ave	0.3015	0.3018	0.1000	50.1	50.0	0.1	20.0
Methylene Chloride	Lin2		0.3205	0.1000	9.77	10.0	-2.3	20.0
tert-Butyl alcohol	Ave	1.126	1.027	0.0100	91.3	100	-8.7	20.0
Acrylonitrile	Ave	0.1463	0.1449	0.0100	99.0	100	-1.0	20.0
trans-1,2-Dichloroethene	Ave	0.3024	0.2924	0.1000	9.67	10.0	-3.3	20.0
Methyl tert-butyl ether	Ave	0.6999	0.6238	0.1000	8.91	10.0	-10.9	20.0
Hexane	Ave	0.5076	0.5218	0.0100	10.3	10.0	2.8	20.0
1,1-Dichloroethane	Ave	0.5957	0.5582	0.2000	9.37	10.0	-6.3	20.0
Vinyl acetate	Ave	0.4469	0.5944	0.0100	13.3	10.0	33.0*	20.0
2,2-Dichloropropane	Ave	0.2387	0.1998	0.0100	8.37	10.0	-16.3	20.0
cis-1,2-Dichloroethene	Ave	0.3230	0.3035	0.1000	9.39	10.0	-6.1	20.0
2-Butanone (MEK)	Ave	0.1516	0.1457	0.0500	19.2	20.0	-3.9	20.0
Bromochloromethane	Ave	0.1418	0.1422	0.0100	10.0	10.0	0.2	20.0
Tetrahydrofuran	Ave	0.1216	0.1100	0.0100	18.1	20.0	-9.6	20.0
Chloroform	Ave	0.5146	0.4760	0.2000	9.25	10.0	-7.5	20.0
1,1,1-Trichloroethane	Ave	0.3805	0.3584	0.1000	9.42	10.0	-5.8	20.0
Cyclohexane	Ave	0.6367	0.6092	0.1000	9.57	10.0	-4.3	20.0
Carbon tetrachloride	Ave	0.3240	0.3072	0.1000	9.48	10.0	-5.2	20.0
1,1-Dichloropropene	Ave	0.4208	0.4035	0.0100	9.59	10.0	-4.1	20.0
Isobutyl alcohol	Ave	0.0095	0.0101	0.0100	265	250	6.1	20.0
Benzene	Ave	1.233	1.222	0.5000	9.91	10.0	-0.9	20.0
1,2-Dichloroethane	Ave	0.4264	0.3871	0.1000	9.08	10.0	-9.2	20.0
n-Heptane	Ave	0.4611	0.5005	0.0100	10.9	10.0	8.5	20.0
Trichloroethene	Ave	0.3016	0.3113	0.2000	10.3	10.0	3.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-155766/2 Calibration Date: 10/03/2015 12:18
 Instrument ID: CHHP5 Calib Start Date: 08/26/2015 15:04
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 08/26/2015 17:52
 Lab File ID: 51003002.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
Methylcyclohexane	Ave	0.4753	0.4687	0.1000	9.86	10.0	-1.4	20.0
1,2-Dichloropropane	Ave	0.3235	0.3130	0.1000	9.67	10.0	-3.3	20.0
1,4-Dioxane	Ave	0.0022	0.0027*	0.0100	238	200	19.0	20.0
Dibromomethane	Ave	0.1642	0.1560	0.0100	9.50	10.0	-5.0	20.0
Bromodichloromethane	Ave	0.3249	0.2876	0.2000	8.85	10.0	-11.5	20.0
cis-1,3-Dichloropropene	Ave	0.3807	0.3252	0.2000	8.54	10.0	-14.6	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.232	1.135	0.1000	18.4	20.0	-7.9	20.0
Toluene	Ave	4.950	5.268	0.4000	10.6	10.0	6.4	20.0
trans-1,3-Dichloropropene	Ave	1.292	1.193	0.1000	9.23	10.0	-7.7	20.0
Ethyl methacrylate	Ave	1.249	1.138	0.0100	9.11	10.0	-8.9	20.0
1,1,2-Trichloroethane	Ave	0.9416	0.9758	0.1000	10.4	10.0	3.6	20.0
Tetrachloroethene	Ave	0.9609	1.080	0.2000	11.2	10.0	12.4	20.0
1,3-Dichloropropane	Ave	1.748	1.686	0.0100	9.64	10.0	-3.6	20.0
2-Hexanone	Ave	0.8893	0.8267	0.1000	18.6	20.0	-7.0	20.0
Dibromochloromethane	Ave	0.8152	0.8137	0.1000	9.98	10.0	-0.2	20.0
1,2-Dibromoethane (EDB)	Ave	0.9073	0.9255	0.1000	10.2	10.0	2.0	20.0
3-Chlorobenzotrifluoride	Ave	1.591	1.813	0.0100	11.4	10.0	14.0	20.0
Chlorobenzene	Ave	3.187	3.360	0.5000	10.5	10.0	5.4	20.0
4-Chlorobenzotrifluoride	Ave	1.504	1.706	0.0100	11.3	10.0	13.4	20.0
1,1,1,2-Tetrachloroethane	Ave	1.039	1.031	0.0100	9.92	10.0	-0.8	20.0
Ethylbenzene	Ave	1.690	1.801	0.1000	10.7	10.0	6.6	20.0
m-Xylene & p-Xylene	Ave	2.072	2.237	0.1000	10.8	10.0	8.0	20.0
o-Xylene	Ave	1.969	2.084	0.3000	10.6	10.0	5.8	20.0
Styrene	Ave	3.262	3.514	0.3000	10.8	10.0	7.7	20.0
Bromoform	Ave	0.4652	0.4402	0.1000	9.46	10.0	-5.4	20.0
2-Chlorobenzotrifluoride	Ave	1.565	1.686	0.0100	10.8	10.0	7.7	20.0
Isopropylbenzene	Ave	4.822	5.174	0.1000	10.7	10.0	7.3	20.0
1,1,2,2-Tetrachloroethane	Ave	1.270	1.305	0.3000	10.3	10.0	2.8	20.0
Bromobenzene	Ave	0.8583	0.8994	0.0100	10.5	10.0	4.8	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3103	0.2050	0.0100	6.61	10.0	-33.9*	20.0
1,2,3-Trichloropropane	Ave	0.2831	0.2894	0.0100	10.2	10.0	2.2	20.0
N-Propylbenzene	Ave	0.9825	0.9931	0.0100	10.1	10.0	1.1	20.0
2-Chlorotoluene	Ave	0.8351	0.8711	0.0100	10.4	10.0	4.3	20.0
3-Chlorotoluene	Ave	0.8583	0.9243	0.0100	10.8	10.0	7.7	20.0
1,3,5-Trimethylbenzene	Ave	2.776	2.913	0.0100	10.5	10.0	4.9	20.0
4-Chlorotoluene	Ave	0.9190	0.9304	0.0100	10.1	10.0	1.2	20.0
tert-Butylbenzene	Ave	2.257	2.311	0.0100	10.2	10.0	2.4	20.0
1,2,4-Trimethylbenzene	Ave	2.781	2.878	0.0100	10.3	10.0	3.5	20.0
3,4-Dichlorobenzotrifluoride	Ave	0.7754	0.8040	0.0100	10.4	10.0	3.7	20.0
sec-Butylbenzene	Ave	3.187	3.352	0.0100	10.5	10.0	5.2	20.0
1,3-Dichlorobenzene	Ave	1.528	1.668	0.6000	10.9	10.0	9.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-155766/2 Calibration Date: 10/03/2015 12:18
 Instrument ID: CHHP5 Calib Start Date: 08/26/2015 15:04
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 08/26/2015 17:52
 Lab File ID: 51003002.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
4-Isopropyltoluene	Ave	2.696	2.886	0.0100	10.7	10.0	7.0	20.0
1,4-Dichlorobenzene	Ave	1.590	1.691	0.5000	10.6	10.0	6.4	20.0
2,4-Dichlorobenzotrifluoride	Ave	0.7185	0.7235	0.0100	10.1	10.0	0.7	20.0
2,5-Dichlorobenzotrifluoride	Ave	0.7765	0.7957	0.0100	10.2	10.0	2.5	20.0
n-Butylbenzene	Ave	2.307	2.259	0.0100	9.79	10.0	-2.1	20.0
1,2-Dichlorobenzene	Ave	1.428	1.521	0.4000	10.7	10.0	6.5	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1173	0.1125	0.0500	9.59	10.0	-4.1	20.0
2,4- & 2,5- & 2,6-Dichlorotoluene	Ave	0.8157	0.9200	0.0100	33.8	30.0	12.8	20.0
2,3- & 3,4- Dichlorotoluene	Ave	0.7778	0.8686	0.0100	22.3	20.0	11.7	20.0
1,2,4-Trichlorobenzene	Ave	0.5557	0.6213	0.2000	11.2	10.0	11.8	20.0
Hexachlorobutadiene	Ave	0.2677	0.3033	0.0100	11.3	10.0	13.3	20.0
Naphthalene	Ave	1.428	1.578	0.0100	11.1	10.0	10.5	20.0
1,2,3-Trichlorobenzene	Ave	0.4498	0.5034	0.0100	11.2	10.0	11.9	20.0
2,4,5-Trichlorotoluene	Ave	0.1623	0.1580	0.0100	9.74	10.0	-2.6	20.0
2,3,6-Trichlorotoluene	Ave	0.1496	0.1766	0.0100	11.8	10.0	18.0	20.0
Dibromofluoromethane (Surr)	Ave	0.2455	0.2343		9.54	10.0	-4.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3373	0.2995		8.88	10.0	-11.2	20.0
Toluene-d8 (Surr)	Ave	3.857	4.095		10.6	10.0	6.2	20.0
4-Bromofluorobenzene (Surr)	Ave	1.455	1.399		9.61	10.0	-3.9	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\51003002.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 03-Oct-2015 12:18:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 180-0008807-002
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub4
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 03-Oct-2015 13:06:39 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: fergusond

Date: 03-Oct-2015 12:35:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.283	4.283	0.000	0	130763	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.289	0.000	98	372851	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.385	10.385	0.000	87	90914	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.727	12.727	0.000	92	139552	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.565	6.565	0.000	93	87355	50.0	47.7	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.936	6.936	0.000	0	111678	50.0	44.4	
\$ 7 Toluene-d8 (Surr)	98	8.937	8.937	0.000	94	372315	50.0	53.1	
\$ 8 4-Bromofluorobenzene (Surr	95	11.571	11.571	0.000	90	127162	50.0	48.1	
11 Dichlorodifluoromethane	85	1.607	1.607	0.000	99	126526	50.0	60.1	
12 Chloromethane	50	1.771	1.771	0.000	100	175685	50.0	56.8	
13 Vinyl chloride	62	1.905	1.905	0.000	98	140915	50.0	51.4	
14 Butadiene	39	1.941	1.941	0.000	97	187247	50.0	57.8	
15 Bromomethane	94	2.239	2.239	0.000	90	61912	50.0	55.5	
16 Chloroethane	64	2.391	2.391	0.000	98	76127	50.0	46.0	
17 Dichlorofluoromethane	67	2.665	2.665	0.000	97	168337	50.0	47.9	
18 Trichlorofluoromethane	101	2.702	2.702	0.000	95	140062	50.0	53.3	
20 Ethyl ether	59	3.048	3.048	0.000	98	111656	50.0	45.9	
21 Acrolein	56	3.231	3.231	0.000	97	48183	150.0	132.8	
22 1,1-Dichloroethene	96	3.346	3.346	0.000	96	106648	50.0	51.4	
23 1,1,2-Trichloro-1,2,2-trif	101	3.407	3.407	0.000	92	113672	50.0	51.7	
24 Acetone	43	3.444	3.444	0.000	92	76879	100.0	102.2	
25 Iodomethane	142	3.553	3.553	0.000	96	159480	50.0	51.5	
26 Carbon disulfide	76	3.638	3.638	0.000	100	215883	50.0	44.8	
28 3-Chloro-1-propene	76	3.918	3.918	0.000	88	53781	50.0	45.7	
30 Methyl acetate	43	3.937	3.937	0.000	99	562676	250.0	250.3	
31 Methylene Chloride	84	4.137	4.137	0.000	98	119482	50.0	48.8	
32 2-Methyl-2-propanol	59	4.405	4.405	0.000	86	67169	500.0	456.4	
33 Acrylonitrile	53	4.527	4.527	0.000	98	540164	500.0	495.2	
34 trans-1,2-Dichloroethene	96	4.563	4.563	0.000	97	109021	50.0	48.4	
35 Methyl tert-butyl ether	73	4.581	4.581	0.000	95	232588	50.0	44.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.989	4.989	0.000	95	194548	50.0	51.4	
37 1,1-Dichloroethane	63	5.202	5.202	0.000	96	208111	50.0	46.9	
38 Vinyl acetate	43	5.251	5.251	0.000	97	221625	50.0	66.5	
44 2,2-Dichloropropane	77	5.944	5.944	0.000	59	74483	50.0	41.8	
45 cis-1,2-Dichloroethene	96	5.950	5.950	0.000	85	113151	50.0	47.0	
46 2-Butanone (MEK)	43	5.962	5.962	0.000	98	108636	100.0	96.1	
49 Chlorobromomethane	128	6.236	6.236	0.000	93	53018	50.0	50.1	
51 Tetrahydrofuran	42	6.248	6.248	0.000	90	81995	100.0	90.4	
52 Chloroform	83	6.382	6.382	0.000	96	177462	50.0	46.2	
53 1,1,1-Trichloroethane	97	6.540	6.540	0.000	96	133639	50.0	47.1	
54 Cyclohexane	56	6.613	6.613	0.000	95	227142	50.0	47.8	
56 Carbon tetrachloride	117	6.717	6.717	0.000	97	114547	50.0	47.4	
55 1,1-Dichloropropene	75	6.735	6.735	0.000	90	150448	50.0	47.9	
57 Isobutyl alcohol	41	6.924	6.924	0.000	88	94125	1250.0	1325.6	
58 Benzene	78	6.942	6.942	0.000	97	455562	50.0	49.6	
59 1,2-Dichloroethane	62	7.021	7.021	0.000	96	144314	50.0	45.4	
62 n-Heptane	43	7.307	7.307	0.000	97	186615	50.0	54.3	
64 Trichloroethene	130	7.678	7.678	0.000	95	116079	50.0	51.6	
66 Methylcyclohexane	83	7.915	7.915	0.000	95	174741	50.0	49.3	
67 1,2-Dichloropropane	63	7.946	7.946	0.000	95	116692	50.0	48.4	
68 Dibromomethane	93	8.037	8.037	0.000	93	58166	50.0	47.5	
70 1,4-Dioxane	88	8.037	8.037	0.000	38	19795	1000.0	1190.2	M
71 Dichlorobromomethane	83	8.232	8.232	0.000	97	107244	50.0	44.3	
74 cis-1,3-Dichloropropene	75	8.676	8.676	0.000	90	121261	50.0	42.7	
75 4-Methyl-2-pentanone (MIBK)	43	8.828	8.828	0.000	99	206329	100.0	92.1	
76 Toluene	91	9.004	9.004	0.000	98	478935	50.0	53.2	
77 trans-1,3-Dichloropropene	75	9.254	9.254	0.000	98	108446	50.0	46.2	
78 Ethyl methacrylate	69	9.308	9.308	0.000	95	103484	50.0	45.6	
79 1,1,2-Trichloroethane	97	9.442	9.442	0.000	92	88712	50.0	51.8	
80 Tetrachloroethene	164	9.515	9.515	0.000	98	98159	50.0	56.2	
81 1,3-Dichloropropane	76	9.600	9.600	0.000	98	153269	50.0	48.2	
82 2-Hexanone	43	9.655	9.655	0.000	98	150323	100.0	93.0	
84 Chlorodibromomethane	129	9.819	9.819	0.000	90	73972	50.0	49.9	
85 Ethylene Dibromide	107	9.929	9.929	0.000	96	84137	50.0	51.0	
86 3-Chlorobenzotrifluoride	180	10.391	10.391	0.000	86	164796	50.0	57.0	
87 Chlorobenzene	112	10.415	10.415	0.000	96	305467	50.0	52.7	
88 4-Chlorobenzotrifluoride	180	10.476	10.476	0.000	95	155069	50.0	56.7	
89 1,1,1,2-Tetrachloroethane	131	10.513	10.513	0.000	91	93700	50.0	49.6	
90 Ethylbenzene	106	10.519	10.519	0.000	99	163716	50.0	53.3	
91 m-Xylene & p-Xylene	106	10.647	10.647	0.000	0	203403	50.0	54.0	
92 o-Xylene	106	11.030	11.030	0.000	96	189480	50.0	52.9	
93 Styrene	104	11.048	11.048	0.000	95	319433	50.0	53.9	
94 Bromoform	173	11.231	11.231	0.000	95	40020	50.0	47.3	
96 2-Chlorobenzotrifluoride	180	11.298	11.298	0.000	97	153268	50.0	53.9	
97 Isopropylbenzene	105	11.395	11.395	0.000	96	470374	50.0	53.7	
99 1,1,2,2-Tetrachloroethane	83	11.705	11.705	0.000	78	118669	50.0	51.4	
100 Bromobenzene	156	11.711	11.711	0.000	92	125513	50.0	52.4	
102 trans-1,4-Dichloro-2-buten	53	11.742	11.742	0.000	76	28611	50.0	33.0	
101 1,2,3-Trichloropropane	110	11.766	11.766	0.000	87	40383	50.0	51.1	
103 N-Propylbenzene	120	11.815	11.815	0.000	99	138593	50.0	50.5	
104 2-Chlorotoluene	126	11.900	11.900	0.000	96	121567	50.0	52.2	
105 3-Chlorotoluene	126	11.967	11.967	0.000	95	128992	50.0	53.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.997	11.997	0.000	94	406522	50.0	52.5	
107 4-Chlorotoluene	126	12.022	12.022	0.000	97	129843	50.0	50.6	
108 tert-Butylbenzene	119	12.307	12.307	0.000	95	322515	50.0	51.2	
110 1,2,4-Trimethylbenzene	105	12.368	12.368	0.000	98	401602	50.0	51.7	
111 1,2-dichloro-4-(trifluorom	214	12.411	12.411	0.000	97	112200	50.0	51.8	
112 sec-Butylbenzene	105	12.533	12.533	0.000	95	467835	50.0	52.6	
113 1,3-Dichlorobenzene	146	12.648	12.648	0.000	99	232711	50.0	54.6	
114 4-Isopropyltoluene	119	12.691	12.691	0.000	97	402717	50.0	53.5	
115 1,4-Dichlorobenzene	146	12.752	12.752	0.000	95	236045	50.0	53.2	
116 2,4-Dichloro-1-(trifluorom	214	12.782	12.782	0.000	95	100969	50.0	50.4	
118 2,5-Dichlorobenzotrifluori	214	12.818	12.818	0.000	0	111042	50.0	51.2	
120 n-Butylbenzene	91	13.098	13.098	0.000	98	315245	50.0	49.0	
121 1,2-Dichlorobenzene	146	13.110	13.110	0.000	97	212279	50.0	53.3	
122 1,2-Dibromo-3-Chloropropan	75	13.907	13.907	0.000	82	15700	50.0	48.0	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.047	14.047	0.000	0	385144	150.0	169.2	
125 2,3- & 3,4- Dichlorotoluen	125	14.461	14.461	0.000	0	242437	100.0	111.7	
126 1,2,4-Trichlorobenzene	180	14.729	14.729	0.000	94	86706	50.0	55.9	
127 Hexachlorobutadiene	225	14.869	14.869	0.000	97	42319	50.0	56.6	
128 Naphthalene	128	14.990	14.990	0.000	97	220264	50.0	55.3	
129 1,2,3-Trichlorobenzene	180	15.215	15.215	0.000	97	70254	50.0	56.0	
131 2,4,5-Trichlorotoluene	159	15.994	15.994	0.000	0	22051	50.0	48.7	
130 2,3,6-Trichlorotoluene	159	16.091	16.091	0.000	97	24642	50.0	59.0	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		100.0	106.9	
S 134 1,2-Dichloroethene, Total	96				0		100.0	95.3	
S 135 1,3-Dichloropropene, Total	1				0		100.0	88.9	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

voaWAcro1stRe_00001	Amount Added: 6.00	Units: uL	
voaWKet1stRes_00001	Amount Added: 2.00	Units: uL	
VOA8260VOAPRI_00147	Amount Added: 2.00	Units: uL	
VOAVAPRI_00007	Amount Added: 2.00	Units: uL	
voaWEEpri Res_00006	Amount Added: 2.00	Units: uL	
VOA8260INT_00042	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\51003002.D

Injection Date: 03-Oct-2015 12:18:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

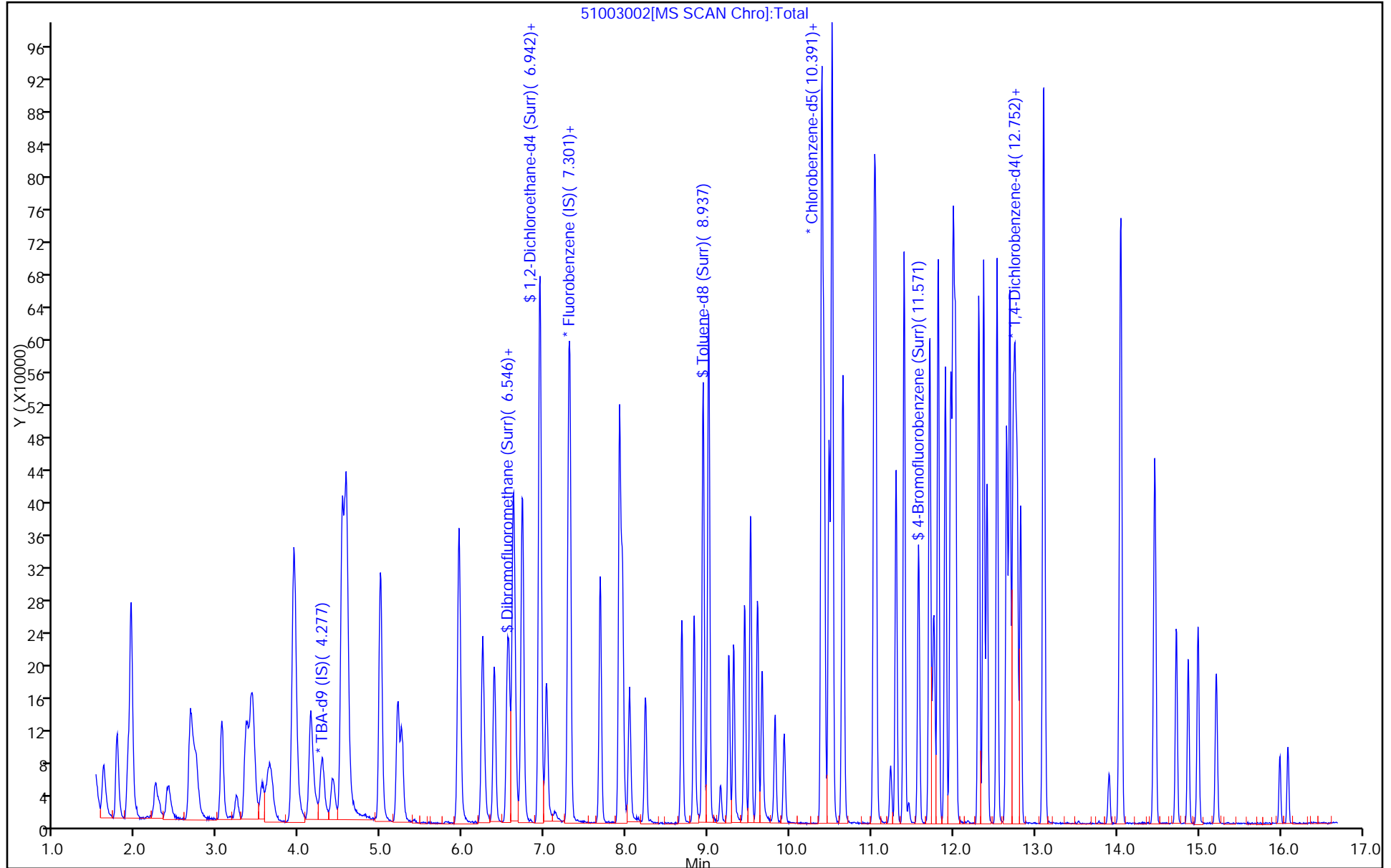
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



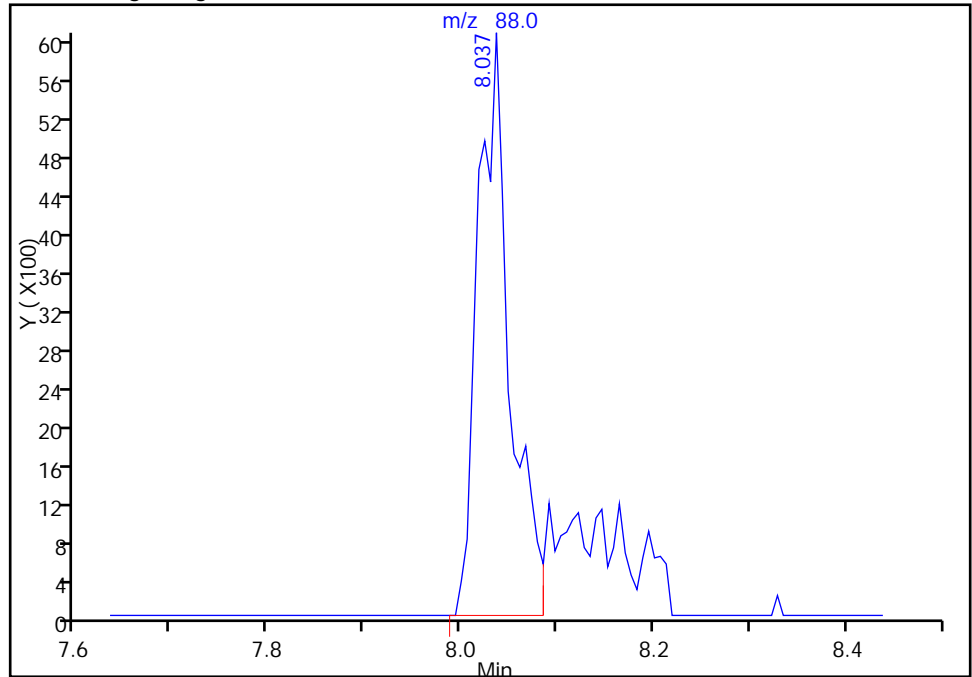
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\51003002.D
Injection Date: 03-Oct-2015 12:18:30 Instrument ID: CHHP5
Lims ID: CCVIS
Client ID:
Operator ID: 001562 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

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

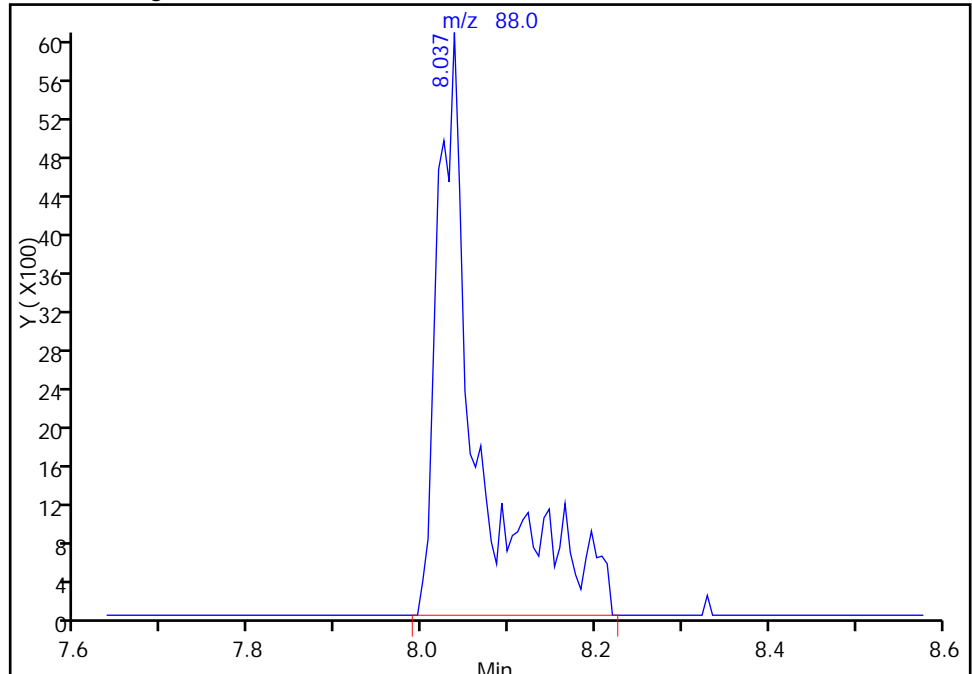
RT: 8.04
Area: 13965
Amount: 839.6677
Amount Units: ng

Processing Integration Results



RT: 8.04
Area: 19795
Amount: 1190.2057
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 03-Oct-2015 12:35:34
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-155884/2 Calibration Date: 10/05/2015 10:56
 Instrument ID: CHHP5 Calib Start Date: 08/26/2015 15:04
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 08/26/2015 17:52
 Lab File ID: 51005002.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	0.2825	0.2953	0.1000	10.5	10.0	4.5	20.0
Chloromethane	Ave	0.4148	0.4057	0.1000	9.78	10.0	-2.2	20.0
Vinyl chloride	Ave	0.3679	0.3401	0.1000	9.24	10.0	-7.6	20.0
1,3-Butadiene	Ave	0.4345	0.4422	0.0100	10.2	10.0	1.8	20.0
Bromomethane	Ave	0.1497	0.1481	0.0500	9.89	10.0	-1.1	20.0
Chloroethane	Ave	0.2220	0.1749	0.0500	7.88	10.0	-21.2*	20.0
Dichlorofluoromethane	Ave	0.4709	0.3982	0.0100	8.45	10.0	-15.5	20.0
Trichlorofluoromethane	Ave	0.3523	0.3423	0.1000	9.72	10.0	-2.8	20.0
Ethyl ether	Ave	0.3265	0.2724	0.0100	8.34	10.0	-16.6	20.0
Acrolein	Ave	0.0486	0.0393	0.0100	24.2	30.0	-19.2	20.0
1,1-Dichloroethene	Ave	0.2785	0.2607	0.1000	9.36	10.0	-6.4	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2951	0.2813	0.1000	9.53	10.0	-4.7	20.0
Acetone	Ave	0.1009	0.0974	0.0500	19.3	20.0	-3.5	20.0
Iodomethane	Ave	0.4150	0.3940	0.0100	9.49	10.0	-5.1	20.0
Carbon disulfide	Ave	0.6466	0.6056	0.1000	9.36	10.0	-6.4	20.0
Allyl chloride	Ave	0.1577	0.1335	0.0100	8.46	10.0	-15.4	20.0
Methyl acetate	Ave	0.3015	0.2915	0.1000	48.4	50.0	-3.3	20.0
Methylene Chloride	Lin2		0.2939	0.1000	8.86	10.0	-11.4	20.0
tert-Butyl alcohol	Ave	1.126	1.180	0.0100	105	100	4.9	20.0
Acrylonitrile	Ave	0.1463	0.1372	0.0100	93.8	100	-6.2	20.0
trans-1,2-Dichloroethene	Ave	0.3024	0.2740	0.1000	9.06	10.0	-9.4	20.0
Methyl tert-butyl ether	Ave	0.6999	0.5847	0.1000	8.35	10.0	-16.5	20.0
Hexane	Ave	0.5076	0.4487	0.0100	8.84	10.0	-11.6	20.0
1,1-Dichloroethane	Ave	0.5957	0.5087	0.2000	8.54	10.0	-14.6	20.0
Vinyl acetate	Ave	0.4469	0.4517	0.0100	10.1	10.0	1.1	20.0
2,2-Dichloropropane	Ave	0.2387	0.1941	0.0100	8.13	10.0	-18.7	20.0
cis-1,2-Dichloroethene	Ave	0.3230	0.2850	0.1000	8.82	10.0	-11.8	20.0
2-Butanone (MEK)	Ave	0.1516	0.1393	0.0500	18.4	20.0	-8.1	20.0
Bromochloromethane	Ave	0.1418	0.1353	0.0100	9.54	10.0	-4.6	20.0
Tetrahydrofuran	Ave	0.1216	0.1036	0.0100	17.0	20.0	-14.8	20.0
Chloroform	Ave	0.5146	0.4380	0.2000	8.51	10.0	-14.9	20.0
1,1,1-Trichloroethane	Ave	0.3805	0.3347	0.1000	8.80	10.0	-12.0	20.0
Cyclohexane	Ave	0.6367	0.5517	0.1000	8.66	10.0	-13.4	20.0
Carbon tetrachloride	Ave	0.3240	0.3088	0.1000	9.53	10.0	-4.7	20.0
1,1-Dichloropropene	Ave	0.4208	0.3611	0.0100	8.58	10.0	-14.2	20.0
Isobutyl alcohol	Ave	0.0095	0.0093*	0.0100	244	250	-2.3	20.0
Benzene	Ave	1.233	1.121	0.5000	9.09	10.0	-9.1	20.0
1,2-Dichloroethane	Ave	0.4264	0.3541	0.1000	8.30	10.0	-17.0	20.0
n-Heptane	Ave	0.4611	0.4393	0.0100	9.53	10.0	-4.7	20.0
Trichloroethene	Ave	0.3016	0.2864	0.2000	9.50	10.0	-5.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-155884/2 Calibration Date: 10/05/2015 10:56
 Instrument ID: CHHP5 Calib Start Date: 08/26/2015 15:04
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 08/26/2015 17:52
 Lab File ID: 51005002.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
Methylcyclohexane	Ave	0.4753	0.4224	0.1000	8.89	10.0	-11.1	20.0
1,2-Dichloropropane	Ave	0.3235	0.2920	0.1000	9.03	10.0	-9.7	20.0
1,4-Dioxane	Ave	0.0022	0.0025*	0.0100	223	200	11.6	20.0
Dibromomethane	Ave	0.1642	0.1413	0.0100	8.61	10.0	-13.9	20.0
Bromodichloromethane	Ave	0.3249	0.2855	0.2000	8.79	10.0	-12.1	20.0
cis-1,3-Dichloropropene	Ave	0.3807	0.3101	0.2000	8.15	10.0	-18.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.232	1.097	0.1000	17.8	20.0	-11.0	20.0
Toluene	Ave	4.950	4.943	0.4000	9.99	10.0	-0.1	20.0
trans-1,3-Dichloropropene	Ave	1.292	1.180	0.1000	9.13	10.0	-8.7	20.0
Ethyl methacrylate	Ave	1.249	1.125	0.0100	9.01	10.0	-9.9	20.0
1,1,2-Trichloroethane	Ave	0.9416	0.9255	0.1000	9.83	10.0	-1.7	20.0
Tetrachloroethene	Ave	0.9609	1.020	0.2000	10.6	10.0	6.1	20.0
1,3-Dichloropropane	Ave	1.748	1.626	0.0100	9.30	10.0	-7.0	20.0
2-Hexanone	Ave	0.8893	0.8315	0.1000	18.7	20.0	-6.5	20.0
Dibromochloromethane	Ave	0.8152	0.8893	0.1000	10.9	10.0	9.1	20.0
1,2-Dibromoethane (EDB)	Ave	0.9073	0.8939	0.1000	9.85	10.0	-1.5	20.0
3-Chlorobenzotrifluoride	Ave	1.591	1.609	0.0100	10.1	10.0	1.2	20.0
Chlorobenzene	Ave	3.187	3.128	0.5000	9.81	10.0	-1.9	20.0
4-Chlorobenzotrifluoride	Ave	1.504	1.570	0.0100	10.4	10.0	4.4	20.0
1,1,1,2-Tetrachloroethane	Ave	1.039	1.039	0.0100	10.0	10.0	0.0	20.0
Ethylbenzene	Ave	1.690	1.689	0.1000	10.0	10.0	-0.0	20.0
m-Xylene & p-Xylene	Ave	2.072	2.084	0.1000	10.1	10.0	0.6	20.0
o-Xylene	Ave	1.969	1.926	0.3000	9.78	10.0	-2.2	20.0
Styrene	Ave	3.262	3.367	0.3000	10.3	10.0	3.2	20.0
Bromoform	Ave	0.4652	0.4754	0.1000	10.2	10.0	2.2	20.0
2-Chlorobenzotrifluoride	Ave	1.565	1.645	0.0100	10.5	10.0	5.1	20.0
Isopropylbenzene	Ave	4.822	4.842	0.1000	10.0	10.0	0.4	20.0
1,1,2,2-Tetrachloroethane	Ave	1.270	1.213	0.3000	9.55	10.0	-4.5	20.0
Bromobenzene	Ave	0.8583	0.8418	0.0100	9.81	10.0	-1.9	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3103	0.1871	0.0100	6.03	10.0	-39.7*	20.0
1,2,3-Trichloropropane	Ave	0.2831	0.2651	0.0100	9.36	10.0	-6.4	20.0
N-Propylbenzene	Ave	0.9825	0.9278	0.0100	9.44	10.0	-5.6	20.0
2-Chlorotoluene	Ave	0.8351	0.8198	0.0100	9.82	10.0	-1.8	20.0
3-Chlorotoluene	Ave	0.8583	0.8361	0.0100	9.74	10.0	-2.6	20.0
1,3,5-Trimethylbenzene	Ave	2.776	2.720	0.0100	9.80	10.0	-2.0	20.0
4-Chlorotoluene	Ave	0.9190	0.8995	0.0100	9.79	10.0	-2.1	20.0
tert-Butylbenzene	Ave	2.257	2.175	0.0100	9.64	10.0	-3.6	20.0
1,2,4-Trimethylbenzene	Ave	2.781	2.754	0.0100	9.90	10.0	-1.0	20.0
3,4-Dichlorobenzotrifluoride	Ave	0.7754	0.7579	0.0100	9.77	10.0	-2.3	20.0
sec-Butylbenzene	Ave	3.187	3.162	0.0100	9.92	10.0	-0.8	20.0
1,3-Dichlorobenzene	Ave	1.528	1.602	0.6000	10.5	10.0	4.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-155884/2 Calibration Date: 10/05/2015 10:56
 Instrument ID: CHHP5 Calib Start Date: 08/26/2015 15:04
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 08/26/2015 17:52
 Lab File ID: 51005002.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
4-Isopropyltoluene	Ave	2.696	2.708	0.0100	10.0	10.0	0.5	20.0
1,4-Dichlorobenzene	Ave	1.590	1.637	0.5000	10.3	10.0	3.0	20.0
2,4-Dichlorobenzotrifluoride	Ave	0.7185	0.7165	0.0100	9.97	10.0	-0.3	20.0
2,5-Dichlorobenzotrifluoride	Ave	0.7765	0.7699	0.0100	9.92	10.0	-0.8	20.0
n-Butylbenzene	Ave	2.307	2.191	0.0100	9.50	10.0	-5.0	20.0
1,2-Dichlorobenzene	Ave	1.428	1.504	0.4000	10.5	10.0	5.3	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1173	0.1186	0.0500	10.1	10.0	1.1	20.0
2,4- & 2,5- & 2,6-Dichlorotoluene	Ave	0.8157	0.8789	0.0100	32.3	30.0	7.7	20.0
2,3- & 3,4- Dichlorotoluene	Ave	0.7778	0.8424	0.0100	21.7	20.0	8.3	20.0
1,2,4-Trichlorobenzene	Ave	0.5557	0.6224	0.2000	11.2	10.0	12.0	20.0
Hexachlorobutadiene	Ave	0.2677	0.2987	0.0100	11.2	10.0	11.6	20.0
Naphthalene	Ave	1.428	1.550	0.0100	10.9	10.0	8.5	20.0
1,2,3-Trichlorobenzene	Ave	0.4498	0.5206	0.0100	11.6	10.0	15.7	20.0
2,4,5-Trichlorotoluene	Ave	0.1623	0.1597	0.0100	9.84	10.0	-1.6	20.0
2,3,6-Trichlorotoluene	Ave	0.1496	0.1606	0.0100	10.7	10.0	7.3	20.0
Dibromofluoromethane (Surr)	Ave	0.2455	0.2193		8.93	10.0	-10.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3373	0.2797		8.29	10.0	-17.1	20.0
Toluene-d8 (Surr)	Ave	3.857	3.757		9.74	10.0	-2.6	20.0
4-Bromofluorobenzene (Surr)	Ave	1.455	1.225		8.42	10.0	-15.8	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005002.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 05-Oct-2015 10:56:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 180-0008828-002
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub4
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 05-Oct-2015 12:09:15 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: fergusond

Date: 05-Oct-2015 11:11:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.281	4.281	0.000	0	125348	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.292	7.292	0.000	98	389208	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.388	10.388	0.000	87	92325	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.730	12.730	0.000	94	138714	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.568	6.568	0.000	94	85361	50.0	44.7	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.933	6.933	0.000	0	108875	50.0	41.5	
\$ 7 Toluene-d8 (Surr)	98	8.940	8.940	0.000	94	346854	50.0	48.7	
\$ 8 4-Bromofluorobenzene (Surr	95	11.575	11.575	0.000	92	113113	50.0	42.1	
11 Dichlorodifluoromethane	85	1.604	1.604	0.000	99	114928	50.0	52.3	
12 Chloromethane	50	1.774	1.774	0.000	99	157900	50.0	48.9	
13 Vinyl chloride	62	1.908	1.908	0.000	98	132359	50.0	46.2	
14 Butadiene	39	1.951	1.951	0.000	99	172094	50.0	50.9	
15 Bromomethane	94	2.249	2.249	0.000	91	57638	50.0	49.5	
16 Chloroethane	64	2.413	2.413	0.000	98	68055	50.0	39.4	
17 Dichlorofluoromethane	67	2.675	2.675	0.000	98	154963	50.0	42.3	
18 Trichlorofluoromethane	101	2.699	2.699	0.000	95	133231	50.0	48.6	
20 Ethyl ether	59	3.046	3.046	0.000	96	106015	50.0	41.7	
21 Acrolein	56	3.222	3.222	0.000	99	45877	150.0	121.2	
22 1,1-Dichloroethene	96	3.344	3.344	0.000	95	101461	50.0	46.8	
23 1,1,2-Trichloro-1,2,2-trif	101	3.423	3.423	0.000	92	109482	50.0	47.7	
24 Acetone	43	3.441	3.441	0.000	99	75779	100.0	96.5	
25 Iodomethane	142	3.538	3.538	0.000	99	153346	50.0	47.5	
26 Carbon disulfide	76	3.636	3.636	0.000	100	235692	50.0	46.8	
28 3-Chloro-1-propene	76	3.922	3.922	0.000	89	51964	50.0	42.3	
30 Methyl acetate	43	3.940	3.940	0.000	99	567330	250.0	241.8	
31 Methylene Chloride	84	4.141	4.141	0.000	98	114392	50.0	44.3	
32 2-Methyl-2-propanol	59	4.402	4.402	0.000	87	73968	500.0	524.3	
33 Acrylonitrile	53	4.524	4.524	0.000	97	533822	500.0	468.8	
34 trans-1,2-Dichloroethene	96	4.566	4.566	0.000	96	106640	50.0	45.3	
35 Methyl tert-butyl ether	73	4.579	4.579	0.000	94	227553	50.0	41.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.992	4.992	0.000	95	174620	50.0	44.2	
37 1,1-Dichloroethane	63	5.199	5.199	0.000	97	197976	50.0	42.7	
38 Vinyl acetate	43	5.254	5.254	0.000	98	175817	50.0	50.5	
44 2,2-Dichloropropane	77	5.947	5.947	0.000	82	75559	50.0	40.7	
45 cis-1,2-Dichloroethene	96	5.954	5.954	0.000	84	110941	50.0	44.1	
46 2-Butanone (MEK)	43	5.966	5.966	0.000	90	108402	100.0	91.9	
49 Chlorobromomethane	128	6.233	6.233	0.000	95	52647	50.0	47.7	
51 Tetrahydrofuran	42	6.252	6.252	0.000	93	80651	100.0	85.2	
52 Chloroform	83	6.379	6.379	0.000	96	170473	50.0	42.6	
53 1,1,1-Trichloroethane	97	6.550	6.550	0.000	96	130271	50.0	44.0	
54 Cyclohexane	56	6.617	6.617	0.000	95	214719	50.0	43.3	
56 Carbon tetrachloride	117	6.720	6.720	0.000	96	120167	50.0	47.6	
55 1,1-Dichloropropene	75	6.732	6.732	0.000	91	140552	50.0	42.9	
57 Isobutyl alcohol	41	6.927	6.927	0.000	90	90495	1250.0	1221.0	
58 Benzene	78	6.945	6.945	0.000	98	436137	50.0	45.4	
59 1,2-Dichloroethane	62	7.024	7.024	0.000	95	137816	50.0	41.5	
62 n-Heptane	43	7.310	7.310	0.000	96	170962	50.0	47.6	
64 Trichloroethene	130	7.675	7.675	0.000	96	111479	50.0	47.5	
66 Methylcyclohexane	83	7.912	7.912	0.000	94	164418	50.0	44.4	
67 1,2-Dichloropropane	63	7.949	7.949	0.000	96	113656	50.0	45.1	
68 Dibromomethane	93	8.034	8.034	0.000	95	55002	50.0	43.0	
70 1,4-Dioxane	88	8.034	8.034	0.000	40	19375	1000.0	1116.0	
71 Dichlorobromomethane	83	8.235	8.235	0.000	98	111112	50.0	43.9	
74 cis-1,3-Dichloropropene	75	8.679	8.679	0.000	90	120696	50.0	40.7	
75 4-Methyl-2-pentanone (MIBK)	43	8.825	8.825	0.000	99	202528	100.0	89.0	
76 Toluene	91	9.007	9.007	0.000	98	456382	50.0	49.9	
77 trans-1,3-Dichloropropene	75	9.257	9.257	0.000	98	108950	50.0	45.7	
78 Ethyl methacrylate	69	9.312	9.312	0.000	93	103890	50.0	45.0	
79 1,1,2-Trichloroethane	97	9.445	9.445	0.000	93	85442	50.0	49.1	
80 Tetrachloroethene	164	9.518	9.518	0.000	97	94129	50.0	53.1	
81 1,3-Dichloropropane	76	9.604	9.604	0.000	98	150139	50.0	46.5	
82 2-Hexanone	43	9.658	9.658	0.000	99	153528	100.0	93.5	
84 Chlorodibromomethane	129	9.823	9.823	0.000	91	82106	50.0	54.5	
85 Ethylene Dibromide	107	9.932	9.932	0.000	98	82532	50.0	49.3	
86 3-Chlorobenzotrifluoride	180	10.394	10.394	0.000	85	148557	50.0	50.6	
87 Chlorobenzene	112	10.419	10.419	0.000	95	288768	50.0	49.1	
88 4-Chlorobenzotrifluoride	180	10.480	10.480	0.000	95	144928	50.0	52.2	
89 1,1,1,2-Tetrachloroethane	131	10.510	10.510	0.000	94	95914	50.0	50.0	
90 Ethylbenzene	106	10.522	10.522	0.000	98	155928	50.0	50.0	
91 m-Xylene & p-Xylene	106	10.650	10.650	0.000	0	192369	50.0	50.3	
92 o-Xylene	106	11.033	11.033	0.000	97	177820	50.0	48.9	
93 Styrene	104	11.051	11.051	0.000	96	310895	50.0	51.6	
94 Bromoform	173	11.228	11.228	0.000	96	43893	50.0	51.1	
96 2-Chlorobenzotrifluoride	180	11.301	11.301	0.000	98	151852	50.0	52.5	
97 Isopropylbenzene	105	11.398	11.398	0.000	96	447072	50.0	50.2	
99 1,1,2,2-Tetrachloroethane	83	11.708	11.708	0.000	94	111956	50.0	47.7	
100 Bromobenzene	156	11.708	11.708	0.000	92	116765	50.0	49.0	
102 trans-1,4-Dichloro-2-buten	53	11.745	11.745	0.000	79	25951	50.0	30.1	
101 1,2,3-Trichloropropane	110	11.769	11.769	0.000	85	36770	50.0	46.8	
103 N-Propylbenzene	120	11.812	11.812	0.000	99	128698	50.0	47.2	
104 2-Chlorotoluene	126	11.903	11.903	0.000	97	113711	50.0	49.1	
105 3-Chlorotoluene	126	11.970	11.970	0.000	94	115983	50.0	48.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.994	11.994	0.000	94	377283	50.0	49.0	
107 4-Chlorotoluene	126	12.025	12.025	0.000	97	124770	50.0	48.9	
108 tert-Butylbenzene	119	12.311	12.311	0.000	95	301705	50.0	48.2	
110 1,2,4-Trimethylbenzene	105	12.372	12.372	0.000	97	381966	50.0	49.5	
111 1,2-dichloro-4-(trifluorom	214	12.408	12.408	0.000	98	105124	50.0	48.9	
112 sec-Butylbenzene	105	12.536	12.536	0.000	94	438588	50.0	49.6	
113 1,3-Dichlorobenzene	146	12.651	12.651	0.000	99	222204	50.0	52.4	
114 4-Isopropyltoluene	119	12.688	12.688	0.000	97	375696	50.0	50.2	
115 1,4-Dichlorobenzene	146	12.755	12.755	0.000	97	227059	50.0	51.5	
116 2,4-Dichloro-1-(trifluorom	214	12.779	12.779	0.000	96	99394	50.0	49.9	
118 2,5-Dichlorobenzotrifluori	214	12.822	12.822	0.000	0	106797	50.0	49.6	
120 n-Butylbenzene	91	13.102	13.102	0.000	98	303982	50.0	47.5	
121 1,2-Dichlorobenzene	146	13.108	13.108	0.000	99	208633	50.0	52.7	
122 1,2-Dibromo-3-Chloropropan	75	13.905	13.905	0.000	80	16451	50.0	50.6	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.045	14.045	0.000	0	365735	150.0	161.6	
125 2,3- & 3,4- Dichlorotoluen	125	14.464	14.464	0.000	0	233695	100.0	108.3	
126 1,2,4-Trichlorobenzene	180	14.726	14.726	0.000	93	86338	50.0	56.0	
127 Hexachlorobutadiene	225	14.872	14.872	0.000	97	41438	50.0	55.8	
128 Naphthalene	128	14.994	14.994	0.000	97	214965	50.0	54.3	
129 1,2,3-Trichlorobenzene	180	15.219	15.219	0.000	96	72208	50.0	57.9	
131 2,4,5-Trichlorotoluene	159	15.991	15.991	0.000	0	22149	50.0	49.2	
130 2,3,6-Trichlorotoluene	159	16.095	16.095	0.000	96	22279	50.0	53.7	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
S 134 1,2-Dichloroethene, Total	96				0		100.0	89.4	
S 133 Xylenes, Total	106				0		100.0	99.2	
S 135 1,3-Dichloropropene, Total	1				0		100.0	86.4	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

voaWAcro1stRe_00001	Amount Added: 6.00	Units: uL	
voaWKet1stRes_00001	Amount Added: 2.00	Units: uL	
VOA8260VOAPRI_00147	Amount Added: 2.00	Units: uL	
voaWEEpri Res_00006	Amount Added: 2.00	Units: uL	
voaWVA2nd Res_00010	Amount Added: 2.00	Units: uL	
VOA8260INT_00042	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005002.D

Injection Date: 05-Oct-2015 10:56:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

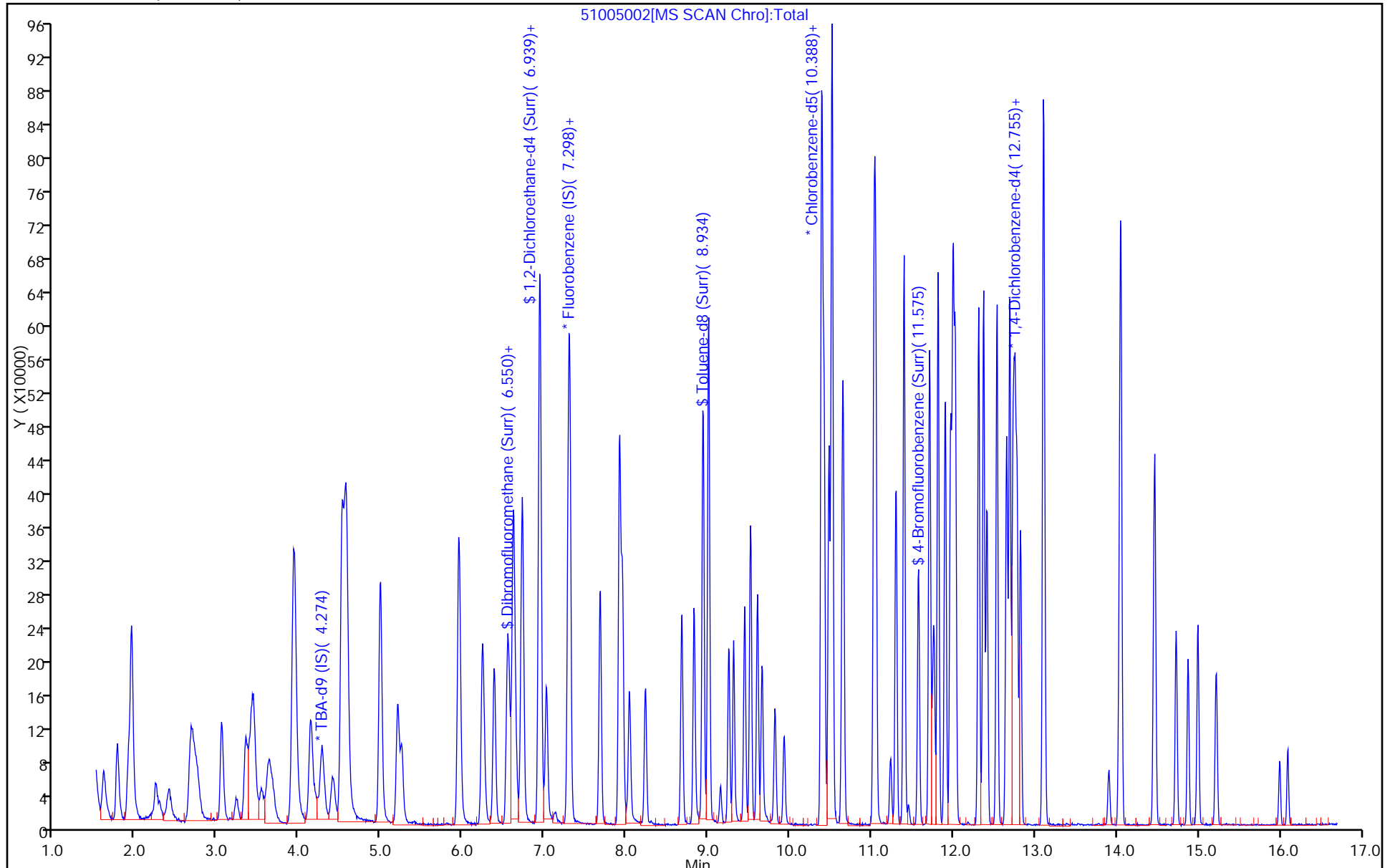
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-156037/2 Calibration Date: 10/06/2015 12:41
 Instrument ID: CHHP5 Calib Start Date: 08/26/2015 15:04
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 08/26/2015 17:52
 Lab File ID: 51006002.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	0.2825	0.2938	0.1000	10.4	10.0	4.0	20.0
Chloromethane	Ave	0.4148	0.3761	0.1000	9.07	10.0	-9.3	20.0
Vinyl chloride	Ave	0.3679	0.3022	0.1000	8.21	10.0	-17.9	20.0
1,3-Butadiene	Ave	0.4345	0.4123	0.0100	9.49	10.0	-5.1	20.0
Bromomethane	Ave	0.1497	0.1271	0.0500	8.49	10.0	-15.1	20.0
Chloroethane	Ave	0.2220	0.1516	0.0500	6.83	10.0	-31.7*	20.0
Dichlorofluoromethane	Ave	0.4709	0.3811	0.0100	8.09	10.0	-19.1	20.0
Trichlorofluoromethane	Ave	0.3523	0.3513	0.1000	9.97	10.0	-0.3	20.0
Ethyl ether	Ave	0.3265	0.2849	0.0100	8.73	10.0	-12.7	20.0
Acrolein	Ave	0.0486	0.0413	0.0100	25.5	30.0	-15.2	20.0
1,1-Dichloroethene	Ave	0.2785	0.2709	0.1000	9.73	10.0	-2.7	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2951	0.2949	0.1000	9.99	10.0	-0.0	20.0
Acetone	Ave	0.1009	0.1108	0.0500	22.0	20.0	9.8	20.0
Iodomethane	Ave	0.4150	0.4178	0.0100	10.1	10.0	0.7	20.0
Carbon disulfide	Ave	0.6466	0.6918	0.1000	10.7	10.0	7.0	20.0
Allyl chloride	Ave	0.1577	0.1480	0.0100	9.38	10.0	-6.2	20.0
Methyl acetate	Ave	0.3015	0.3038	0.1000	50.4	50.0	0.8	20.0
Methylene Chloride	Lin2		0.3073	0.1000	9.32	10.0	-6.8	20.0
tert-Butyl alcohol	Ave	1.126	1.203	0.0100	107	100	6.9	20.0
Acrylonitrile	Ave	0.1463	0.1390	0.0100	95.0	100	-5.0	20.0
trans-1,2-Dichloroethene	Ave	0.3024	0.2879	0.1000	9.52	10.0	-4.8	20.0
Methyl tert-butyl ether	Ave	0.6999	0.6180	0.1000	8.83	10.0	-11.7	20.0
Hexane	Ave	0.5076	0.4954	0.0100	9.76	10.0	-2.4	20.0
1,1-Dichloroethane	Ave	0.5957	0.5431	0.2000	9.12	10.0	-8.8	20.0
Vinyl acetate	Ave	0.4469	0.4821	0.0100	10.8	10.0	7.9	20.0
2,2-Dichloropropane	Ave	0.2387	0.2041	0.0100	8.55	10.0	-14.5	20.0
cis-1,2-Dichloroethene	Ave	0.3230	0.3002	0.1000	9.29	10.0	-7.1	20.0
2-Butanone (MEK)	Ave	0.1516	0.1619	0.0500	21.4	20.0	6.8	20.0
Bromochloromethane	Ave	0.1418	0.1480	0.0100	10.4	10.0	4.3	20.0
Tetrahydrofuran	Ave	0.1216	0.1104	0.0100	18.2	20.0	-9.2	20.0
Chloroform	Ave	0.5146	0.4514	0.2000	8.77	10.0	-12.3	20.0
1,1,1-Trichloroethane	Ave	0.3805	0.3494	0.1000	9.18	10.0	-8.2	20.0
Cyclohexane	Ave	0.6367	0.5849	0.1000	9.19	10.0	-8.1	20.0
Carbon tetrachloride	Ave	0.3240	0.3160	0.1000	9.75	10.0	-2.5	20.0
1,1-Dichloropropene	Ave	0.4208	0.3790	0.0100	9.01	10.0	-9.9	20.0
Isobutyl alcohol	Ave	0.0095	0.0097*	0.0100	256	250	2.2	20.0
Benzene	Ave	1.233	1.189	0.5000	9.65	10.0	-3.5	20.0
1,2-Dichloroethane	Ave	0.4264	0.3665	0.1000	8.59	10.0	-14.1	20.0
n-Heptane	Ave	0.4611	0.4778	0.0100	10.4	10.0	3.6	20.0
Trichloroethene	Ave	0.3016	0.3085	0.2000	10.2	10.0	2.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-156037/2 Calibration Date: 10/06/2015 12:41
 Instrument ID: CHHP5 Calib Start Date: 08/26/2015 15:04
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 08/26/2015 17:52
 Lab File ID: 51006002.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
Methylcyclohexane	Ave	0.4753	0.4590	0.1000	9.66	10.0	-3.4	20.0
1,2-Dichloropropane	Ave	0.3235	0.2999	0.1000	9.27	10.0	-7.3	20.0
1,4-Dioxane	Ave	0.0022	0.0025*	0.0100	221	200	10.5	20.0
Dibromomethane	Ave	0.1642	0.1530	0.0100	9.32	10.0	-6.8	20.0
Bromodichloromethane	Ave	0.3249	0.2950	0.2000	9.08	10.0	-9.2	20.0
cis-1,3-Dichloropropene	Ave	0.3807	0.3250	0.2000	8.54	10.0	-14.6	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.232	1.133	0.1000	18.4	20.0	-8.0	20.0
Toluene	Ave	4.950	5.177	0.4000	10.5	10.0	4.6	20.0
trans-1,3-Dichloropropene	Ave	1.292	1.149	0.1000	8.90	10.0	-11.0	20.0
Ethyl methacrylate	Ave	1.249	1.133	0.0100	9.07	10.0	-9.3	20.0
1,1,2-Trichloroethane	Ave	0.9416	0.9509	0.1000	10.1	10.0	1.0	20.0
Tetrachloroethene	Ave	0.9609	1.084	0.2000	11.3	10.0	12.8	20.0
1,3-Dichloropropane	Ave	1.748	1.612	0.0100	9.22	10.0	-7.8	20.0
2-Hexanone	Ave	0.8893	0.9198	0.1000	20.7	20.0	3.4	20.0
Dibromochloromethane	Ave	0.8152	0.8815	0.1000	10.8	10.0	8.1	20.0
1,2-Dibromoethane (EDB)	Ave	0.9073	0.8925	0.1000	9.84	10.0	-1.6	20.0
3-Chlorobenzotrifluoride	Ave	1.591	1.829	0.0100	11.5	10.0	15.0	20.0
Chlorobenzene	Ave	3.187	3.221	0.5000	10.1	10.0	1.1	20.0
4-Chlorobenzotrifluoride	Ave	1.504	1.727	0.0100	11.5	10.0	14.9	20.0
1,1,1,2-Tetrachloroethane	Ave	1.039	1.068	0.0100	10.3	10.0	2.8	20.0
Ethylbenzene	Ave	1.690	1.766	0.1000	10.4	10.0	4.5	20.0
m-Xylene & p-Xylene	Ave	2.072	2.191	0.1000	10.6	10.0	5.7	20.0
o-Xylene	Ave	1.969	2.101	0.3000	10.7	10.0	6.7	20.0
Styrene	Ave	3.262	3.485	0.3000	10.7	10.0	6.8	20.0
Bromoform	Ave	0.4652	0.4552	0.1000	9.78	10.0	-2.2	20.0
2-Chlorobenzotrifluoride	Ave	1.565	1.766	0.0100	11.3	10.0	12.9	20.0
Isopropylbenzene	Ave	4.822	5.179	0.1000	10.7	10.0	7.4	20.0
1,1,2,2-Tetrachloroethane	Ave	1.270	1.274	0.3000	10.0	10.0	0.3	20.0
Bromobenzene	Ave	0.8583	0.8587	0.0100	10.0	10.0	0.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3103	0.1121	0.0100	3.61	10.0	-63.9*	20.0
1,2,3-Trichloropropane	Ave	0.2831	0.2627	0.0100	9.28	10.0	-7.2	20.0
N-Propylbenzene	Ave	0.9825	0.9385	0.0100	9.55	10.0	-4.5	20.0
2-Chlorotoluene	Ave	0.8351	0.8299	0.0100	9.94	10.0	-0.6	20.0
3-Chlorotoluene	Ave	0.8583	0.8722	0.0100	10.2	10.0	1.6	20.0
1,3,5-Trimethylbenzene	Ave	2.776	2.795	0.0100	10.1	10.0	0.7	20.0
4-Chlorotoluene	Ave	0.9190	0.9231	0.0100	10.0	10.0	0.4	20.0
tert-Butylbenzene	Ave	2.257	2.267	0.0100	10.0	10.0	0.5	20.0
1,2,4-Trimethylbenzene	Ave	2.781	2.809	0.0100	10.1	10.0	1.0	20.0
3,4-Dichlorobenzotrifluoride	Ave	0.7754	0.8087	0.0100	10.4	10.0	4.3	20.0
sec-Butylbenzene	Ave	3.187	3.241	0.0100	10.2	10.0	1.7	20.0
1,3-Dichlorobenzene	Ave	1.528	1.608	0.6000	10.5	10.0	5.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-156037/2 Calibration Date: 10/06/2015 12:41
 Instrument ID: CHHP5 Calib Start Date: 08/26/2015 15:04
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 08/26/2015 17:52
 Lab File ID: 51006002.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
4-Isopropyltoluene	Ave	2.696	2.773	0.0100	10.3	10.0	2.9	20.0
1,4-Dichlorobenzene	Ave	1.590	1.625	0.5000	10.2	10.0	2.2	20.0
2,4-Dichlorobenzotrifluoride	Ave	0.7185	0.7559	0.0100	10.5	10.0	5.2	20.0
2,5-Dichlorobenzotrifluoride	Ave	0.7765	0.8068	0.0100	10.4	10.0	3.9	20.0
n-Butylbenzene	Ave	2.307	2.219	0.0100	9.62	10.0	-3.8	20.0
1,2-Dichlorobenzene	Ave	1.428	1.482	0.4000	10.4	10.0	3.8	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1173	0.1096	0.0500	9.35	10.0	-6.5	20.0
2,4- & 2,5- & 2,6-Dichlorotoluene	Ave	0.8157	0.9203	0.0100	33.8	30.0	12.8	20.0
2,3- & 3,4- Dichlorotoluene	Ave	0.7778	0.8734	0.0100	22.5	20.0	12.3	20.0
1,2,4-Trichlorobenzene	Ave	0.5557	0.6160	0.2000	11.1	10.0	10.9	20.0
Hexachlorobutadiene	Ave	0.2677	0.3075	0.0100	11.5	10.0	14.9	20.0
Naphthalene	Ave	1.428	1.640	0.0100	11.5	10.0	14.8	20.0
1,2,3-Trichlorobenzene	Ave	0.4498	0.5246	0.0100	11.7	10.0	16.6	20.0
2,4,5-Trichlorotoluene	Ave	0.1623	0.1672	0.0100	10.3	10.0	3.0	20.0
2,3,6-Trichlorotoluene	Ave	0.1496	0.1907	0.0100	12.7	10.0	27.4*	20.0
Dibromofluoromethane (Surr)	Ave	0.2455	0.2384		9.71	10.0	-2.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3373	0.2876		8.53	10.0	-14.7	20.0
Toluene-d8 (Surr)	Ave	3.857	3.950		10.2	10.0	2.4	20.0
4-Bromofluorobenzene (Surr)	Ave	1.455	1.327		9.12	10.0	-8.8	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006002.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 06-Oct-2015 12:41:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 180-0008850-002
 Operator ID: 001562 Instrument ID: CHHP5
 Sublist: chrom-MSVOA_LL_CHHP5*sub4
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 06-Oct-2015 13:34:58 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: fergusond

Date: 06-Oct-2015 13:21:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.279	4.279	0.000	0	119717	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.290	0.000	98	353123	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.387	10.387	0.000	87	84941	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.729	12.729	0.000	92	132831	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.560	6.560	0.000	94	84166	50.0	48.5	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.937	6.937	0.000	0	101557	50.0	42.6	
\$ 7 Toluene-d8 (Surr)	98	8.939	8.939	0.000	93	335485	50.0	51.2	
\$ 8 4-Bromofluorobenzene (Surr	95	11.573	11.573	0.000	93	112678	50.0	45.6	
11 Dichlorodifluoromethane	85	1.608	1.608	0.000	99	103733	50.0	52.0	
12 Chloromethane	50	1.779	1.779	0.000	100	132803	50.0	45.3	
13 Vinyl chloride	62	1.912	1.912	0.000	98	106723	50.0	41.1	
14 Butadiene	39	1.949	1.949	0.000	97	145596	50.0	47.4	
15 Bromomethane	94	2.247	2.247	0.000	92	44867	50.0	42.4	
16 Chloroethane	64	2.399	2.399	0.000	99	53535	50.0	34.2	
17 Dichlorofluoromethane	67	2.679	2.679	0.000	98	134568	50.0	40.5	
18 Trichlorofluoromethane	101	2.703	2.703	0.000	94	124067	50.0	49.9	M
20 Ethyl ether	59	3.056	3.056	0.000	98	100600	50.0	43.6	
21 Acrolein	56	3.232	3.232	0.000	96	43712	150.0	127.3	
22 1,1-Dichloroethene	96	3.348	3.348	0.000	96	95650	50.0	48.6	
23 1,1,2-Trichloro-1,2,2-trif	101	3.433	3.433	0.000	91	104126	50.0	50.0	
24 Acetone	43	3.451	3.451	0.000	99	78232	100.0	109.8	
25 Iodomethane	142	3.537	3.537	0.000	97	147517	50.0	50.3	
26 Carbon disulfide	76	3.652	3.652	0.000	100	244304	50.0	53.5	
28 3-Chloro-1-propene	76	3.926	3.926	0.000	89	52244	50.0	46.9	
30 Methyl acetate	43	3.944	3.944	0.000	99	536316	250.0	251.9	
31 Methylene Chloride	84	4.133	4.133	0.000	97	108514	50.0	46.6	
32 2-Methyl-2-propanol	59	4.407	4.407	0.000	90	72012	500.0	534.4	
33 Acrylonitrile	53	4.528	4.528	0.000	99	490763	500.0	475.1	
34 trans-1,2-Dichloroethene	96	4.565	4.565	0.000	96	101646	50.0	47.6	
35 Methyl tert-butyl ether	73	4.583	4.583	0.000	95	218234	50.0	44.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.985	4.985	0.000	96	174926	50.0	48.8	
37 1,1-Dichloroethane	63	5.204	5.204	0.000	97	191782	50.0	45.6	
38 Vinyl acetate	43	5.252	5.252	0.000	97	170243	50.0	53.9	
44 2,2-Dichloropropane	77	5.946	5.946	0.000	57	72070	50.0	42.8	
45 cis-1,2-Dichloroethene	96	5.958	5.958	0.000	84	106011	50.0	46.5	
46 2-Butanone (MEK)	43	5.964	5.964	0.000	89	114368	100.0	106.8	
49 Chlorobromomethane	128	6.238	6.238	0.000	94	52247	50.0	52.2	
51 Tetrahydrofuran	42	6.250	6.250	0.000	94	77946	100.0	90.8	
52 Chloroform	83	6.384	6.384	0.000	95	159397	50.0	43.9	
53 1,1,1-Trichloroethane	97	6.542	6.542	0.000	96	123381	50.0	45.9	
54 Cyclohexane	56	6.615	6.615	0.000	97	206528	50.0	45.9	
56 Carbon tetrachloride	117	6.718	6.718	0.000	95	111576	50.0	48.8	
55 1,1-Dichloropropene	75	6.730	6.730	0.000	90	133839	50.0	45.0	
57 Isobutyl alcohol	41	6.925	6.925	0.000	95	85908	1250.0	1277.5	
58 Benzene	78	6.943	6.943	0.000	98	419997	50.0	48.2	
59 1,2-Dichloroethane	62	7.022	7.022	0.000	96	129406	50.0	43.0	
62 n-Heptane	43	7.308	7.308	0.000	97	168708	50.0	51.8	
64 Trichloroethene	130	7.679	7.679	0.000	96	108946	50.0	51.1	
66 Methylcyclohexane	83	7.917	7.917	0.000	96	162091	50.0	48.3	
67 1,2-Dichloropropane	63	7.947	7.947	0.000	94	105888	50.0	46.3	
70 1,4-Dioxane	88	8.032	8.032	0.000	38	17404	1000.0	1104.9	
68 Dibromomethane	93	8.038	8.038	0.000	93	54020	50.0	46.6	
71 Dichlorobromomethane	83	8.233	8.233	0.000	98	104172	50.0	45.4	
74 cis-1,3-Dichloropropene	75	8.677	8.677	0.000	91	114770	50.0	42.7	
75 4-Methyl-2-pentanone (MIBK)	43	8.829	8.829	0.000	99	192508	100.0	92.0	
76 Toluene	91	9.006	9.006	0.000	98	439711	50.0	52.3	
77 trans-1,3-Dichloropropene	75	9.255	9.255	0.000	98	97628	50.0	44.5	
78 Ethyl methacrylate	69	9.310	9.310	0.000	94	96210	50.0	45.3	
79 1,1,2-Trichloroethane	97	9.450	9.450	0.000	90	80770	50.0	50.5	
80 Tetrachloroethene	164	9.517	9.517	0.000	97	92045	50.0	56.4	
81 1,3-Dichloropropane	76	9.602	9.602	0.000	98	136934	50.0	46.1	
82 2-Hexanone	43	9.663	9.663	0.000	99	156252	100.0	103.4	
84 Chlorodibromomethane	129	9.815	9.815	0.000	89	74874	50.0	54.1	
85 Ethylene Dibromide	107	9.930	9.930	0.000	100	75807	50.0	49.2	
86 3-Chlorobenzotrifluoride	180	10.387	10.387	0.000	87	155321	50.0	57.5	
87 Chlorobenzene	112	10.417	10.417	0.000	95	273613	50.0	50.5	
88 4-Chlorobenzotrifluoride	180	10.478	10.478	0.000	95	146715	50.0	57.4	
89 1,1,1,2-Tetrachloroethane	131	10.514	10.514	0.000	90	90694	50.0	51.4	
90 Ethylbenzene	106	10.514	10.514	0.000	99	149966	50.0	52.2	
91 m-Xylene & p-Xylene	106	10.648	10.648	0.000	0	186067	50.0	52.9	
92 o-Xylene	106	11.031	11.031	0.000	96	178421	50.0	53.3	
93 Styrene	104	11.050	11.050	0.000	95	295996	50.0	53.4	
94 Bromoform	173	11.232	11.232	0.000	97	38663	50.0	48.9	
96 2-Chlorobenzotrifluoride	180	11.299	11.299	0.000	97	150039	50.0	56.4	
97 Isopropylbenzene	105	11.396	11.396	0.000	96	439879	50.0	53.7	
99 1,1,2,2-Tetrachloroethane	83	11.707	11.707	0.000	88	108184	50.0	50.1	
100 Bromobenzene	156	11.713	11.713	0.000	92	114058	50.0	50.0	
102 trans-1,4-Dichloro-2-buten	53	11.743	11.743	0.000	70	14890	50.0	18.1	
101 1,2,3-Trichloropropane	110	11.761	11.761	0.000	87	34889	50.0	46.4	
103 N-Propylbenzene	120	11.810	11.810	0.000	99	124661	50.0	47.8	
104 2-Chlorotoluene	126	11.901	11.901	0.000	97	110230	50.0	49.7	
105 3-Chlorotoluene	126	11.968	11.968	0.000	94	115859	50.0	50.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.999	11.999	0.000	94	371208	50.0	50.3	
107 4-Chlorotoluene	126	12.023	12.023	0.000	97	122614	50.0	50.2	
108 tert-Butylbenzene	119	12.309	12.309	0.000	94	301161	50.0	50.2	
110 1,2,4-Trimethylbenzene	105	12.370	12.370	0.000	97	373182	50.0	50.5	
111 1,2-dichloro-4-(trifluorom	214	12.412	12.412	0.000	98	107416	50.0	52.1	
112 sec-Butylbenzene	105	12.534	12.534	0.000	94	430439	50.0	50.8	
113 1,3-Dichlorobenzene	146	12.650	12.650	0.000	98	213591	50.0	52.6	
114 4-Isopropyltoluene	119	12.692	12.692	0.000	97	368400	50.0	51.4	
115 1,4-Dichlorobenzene	146	12.753	12.753	0.000	97	215806	50.0	51.1	
116 2,4-Dichloro-1-(trifluorom	214	12.777	12.777	0.000	95	100404	50.0	52.6	
118 2,5-Dichlorobenzotrifluori	214	12.820	12.820	0.000	0	107162	50.0	51.9	
120 n-Butylbenzene	91	13.100	13.100	0.000	97	294748	50.0	48.1	
121 1,2-Dichlorobenzene	146	13.112	13.112	0.000	98	196904	50.0	51.9	
122 1,2-Dibromo-3-Chloropropan	75	13.903	13.903	0.000	83	14564	50.0	46.7	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.043	14.043	0.000	0	366729	150.0	169.2	
125 2,3- & 3,4- Dichlorotoluen	125	14.463	14.463	0.000	0	232025	100.0	112.3	
126 1,2,4-Trichlorobenzene	180	14.724	14.724	0.000	94	81828	50.0	55.4	
127 Hexachlorobutadiene	225	14.870	14.870	0.000	95	40848	50.0	57.4	
128 Naphthalene	128	14.992	14.992	0.000	97	217812	50.0	57.4	
129 1,2,3-Trichlorobenzene	180	15.217	15.217	0.000	97	69680	50.0	58.3	
131 2,4,5-Trichlorotoluene	159	15.996	15.996	0.000	0	22210	50.0	51.5	
130 2,3,6-Trichlorotoluene	159	16.087	16.087	0.000	97	25331	50.0	63.7	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
S 134 1,2-Dichloroethene, Total	96				0		100.0	94.1	
S 133 Xylenes, Total	106				0		100.0	106.2	
S 135 1,3-Dichloropropene, Total	1				0		100.0	87.2	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

voaWAcro1stRe_00001	Amount Added: 6.00	Units: uL	
voaWKet1stRes_00001	Amount Added: 2.00	Units: uL	
VOA8260VOAPRI_00147	Amount Added: 2.00	Units: uL	
voaWEEpri Res_00006	Amount Added: 2.00	Units: uL	
voaWVA2nd Res_00010	Amount Added: 2.00	Units: uL	
VOA8260INT_00042	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006002.D

Injection Date: 06-Oct-2015 12:41:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

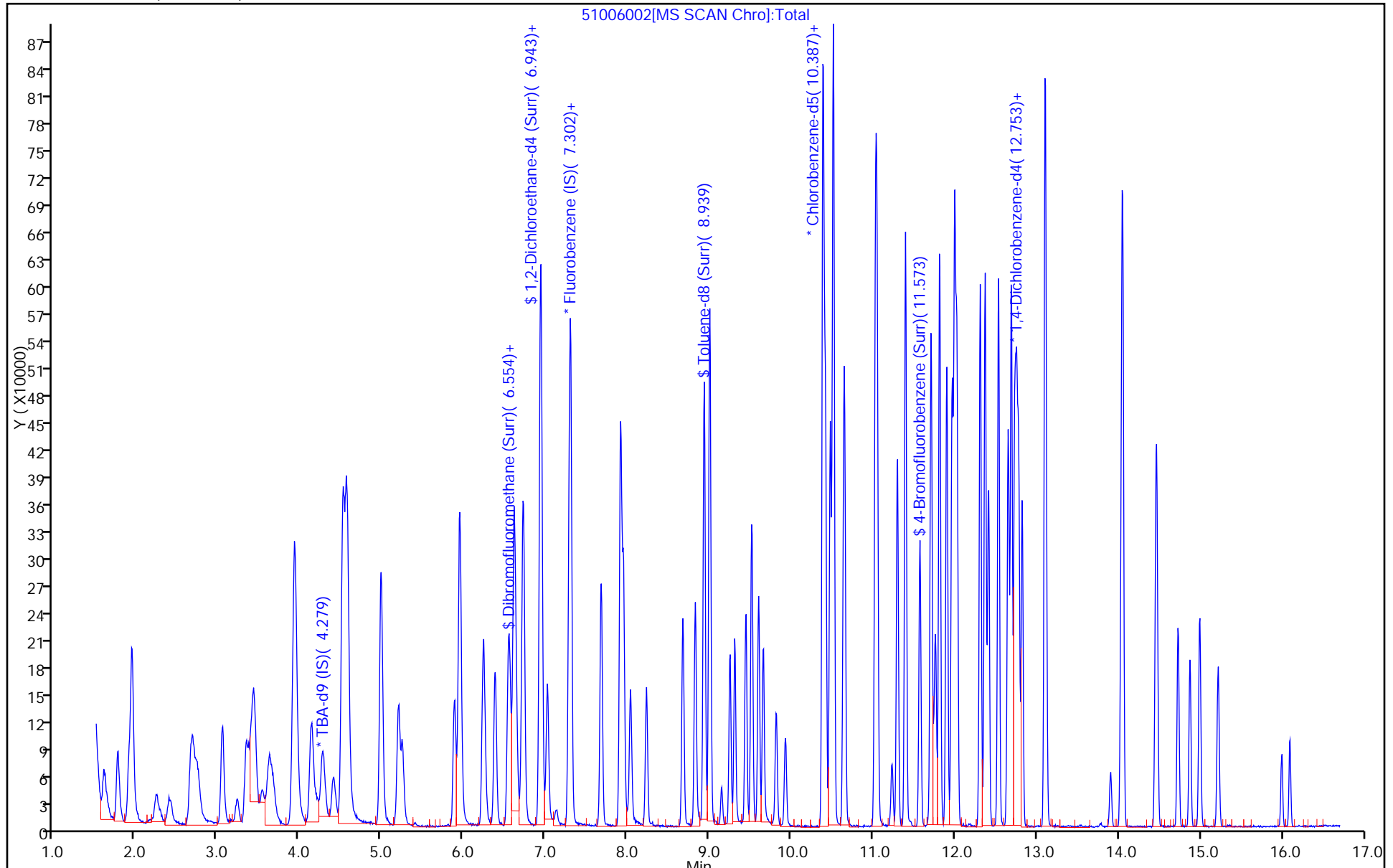
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



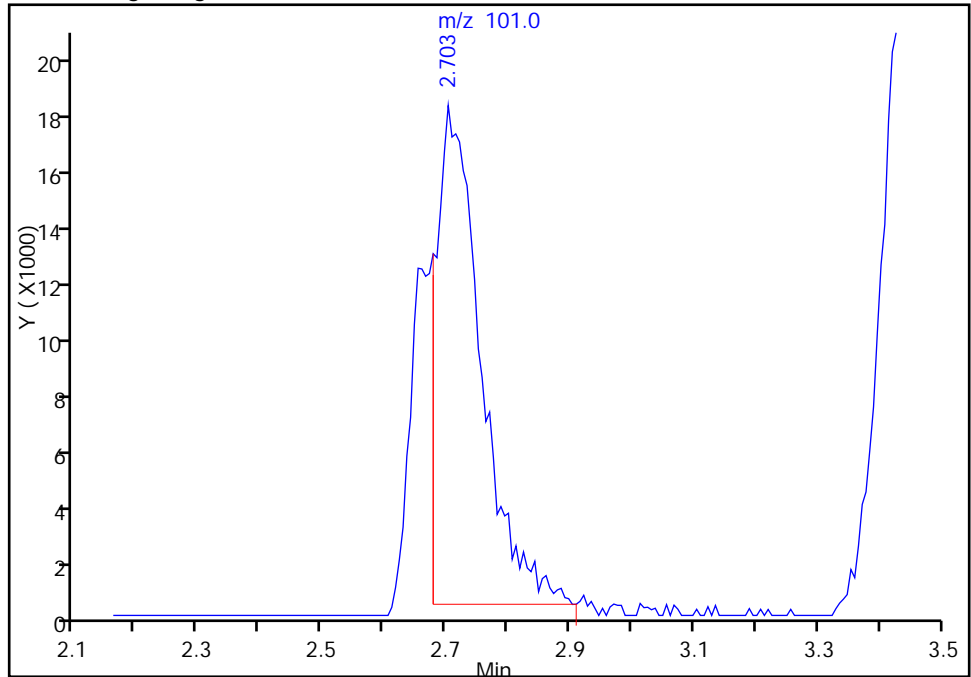
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006002.D
Injection Date: 06-Oct-2015 12:41:30 Instrument ID: CHHP5
Lims ID: CCVIS
Client ID:
Operator ID: 001562 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

18 Trichlorofluoromethane, CAS: 75-69-4

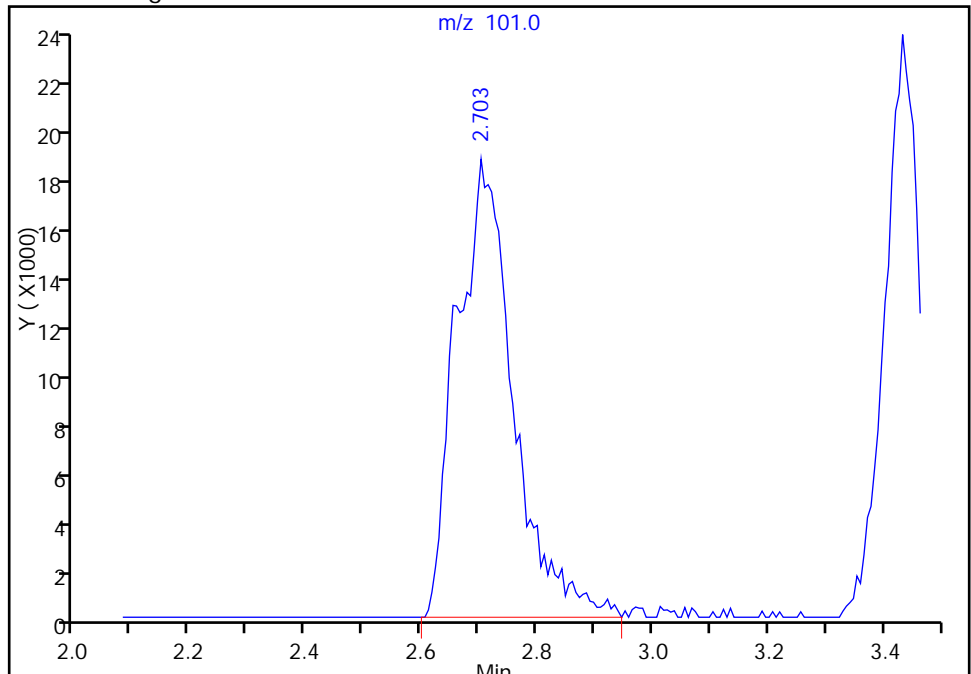
RT: 2.70
Area: 88801
Amount: 35.692052
Amount Units: ng

Processing Integration Results



RT: 2.70
Area: 124067
Amount: 49.866621
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 06-Oct-2015 13:21:54
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-155869/2 Calibration Date: 10/05/2015 10:05
 Instrument ID: CHHP6 Calib Start Date: 07/31/2015 14:00
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/31/2015 18:02
 Lab File ID: 61005002.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	0.3462	0.3266	0.1000	9.43	10.0	-5.7	20.0
Chloromethane	Ave	0.2984	0.3193	0.1000	10.7	10.0	7.0	20.0
Vinyl chloride	Ave	0.3214	0.3218	0.1000	10.0	10.0	0.1	20.0
1,3-Butadiene	Ave	0.3013	0.3380	0.0100	11.2	10.0	12.2	20.0
Bromomethane	Ave	0.1735	0.1520	0.0500	8.76	10.0	-12.4	20.0
Chloroethane	Ave	0.2194	0.2119	0.0500	9.66	10.0	-3.4	20.0
Dichlorofluoromethane	Ave	0.5106	0.4702	0.0100	9.21	10.0	-7.9	20.0
Trichlorofluoromethane	Ave	0.4072	0.3773	0.1000	9.27	10.0	-7.3	20.0
Ethyl ether	Ave	0.2886	0.2966	0.0100	10.3	10.0	2.8	20.0
Acrolein	Ave	0.0315	0.0307	0.0100	29.2	30.0	-2.6	20.0
1,1-Dichloroethene	Ave	0.2517	0.2418	0.1000	9.61	10.0	-3.9	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2657	0.2714	0.1000	10.2	10.0	2.1	20.0
Acetone	Ave	0.0885	0.0922	0.0500	20.8	20.0	4.2	20.0
Iodomethane	Ave	0.3379	0.3500	0.0100	10.4	10.0	3.6	20.0
Carbon disulfide	Ave	0.6522	0.6465	0.1000	9.91	10.0	-0.9	20.0
Allyl chloride	Ave	0.1419	0.1343	0.0100	9.47	10.0	-5.3	20.0
Methyl acetate	Ave	0.2074	0.2402	0.1000	57.9	50.0	15.8	20.0
Methylene Chloride	Lin2		0.3168	0.1000	8.98	10.0	-10.2	20.0
tert-Butyl alcohol	Ave	1.125	1.204	0.0100	107	100	7.0	20.0
Acrylonitrile	Ave	0.1046	0.1183	0.0100	113	100	13.1	20.0
trans-1,2-Dichloroethene	Ave	0.2905	0.2695	0.1000	9.28	10.0	-7.2	20.0
Methyl tert-butyl ether	Ave	0.8703	0.7631	0.1000	8.77	10.0	-12.3	20.0
Hexane	Ave	0.3936	0.4392	0.0100	11.2	10.0	11.6	20.0
1,1-Dichloroethane	Ave	0.5200	0.5196	0.2000	9.99	10.0	-0.0	20.0
Vinyl acetate	Ave	0.4197	0.3914	0.0100	9.33	10.0	-6.7	20.0
2,2-Dichloropropane	Ave	0.2629	0.2436	0.0100	9.26	10.0	-7.4	20.0
cis-1,2-Dichloroethene	Ave	0.3158	0.2836	0.1000	8.98	10.0	-10.2	20.0
2-Butanone (MEK)	Ave	0.1207	0.1254	0.0500	20.8	20.0	3.9	20.0
Bromochloromethane	Ave	0.1269	0.1335	0.0100	10.5	10.0	5.2	20.0
Tetrahydrofuran	Ave	0.0813	0.0900	0.0100	22.1	20.0	10.7	20.0
Chloroform	Ave	0.5161	0.4936	0.2000	9.56	10.0	-4.4	20.0
1,1,1-Trichloroethane	Ave	0.3814	0.3771	0.1000	9.89	10.0	-1.1	20.0
Cyclohexane	Ave	0.4886	0.5280	0.1000	10.8	10.0	8.1	20.0
Carbon tetrachloride	Ave	0.2694	0.3063	0.1000	11.4	10.0	13.7	20.0
1,1-Dichloropropene	Ave	0.4102	0.4098	0.0100	9.99	10.0	-0.0	20.0
Isobutyl alcohol	Ave	0.0072	0.0079*	0.0100	271	250	8.6	20.0
Benzene	Ave	1.165	1.227	0.5000	10.5	10.0	5.3	20.0
1,2-Dichloroethane	Ave	0.4694	0.4609	0.1000	9.82	10.0	-1.8	20.0
n-Heptane	Ave	0.3168	0.4363	0.0100	13.8	10.0	37.7*	20.0
Trichloroethene	Ave	0.2430	0.2608	0.2000	10.7	10.0	7.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-155869/2 Calibration Date: 10/05/2015 10:05
 Instrument ID: CHHP6 Calib Start Date: 07/31/2015 14:00
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/31/2015 18:02
 Lab File ID: 61005002.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
Methylcyclohexane	Ave	0.4932	0.4861	0.1000	9.86	10.0	-1.4	20.0
1,2-Dichloropropane	Ave	0.2784	0.3050	0.1000	11.0	10.0	9.6	20.0
1,4-Dioxane	Ave	0.0027	0.0027*	0.0100	193	200	-3.5	20.0
Dibromomethane	Ave	0.1690	0.1665	0.0100	9.85	10.0	-1.5	20.0
Bromodichloromethane	Ave	0.3176	0.3221	0.2000	10.1	10.0	1.4	20.0
cis-1,3-Dichloropropene	Ave	0.3489	0.3644	0.2000	10.4	10.0	4.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.028	0.9635	0.1000	18.7	20.0	-6.3	20.0
Toluene	Ave	5.159	5.289	0.4000	10.3	10.0	2.5	20.0
trans-1,3-Dichloropropene	Ave	1.310	1.415	0.1000	10.8	10.0	8.1	20.0
Ethyl methacrylate	Ave	1.391	1.315	0.0100	9.46	10.0	-5.4	20.0
1,1,2-Trichloroethane	Ave	1.067	1.074	0.1000	10.1	10.0	0.6	20.0
Tetrachloroethene	Ave	0.8800	1.002	0.2000	11.4	10.0	13.8	20.0
1,3-Dichloropropane	Ave	1.971	1.995	0.0100	10.1	10.0	1.2	20.0
2-Hexanone	Ave	0.6750	0.7595	0.1000	22.5	20.0	12.5	20.0
Dibromochloromethane	Ave	0.7283	0.8638	0.1000	11.9	10.0	18.6	20.0
1,2-Dibromoethane (EDB)	Ave	0.9442	0.9672	0.1000	10.2	10.0	2.4	20.0
3-Chlorobenzotrifluoride	Ave	1.652	1.814	0.0100	11.0	10.0	9.8	20.0
Chlorobenzene	Ave	3.171	3.259	0.5000	10.3	10.0	2.8	20.0
4-Chlorobenzotrifluoride	Ave	1.531	1.698	0.0100	11.1	10.0	10.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8691	1.005	0.0100	11.6	10.0	15.6	20.0
Ethylbenzene	Ave	1.789	1.874	0.1000	10.5	10.0	4.7	20.0
m-Xylene & p-Xylene	Ave	2.220	2.337	0.1000	10.5	10.0	5.3	20.0
o-Xylene	Ave	2.221	2.222	0.3000	10.0	10.0	0.0	20.0
Styrene	Ave	3.411	3.676	0.3000	10.8	10.0	7.8	20.0
Bromoform	Ave	0.3887	0.4487	0.1000	11.5	10.0	15.4	20.0
2-Chlorobenzotrifluoride	Ave	1.692	1.843	0.0100	10.9	10.0	8.9	20.0
Isopropylbenzene	Ave	5.314	5.484	0.1000	10.3	10.0	3.2	20.0
1,1,2,2-Tetrachloroethane	Ave	1.428	1.350	0.3000	9.46	10.0	-5.4	20.0
Bromobenzene	Ave	0.8038	0.7889	0.0100	9.81	10.0	-1.9	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2549	0.2336	0.0100	9.16	10.0	-8.4	20.0
1,2,3-Trichloropropane	Ave	0.3057	0.2506	0.0100	8.20	10.0	-18.0	20.0
N-Propylbenzene	Ave	0.9257	0.8458	0.0100	9.14	10.0	-8.6	20.0
2-Chlorotoluene	Ave	0.7686	0.7312	0.0100	9.51	10.0	-4.9	20.0
3-Chlorotoluene	Ave	0.8072	0.7841	0.0100	9.71	10.0	-2.9	20.0
1,3,5-Trimethylbenzene	Ave	3.010	2.792	0.0100	9.28	10.0	-7.2	20.0
4-Chlorotoluene	Ave	0.8119	0.8035	0.0100	9.90	10.0	-1.0	20.0
tert-Butylbenzene	Ave	2.378	2.080	0.0100	8.75	10.0	-12.5	20.0
1,2,4-Trimethylbenzene	Ave	3.078	2.819	0.0100	9.16	10.0	-8.4	20.0
3,4-Dichlorobenzotrifluoride	Ave	0.8719	0.9023	0.0100	10.3	10.0	3.5	20.0
sec-Butylbenzene	Ave	3.550	3.301	0.0100	9.30	10.0	-7.0	20.0
1,3-Dichlorobenzene	Ave	1.570	1.489	0.6000	9.48	10.0	-5.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Lab Sample ID: CCVIS 180-155869/2 Calibration Date: 10/05/2015 10:05
 Instrument ID: CHHP6 Calib Start Date: 07/31/2015 14:00
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/31/2015 18:02
 Lab File ID: 61005002.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
4-Isopropyltoluene	Ave	2.979	2.678	0.0100	8.99	10.0	-10.1	20.0
1,4-Dichlorobenzene	Ave	1.605	1.507	0.5000	9.39	10.0	-6.1	20.0
2,4-Dichlorobenzotrifluoride	Ave	0.8674	0.8648	0.0100	9.97	10.0	-0.3	20.0
2,5-Dichlorobenzotrifluoride	Ave	0.9687	0.9676	0.0100	9.99	10.0	-0.1	20.0
n-Butylbenzene	Ave	2.974	2.531	0.0100	8.51	10.0	-14.9	20.0
1,2-Dichlorobenzene	Ave	1.585	1.469	0.4000	9.27	10.0	-7.3	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1454	0.1114	0.0500	7.66	10.0	-23.4*	20.0
2,4- & 2,5- & 2,6-Dichlorotoluene	Ave	1.380	1.223	0.0100	26.6	30.0	-11.4	20.0
2,3- & 3,4- Dichlorotoluene	Ave	1.522	1.320	0.0100	17.3	20.0	-13.3	20.0
1,2,4-Trichlorobenzene	Ave	1.229	1.048	0.2000	8.53	10.0	-14.7	20.0
Hexachlorobutadiene	Ave	0.4839	0.4797	0.0100	9.91	10.0	-0.9	20.0
Naphthalene	Ave	2.479	2.057	0.0100	8.30	10.0	-17.0	20.0
1,2,3-Trichlorobenzene	Ave	1.150	0.9717	0.0100	8.45	10.0	-15.5	20.0
2,4,5-Trichlorotoluene	Ave	0.7719	0.5927	0.0100	7.68	10.0	-23.2*	20.0
2,3,6-Trichlorotoluene	Ave	0.7323	0.6544	0.0100	8.94	10.0	-10.6	20.0
Dibromofluoromethane (Surr)	Ave	0.2303	0.2123		9.22	10.0	-7.8	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3715	0.3434		9.24	10.0	-7.6	20.0
Toluene-d8 (Surr)	Ave	3.944	3.998		10.1	10.0	1.4	20.0
4-Bromofluorobenzene (Surr)	Ave	1.751	1.580		9.02	10.0	-9.8	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005002.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 05-Oct-2015 10:05:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 180-0008826-002
 Operator ID: 001562 Instrument ID: CHHP6
 Sublist: chrom-MSVOA_LL_CHHP6*sub5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 05-Oct-2015 10:57:51 Calib Date: 14-Sep-2015 16:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: fergusond

Date: 05-Oct-2015 10:27:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.239	4.239	0.000	87	149860	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.286	7.286	0.000	97	445228	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.395	10.395	0.000	90	102974	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.749	12.749	0.000	94	183514	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.550	6.550	0.000	93	94520	50.0	46.1	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.928	6.928	0.000	72	152894	50.0	46.2	
\$ 7 Toluene-d8 (Surr)	98	8.941	8.941	0.000	94	411639	50.0	50.7	
\$ 8 4-Bromofluorobenzene (Surr	95	11.587	11.587	0.000	86	162726	50.0	45.1	
11 Dichlorodifluoromethane	85	1.604	1.604	0.000	99	145387	50.0	47.2	
12 Chloromethane	50	1.769	1.769	0.000	100	142139	50.0	53.5	
13 Vinyl chloride	62	1.903	1.903	0.000	98	143274	50.0	50.1	
14 Butadiene	39	1.939	1.939	0.000	96	150499	50.0	56.1	
15 Bromomethane	94	2.243	2.243	0.000	90	67660	50.0	43.8	
16 Chloroethane	64	2.377	2.377	0.000	98	94344	50.0	48.3	
17 Dichlorofluoromethane	67	2.651	2.651	0.000	97	209329	50.0	46.0	
18 Trichlorofluoromethane	101	2.681	2.681	0.000	83	167984	50.0	46.3	
20 Ethyl ether	59	3.046	3.046	0.000	94	132067	50.0	51.4	
21 Acrolein	56	3.211	3.211	0.000	98	40943	150.0	146.1	
22 1,1-Dichloroethene	96	3.326	3.326	0.000	95	107642	50.0	48.0	
23 1,1,2-Trichloro-1,2,2-trif	101	3.405	3.405	0.000	93	120825	50.0	51.1	
24 Acetone	43	3.430	3.430	0.000	96	82076	100.0	104.2	
25 Iodomethane	142	3.533	3.533	0.000	99	155817	50.0	51.8	
26 Carbon disulfide	76	3.630	3.630	0.000	100	287823	50.0	49.6	
29 3-Chloro-1-propene	76	3.910	3.910	0.000	61	59804	50.0	47.3	
30 Methyl acetate	43	3.922	3.922	0.000	97	534678	250.0	289.5	
31 Methylene Chloride	84	4.117	4.117	0.000	97	141037	50.0	44.9	
32 2-Methyl-2-propanol	59	4.366	4.366	0.000	88	90205	500.0	534.9	
33 Acrylonitrile	53	4.500	4.500	0.000	99	526520	500.0	565.5	
34 trans-1,2-Dichloroethene	96	4.555	4.555	0.000	93	119992	50.0	46.4	
35 Methyl tert-butyl ether	73	4.573	4.573	0.000	97	339729	50.0	43.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.987	4.987	0.000	95	195562	50.0	55.8	
37 1,1-Dichloroethane	63	5.194	5.194	0.000	97	231319	50.0	50.0	
38 Vinyl acetate	43	5.236	5.236	0.000	98	174274	50.0	46.6	
42 2,2-Dichloropropane	77	5.936	5.936	0.000	59	108442	50.0	46.3	
43 cis-1,2-Dichloroethene	96	5.942	5.942	0.000	85	126254	50.0	44.9	
44 2-Butanone (MEK)	43	5.948	5.948	0.000	65	111673	100.0	103.9	
48 Chlorobromomethane	128	6.228	6.228	0.000	96	59417	50.0	52.6	
49 Tetrahydrofuran	42	6.246	6.246	0.000	88	80122	100.0	110.7	
50 Chloroform	83	6.368	6.368	0.000	96	219773	50.0	47.8	
51 1,1,1-Trichloroethane	97	6.532	6.532	0.000	98	167890	50.0	49.4	
52 Cyclohexane	56	6.617	6.617	0.000	94	235075	50.0	54.0	
53 Carbon tetrachloride	117	6.715	6.715	0.000	97	136353	50.0	56.8	
54 1,1-Dichloropropene	75	6.727	6.727	0.000	92	182462	50.0	50.0	
55 Isobutyl alcohol	41	6.897	6.897	0.000	90	87408	1250.0	1357.0	
56 Benzene	78	6.940	6.940	0.000	97	546342	50.0	52.7	
57 1,2-Dichloroethane	62	7.013	7.013	0.000	98	205218	50.0	49.1	
59 n-Heptane	43	7.305	7.305	0.000	93	194249	50.0	68.9	
61 Trichloroethene	130	7.676	7.676	0.000	96	116121	50.0	53.7	
63 Methylcyclohexane	83	7.925	7.925	0.000	94	216407	50.0	49.3	
64 1,2-Dichloropropane	63	7.950	7.950	0.000	95	135796	50.0	54.8	
65 1,4-Dioxane	88	8.023	8.023	0.000	41	23617	1000.0	965.2	M
67 Dibromomethane	93	8.035	8.035	0.000	95	74144	50.0	49.3	
68 Dichlorobromomethane	83	8.229	8.229	0.000	97	143403	50.0	50.7	
71 cis-1,3-Dichloropropene	75	8.680	8.680	0.000	91	162231	50.0	52.2	
72 4-Methyl-2-pentanone (MIBK)	43	8.826	8.826	0.000	97	198428	100.0	93.7	
73 Toluene	91	9.008	9.008	0.000	98	544645	50.0	51.3	
74 trans-1,3-Dichloropropene	75	9.257	9.257	0.000	96	145751	50.0	54.0	
75 Ethyl methacrylate	69	9.312	9.312	0.000	91	135458	50.0	47.3	
76 1,1,2-Trichloroethane	97	9.452	9.452	0.000	93	110566	50.0	50.3	
77 Tetrachloroethene	164	9.525	9.525	0.000	96	103128	50.0	56.9	
78 1,3-Dichloropropane	76	9.610	9.610	0.000	95	205404	50.0	50.6	
79 2-Hexanone	43	9.659	9.659	0.000	97	156415	100.0	112.5	
81 Chlorodibromomethane	129	9.823	9.823	0.000	90	88947	50.0	59.3	
82 Ethylene Dibromide	107	9.939	9.939	0.000	96	99591	50.0	51.2	
83 3-Chlorobenzotrifluoride	180	10.395	10.395	0.000	94	186813	50.0	54.9	
84 Chlorobenzene	112	10.426	10.426	0.000	92	335591	50.0	51.4	
85 4-Chlorobenzotrifluoride	180	10.486	10.486	0.000	96	174827	50.0	55.4	
86 1,1,1,2-Tetrachloroethane	131	10.523	10.523	0.000	89	103492	50.0	57.8	
87 Ethylbenzene	106	10.529	10.529	0.000	99	192925	50.0	52.4	
88 m-Xylene & p-Xylene	106	10.657	10.657	0.000	99	240680	50.0	52.6	
89 o-Xylene	106	11.040	11.040	0.000	96	228827	50.0	50.0	
90 Styrene	104	11.058	11.058	0.000	94	378546	50.0	53.9	
91 Bromoform	173	11.247	11.247	0.000	95	46207	50.0	57.7	
92 2-Chlorobenzotrifluoride	180	11.302	11.302	0.000	96	189760	50.0	54.5	
93 Isopropylbenzene	105	11.411	11.411	0.000	97	564732	50.0	51.6	
96 1,1,2,2-Tetrachloroethane	83	11.715	11.715	0.000	97	139023	50.0	47.3	
95 Bromobenzene	156	11.727	11.727	0.000	98	144768	50.0	49.1	
97 trans-1,4-Dichloro-2-buten	53	11.758	11.758	0.000	73	42869	50.0	45.8	
98 1,2,3-Trichloropropane	110	11.776	11.776	0.000	83	45984	50.0	41.0	
99 N-Propylbenzene	120	11.825	11.825	0.000	99	155216	50.0	45.7	
100 2-Chlorotoluene	126	11.916	11.916	0.000	96	134189	50.0	47.6	
101 3-Chlorotoluene	126	11.977	11.977	0.000	96	143898	50.0	48.6	

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	12.007	12.007	0.000	93	512352	50.0	46.4	
103 4-Chlorotoluene	126	12.038	12.038	0.000	99	147458	50.0	49.5	
104 tert-Butylbenzene	119	12.324	12.324	0.000	92	381792	50.0	43.7	
106 1,2,4-Trimethylbenzene	105	12.384	12.384	0.000	98	517242	50.0	45.8	
107 1,2-dichloro-4-(trifluorom	214	12.421	12.421	0.000	97	165580	50.0	51.7	
108 sec-Butylbenzene	105	12.549	12.549	0.000	96	605807	50.0	46.5	
109 1,3-Dichlorobenzene	146	12.670	12.670	0.000	96	273225	50.0	47.4	
110 4-Isopropyltoluene	119	12.707	12.707	0.000	96	491498	50.0	45.0	
111 1,4-Dichlorobenzene	146	12.774	12.774	0.000	91	276633	50.0	47.0	
113 2,4-Dichloro-1-(trifluorom	214	12.786	12.786	0.000	96	158707	50.0	49.9	
114 2,5-Dichlorobenzotrifluori	214	12.828	12.828	0.000	98	177573	50.0	49.9	
116 n-Butylbenzene	91	13.114	13.114	0.000	99	464471	50.0	42.6	
117 1,2-Dichlorobenzene	146	13.127	13.127	0.000	93	269602	50.0	46.3	
118 1,2-Dibromo-3-Chloropropan	75	13.917	13.911	0.006	72	20439	50.0	38.3	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.057	14.057	0.000	99	673332	150.0	133.0	
121 2,3- & 3,4- Dichlorotoluen	125	14.477	14.477	0.000	99	484599	100.0	86.7	
122 1,2,4-Trichlorobenzene	180	14.745	14.745	0.000	94	192313	50.0	42.7	
123 Hexachlorobutadiene	225	14.891	14.891	0.000	96	88024	50.0	49.6	
124 Naphthalene	128	15.006	15.006	0.000	98	377525	50.0	41.5	
125 1,2,3-Trichlorobenzene	180	15.225	15.225	0.000	94	178316	50.0	42.3	
126 2,4,5-Trichlorotoluene	159	16.010	16.010	0.000	0	108776	50.0	38.4	
127 2,3,6-Trichlorotoluene	159	16.107	16.107	0.000	96	120098	50.0	44.7	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
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	
S 131 Xylenes, Total	106				0		100.0	102.7	
S 130 1,2-Dichloroethene, Total	96				0		100.0	91.3	
S 132 1,3-Dichloropropene, Total	1				0		100.0	106.3	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260VOAPRI_00147	Amount Added: 2.00	Units: uL	
voaWKet1stRes_00001	Amount Added: 2.00	Units: uL	
voaWAcro1stRe_00001	Amount Added: 6.00	Units: uL	
voaWEEpri Res_00006	Amount Added: 2.00	Units: uL	
voaWVA2nd Res_00010	Amount Added: 2.00	Units: uL	
VOA8260INT_00042	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005002.D

Injection Date: 05-Oct-2015 10:05:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

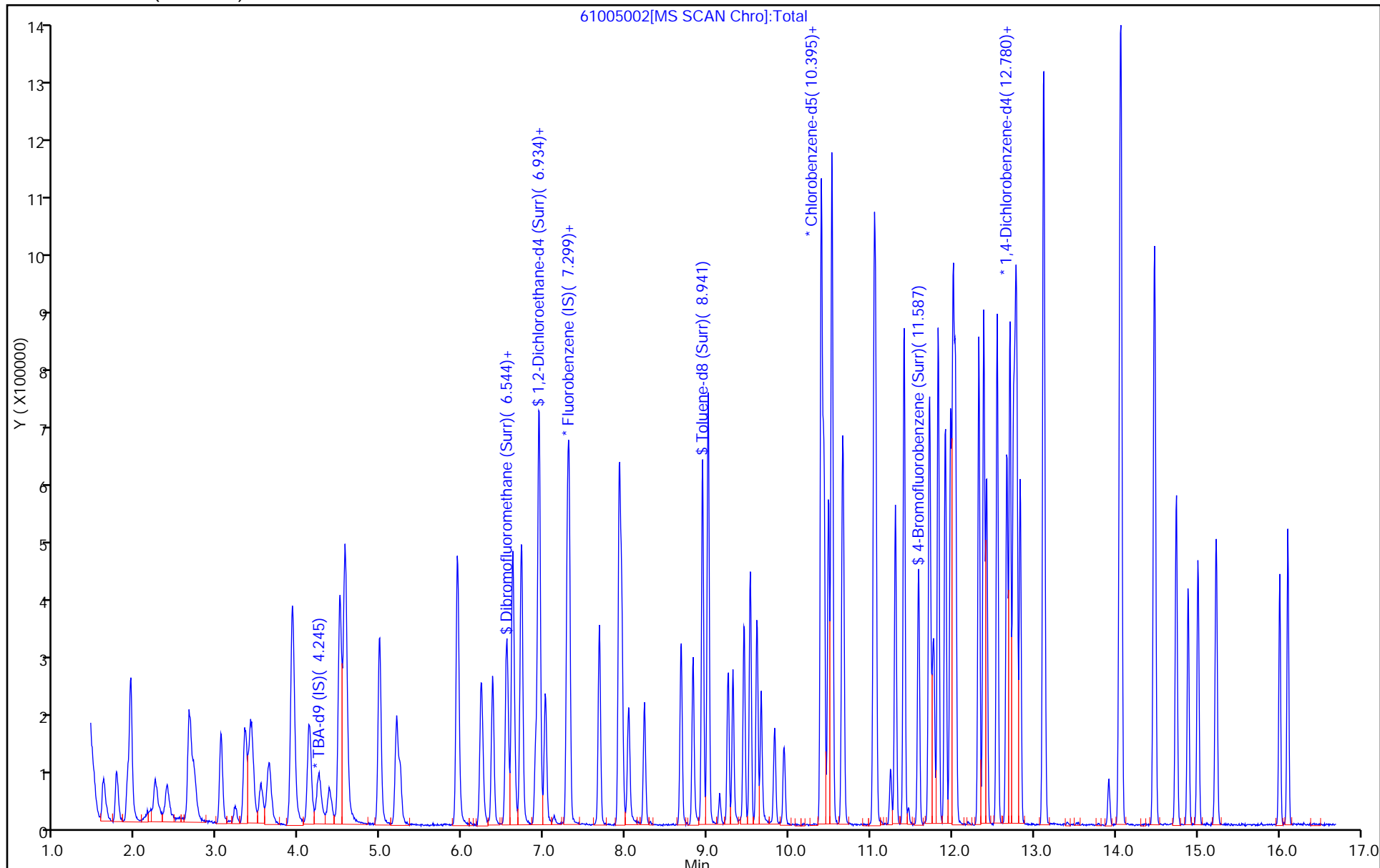
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



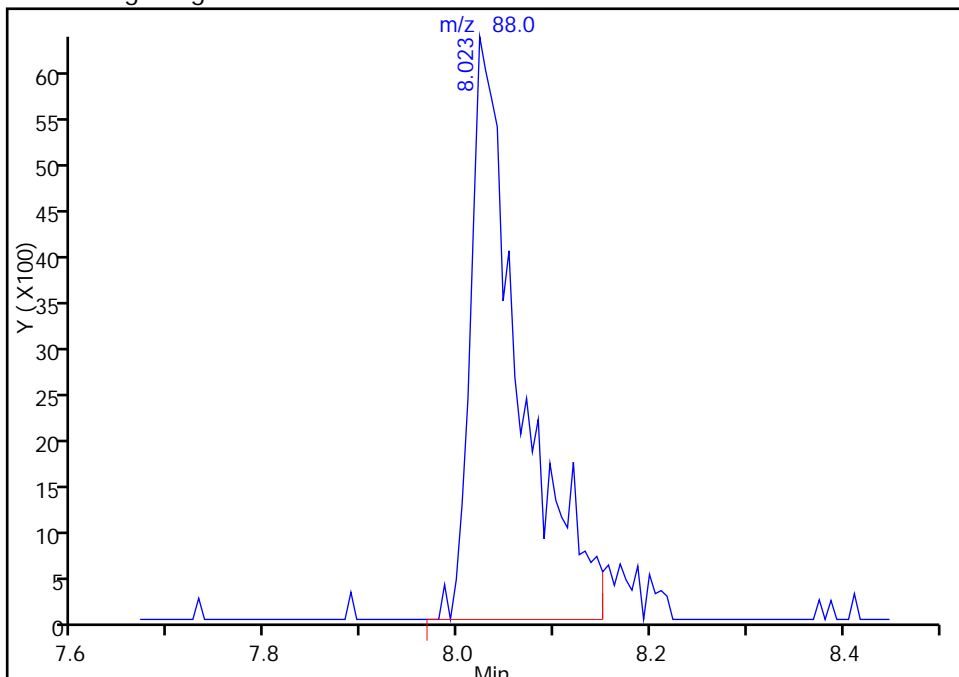
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005002.D
Injection Date: 05-Oct-2015 10:05:30 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

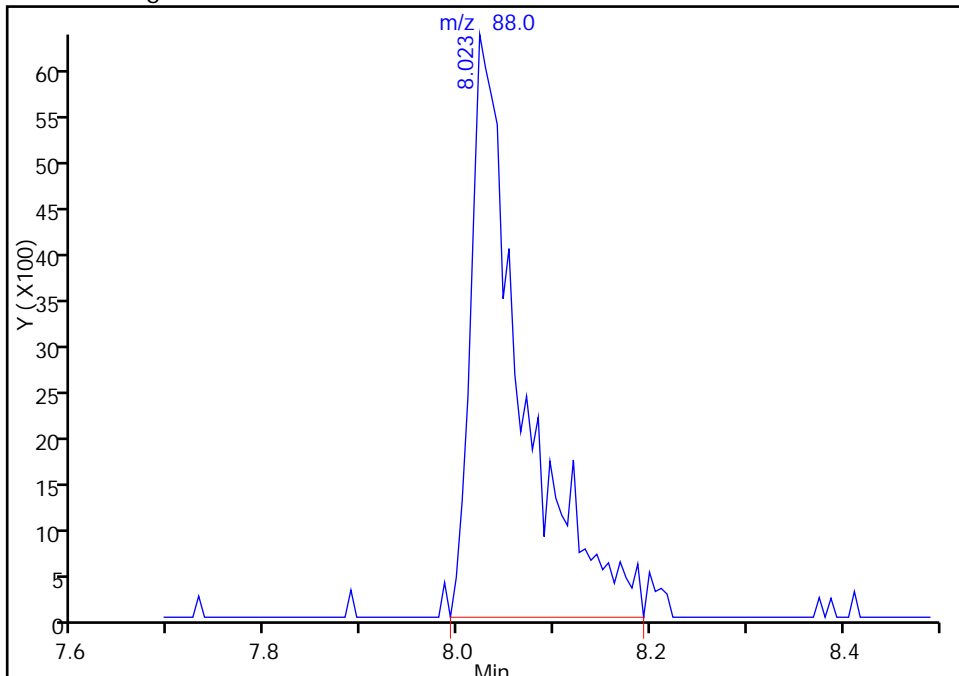
RT: 8.02
Area: 22692
Amount: 927.4038
Amount Units: ng

Processing Integration Results



RT: 8.02
Area: 23617
Amount: 965.2078
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 05-Oct-2015 10:27:02
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826007.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 26-Aug-2015 14:01:30 ALS Bottle#: 4 Worklist Smp#: 7
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 180-0008300-007
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 27-Aug-2015 11:26:53 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK048

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
\$ 10 BFB	95	8.366	8.366	0.000	0	128431	NR	NR	

QC Flag Legend

Processing Flags
 NR - Missing Quant Standard

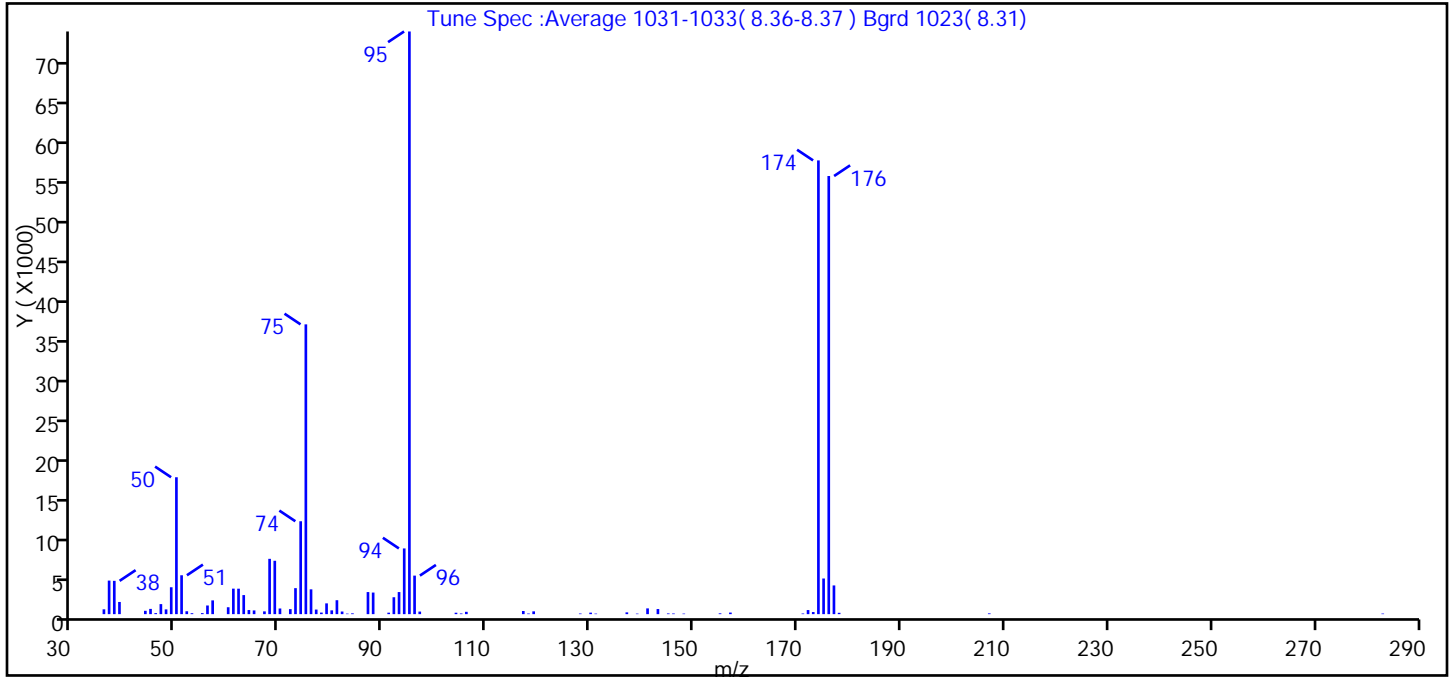
Reagents:

VOABFB25_00065 Amount Added: 1.00 Units: uL

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826007.D
 Injection Date: 26-Aug-2015 14:01:30 Instrument ID: CHHP5
 Lims ID: BFB
 Client ID:
 Operator ID: 001562 ALS Bottle#: 4 Worklist Smp#: 7
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
 Tune Method: BFB Method 8260

\$ 10 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	23.5
75	30 to 60% of m/z 95	49.7
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.4 (0.5)
174	50 to 120% of m/z 95	77.9
175	5 to 9% of m/z 174	6.1 (7.9)
176	Greater than 95% but less than 101% of m/z 174	75.2 (96.6)
177	5 to 9% of m/z 176	4.9 (6.6)

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826007.D\MSVOA_LL_CHHP5.rsl\spectr
Injection Date: 26-Aug-2015 14:01:30
Spectrum: Tune Spec :Average 1031-1033(8.36-8.37) Bgrd 1023(8.31)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 77

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	611	63.00	2411	87.00	2793	141.00	728
37.00	4245	64.00	518	88.00	2731	143.00	645
38.00	4214	65.00	470	91.00	185	145.00	90
39.00	1541	67.00	350	92.00	2139	146.00	83
44.00	422	68.00	6998	93.00	2793	148.00	69
45.00	664	69.00	6752	94.00	8313	155.00	103
46.00	131	70.00	715	95.00	73720	157.00	200
47.00	1270	72.00	635	96.00	4875	171.00	82
48.00	602	73.00	3289	97.00	325	172.00	516
49.00	3402	74.00	11753	104.00	180	173.00	266
50.00	17320	75.00	36664	105.00	86	174.00	57408
51.00	4919	76.00	3139	106.00	295	175.00	4509
52.00	366	77.00	580	117.00	395	176.00	55432
53.00	119	78.00	199	118.00	78	177.00	3632
55.00	129	79.00	1363	119.00	354	178.00	170
56.00	1095	80.00	480	128.00	80	207.00	97
57.00	1741	81.00	1763	130.00	191	283.00	74
60.00	873	82.00	333	131.00	68		
61.00	3226	83.00	66	137.00	226		
62.00	3220	84.00	102	139.00	67		

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826007.D

Injection Date: 26-Aug-2015 14:01:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: BFB

Worklist Smp#: 7

Client ID:

Injection Vol: 5.0 mL

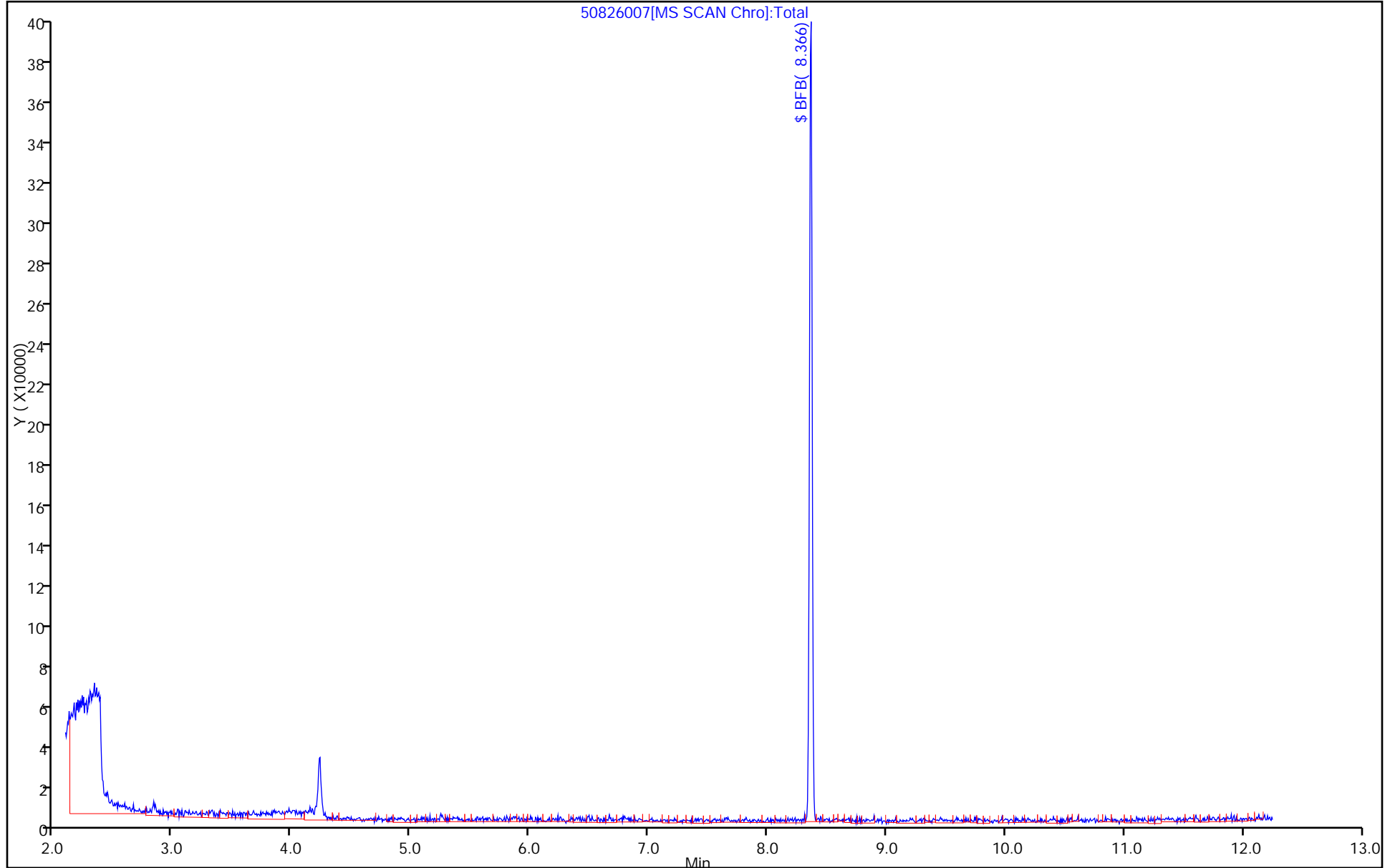
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\51003004.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 03-Oct-2015 11:41:30 ALS Bottle#: 1 Worklist Smp#: 4
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 180-0008807-004
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 03-Oct-2015 13:06:37 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: fergusond Date: 03-Oct-2015 11:47:06

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	8.368	8.368	0.000	0	80512	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

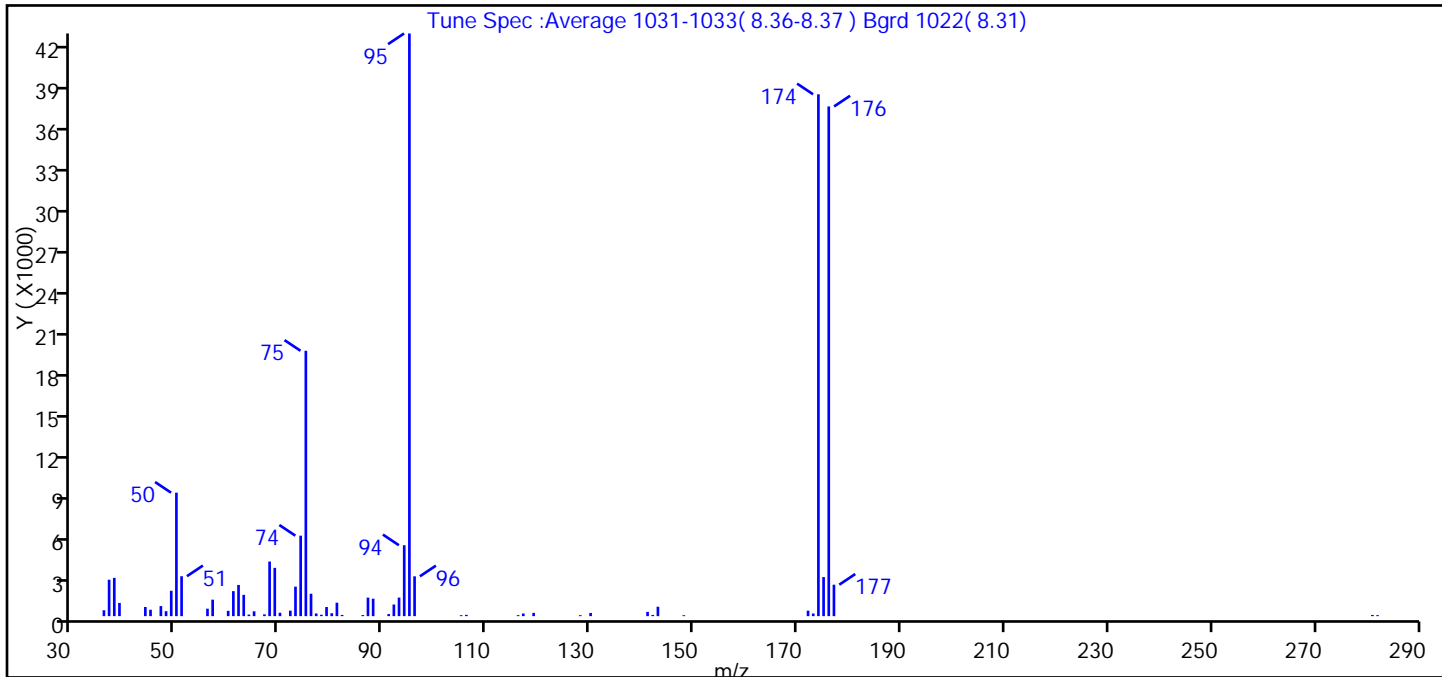
Reagents:

VOABFB25_00067 Amount Added: 1.00 Units: uL

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\51003004.D
 Injection Date: 03-Oct-2015 11:41:30 Instrument ID: CHHP5
 Lims ID: BFB
 Client ID:
 Operator ID: 001562 ALS Bottle#: 1 Worklist Smp#: 4
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
 Tune Method: BFB Method 8260

\$ 10 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.2
75	30 to 60% of m/z 95	45.5
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.5 (0.5)
174	50 to 120% of m/z 95	89.6
175	5 to 9% of m/z 174	6.7 (7.5)
176	Greater than 95% but less than 101% of m/z 174	87.5 (97.7)
177	5 to 9% of m/z 176	5.4 (6.2)

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\51003004.D\MSVOA_LL_CHHP5.rsl\spectr

Injection Date: 03-Oct-2015 11:41:30

Spectrum: Tune Spec :Average 1031-1033(8.36-8.37) Bgrd 1022(8.31)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 62

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	430	63.00	1557	81.00	983	128.00	71
37.00	2663	64.00	114	82.00	88	130.00	233
38.00	2798	65.00	354	86.00	79	141.00	312
39.00	966	67.00	129	87.00	1356	142.00	89
44.00	668	68.00	3993	88.00	1274	143.00	689
45.00	468	69.00	3531	91.00	151	148.00	68
47.00	736	70.00	249	92.00	853	172.00	400
48.00	363	72.00	401	93.00	1359	173.00	194
49.00	1856	73.00	2156	94.00	5187	174.00	38168
50.00	9030	74.00	5886	95.00	42616	175.00	2857
51.00	2920	75.00	19408	96.00	2913	176.00	37280
56.00	546	76.00	1638	105.00	69	177.00	2301
57.00	1206	77.00	195	106.00	95	281.00	88
60.00	387	78.00	101	116.00	72	282.00	72
61.00	1830	79.00	668	117.00	193		
62.00	2281	80.00	211	119.00	238		

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\51003004.D

Injection Date: 03-Oct-2015 11:41:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: BFB

Worklist Smp#: 4

Client ID:

Injection Vol: 5.0 mL

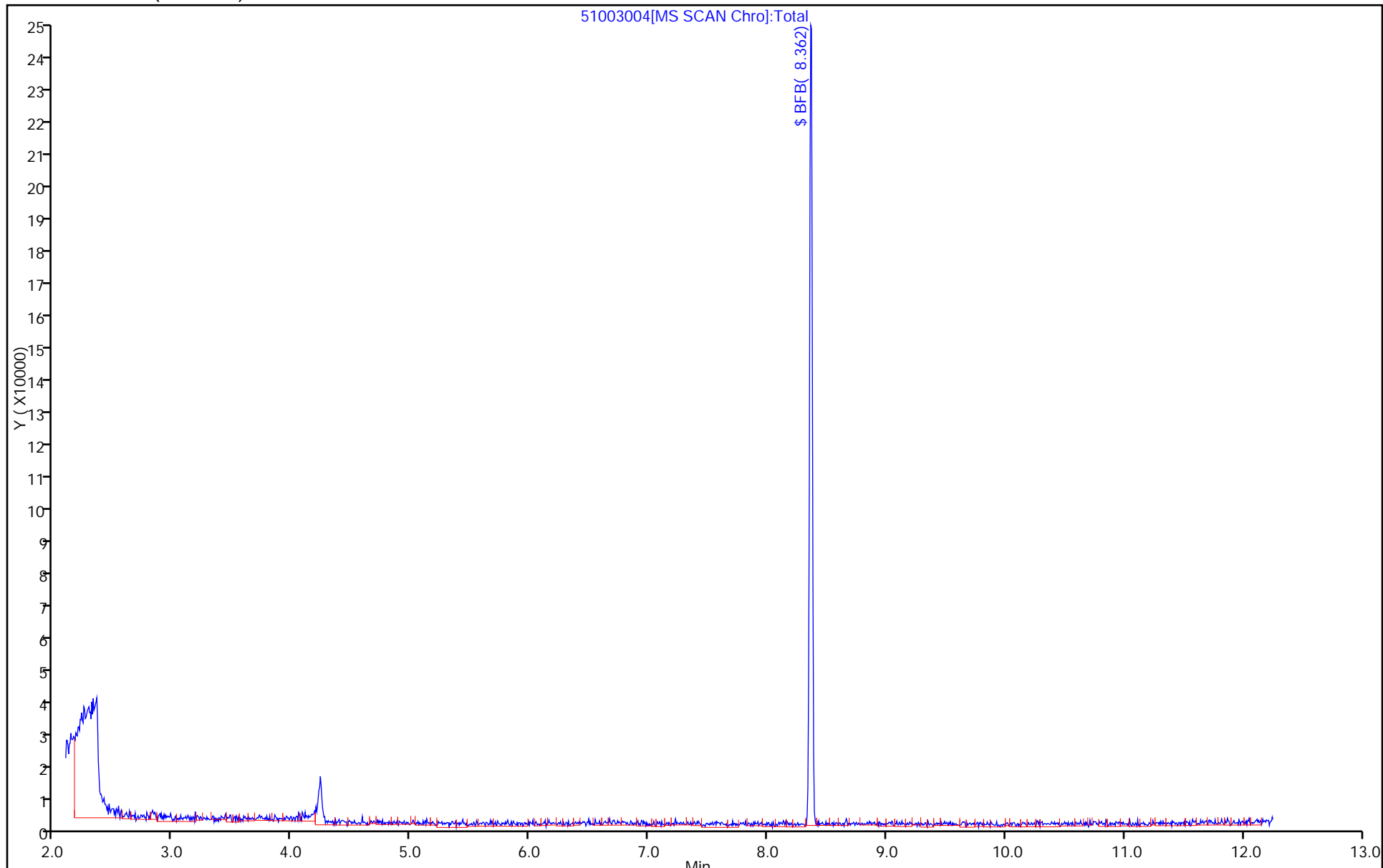
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005001.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 05-Oct-2015 10:17:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 180-0008828-001
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 05-Oct-2015 12:09:10 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: fergusond Date: 05-Oct-2015 10:27:34

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	8.371	8.371	0.000	0	49373	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

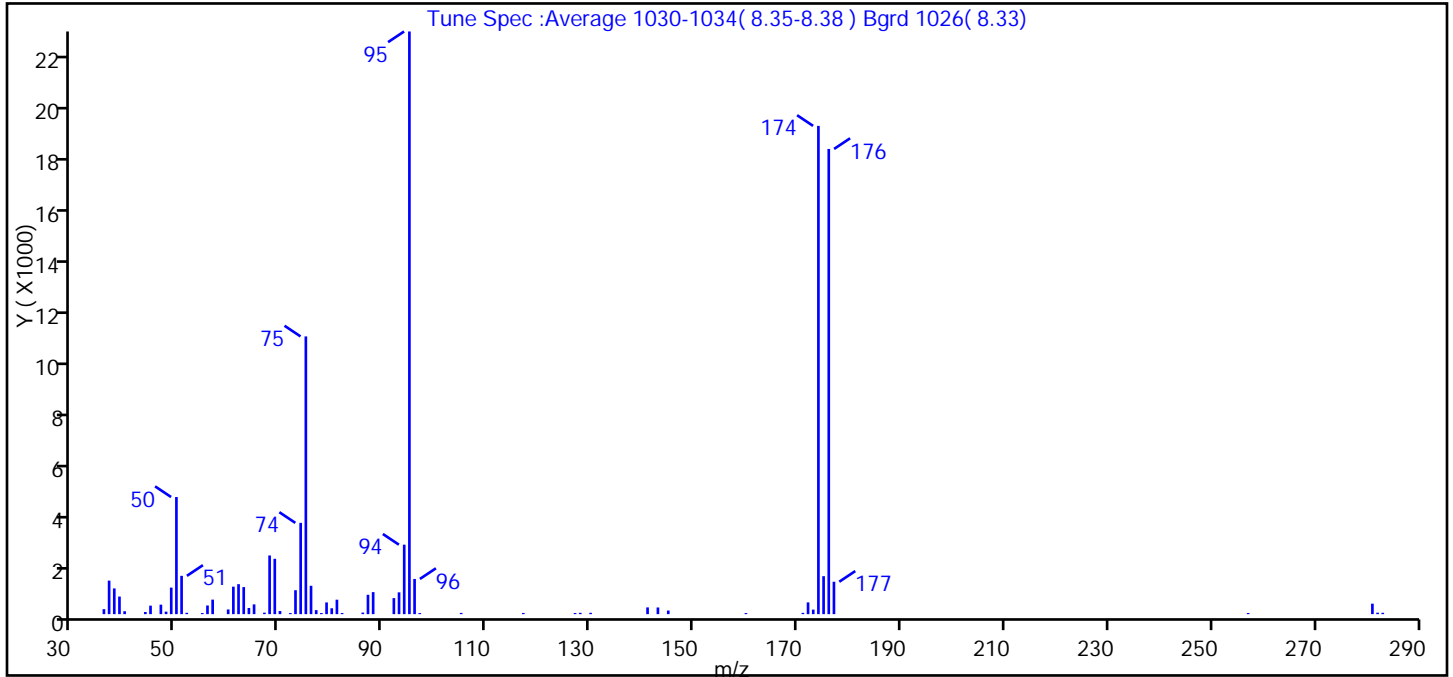
Reagents:

VOABFB25_00067 Amount Added: 1.00 Units: uL

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005001.D
 Injection Date: 05-Oct-2015 10:17:30 Instrument ID: CHHP5
 Lims ID: BFB
 Client ID:
 Operator ID: 001562 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
 Tune Method: BFB Method 8260

\$ 10 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.1
75	30 to 60% of m/z 95	47.7
96	5 to 9% of m/z 95	6.0
173	Less than 2% of m/z 174	0.8 (0.9)
174	50 to 120% of m/z 95	83.8
175	5 to 9% of m/z 174	6.5 (7.8)
176	Greater than 95% but less than 101% of m/z 174	79.8 (95.3)
177	5 to 9% of m/z 176	5.6 (7.0)

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005001.D\MSVOA_LL_CHHP5.rsl\spectr
 Injection Date: 05-Oct-2015 10:17:30
 Spectrum: Tune Spec :Average 1030-1034(8.35-8.38) Bgrd 1026(8.33)
 Base Peak: 95.00
 Minimum % Base Peak: 0
 Number of Points: 66

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	189	61.00	1038	80.00	222	141.00	255
37.00	1267	62.00	1133	81.00	546	143.00	252
38.00	972	63.00	1023	82.00	42	145.00	136
39.00	665	64.00	233	86.00	59	160.00	41
40.00	109	65.00	369	87.00	732	171.00	49
44.00	80	67.00	57	88.00	833	172.00	444
45.00	321	68.00	2218	92.00	606	173.00	172
47.00	359	69.00	2092	93.00	824	174.00	18456
48.00	95	70.00	118	94.00	2626	175.00	1435
49.00	1003	72.00	40	95.00	22024	176.00	17584
50.00	4427	73.00	905	96.00	1330	177.00	1225
51.00	1448	74.00	3450	97.00	40	257.00	43
52.00	51	75.00	10498	105.00	47	281.00	396
55.00	41	76.00	1072	117.00	45	282.00	55
56.00	327	77.00	152	127.00	42	283.00	51
57.00	549	78.00	42	128.00	50		
60.00	177	79.00	443	130.00	50		

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005001.D

Injection Date: 05-Oct-2015 10:17:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 mL

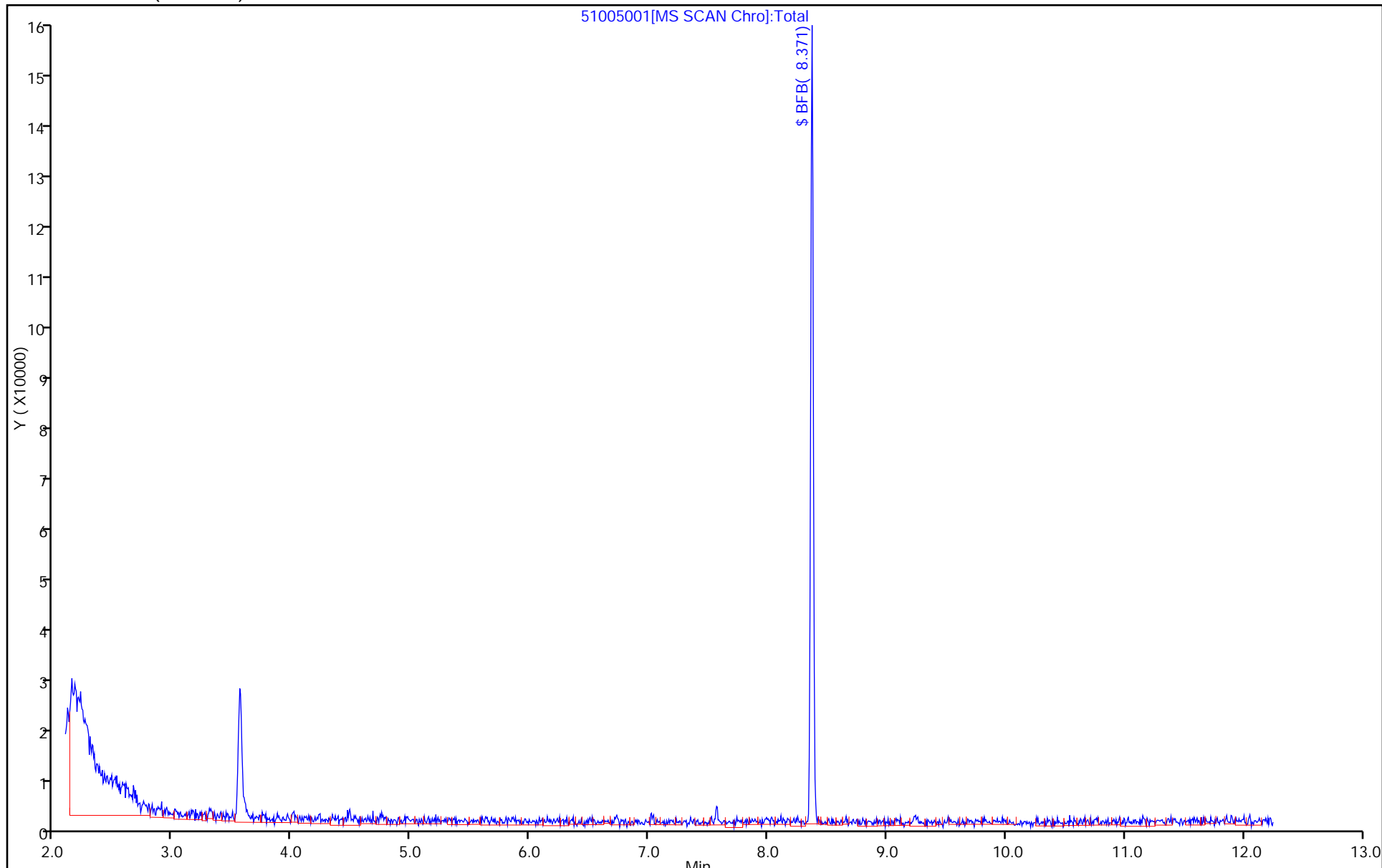
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006005.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 06-Oct-2015 12:01:30 ALS Bottle#: 1 Worklist Smp#: 5
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 180-0008850-005
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 06-Oct-2015 13:34:49 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: fergusond Date: 06-Oct-2015 12:12:55

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	8.362	8.362	0.000	0	42998	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

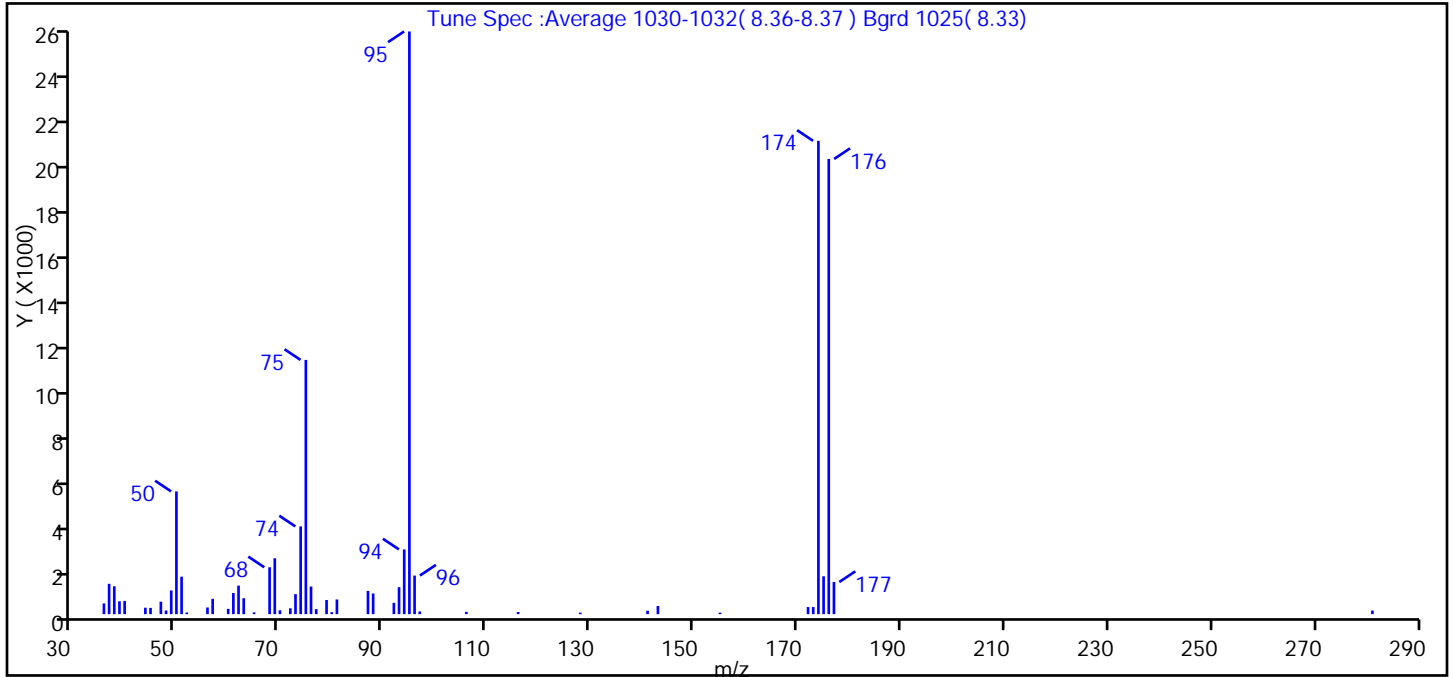
Reagents:

VOABFB25_00067 Amount Added: 1.00 Units: uL

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006005.D
 Injection Date: 06-Oct-2015 12:01:30 Instrument ID: CHHP5
 Lims ID: BFB
 Client ID:
 Operator ID: 001562 ALS Bottle#: 1 Worklist Smp#: 5
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
 Tune Method: BFB Method 8260

\$ 10 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.1
75	30 to 60% of m/z 95	43.6
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	1.2 (1.5)
174	50 to 120% of m/z 95	81.2
175	5 to 9% of m/z 174	6.5 (8.0)
176	Greater than 95% but less than 101% of m/z 174	78.1 (96.2)
177	5 to 9% of m/z 176	5.5 (7.1)

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006005.D\MSVOA_LL_CHHP5.rsl\spectr
 Injection Date: 06-Oct-2015 12:01:30
 Spectrum: Tune Spec :Average 1030-1032(8.36-8.37) Bgrd 1025(8.33)
 Base Peak: 95.00
 Minimum % Base Peak: 0
 Number of Points: 53

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	478	57.00	680	77.00	223	128.00	68
37.00	1350	60.00	236	79.00	628	141.00	151
38.00	1241	61.00	939	80.00	87	143.00	363
39.00	572	62.00	1270	81.00	653	155.00	68
40.00	589	63.00	709	87.00	1034	172.00	316
44.00	287	65.00	78	88.00	920	173.00	315
45.00	277	68.00	2085	92.00	503	174.00	21056
47.00	554	69.00	2485	93.00	1199	175.00	1683
48.00	161	70.00	171	94.00	2880	176.00	20248
49.00	1055	72.00	260	95.00	25920	177.00	1429
50.00	5461	73.00	890	96.00	1716	281.00	160
51.00	1667	74.00	3903	97.00	119		
52.00	73	75.00	11309	106.00	100		
56.00	297	76.00	1229	116.00	95		

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006005.D

Injection Date: 06-Oct-2015 12:01:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: BFB

Worklist Smp#: 5

Client ID:

Injection Vol: 5.0 mL

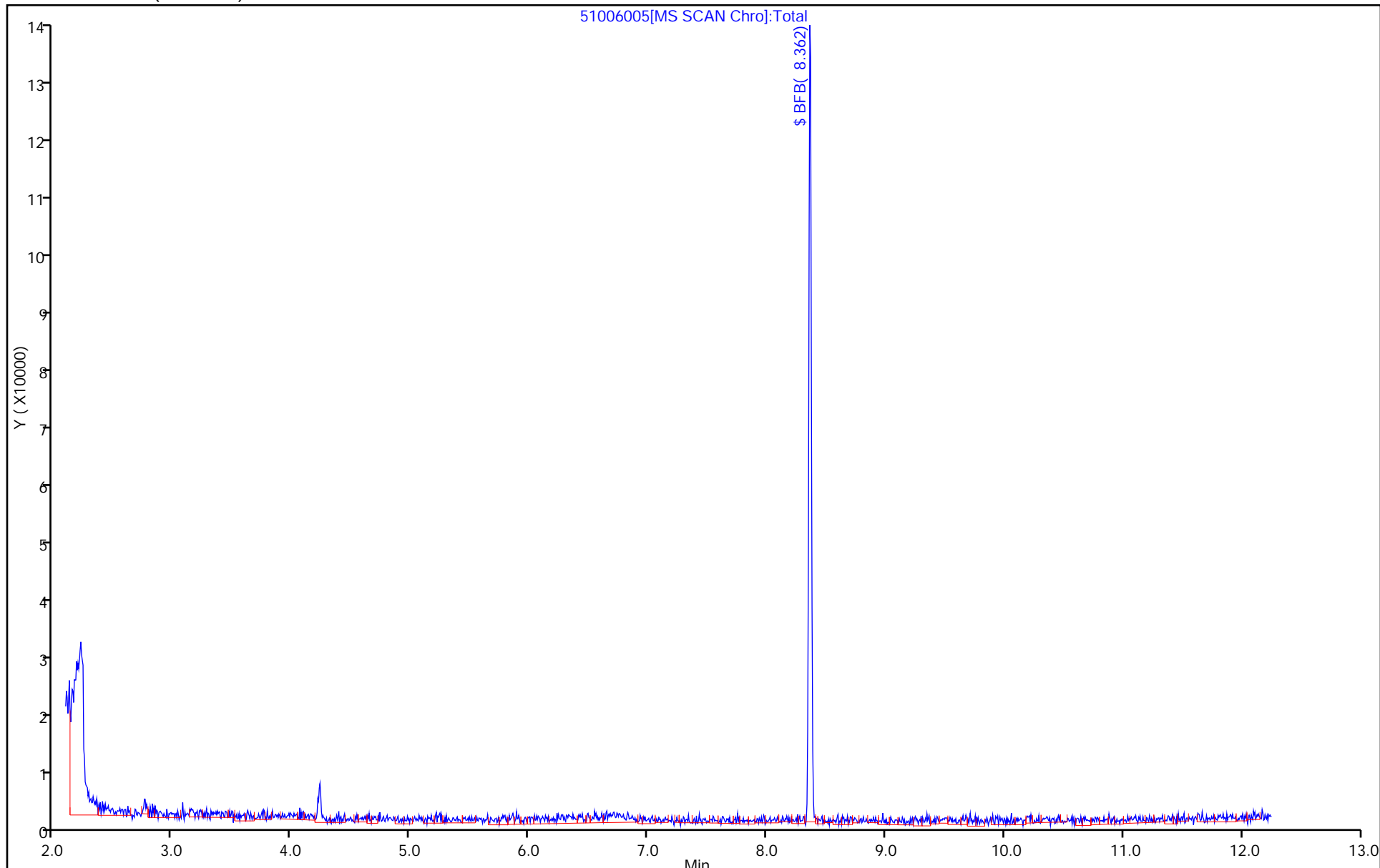
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731001.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 31-Jul-2015 12:10:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 180-0007999-001
 Operator ID: 001562 Instrument ID: CHHP6
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 03-Aug-2015 12:15:22 Calib Date: 31-Jul-2015 18:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK049

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
\$ 10 BFB	95	8.381	8.381	0.000	0	114672	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

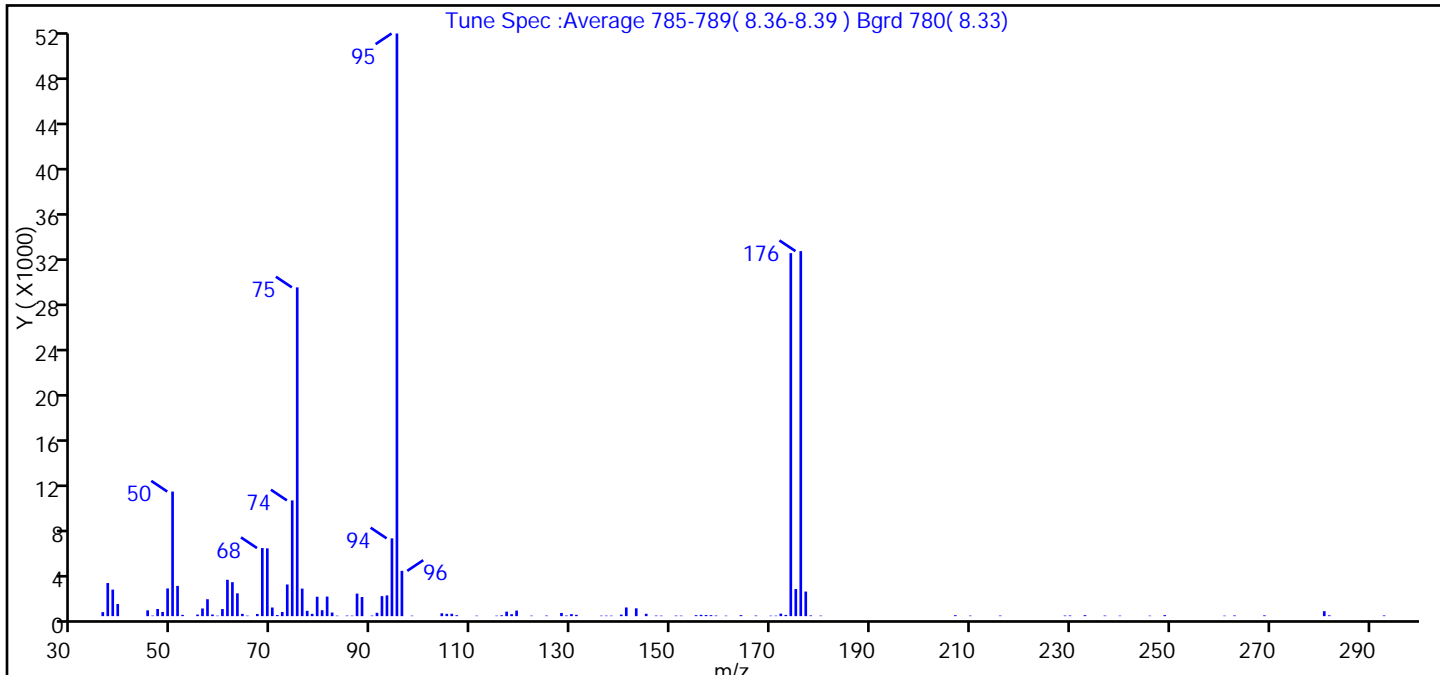
Reagents:

VOABFB25_00064 Amount Added: 1.00 Units: uL

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731001.D
 Injection Date: 31-Jul-2015 12:10:30 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	21.4
75	30 to 60% of m/z 95	56.4
96	5 to 9% of m/z 95	7.8
173	Less than 2% of m/z 174	0.2 (0.3)
174	50 to 120% of m/z 95	62.3
175	5 to 9% of m/z 174	4.7 (7.5)
176	Greater than 95% but less than 101% of m/z 174	62.6 (100.6)
177	5 to 9% of m/z 176	4.2 (6.7)

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731001.D\MSVOA_LL_CHHP6.rsl\spectr
Injection Date: 31-Jul-2015 12:10:30
Spectrum: Tune Spec :Average 785-789(8.36-8.39) Bgrd 780(8.33)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 113

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	357	73.00	2786	116.00	79	170.00	42
37.00	2914	74.00	10190	117.00	397	171.00	42
38.00	2336	75.00	28944	118.00	172	172.00	223
39.00	1071	76.00	2425	119.00	489	173.00	107
45.00	513	77.00	467	122.00	43	174.00	31960
46.00	47	78.00	201	125.00	52	175.00	2388
47.00	630	79.00	1709	128.00	283	176.00	32136
48.00	370	80.00	524	129.00	57	177.00	2165
49.00	2439	81.00	1723	130.00	180	178.00	64
50.00	10968	82.00	318	131.00	115	180.00	45
51.00	2663	83.00	42	136.00	43	207.00	82
52.00	110	85.00	51	137.00	46	210.00	48
55.00	140	86.00	45	138.00	43	216.00	52
56.00	674	87.00	1982	140.00	137	229.00	53
57.00	1491	88.00	1683	141.00	763	230.00	56
58.00	144	90.00	51	143.00	689	233.00	85
59.00	42	91.00	295	145.00	209	237.00	52
60.00	626	92.00	1761	147.00	52	240.00	44
61.00	3200	93.00	1826	148.00	43	246.00	42
62.00	2990	94.00	6848	151.00	49	249.00	90
63.00	2009	95.00	51296	152.00	43	261.00	42
64.00	201	96.00	3987	155.00	87	263.00	61
65.00	44	98.00	42	156.00	116	269.00	68
67.00	191	104.00	251	157.00	98	281.00	438
68.00	5995	105.00	201	158.00	87	282.00	71
69.00	5969	106.00	210	159.00	54	293.00	62
70.00	760	107.00	82	161.00	42		
71.00	96	111.00	42	164.00	89		
72.00	366	115.00	42	167.00	53		

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731001.D

Injection Date: 31-Jul-2015 12:10:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 mL

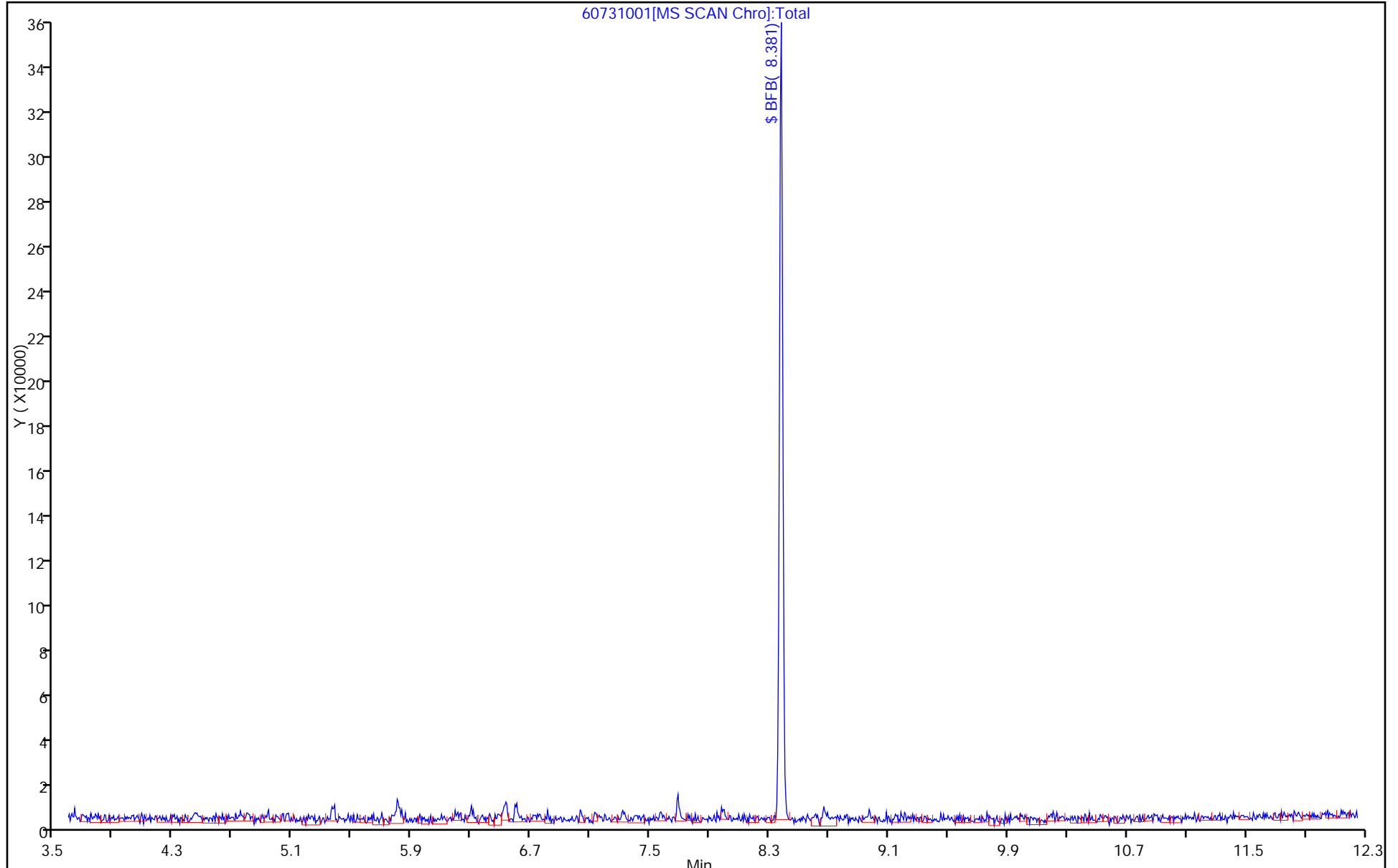
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005001.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 05-Oct-2015 09:22:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 180-0008826-001
 Operator ID: 001562 Instrument ID: CHHP6
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 05-Oct-2015 10:57:49 Calib Date: 14-Sep-2015 16:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: fergusond Date: 05-Oct-2015 09:34:23

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	8.380	8.380	0.000	0	79857	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

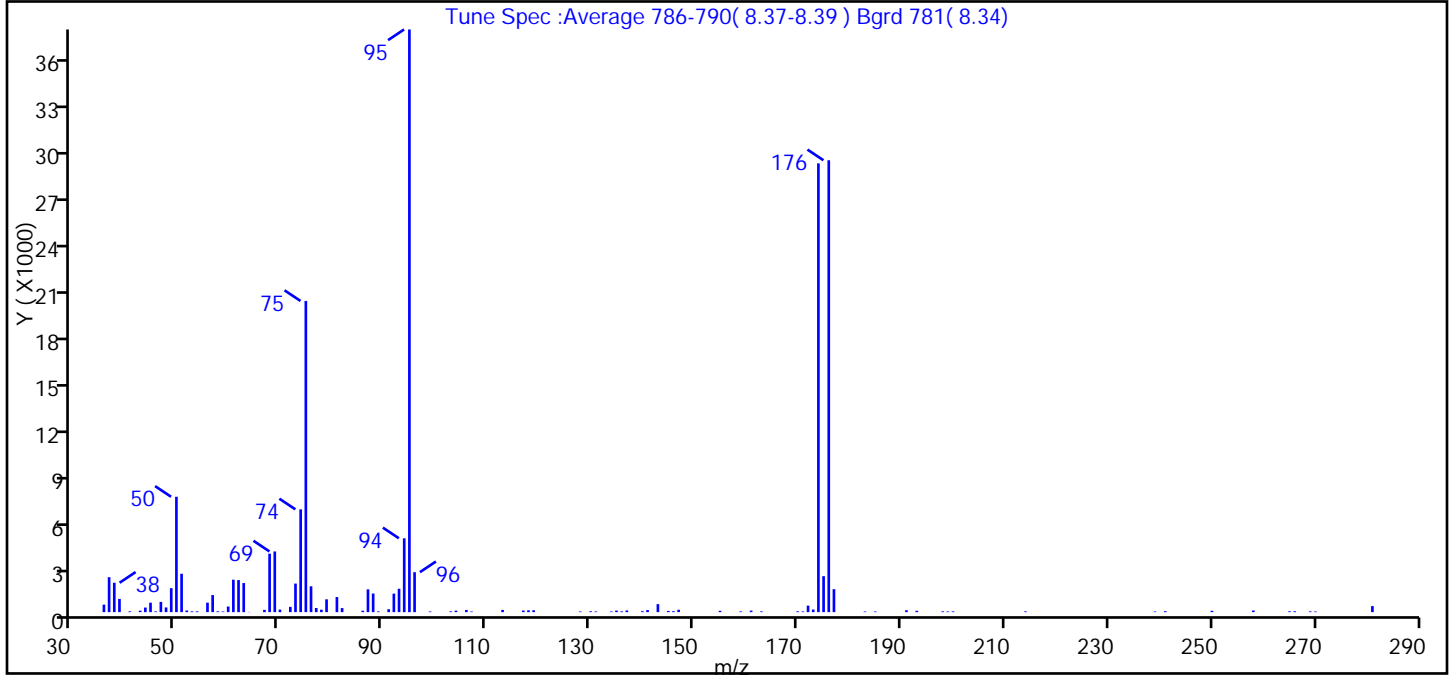
Reagents:

VOABFB25_00067 Amount Added: 1.00 Units: uL

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005001.D
 Injection Date: 05-Oct-2015 09:22:30 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	19.8
75	30 to 60% of m/z 95	53.4
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.4 (0.6)
174	50 to 120% of m/z 95	77.0
175	5 to 9% of m/z 174	6.2 (8.0)
176	Greater than 95% but less than 101% of m/z 174	77.6 (100.7)
177	5 to 9% of m/z 176	3.9 (5.1)

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005001.D\MSVOA_LL_CHHP6.rsl\spectr
 Injection Date: 05-Oct-2015 09:22:30
 Spectrum: Tune Spec :Average 786-790(8.37-8.39) Bgrd 781(8.34)
 Base Peak: 95.00
 Minimum % Base Peak: 0
 Number of Points: 101

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	484	67.00	146	104.00	95	172.00	418
37.00	2249	68.00	3759	106.00	141	173.00	168
38.00	1891	69.00	3903	107.00	40	174.00	28856
39.00	850	70.00	165	113.00	145	175.00	2313
41.00	52	72.00	339	117.00	102	176.00	29056
43.00	95	73.00	1837	118.00	119	177.00	1478
44.00	295	74.00	6610	119.00	121	183.00	42
45.00	608	75.00	20008	128.00	44	185.00	43
46.00	48	76.00	1663	130.00	55	191.00	123
47.00	659	77.00	265	131.00	45	193.00	88
48.00	303	78.00	157	134.00	43	198.00	51
49.00	1542	79.00	825	135.00	101	199.00	44
50.00	7418	81.00	971	136.00	50	200.00	50
51.00	2468	82.00	261	137.00	109	214.00	50
52.00	105	86.00	92	140.00	61	239.00	41
53.00	50	87.00	1466	141.00	135	241.00	62
54.00	51	88.00	1198	143.00	514	250.00	85
56.00	608	89.00	47	145.00	78	258.00	104
57.00	1098	91.00	189	146.00	59	265.00	53
58.00	53	92.00	1191	147.00	154	266.00	56
59.00	40	93.00	1503	155.00	86	269.00	49
60.00	362	94.00	4748	159.00	48	270.00	42
61.00	2087	95.00	37464	161.00	101	281.00	389
62.00	2062	96.00	2570	163.00	49		
63.00	1870	99.00	43	170.00	53		
64.00	13	103.00	51	171.00	45		

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005001.D

Injection Date: 05-Oct-2015 09:22:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 mL

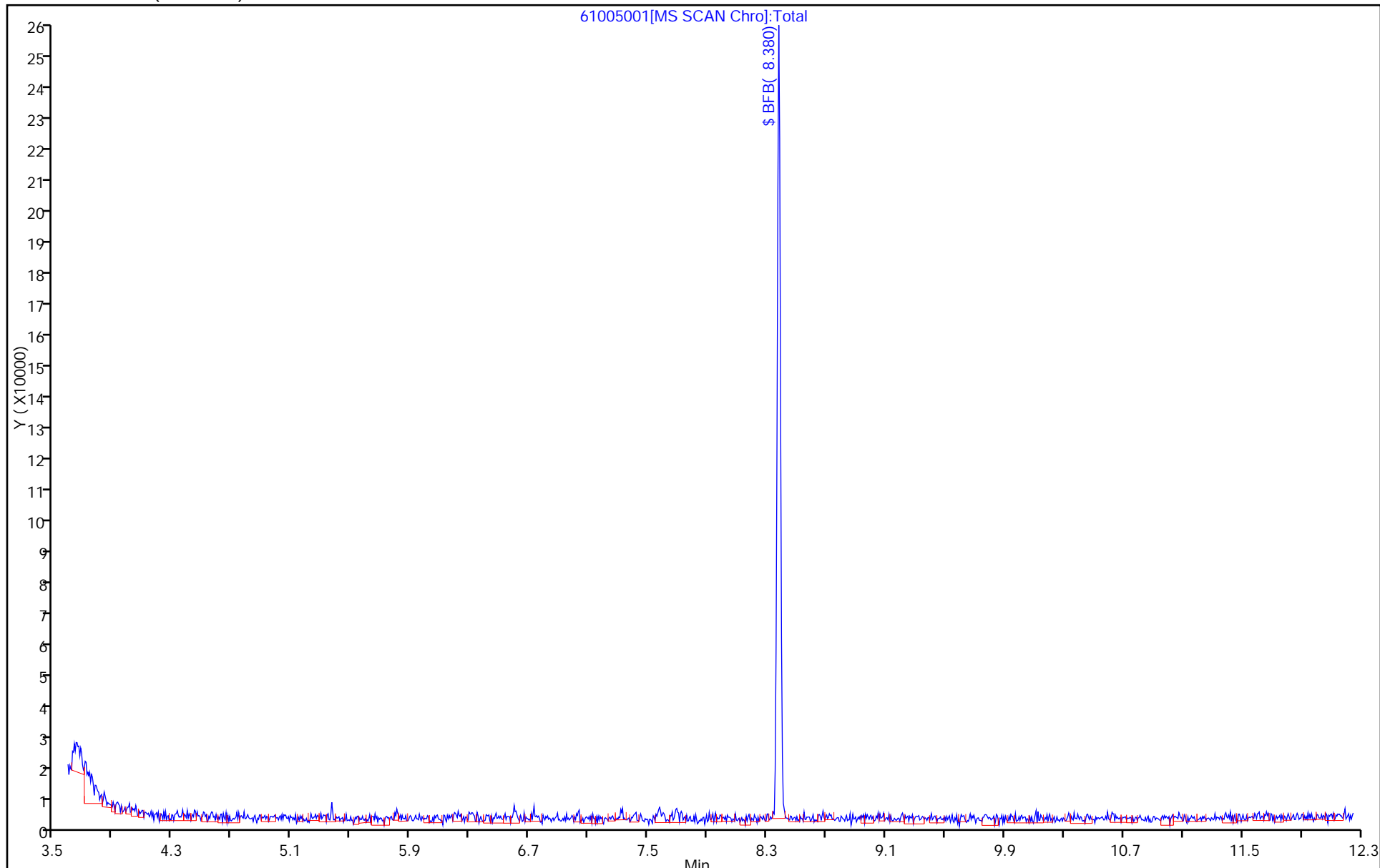
Dil. Factor: 1.0000

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.: 180-48181-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 180-155766/5
 Matrix: Water Lab File ID: 51003005.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 10/03/2015 13:16
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 155766 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 180-155766/5
 Matrix: Water Lab File ID: 51003005.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 10/03/2015 13:16
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 155766 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		64-135
2037-26-5	Toluene-d8 (Surr)	94		71-118
460-00-4	4-Bromofluorobenzene (Surr)	87		70-118
1868-53-7	Dibromofluoromethane (Surr)	102		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\51003005.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 03-Oct-2015 13:16:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 180-0008807-005
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 03-Oct-2015 13:30:55 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: fergusond

Date: 03-Oct-2015 13:30:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.259	4.283	-0.024	0	147960	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.295	7.289	0.006	98	342184	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.385	10.385	0.000	88	87845	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.733	12.727	0.006	96	123643	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.565	6.565	0.000	93	85587	50.0	50.9	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.942	6.936	0.006	0	112457	50.0	48.7	
\$ 7 Toluene-d8 (Surr)	98	8.937	8.937	0.000	94	318334	50.0	47.0	
\$ 8 4-Bromofluorobenzene (Surr	95	11.571	11.571	0.000	90	111308	50.0	43.5	
11 Dichlorodifluoromethane	85		1.607					ND	
12 Chloromethane	50		1.771					ND	
13 Vinyl chloride	62		1.905					ND	
14 Butadiene	39		1.941					ND	
15 Bromomethane	94		2.239					ND	
16 Chloroethane	64		2.391					ND	
17 Dichlorofluoromethane	67		2.665					ND	
18 Trichlorofluoromethane	101		2.702					ND	
19 Ethanol	45		2.957					ND	
20 Ethyl ether	59		3.048					ND	
21 Acrolein	56		3.231					ND	
22 1,1-Dichloroethene	96		3.346					ND	
23 1,1,2-Trichloro-1,2,2-trif	101		3.407					ND	
24 Acetone	43		3.444					ND	
25 Iodomethane	142		3.553					ND	
26 Carbon disulfide	76		3.638					ND	
27 Isopropyl alcohol	45		3.706					ND	
29 Acetonitrile	40		3.870					ND	
28 3-Chloro-1-propene	76		3.918					ND	
30 Methyl acetate	43		3.937					ND	
31 Methylene Chloride	84		4.137					ND	
32 2-Methyl-2-propanol	59		4.405					ND	
33 Acrylonitrile	53		4.527					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
34 trans-1,2-Dichloroethene	96		4.563					ND	
35 Methyl tert-butyl ether	73		4.581					ND	
36 Hexane	57		4.989					ND	
37 1,1-Dichloroethane	63		5.202					ND	
38 Vinyl acetate	43		5.251					ND	
41 Isopropyl ether	45		5.299					ND	
39 2-Chloro-1,3-butadiene	53		5.299					ND	
40 Isopropyl ether TIC	45		5.409					ND	
42 Tert-butyl ethyl ether	59		5.780					ND	
44 2,2-Dichloropropane	77		5.944					ND	
45 cis-1,2-Dichloroethene	96		5.950					ND	
43 Tert-butyl ethyl ether (TI	59		5.961					ND	
46 2-Butanone (MEK)	43		5.962					ND	
48 Ethyl acetate	43		6.036					ND	
47 Propionitrile	54		6.036					ND	
50 Methacrylonitrile	41		6.212					ND	
49 Chlorobromomethane	128		6.236					ND	
51 Tetrahydrofuran	42		6.248					ND	
52 Chloroform	83		6.382					ND	
53 1,1,1-Trichloroethane	97		6.540					ND	
54 Cyclohexane	56		6.613					ND	
56 Carbon tetrachloride	117		6.717					ND	
55 1,1-Dichloropropene	75		6.735					ND	
57 Isobutyl alcohol	41		6.924					ND	
58 Benzene	78		6.942					ND	
59 1,2-Dichloroethane	62		7.021					ND	
61 Tert-amyl methyl ether	73		7.125					ND	
60 Tert-amyl methyl ether (TI	73		7.262					ND	
62 n-Heptane	43		7.307					ND	
63 n-Butanol	56		7.629					ND	
64 Trichloroethene	130		7.678					ND	
65 Ethyl acrylate	55		7.800					ND	
66 Methylcyclohexane	83		7.915					ND	
67 1,2-Dichloropropane	63		7.946					ND	
69 Methyl methacrylate	69		8.031					ND	
68 Dibromomethane	93		8.037					ND	
70 1,4-Dioxane	88		8.037					ND	
71 Dichlorobromomethane	83		8.232					ND	
72 2-Nitropropane	41		8.451					ND	
73 2-Chloroethyl vinyl ether	63		8.526					ND	
74 cis-1,3-Dichloropropene	75		8.676					ND	
75 4-Methyl-2-pentanone (MIBK	43		8.828					ND	
76 Toluene	91		9.004					ND	
77 trans-1,3-Dichloropropene	75		9.254					ND	
78 Ethyl methacrylate	69		9.308					ND	
79 1,1,2-Trichloroethane	97		9.442					ND	
80 Tetrachloroethene	164		9.515					ND	
81 1,3-Dichloropropane	76		9.600					ND	
82 2-Hexanone	43		9.655					ND	
83 n-Butyl acetate	43		9.783					ND	
84 Chlorodibromomethane	129		9.819					ND	
85 Ethylene Dibromide	107		9.929					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
86 3-Chlorobenzotrifluoride	180		10.391					ND	
87 Chlorobenzene	112		10.415					ND	
88 4-Chlorobenzotrifluoride	180		10.476					ND	
89 1,1,1,2-Tetrachloroethane	131		10.513					ND	
90 Ethylbenzene	106		10.519					ND	
91 m-Xylene & p-Xylene	106		10.647					ND	
92 o-Xylene	106		11.030					ND	
93 Styrene	104		11.048					ND	
94 Bromoform	173		11.231					ND	
95 Cyclohexanol	57		11.245					ND	
96 2-Chlorobenzotrifluoride	180		11.298					ND	
97 Isopropylbenzene	105		11.395					ND	
98 Cyclohexanone	55		11.480					ND	
99 1,1,2,2-Tetrachloroethane	83		11.705					ND	
100 Bromobenzene	156		11.711					ND	
102 trans-1,4-Dichloro-2-buten	53		11.742					ND	
101 1,2,3-Trichloropropane	110		11.766					ND	
103 N-Propylbenzene	120		11.815					ND	
104 2-Chlorotoluene	126		11.900					ND	
105 3-Chlorotoluene	126		11.967					ND	
106 1,3,5-Trimethylbenzene	105		11.997					ND	
107 4-Chlorotoluene	126		12.022					ND	
108 tert-Butylbenzene	119		12.307					ND	
109 Pentachloroethane	167		12.338					ND	
110 1,2,4-Trimethylbenzene	105		12.368					ND	
111 1,2-dichloro-4-(trifluorom	214		12.411					ND	
112 sec-Butylbenzene	105		12.533					ND	
113 1,3-Dichlorobenzene	146		12.648					ND	
114 4-Isopropyltoluene	119		12.691					ND	
115 1,4-Dichlorobenzene	146		12.752					ND	
117 1,2,3-Trimethylbenzene	105		12.776					ND	
116 2,4-Dichloro-1-(triflourom	214		12.782					ND	
118 2,5-Dichlorobenzotrifluori	214		12.818					ND	
119 Benzyl chloride	91		12.867					ND	
120 n-Butylbenzene	91		13.098					ND	
121 1,2-Dichlorobenzene	146		13.110					ND	
122 1,2-Dibromo-3-Chloropropan	75		13.907					ND	
123 2,4- & 2,5- & 2,6- Dichlor	125		14.047					ND	
124 1,3,5-Trichlorobenzene	180		14.087					ND	
125 2,3- & 3,4- Dichlorotoluen	125		14.461					ND	
126 1,2,4-Trichlorobenzene	180		14.729					ND	
127 Hexachlorobutadiene	225		14.869					ND	
128 Naphthalene	128		14.990					ND	
129 1,2,3-Trichlorobenzene	180		15.215					ND	
131 2,4,5-Trichlorotoluene	159		15.994					ND	
130 2,3,6-Trichlorotoluene	159		16.091					ND	
132 2-Methylnaphthalene	142		16.134					ND	
151 Isooctane	57		0.000					ND	
146 2,5-Dichlorotoluene	1		0.000					ND	
148 2,3-Dichlorotoluene	1		0.000					ND	
147 2,4-Dichlorotoluene	1		0.000					ND	
149 3,4-Dichlorotoluene	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
152 Formaldehyde TIC	1		0.000					ND	
150 2,6-Dichlorotoluene	1		0.000					ND	
S 133 Xylenes, Total	106		1.000					ND	
S 134 1,2-Dichloroethene, Total	96		1.000					ND	
S 135 1,3-Dichloropropene, Total	1		0.000					ND	
T 136 Mesityl oxide TIC	83		0.000					ND	
T 138 Methyl n-amyl ketone TIC	43		0.000					ND	
T 137 Tetrahydrofuran TIC	42		6.253					ND	
T 153 1,2 Epoxybutane TIC	42		6.253					ND	

Reagents:

VOA8260INT_00042

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00042

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\51003005.D

Injection Date: 03-Oct-2015 13:16:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: MB

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

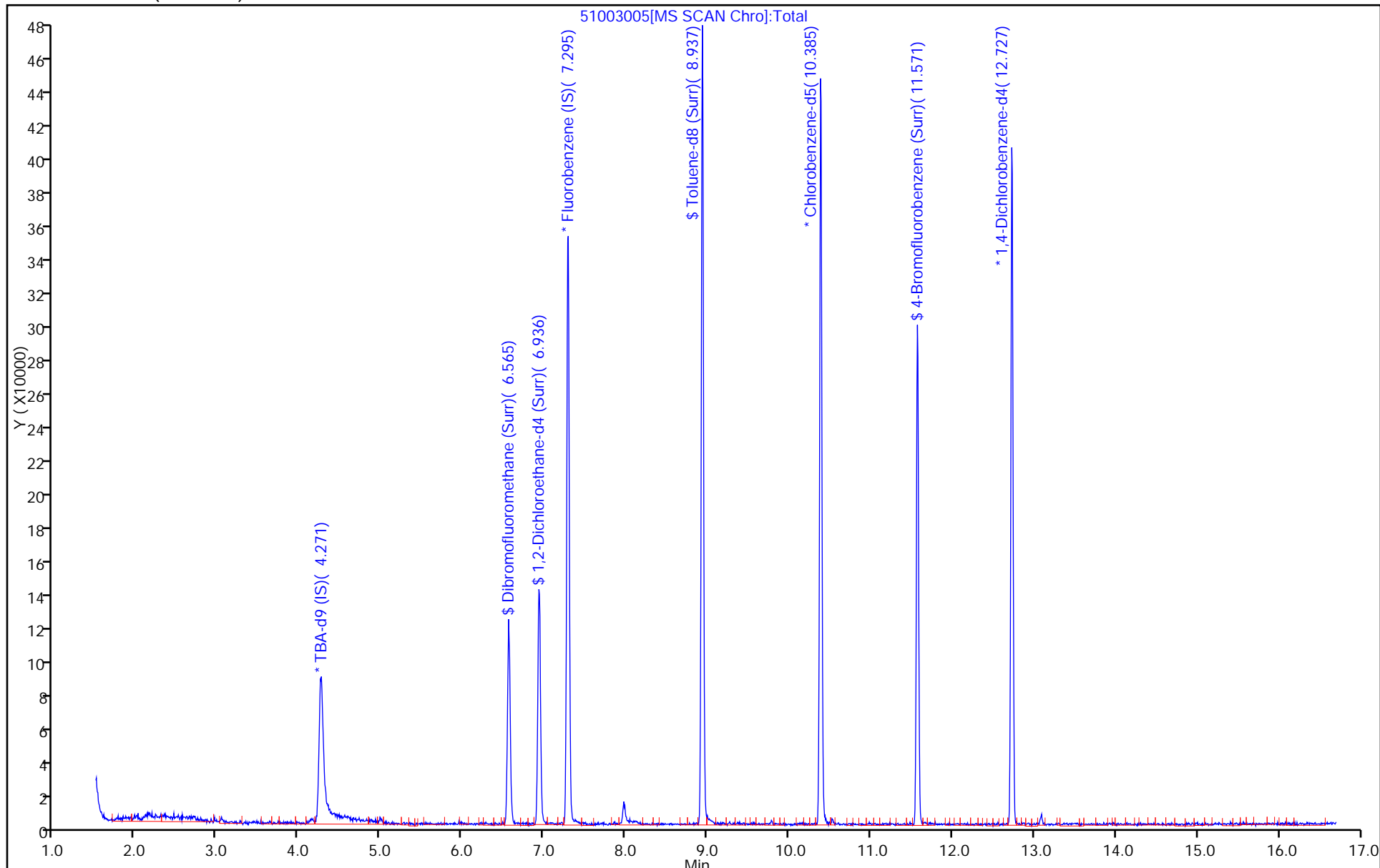
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 180-155869/5
 Matrix: Water Lab File ID: 61005005.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 10/05/2015 11:25
 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.: 155869 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 180-155869/5
 Matrix: Water Lab File ID: 61005005.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 10/05/2015 11:25
 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.: 155869 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		64-135
2037-26-5	Toluene-d8 (Surr)	99		71-118
460-00-4	4-Bromofluorobenzene (Surr)	88		70-118
1868-53-7	Dibromofluoromethane (Surr)	105		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005005.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 05-Oct-2015 11:25:30 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 180-0008826-005
 Operator ID: 001562 Instrument ID: CHHP6
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 05-Oct-2015 12:51:43 Calib Date: 14-Sep-2015 16:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: fergusond

Date: 05-Oct-2015 12:51:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.235	4.230	0.005	93	183859	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.290	-0.001	98	425468	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.397	10.399	-0.002	90	103279	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.752	12.747	0.005	98	169357	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.553	6.550	0.003	93	102465	50.0	52.3	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.930	6.928	0.002	70	162047	50.0	51.3	
\$ 7 Toluene-d8 (Surr)	98	8.943	8.941	0.002	94	403252	50.0	49.5	
\$ 8 4-Bromofluorobenzene (Surr	95	11.584	11.587	-0.003	86	159385	50.0	44.1	
11 Dichlorodifluoromethane	85		1.604					ND	
12 Chloromethane	50		1.769					ND	
13 Vinyl chloride	62		1.903					ND	
14 Butadiene	39		1.939					ND	
15 Bromomethane	94		2.243					ND	
16 Chloroethane	64		2.377					ND	
17 Dichlorofluoromethane	67		2.651					ND	
18 Trichlorofluoromethane	101		2.681					ND	
19 Ethanol	45		2.941					ND	
20 Ethyl ether	59		3.046					ND	
21 Acrolein	56		3.211					ND	
22 1,1-Dichloroethene	96		3.326					ND	
23 1,1,2-Trichloro-1,2,2-trif	101		3.405					ND	
24 Acetone	43		3.430					ND	
25 Iodomethane	142		3.533					ND	
26 Carbon disulfide	76		3.630					ND	
27 Isopropyl alcohol	45		3.677					ND	
28 Acetonitrile	40		3.847					ND	
29 3-Chloro-1-propene	76		3.910					ND	
30 Methyl acetate	43		3.922					ND	
31 Methylene Chloride	84		4.117					ND	
32 2-Methyl-2-propanol	59		4.366					ND	
33 Acrylonitrile	53		4.500					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
34 trans-1,2-Dichloroethene	96		4.555					ND	
35 Methyl tert-butyl ether	73		4.573					ND	
37 1,1-Dichloroethane	63		5.194					ND	
40 Isopropyl ether	45		5.295					ND	
39 2-Chloro-1,3-butadiene	53		5.295					ND	
41 Tert-butyl ethyl ether	59		5.769					ND	
42 2,2-Dichloropropane	77		5.936					ND	
43 cis-1,2-Dichloroethene	96		5.942					ND	
44 2-Butanone (MEK)	43		5.948					ND	
45 Propionitrile	54		6.013					ND	
46 Ethyl acetate	43		6.025					ND	
47 Methacrylonitrile	41		6.195					ND	
48 Chlorobromomethane	128		6.228					ND	
49 Tetrahydrofuran	42		6.246					ND	
50 Chloroform	83		6.368					ND	
51 1,1,1-Trichloroethane	97		6.532					ND	
52 Cyclohexane	56		6.617					ND	
53 Carbon tetrachloride	117		6.715					ND	
54 1,1-Dichloropropene	75		6.727					ND	
55 Isobutyl alcohol	41		6.897					ND	
56 Benzene	78		6.940					ND	
57 1,2-Dichloroethane	62		7.013					ND	
148 Isooctane	57		7.102					ND	
58 Tert-amyl methyl ether	73		7.120					ND	
59 n-Heptane	43		7.305					ND	
60 n-Butanol	56		7.613					ND	
61 Trichloroethene	130		7.676					ND	
62 Ethyl acrylate	55		7.795					ND	
63 Methylcyclohexane	83		7.925					ND	
64 1,2-Dichloropropane	63		7.950					ND	
65 1,4-Dioxane	88		8.023					ND	
66 Methyl methacrylate	69		8.032					ND	
67 Dibromomethane	93		8.035					ND	
68 Dichlorobromomethane	83		8.229					ND	
69 2-Nitropropane	41		8.446					ND	
70 2-Chloroethyl vinyl ether	63		8.530					ND	
71 cis-1,3-Dichloropropene	75		8.680					ND	
72 4-Methyl-2-pentanone (MIBK)	43		8.826					ND	
73 Toluene	91		9.008					ND	
74 trans-1,3-Dichloropropene	75		9.257					ND	
75 Ethyl methacrylate	69		9.312					ND	
77 Tetrachloroethene	164		9.525					ND	
79 2-Hexanone	43		9.659					ND	
81 Chlorodibromomethane	129		9.823					ND	
82 Ethylene Dibromide	107		9.939					ND	
83 3-Chlorobenzotrifluoride	180		10.395					ND	
84 Chlorobenzene	112		10.426					ND	
85 4-Chlorobenzotrifluoride	180		10.486					ND	
86 1,1,1,2-Tetrachloroethane	131		10.523					ND	
87 Ethylbenzene	106		10.529					ND	
88 m-Xylene & p-Xylene	106		10.657					ND	
89 o-Xylene	106		11.040					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
90 Styrene	104		11.058					ND	
129 Cyclohexanol	57		11.246					ND	
91 Bromoform	173		11.247					ND	
92 2-Chlorobenzotrifluoride	180		11.302					ND	
93 Isopropylbenzene	105		11.411					ND	
94 Cyclohexanone	55		11.494					ND	
96 1,1,2,2-Tetrachloroethane	83		11.715					ND	
95 Bromobenzene	156		11.727					ND	
97 trans-1,4-Dichloro-2-buten	53		11.758					ND	
98 1,2,3-Trichloropropane	110		11.776					ND	
99 N-Propylbenzene	120		11.825					ND	
100 2-Chlorotoluene	126		11.916					ND	
101 3-Chlorotoluene	126		11.977					ND	
102 1,3,5-Trimethylbenzene	105		12.007					ND	
103 4-Chlorotoluene	126		12.038					ND	
104 tert-Butylbenzene	119		12.324					ND	
105 Pentachloroethane	167		12.358					ND	
106 1,2,4-Trimethylbenzene	105		12.384					ND	
107 1,2-dichloro-4-(trifluorom	214		12.421					ND	
108 sec-Butylbenzene	105		12.549					ND	
110 4-Isopropyltoluene	119		12.707					ND	
113 2,4-Dichloro-1-(triflourom	214		12.786					ND	
112 1,2,3-Trimethylbenzene	105		12.796					ND	
114 2,5-Dichlorobenzotrifluori	214		12.828					ND	
115 Benzyl chloride	91		12.881					ND	
116 n-Butylbenzene	91		13.114					ND	
117 1,2-Dichlorobenzene	146		13.127					ND	
118 1,2-Dibromo-3-Chloropropan	75		13.911					ND	
119 2,4- & 2,5- & 2,6- Dichlor	125		14.057					ND	
120 1,3,5-Trichlorobenzene	180		14.110					ND	
121 2,3- & 3,4- Dichlorotoluen	125		14.477					ND	
122 1,2,4-Trichlorobenzene	180		14.745					ND	
123 Hexachlorobutadiene	225		14.891					ND	
125 1,2,3-Trichlorobenzene	180		15.225					ND	
126 2,4,5-Trichlorotoluene	159		16.010					ND	
127 2,3,6-Trichlorotoluene	159		16.107					ND	
128 2-Methylnaphthalene	142		16.154					ND	
153 1,2 Epoxybutane TIC	1		0.000					ND	
145 2,3-Dichlorotoluene	1		0.000					ND	
147 2,6-Dichlorotoluene	1		0.000					ND	
146 3,4-Dichlorotoluene	1		0.000					ND	
152 Formaldehyde TIC	1		0.000					ND	
150 Tert-butyl ethyl ether (TI	1		0.000					ND	
151 Tert-amyl methyl ether (TI	1		0.000					ND	
144 2,4-Dichlorotoluene	1		0.000					ND	
149 Isopropyl ether TIC	1		0.000					ND	
143 2,5-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	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
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T 135 Mesityl oxide TIC

83

0.000

ND

Reagents:

VOA8260INT_00042

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00042

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005005.D

Injection Date: 05-Oct-2015 11:25:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: MB

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

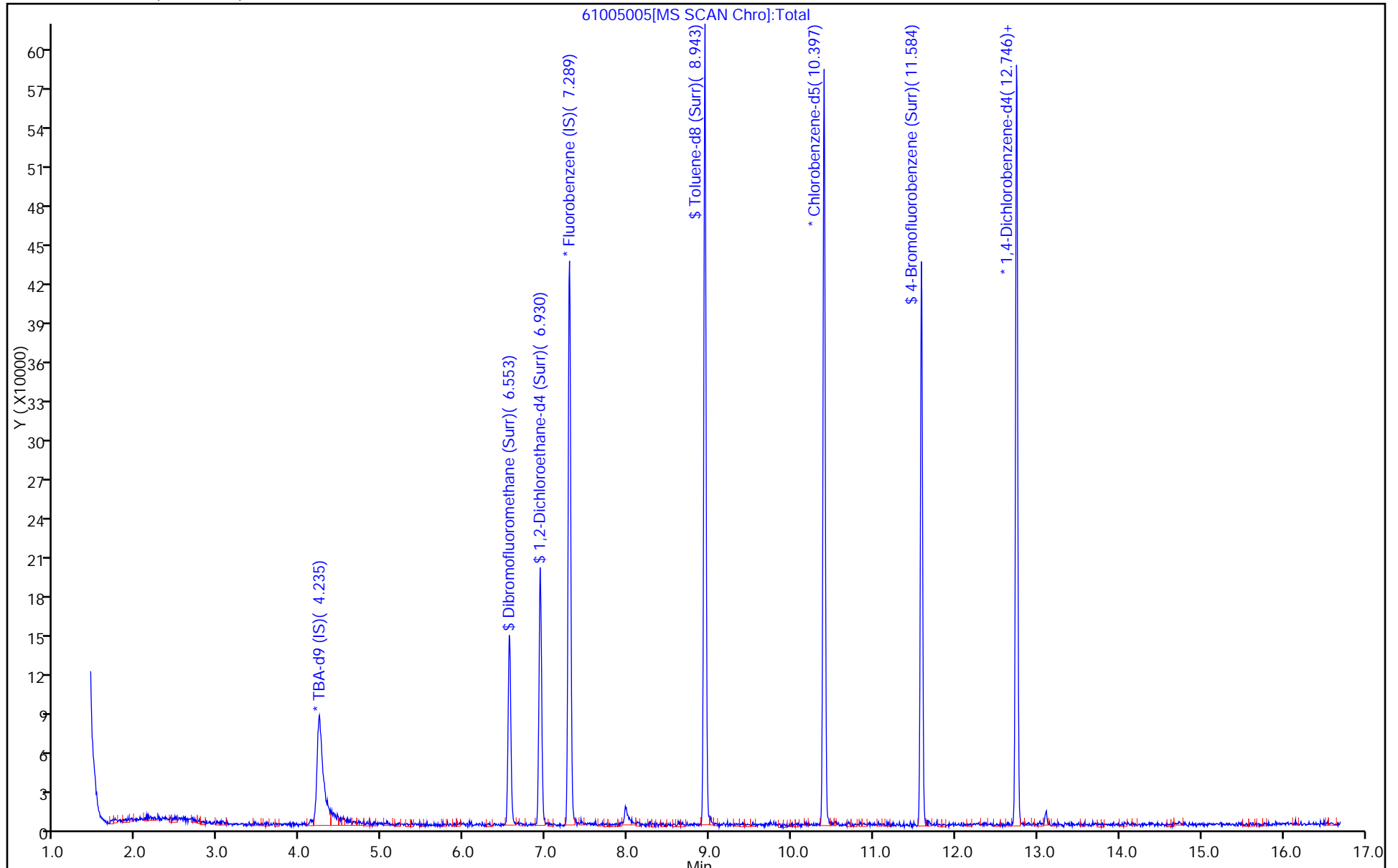
Dil. Factor: 1.0000

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.: 180-48181-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 180-155884/4
 Matrix: Water Lab File ID: 51005004.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 10/05/2015 11:57
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 155884 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 180-155884/4
 Matrix: Water Lab File ID: 51005004.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 10/05/2015 11:57
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 155884 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		64-135
2037-26-5	Toluene-d8 (Surr)	91		71-118
460-00-4	4-Bromofluorobenzene (Surr)	88		70-118
1868-53-7	Dibromofluoromethane (Surr)	105		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005004.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 05-Oct-2015 11:57:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 180-0008828-004
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 05-Oct-2015 12:28:25 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: fergusond

Date: 05-Oct-2015 12:28:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.273	4.281	-0.008	0	159358	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.292	-0.002	98	345349	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.387	10.388	-0.001	87	89221	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.735	12.730	0.005	95	130925	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.566	6.568	-0.002	93	89075	50.0	52.5	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.937	6.933	0.004	0	108531	50.0	46.6	
\$ 7 Toluene-d8 (Surr)	98	8.939	8.940	-0.001	94	312999	50.0	45.5	
\$ 8 4-Bromofluorobenzene (Surr	95	11.573	11.575	-0.002	91	113703	50.0	43.8	
11 Dichlorodifluoromethane	85		1.604					ND	
12 Chloromethane	50		1.774					ND	
13 Vinyl chloride	62		1.908					ND	
14 Butadiene	39		1.951					ND	
15 Bromomethane	94		2.249					ND	
16 Chloroethane	64		2.413					ND	
17 Dichlorofluoromethane	67		2.675					ND	
18 Trichlorofluoromethane	101		2.699					ND	
19 Ethanol	45		2.957					ND	
20 Ethyl ether	59		3.046					ND	
21 Acrolein	56		3.222					ND	
22 1,1-Dichloroethene	96		3.344					ND	
23 1,1,2-Trichloro-1,2,2-trif	101		3.423					ND	
24 Acetone	43		3.441					ND	
25 Iodomethane	142		3.538					ND	
26 Carbon disulfide	76		3.636					ND	
27 Isopropyl alcohol	45		3.706					ND	
29 Acetonitrile	40		3.870					ND	
28 3-Chloro-1-propene	76		3.922					ND	
30 Methyl acetate	43		3.940					ND	
31 Methylene Chloride	84		4.141					ND	
32 2-Methyl-2-propanol	59		4.402					ND	
33 Acrylonitrile	53		4.524					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
34 trans-1,2-Dichloroethene	96		4.566					ND	
35 Methyl tert-butyl ether	73		4.579					ND	
36 Hexane	57		4.992					ND	
37 1,1-Dichloroethane	63		5.199					ND	
38 Vinyl acetate	43		5.254					ND	
41 Isopropyl ether	45		5.299					ND	
39 2-Chloro-1,3-butadiene	53		5.299					ND	
40 Isopropyl ether TIC	45		5.409					ND	
42 Tert-butyl ethyl ether	59		5.780					ND	
44 2,2-Dichloropropane	77		5.947					ND	
45 cis-1,2-Dichloroethene	96		5.954					ND	
43 Tert-butyl ethyl ether (TI	59		5.961					ND	
46 2-Butanone (MEK)	43		5.966					ND	
48 Ethyl acetate	43		6.036					ND	
47 Propionitrile	54		6.036					ND	
50 Methacrylonitrile	41		6.212					ND	
49 Chlorobromomethane	128		6.233					ND	
51 Tetrahydrofuran	42		6.252					ND	
52 Chloroform	83		6.379					ND	
53 1,1,1-Trichloroethane	97		6.550					ND	
54 Cyclohexane	56		6.617					ND	
56 Carbon tetrachloride	117		6.720					ND	
55 1,1-Dichloropropene	75		6.732					ND	
57 Isobutyl alcohol	41		6.927					ND	
58 Benzene	78		6.945					ND	
59 1,2-Dichloroethane	62		7.024					ND	
61 Tert-amyl methyl ether	73		7.125					ND	
60 Tert-amyl methyl ether (TI	73		7.262					ND	
62 n-Heptane	43		7.310					ND	
63 n-Butanol	56		7.629					ND	
64 Trichloroethene	130		7.675					ND	
65 Ethyl acrylate	55		7.800					ND	
66 Methylcyclohexane	83		7.912					ND	
67 1,2-Dichloropropane	63		7.949					ND	
69 Methyl methacrylate	69		8.031					ND	
68 Dibromomethane	93		8.034					ND	
70 1,4-Dioxane	88		8.034					ND	
71 Dichlorobromomethane	83		8.235					ND	
72 2-Nitropropane	41		8.451					ND	
73 2-Chloroethyl vinyl ether	63		8.526					ND	
74 cis-1,3-Dichloropropene	75		8.679					ND	
75 4-Methyl-2-pentanone (MIBK	43		8.825					ND	
76 Toluene	91		9.007					ND	
77 trans-1,3-Dichloropropene	75		9.257					ND	
78 Ethyl methacrylate	69		9.312					ND	
79 1,1,2-Trichloroethane	97		9.445					ND	
80 Tetrachloroethene	164		9.518					ND	
81 1,3-Dichloropropane	76		9.604					ND	
82 2-Hexanone	43		9.658					ND	
83 n-Butyl acetate	43		9.783					ND	
84 Chlorodibromomethane	129		9.823					ND	
85 Ethylene Dibromide	107		9.932					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
86 3-Chlorobenzotrifluoride	180		10.394					ND	
87 Chlorobenzene	112		10.419					ND	
88 4-Chlorobenzotrifluoride	180		10.480					ND	
89 1,1,1,2-Tetrachloroethane	131		10.510					ND	
90 Ethylbenzene	106		10.522					ND	
91 m-Xylene & p-Xylene	106		10.650					ND	
92 o-Xylene	106		11.033					ND	
93 Styrene	104		11.051					ND	
94 Bromoform	173		11.228					ND	
95 Cyclohexanol	57		11.245					ND	
96 2-Chlorobenzotrifluoride	180		11.301					ND	
97 Isopropylbenzene	105		11.398					ND	
98 Cyclohexanone	55		11.480					ND	
99 1,1,2,2-Tetrachloroethane	83		11.708					ND	
100 Bromobenzene	156		11.708					ND	
102 trans-1,4-Dichloro-2-buten	53		11.745					ND	
101 1,2,3-Trichloropropane	110		11.769					ND	
103 N-Propylbenzene	120		11.812					ND	
104 2-Chlorotoluene	126		11.903					ND	
105 3-Chlorotoluene	126		11.970					ND	
106 1,3,5-Trimethylbenzene	105		11.994					ND	
107 4-Chlorotoluene	126		12.025					ND	
108 tert-Butylbenzene	119		12.311					ND	
109 Pentachloroethane	167		12.338					ND	
110 1,2,4-Trimethylbenzene	105		12.372					ND	
111 1,2-dichloro-4-(trifluorom	214		12.408					ND	
112 sec-Butylbenzene	105		12.536					ND	
113 1,3-Dichlorobenzene	146		12.651					ND	
114 4-Isopropyltoluene	119		12.688					ND	
115 1,4-Dichlorobenzene	146		12.755					ND	
117 1,2,3-Trimethylbenzene	105		12.776					ND	
116 2,4-Dichloro-1-(triflourom	214		12.779					ND	
118 2,5-Dichlorobenzotrifluori	214		12.822					ND	
119 Benzyl chloride	91		12.867					ND	
120 n-Butylbenzene	91		13.102					ND	
121 1,2-Dichlorobenzene	146		13.108					ND	
122 1,2-Dibromo-3-Chloropropan	75		13.905					ND	
123 2,4- & 2,5- & 2,6- Dichlor	125		14.045					ND	
124 1,3,5-Trichlorobenzene	180		14.087					ND	
125 2,3- & 3,4- Dichlorotoluen	125		14.464					ND	
126 1,2,4-Trichlorobenzene	180		14.726					ND	
127 Hexachlorobutadiene	225		14.872					ND	
128 Naphthalene	128		14.994					ND	
129 1,2,3-Trichlorobenzene	180		15.219					ND	
131 2,4,5-Trichlorotoluene	159		15.991					ND	
130 2,3,6-Trichlorotoluene	159		16.095					ND	
132 2-Methylnaphthalene	142		16.134					ND	
152 Formaldehyde TIC	1		0.000					ND	
148 2,3-Dichlorotoluene	1		0.000					ND	
151 Isooctane	57		0.000					ND	
146 2,5-Dichlorotoluene	1		0.000					ND	
150 2,6-Dichlorotoluene	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
149 3,4-Dichlorotoluene	1		0.000						ND
147 2,4-Dichlorotoluene	1		0.000						ND
S 133 Xylenes, Total	106		1.000						ND
S 134 1,2-Dichloroethene, Total	96		1.000						ND
S 135 1,3-Dichloropropene, Total	1		0.000						ND
T 136 Mesityl oxide TIC	83		0.000						ND
T 138 Methyl n-amyl ketone TIC	43		0.000						ND
T 137 Tetrahydrofuran TIC	42		6.253						ND
T 153 1,2 Epoxybutane TIC	42		6.253						ND

Reagents:

VOA8260INT_00042

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURR_00042

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005004.D

Injection Date: 05-Oct-2015 11:57:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: MB

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

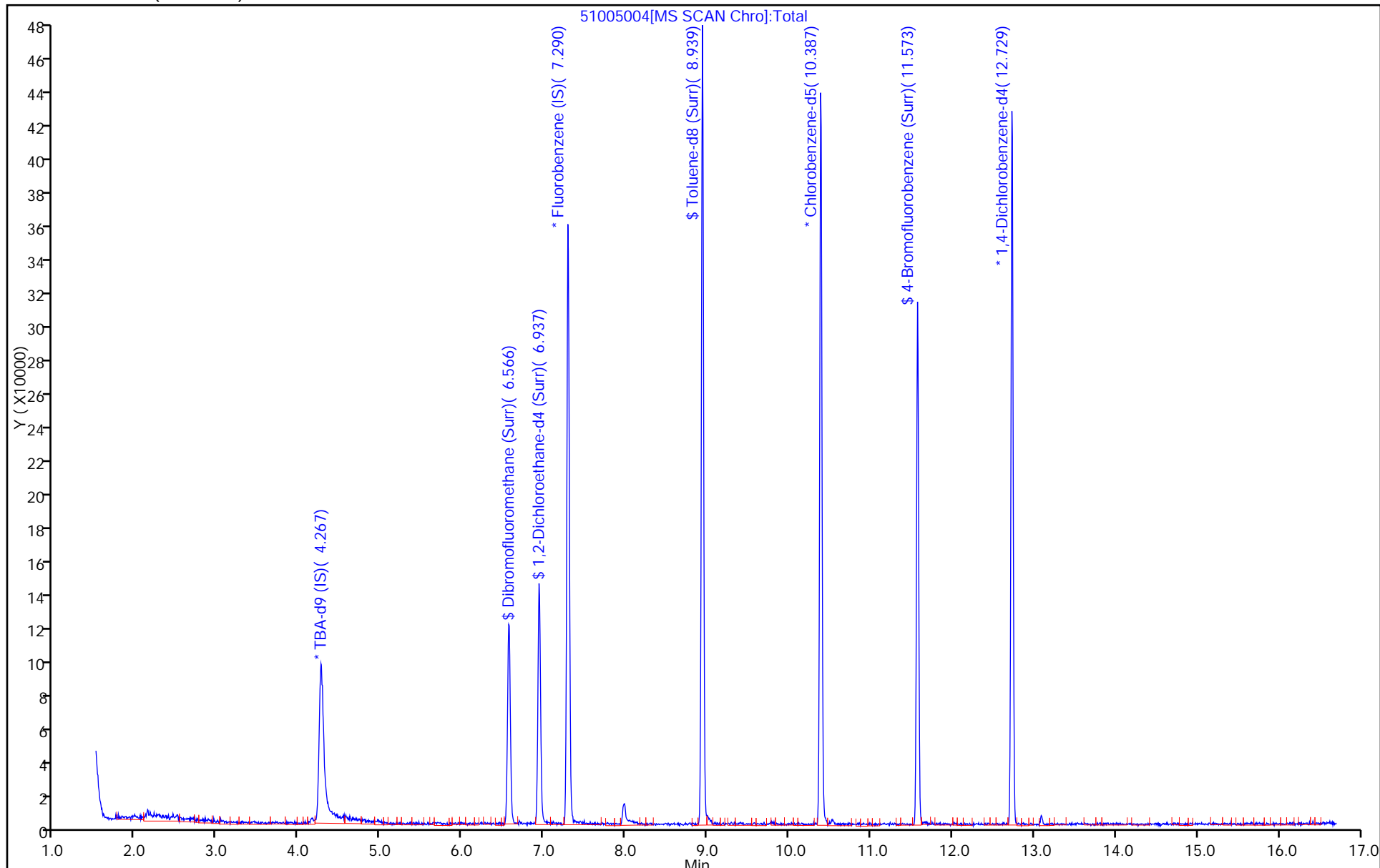
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 180-156037/6
 Matrix: Water Lab File ID: 51006006.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 10/06/2015 13:50
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 156037 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 180-156037/6
 Matrix: Water Lab File ID: 51006006.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 10/06/2015 13:50
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 156037 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		64-135
2037-26-5	Toluene-d8 (Surr)	93		71-118
460-00-4	4-Bromofluorobenzene (Surr)	88		70-118
1868-53-7	Dibromofluoromethane (Surr)	105		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006006.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 06-Oct-2015 13:50:30 ALS Bottle#: 4 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 180-0008850-006
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 06-Oct-2015 15:36:29 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: fergusond

Date: 06-Oct-2015 15:36:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.266	4.279	-0.013	0	137828	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.290	0.000	98	302565	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.386	10.387	-0.001	86	79543	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.728	12.729	-0.001	95	115658	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.572	6.560	0.012	93	77888	50.0	52.4	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.937	6.937	0.000	0	96472	50.0	47.3	
\$ 7 Toluene-d8 (Surr)	98	8.938	8.939	-0.001	94	285561	50.0	46.5	
\$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.573	-0.001	92	101951	50.0	44.0	
11 Dichlorodifluoromethane	85		1.608					ND	
12 Chloromethane	50		1.779					ND	
13 Vinyl chloride	62		1.912					ND	
14 Butadiene	39		1.949					ND	
15 Bromomethane	94		2.247					ND	
16 Chloroethane	64		2.399					ND	
17 Dichlorofluoromethane	67		2.679					ND	
18 Trichlorofluoromethane	101		2.703					ND	
19 Ethanol	45		2.957					ND	
20 Ethyl ether	59		3.056					ND	
21 Acrolein	56		3.232					ND	
22 1,1-Dichloroethene	96		3.348					ND	
23 1,1,2-Trichloro-1,2,2-trif	101		3.433					ND	
24 Acetone	43		3.451					ND	
25 Iodomethane	142		3.537					ND	
26 Carbon disulfide	76		3.652					ND	
27 Isopropyl alcohol	45		3.706					ND	
29 Acetonitrile	40		3.870					ND	
28 3-Chloro-1-propene	76		3.926					ND	
30 Methyl acetate	43		3.944					ND	
31 Methylene Chloride	84		4.133					ND	
32 2-Methyl-2-propanol	59		4.407					ND	
33 Acrylonitrile	53		4.528					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
34 trans-1,2-Dichloroethene	96		4.565					ND	
35 Methyl tert-butyl ether	73		4.583					ND	
36 Hexane	57		4.985					ND	
37 1,1-Dichloroethane	63		5.204					ND	
38 Vinyl acetate	43		5.252					ND	
41 Isopropyl ether	45		5.299					ND	
39 2-Chloro-1,3-butadiene	53		5.299					ND	
40 Isopropyl ether TIC	45		5.409					ND	
42 Tert-butyl ethyl ether	59		5.780					ND	
44 2,2-Dichloropropane	77		5.946					ND	
45 cis-1,2-Dichloroethene	96		5.958					ND	
43 Tert-butyl ethyl ether (TI	59		5.961					ND	
46 2-Butanone (MEK)	43		5.964					ND	
48 Ethyl acetate	43		6.036					ND	
47 Propionitrile	54		6.036					ND	
50 Methacrylonitrile	41		6.212					ND	
49 Chlorobromomethane	128		6.238					ND	
51 Tetrahydrofuran	42		6.250					ND	
52 Chloroform	83		6.384					ND	
53 1,1,1-Trichloroethane	97		6.542					ND	
54 Cyclohexane	56		6.615					ND	
56 Carbon tetrachloride	117		6.718					ND	
55 1,1-Dichloropropene	75		6.730					ND	
57 Isobutyl alcohol	41		6.925					ND	
58 Benzene	78		6.943					ND	
59 1,2-Dichloroethane	62		7.022					ND	
61 Tert-amyl methyl ether	73		7.125					ND	
60 Tert-amyl methyl ether (TI	73		7.262					ND	
62 n-Heptane	43		7.308					ND	
63 n-Butanol	56		7.629					ND	
64 Trichloroethene	130		7.679					ND	
65 Ethyl acrylate	55		7.800					ND	
66 Methylcyclohexane	83		7.917					ND	
67 1,2-Dichloropropane	63		7.947					ND	
69 Methyl methacrylate	69		8.031					ND	
70 1,4-Dioxane	88		8.032					ND	
68 Dibromomethane	93		8.038					ND	
71 Dichlorobromomethane	83		8.233					ND	
72 2-Nitropropane	41		8.451					ND	
73 2-Chloroethyl vinyl ether	63		8.526					ND	
74 cis-1,3-Dichloropropene	75		8.677					ND	
75 4-Methyl-2-pentanone (MIBK	43		8.829					ND	
76 Toluene	91		9.006					ND	
77 trans-1,3-Dichloropropene	75		9.255					ND	
78 Ethyl methacrylate	69		9.310					ND	
79 1,1,2-Trichloroethane	97		9.450					ND	
80 Tetrachloroethene	164		9.517					ND	
81 1,3-Dichloropropane	76		9.602					ND	
82 2-Hexanone	43		9.663					ND	
83 n-Butyl acetate	43		9.783					ND	
84 Chlorodibromomethane	129		9.815					ND	
85 Ethylene Dibromide	107		9.930					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
86 3-Chlorobenzotrifluoride	180		10.387					ND	
87 Chlorobenzene	112		10.417					ND	
88 4-Chlorobenzotrifluoride	180		10.478					ND	
89 1,1,1,2-Tetrachloroethane	131		10.514					ND	
90 Ethylbenzene	106		10.514					ND	
91 m-Xylene & p-Xylene	106		10.648					ND	
92 o-Xylene	106		11.031					ND	
93 Styrene	104		11.050					ND	
94 Bromoform	173		11.232					ND	
95 Cyclohexanol	57		11.245					ND	
96 2-Chlorobenzotrifluoride	180		11.299					ND	
97 Isopropylbenzene	105		11.396					ND	
98 Cyclohexanone	55		11.480					ND	
99 1,1,2,2-Tetrachloroethane	83		11.707					ND	
100 Bromobenzene	156		11.713					ND	
102 trans-1,4-Dichloro-2-buten	53		11.743					ND	
101 1,2,3-Trichloropropane	110		11.761					ND	
103 N-Propylbenzene	120		11.810					ND	
104 2-Chlorotoluene	126		11.901					ND	
105 3-Chlorotoluene	126		11.968					ND	
106 1,3,5-Trimethylbenzene	105		11.999					ND	
107 4-Chlorotoluene	126		12.023					ND	
108 tert-Butylbenzene	119		12.309					ND	
109 Pentachloroethane	167		12.338					ND	
110 1,2,4-Trimethylbenzene	105		12.370					ND	
111 1,2-dichloro-4-(trifluorom	214		12.412					ND	
112 sec-Butylbenzene	105		12.534					ND	
113 1,3-Dichlorobenzene	146		12.650					ND	
114 4-Isopropyltoluene	119		12.692					ND	
115 1,4-Dichlorobenzene	146		12.753					ND	
117 1,2,3-Trimethylbenzene	105		12.776					ND	
116 2,4-Dichloro-1-(triflourom	214		12.777					ND	
118 2,5-Dichlorobenzotrifluori	214		12.820					ND	
119 Benzyl chloride	91		12.867					ND	
120 n-Butylbenzene	91		13.100					ND	
121 1,2-Dichlorobenzene	146		13.112					ND	
122 1,2-Dibromo-3-Chloropropan	75		13.903					ND	
123 2,4- & 2,5- & 2,6- Dichlor	125		14.043					ND	
124 1,3,5-Trichlorobenzene	180		14.087					ND	
125 2,3- & 3,4- Dichlorotoluen	125		14.463					ND	
126 1,2,4-Trichlorobenzene	180		14.724					ND	
127 Hexachlorobutadiene	225		14.870					ND	
128 Naphthalene	128		14.992					ND	
129 1,2,3-Trichlorobenzene	180		15.217					ND	
131 2,4,5-Trichlorotoluene	159		15.996					ND	
130 2,3,6-Trichlorotoluene	159		16.087					ND	
132 2-Methylnaphthalene	142		16.134					ND	
152 Formaldehyde TIC	1		0.000					ND	
148 2,3-Dichlorotoluene	1		0.000					ND	
151 Isooctane	57		0.000					ND	
146 2,5-Dichlorotoluene	1		0.000					ND	
150 2,6-Dichlorotoluene	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
149 3,4-Dichlorotoluene	1		0.000					ND	
147 2,4-Dichlorotoluene	1		0.000					ND	
S 134 1,2-Dichloroethene, Total	96		1.000					ND	
S 133 Xylenes, Total	106		1.000					ND	
S 135 1,3-Dichloropropene, Total	1		0.000					ND	
T 138 Methyl n-amyl ketone TIC	43		0.000					ND	
T 136 Mesityl oxide TIC	83		0.000					ND	
T 153 1,2 Epoxybutane TIC	42		6.253					ND	
T 137 Tetrahydrofuran TIC	42		6.253					ND	

Reagents:

VOA8260INT_00042

Amount Added: 2.00

Units: uL

Run Reagent

VOA8260SURRE_00042

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006006.D

Injection Date: 06-Oct-2015 13:50:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

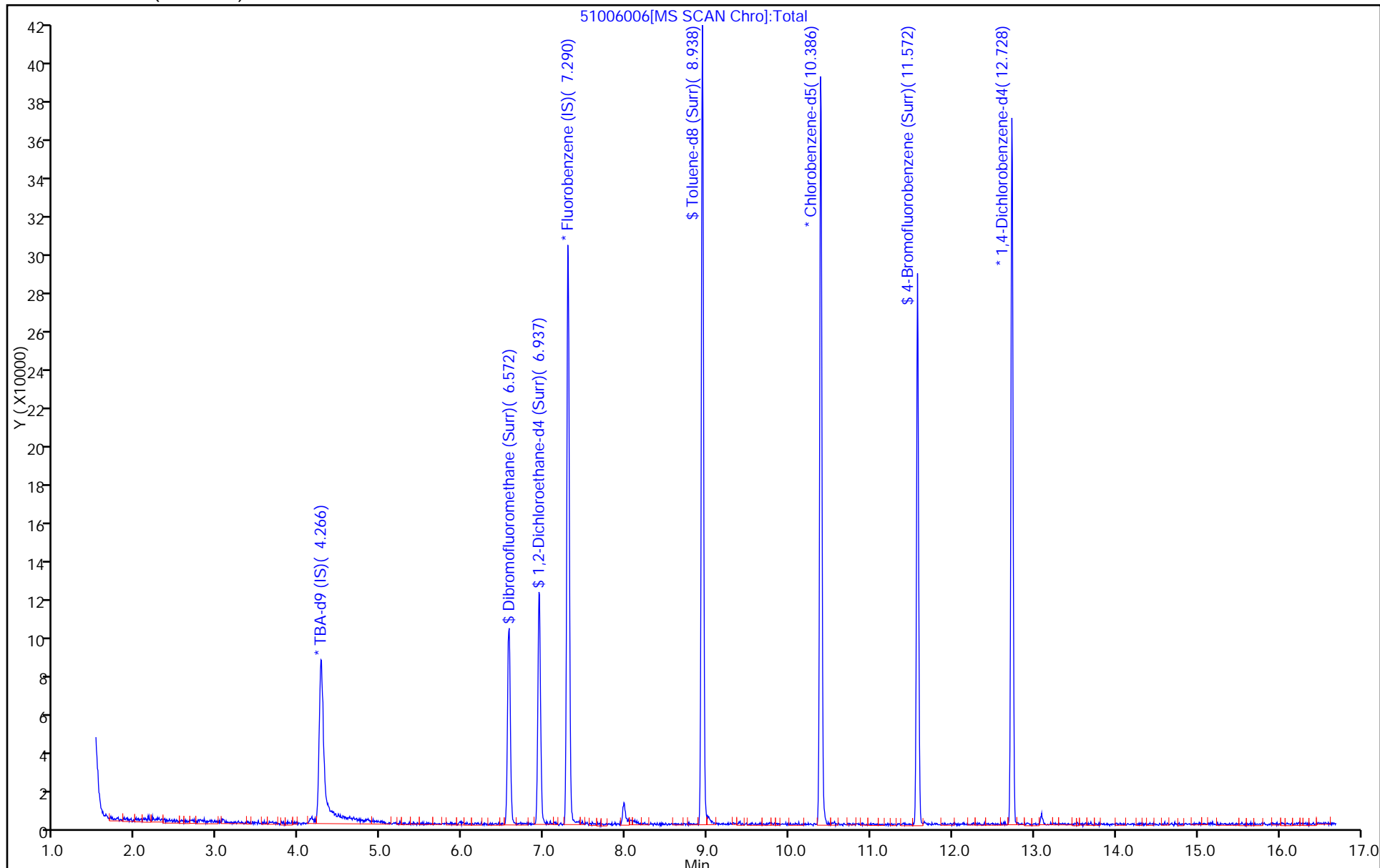
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 180-155766/8
 Matrix: Water Lab File ID: 51003008.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 10/03/2015 14:38
 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.: 155766 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	11.1		1.0	0.28
75-01-4	Vinyl chloride	10.1		1.0	0.23
74-83-9	Bromomethane	11.0		1.0	0.31
75-00-3	Chloroethane	9.10		1.0	0.21
75-35-4	1,1-Dichloroethene	9.39		1.0	0.30
67-64-1	Acetone	18.5		5.0	2.5
75-15-0	Carbon disulfide	8.56		1.0	0.21
75-09-2	Methylene Chloride	9.86		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	9.72		1.0	0.17
1634-04-4	Methyl tert-butyl ether	9.38		1.0	0.18
75-34-3	1,1-Dichloroethane	8.94		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	9.55		1.0	0.24
74-97-5	Bromochloromethane	10.4		1.0	0.18
78-93-3	2-Butanone (MEK)	21.6		5.0	0.55
67-66-3	Chloroform	9.29		1.0	0.17
71-55-6	1,1,1-Trichloroethane	9.23		1.0	0.29
56-23-5	Carbon tetrachloride	9.88		1.0	0.14
71-43-2	Benzene	9.60		1.0	0.11
107-06-2	1,2-Dichloroethane	9.16		1.0	0.21
79-01-6	Trichloroethene	10.2		1.0	0.14
78-87-5	1,2-Dichloropropane	9.55		1.0	0.095
75-27-4	Bromodichloromethane	9.03		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	8.34		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	18.4		5.0	0.53
108-88-3	Toluene	10.2		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	8.65		1.0	0.15
79-00-5	1,1,2-Trichloroethane	10.4		1.0	0.20
127-18-4	Tetrachloroethene	10.8		1.0	0.15
591-78-6	2-Hexanone	18.5		5.0	0.16
124-48-1	Dibromochloromethane	9.76		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	10.2		1.0	0.18
108-90-7	Chlorobenzene	10.2		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	10.3		1.0	0.28
100-41-4	Ethylbenzene	10.2		1.0	0.23
1330-20-7	Xylenes, Total	20.9		3.0	0.49
100-42-5	Styrene	10.9		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 180-155766/8
 Matrix: Water Lab File ID: 51003008.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 10/03/2015 14:38
 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.: 155766 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	9.91		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	10.6		1.0	0.20
107-13-1	Acrylonitrile	104		20	0.55
123-91-1	1,4-Dioxane	248		200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		64-135
2037-26-5	Toluene-d8 (Surr)	95		71-118
460-00-4	4-Bromofluorobenzene (Surr)	88		70-118
1868-53-7	Dibromofluoromethane (Surr)	92		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\51003008.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 03-Oct-2015 14:38:30 ALS Bottle#: 7 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 180-0008807-008
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 03-Oct-2015 14:49:59 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: fergusond

Date: 03-Oct-2015 14:49:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.287	4.283	0.004	0	119352	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.292	7.289	0.003	98	368008	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.389	10.385	0.004	87	88784	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.731	12.727	0.004	92	140068	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.562	6.565	-0.003	94	83196	50.0	46.0	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.934	6.936	-0.002	0	109015	50.0	43.9	
\$ 7 Toluene-d8 (Surr)	98	8.935	8.937	-0.002	94	325596	50.0	47.5	
\$ 8 4-Bromofluorobenzene (Surr	95	11.569	11.571	-0.002	91	114200	50.0	44.2	
11 Dichlorodifluoromethane	85	1.610	1.607	0.003	99	114104	50.0	54.9	
12 Chloromethane	50	1.769	1.771	-0.002	98	169517	50.0	55.5	
13 Vinyl chloride	62	1.909	1.905	0.004	98	136854	50.0	50.5	
14 Butadiene	39	1.945	1.941	0.004	98	173329	50.0	54.2	
15 Bromomethane	94	2.249	2.239	0.010	92	60523	50.0	54.9	
16 Chloroethane	64	2.401	2.391	0.010	98	74333	50.0	45.5	
17 Dichlorofluoromethane	67	2.675	2.665	0.010	98	156763	50.0	45.2	
18 Trichlorofluoromethane	101	2.706	2.702	0.004	84	133273	50.0	51.4	
20 Ethyl ether	59	3.052	3.048	0.004	98	110335	50.0	45.9	
21 Acrolein	56	3.229	3.231	-0.002	99	45162	150.0	126.2	
22 1,1-Dichloroethene	96	3.350	3.346	0.004	96	96238	50.0	47.0	
23 1,1,2-Trichloro-1,2,2-trif	101	3.417	3.407	0.010	94	102934	50.0	47.4	
24 Acetone	43	3.448	3.444	0.004	96	68598	100.0	92.4	
25 Iodomethane	142	3.539	3.553	-0.014	97	161963	50.0	53.0	
26 Carbon disulfide	76	3.636	3.638	-0.002	100	203671	50.0	42.8	
28 3-Chloro-1-propene	76	3.916	3.918	-0.002	89	50798	50.0	43.8	
30 Methyl acetate	43	3.947	3.937	0.010	99	579455	250.0	261.2	
31 Methylene Chloride	84	4.141	4.137	0.004	97	118919	50.0	49.3	
32 2-Methyl-2-propanol	59	4.409	4.405	0.004	91	65132	500.0	484.8	
33 Acrylonitrile	53	4.531	4.527	0.004	98	558795	500.0	519.0	
34 trans-1,2-Dichloroethene	96	4.561	4.563	-0.002	97	108140	50.0	48.6	
35 Methyl tert-butyl ether	73	4.579	4.581	-0.002	95	241463	50.0	46.9	
36 Hexane	57	4.987	4.989	-0.002	95	175706	50.0	47.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.200	5.202	-0.002	96	196073	50.0	44.7	
38 Vinyl acetate	43	5.248	5.251	-0.003	97	191913	50.0	58.3	
44 2,2-Dichloropropane	77	5.954	5.944	0.010	58	73586	50.0	41.9	
45 cis-1,2-Dichloroethene	96	5.954	5.950	0.004	83	113548	50.0	47.8	
46 2-Butanone (MEK)	43	5.966	5.962	0.004	98	120219	100.0	107.8	
49 Chlorobromomethane	128	6.240	6.236	0.004	92	54204	50.0	51.9	
51 Tetrahydrofuran	42	6.252	6.248	0.004	93	80214	100.0	89.6	
52 Chloroform	83	6.386	6.382	0.004	96	175969	50.0	46.5	
53 1,1,1-Trichloroethane	97	6.544	6.540	0.004	97	129326	50.0	46.2	
54 Cyclohexane	56	6.617	6.613	0.004	97	213905	50.0	45.6	
56 Carbon tetrachloride	117	6.715	6.717	-0.002	94	117833	50.0	49.4	
55 1,1-Dichloropropene	75	6.733	6.735	-0.002	90	140539	50.0	45.4	
57 Isobutyl alcohol	41	6.927	6.924	0.003	90	81807	1250.0	1167.3	
58 Benzene	78	6.946	6.942	0.004	98	435475	50.0	48.0	
59 1,2-Dichloroethane	62	7.025	7.021	0.004	95	143738	50.0	45.8	
62 n-Heptane	43	7.311	7.307	0.004	98	161666	50.0	47.6	
64 Trichloroethene	130	7.682	7.678	0.004	96	113241	50.0	51.0	
66 Methylcyclohexane	83	7.919	7.915	0.004	97	163612	50.0	46.8	
67 1,2-Dichloropropane	63	7.949	7.946	0.003	94	113675	50.0	47.7	
68 Dibromomethane	93	8.035	8.037	-0.002	93	57812	50.0	47.8	
70 1,4-Dioxane	88	8.029	8.037	-0.008	37	20348	1000.0	1239.6	
71 Dichlorobromomethane	83	8.235	8.232	0.003	97	107968	50.0	45.2	
74 cis-1,3-Dichloropropene	75	8.679	8.676	0.003	90	116895	50.0	41.7	
75 4-Methyl-2-pentanone (MIBK)	43	8.825	8.828	-0.003	99	201677	100.0	92.2	
76 Toluene	91	9.002	9.004	-0.002	98	446737	50.0	50.8	
77 trans-1,3-Dichloropropene	75	9.251	9.254	-0.003	98	99184	50.0	43.2	
78 Ethyl methacrylate	69	9.312	9.308	0.004	94	104866	50.0	47.3	
79 1,1,2-Trichloroethane	97	9.440	9.442	-0.002	92	86560	50.0	51.8	
80 Tetrachloroethene	164	9.519	9.515	0.004	97	92473	50.0	54.2	
81 1,3-Dichloropropane	76	9.598	9.600	-0.002	99	145217	50.0	46.8	
82 2-Hexanone	43	9.659	9.655	0.004	99	146306	100.0	92.6	
84 Chlorodibromomethane	129	9.817	9.819	-0.002	91	70644	50.0	48.8	
85 Ethylene Dibromide	107	9.927	9.929	-0.002	100	82477	50.0	51.2	
86 3-Chlorobenzotrifluoride	180	10.389	10.391	-0.002	84	145388	50.0	51.5	
87 Chlorobenzene	112	10.419	10.415	0.004	95	289888	50.0	51.2	
88 4-Chlorobenzotrifluoride	180	10.474	10.476	-0.002	95	139239	50.0	52.1	
89 1,1,1,2-Tetrachloroethane	131	10.511	10.513	-0.002	90	95451	50.0	51.7	
90 Ethylbenzene	106	10.517	10.519	-0.002	98	153251	50.0	51.1	
91 m-Xylene & p-Xylene	106	10.651	10.647	0.004	0	192685	50.0	52.4	
92 o-Xylene	106	11.028	11.030	-0.002	96	181624	50.0	51.9	
93 Styrene	104	11.046	11.048	-0.002	96	314756	50.0	54.3	
94 Bromoform	173	11.235	11.231	0.004	97	40947	50.0	49.6	
96 2-Chlorobenzotrifluoride	180	11.295	11.298	-0.003	97	144102	50.0	51.8	
97 Isopropylbenzene	105	11.393	11.395	-0.002	96	452318	50.0	52.8	
99 1,1,2,2-Tetrachloroethane	83	11.703	11.705	-0.002	84	119531	50.0	53.0	
100 Bromobenzene	156	11.709	11.711	-0.002	93	120998	50.0	50.3	
102 trans-1,4-Dichloro-2-buten	53	11.739	11.742	-0.003	71	18740	50.0	21.6	
101 1,2,3-Trichloropropane	110	11.764	11.766	-0.002	87	38883	50.0	49.0	
103 N-Propylbenzene	120	11.812	11.815	-0.003	99	132662	50.0	48.2	
104 2-Chlorotoluene	126	11.898	11.900	-0.002	96	119117	50.0	50.9	
105 3-Chlorotoluene	126	11.965	11.967	-0.002	95	120031	50.0	49.9	
106 1,3,5-Trimethylbenzene	105	11.995	11.997	-0.002	94	388153	50.0	49.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 4-Chlorotoluene	126	12.025	12.022	0.003	97	132752	50.0	51.6	
108 tert-Butylbenzene	119	12.311	12.307	0.004	95	308880	50.0	48.9	
110 1,2,4-Trimethylbenzene	105	12.366	12.368	-0.002	98	390208	50.0	50.1	
111 1,2-dichloro-4-(trifluorom	214	12.409	12.411	-0.002	97	100377	50.0	46.2	
112 sec-Butylbenzene	105	12.530	12.533	-0.003	95	443881	50.0	49.7	
113 1,3-Dichlorobenzene	146	12.652	12.648	0.004	98	231325	50.0	54.0	
114 4-Isopropyltoluene	119	12.688	12.691	-0.003	97	385875	50.0	51.1	
115 1,4-Dichlorobenzene	146	12.755	12.752	0.003	96	240077	50.0	53.9	
116 2,4-Dichloro-1-(trifluorom	214	12.780	12.782	-0.002	94	91715	50.0	45.6	
118 2,5-Dichlorobenzotrifluori	214	12.822	12.818	0.004	0	109830	50.0	50.5	
120 n-Butylbenzene	91	13.096	13.098	-0.002	98	299071	50.0	46.3	
121 1,2-Dichlorobenzene	146	13.108	13.110	-0.002	98	219949	50.0	55.0	
122 1,2-Dibromo-3-Chloropropan	75	13.905	13.907	-0.002	78	15839	50.0	48.2	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.045	14.047	-0.002	0	353022	150.0	154.5	
125 2,3- & 3,4- Dichlorotoluen	125	14.459	14.461	-0.002	0	227216	100.0	104.3	
126 1,2,4-Trichlorobenzene	180	14.726	14.729	-0.003	94	84960	50.0	54.6	
127 Hexachlorobutadiene	225	14.872	14.869	0.003	97	40422	50.0	53.9	
128 Naphthalene	128	14.988	14.990	-0.002	97	229235	50.0	57.3	
129 1,2,3-Trichlorobenzene	180	15.213	15.215	-0.002	96	69109	50.0	54.8	
131 2,4,5-Trichlorotoluene	159	15.992	15.994	-0.002	0	20579	50.0	45.3	
130 2,3,6-Trichlorotoluene	159	16.089	16.091	-0.002	96	21765	50.0	51.9	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
S 134 1,2-Dichloroethene, Total	96				0		100.0	96.3	
S 133 Xylenes, Total	106				0		100.0	104.3	
S 135 1,3-Dichloropropene, Total	1				0		100.0	85.0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

voaWVA2nd Res_00010	Amount Added: 2.00	Units: uL	
VOA8260VOA2ND_00146	Amount Added: 2.00	Units: uL	
voaWKetmix2nd_00002	Amount Added: 2.00	Units: uL	
voaWEEpri Res_00006	Amount Added: 2.00	Units: uL	
voaWAcro1stRe_00001	Amount Added: 6.00	Units: uL	
VOA8260INT_00042	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\51003008.D

Injection Date: 03-Oct-2015 14:38:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: LCS

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

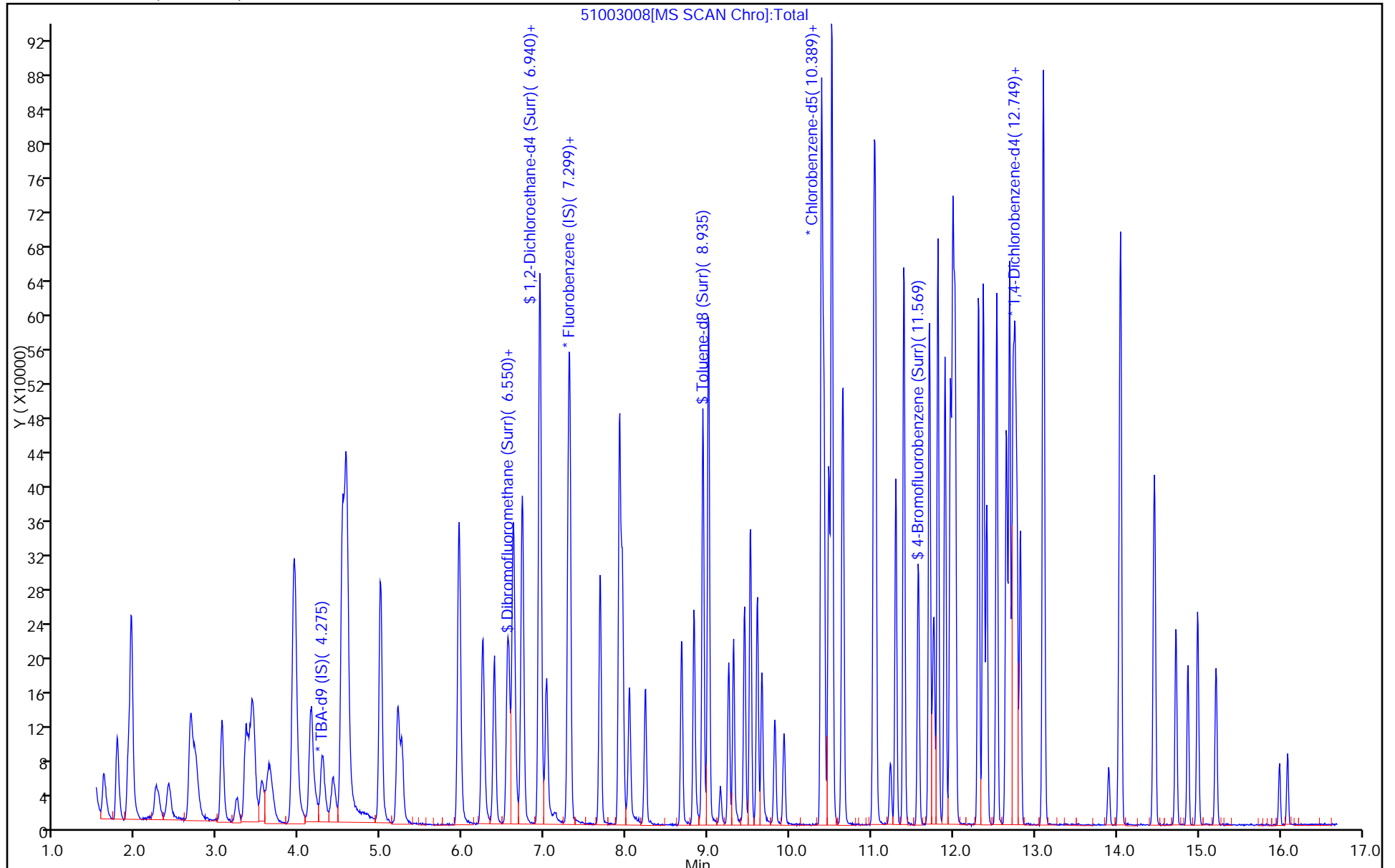
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 180-155869/7
 Matrix: Water Lab File ID: 61005007.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 10/05/2015 12:29
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 155869 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	12.9		1.0	0.28
75-01-4	Vinyl chloride	10.9		1.0	0.23
74-83-9	Bromomethane	8.96		1.0	0.31
75-00-3	Chloroethane	10.8		1.0	0.21
75-35-4	1,1-Dichloroethene	9.60		1.0	0.30
67-64-1	Acetone	23.0		5.0	2.5
75-15-0	Carbon disulfide	9.74		1.0	0.21
75-09-2	Methylene Chloride	9.67		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	9.82		1.0	0.17
1634-04-4	Methyl tert-butyl ether	9.56		1.0	0.18
75-34-3	1,1-Dichloroethane	10.7		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	9.33		1.0	0.24
74-97-5	Bromochloromethane	11.1		1.0	0.18
78-93-3	2-Butanone (MEK)	22.5		5.0	0.55
67-66-3	Chloroform	9.92		1.0	0.17
71-55-6	1,1,1-Trichloroethane	9.71		1.0	0.29
56-23-5	Carbon tetrachloride	11.2		1.0	0.14
71-43-2	Benzene	10.9		1.0	0.11
107-06-2	1,2-Dichloroethane	10.6		1.0	0.21
79-01-6	Trichloroethene	11.7		1.0	0.14
78-87-5	1,2-Dichloropropane	11.3		1.0	0.095
75-27-4	Bromodichloromethane	9.91		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	10.6		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	23.0		5.0	0.53
108-88-3	Toluene	10.7		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	10.3		1.0	0.15
79-00-5	1,1,2-Trichloroethane	10.8		1.0	0.20
127-18-4	Tetrachloroethene	11.8		1.0	0.15
591-78-6	2-Hexanone	25.9		5.0	0.16
124-48-1	Dibromochloromethane	11.6		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	10.8		1.0	0.18
108-90-7	Chlorobenzene	10.9		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	11.7		1.0	0.28
100-41-4	Ethylbenzene	10.7		1.0	0.23
1330-20-7	Xylenes, Total	21.3		3.0	0.49
100-42-5	Styrene	11.4		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 180-155869/7
 Matrix: Water Lab File ID: 61005007.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 10/05/2015 12:29
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 155869 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	12.6		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	10.5		1.0	0.20
107-13-1	Acrylonitrile	128		20	0.55
123-91-1	1,4-Dioxane	207		200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		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)	106		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005007.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 05-Oct-2015 12:29:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 180-0008826-007
 Operator ID: 001562 Instrument ID: CHHP6
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\MSVOA_LL_CHHP6.m
 Limit Group: VOA 8260C ICAL
 Last Update: 06-Oct-2015 09:37:33 Calib Date: 14-Sep-2015 16:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: fergusond

Date: 05-Oct-2015 12:59:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.242	4.230	0.012	86	175396	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.284	7.290	-0.006	98	416212	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.399	10.399	0.000	90	93412	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.747	12.747	0.000	95	168494	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.554	6.550	0.004	93	101236	50.0	52.8	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.928	0.003	70	162602	50.0	52.6	
\$ 7 Toluene-d8 (Surr)	98	8.939	8.941	-0.002	94	410320	50.0	55.7	
\$ 8 4-Bromofluorobenzene (Surr	95	11.585	11.587	-0.002	86	165225	50.0	50.5	
11 Dichlorodifluoromethane	85	1.602	1.604	-0.002	99	139921	50.0	48.5	
12 Chloromethane	50	1.760	1.769	-0.009	100	160104	50.0	64.5	
13 Vinyl chloride	62	1.894	1.903	-0.009	98	145276	50.0	54.3	
14 Butadiene	39	1.937	1.939	-0.003	92	145920	50.0	58.2	
15 Bromomethane	94	2.235	2.243	-0.008	90	64727	50.0	44.8	
16 Chloroethane	64	2.381	2.377	0.004	100	98564	50.0	54.0	
17 Dichlorofluoromethane	67	2.654	2.651	0.003	99	216238	50.0	50.9	
18 Trichlorofluoromethane	101	2.679	2.681	-0.002	98	178188	50.0	52.6	
20 Ethyl ether	59	3.038	3.046	-0.008	96	136367	50.0	56.8	
21 Acrolein	56	3.220	3.211	0.009	99	36244	150.0	138.3	
22 1,1-Dichloroethene	96	3.342	3.326	0.016	96	100523	50.0	48.0	
23 1,1,2-Trichloro-1,2,2-trif	101	3.421	3.405	0.016	94	115343	50.0	52.1	
24 Acetone	43	3.427	3.430	-0.003	81	84789	100.0	115.1	
25 Iodomethane	142	3.543	3.533	0.010	99	151743	50.0	54.0	
26 Carbon disulfide	76	3.634	3.630	0.004	100	264440	50.0	48.7	
29 3-Chloro-1-propene	76	3.920	3.910	0.010	87	55552	50.0	47.0	
30 Methyl acetate	43	3.926	3.922	0.004	99	571348	250.0	330.9	
31 Methylene Chloride	84	4.127	4.117	0.010	97	140801	50.0	48.3	
32 2-Methyl-2-propanol	59	4.376	4.366	0.010	90	104463	500.0	529.3	
33 Acrylonitrile	53	4.498	4.500	-0.002	100	555489	500.0	638.2	
34 trans-1,2-Dichloroethene	96	4.565	4.555	0.010	91	118755	50.0	49.1	
35 Methyl tert-butyl ether	73	4.571	4.573	-0.002	97	346142	50.0	47.8	
36 Hexane	57	4.984	4.987	-0.003	94	184999	50.0	56.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.197	5.194	0.003	98	231931	50.0	53.6	
38 Vinyl acetate	43	5.240	5.236	0.004	98	180373	50.0	51.6	
42 2,2-Dichloropropane	77	5.939	5.936	0.003	59	99957	50.0	45.7	
43 cis-1,2-Dichloroethene	96	5.939	5.942	-0.003	87	122675	50.0	46.7	
44 2-Butanone (MEK)	43	5.946	5.948	-0.002	65	113283	100.0	112.7	
48 Chlorobromomethane	128	6.231	6.228	0.003	94	58695	50.0	55.6	
49 Tetrahydrofuran	42	6.238	6.246	-0.008	86	79619	100.0	117.6	
50 Chloroform	83	6.371	6.368	0.003	94	213042	50.0	49.6	
51 1,1,1-Trichloroethane	97	6.536	6.532	0.004	96	154155	50.0	48.6	
52 Cyclohexane	56	6.615	6.617	-0.002	94	225777	50.0	55.5	
53 Carbon tetrachloride	117	6.712	6.715	-0.003	95	125278	50.0	55.9	
54 1,1-Dichloropropene	75	6.724	6.727	-0.003	93	172892	50.0	50.6	
55 Isobutyl alcohol	41	6.901	6.897	0.004	88	98138	1250.0	1629.8	
56 Benzene	78	6.943	6.940	0.003	97	530067	50.0	54.6	
57 1,2-Dichloroethane	62	7.016	7.013	0.003	98	207189	50.0	53.0	
59 n-Heptane	43	7.308	7.305	0.003	93	174338	50.0	66.1	
61 Trichloroethene	130	7.679	7.676	0.003	96	118137	50.0	58.4	
63 Methylcyclohexane	83	7.923	7.925	-0.002	94	198329	50.0	48.3	
64 1,2-Dichloropropane	63	7.953	7.950	0.003	94	131087	50.0	56.6	
65 1,4-Dioxane	88	8.032	8.023	0.009	37	23647	1000.0	1033.8	
67 Dibromomethane	93	8.038	8.035	0.003	96	75809	50.0	53.9	
68 Dichlorobromomethane	83	8.227	8.229	-0.002	98	130970	50.0	49.5	
71 cis-1,3-Dichloropropene	75	8.677	8.680	-0.003	91	153612	50.0	52.9	
72 4-Methyl-2-pentanone (MIBK)	43	8.823	8.826	-0.003	98	221267	100.0	115.2	
73 Toluene	91	9.012	9.008	0.004	98	516509	50.0	53.6	
74 trans-1,3-Dichloropropene	75	9.249	9.257	-0.008	97	126239	50.0	51.6	
75 Ethyl methacrylate	69	9.316	9.312	0.004	92	138062	50.0	53.1	
76 1,1,2-Trichloroethane	97	9.450	9.452	-0.002	95	107341	50.0	53.8	
77 Tetrachloroethene	164	9.529	9.525	0.004	96	97284	50.0	59.2	
78 1,3-Dichloropropane	76	9.608	9.610	-0.002	95	199915	50.0	54.3	
79 2-Hexanone	43	9.656	9.659	-0.003	98	163550	100.0	129.7	
81 Chlorodibromomethane	129	9.821	9.823	-0.002	91	79136	50.0	58.2	
82 Ethylene Dibromide	107	9.936	9.939	-0.003	100	94815	50.0	53.8	
83 3-Chlorobenzotrifluoride	180	10.393	10.395	-0.002	92	173676	50.0	56.3	
84 Chlorobenzene	112	10.423	10.426	-0.003	91	321711	50.0	54.3	
85 4-Chlorobenzotrifluoride	180	10.484	10.486	-0.002	95	171651	50.0	60.0	
86 1,1,1,2-Tetrachloroethane	131	10.520	10.523	-0.003	88	94684	50.0	58.3	
87 Ethylbenzene	106	10.526	10.529	-0.003	99	179231	50.0	53.6	
88 m-Xylene & p-Xylene	106	10.660	10.657	0.003	100	225064	50.0	54.3	
89 o-Xylene	106	11.037	11.040	-0.003	98	215370	50.0	51.9	
90 Styrene	104	11.062	11.058	0.004	95	363812	50.0	57.1	
91 Bromoform	173	11.244	11.247	-0.003	95	45680	50.0	62.9	
92 2-Chlorobenzotrifluoride	180	11.305	11.302	0.003	97	182053	50.0	57.6	
93 Isopropylbenzene	105	11.408	11.411	-0.003	97	532139	50.0	53.6	
96 1,1,2,2-Tetrachloroethane	83	11.713	11.715	-0.002	96	140611	50.0	52.7	
95 Bromobenzene	156	11.725	11.727	-0.002	97	136104	50.0	50.2	
97 trans-1,4-Dichloro-2-buten	53	11.749	11.758	-0.009	78	41580	50.0	48.4	
98 1,2,3-Trichloropropane	110	11.773	11.776	-0.003	86	48349	50.0	46.9	
99 N-Propylbenzene	120	11.828	11.825	0.003	99	144330	50.0	46.3	
100 2-Chlorotoluene	126	11.913	11.916	-0.003	94	127931	50.0	49.4	
101 3-Chlorotoluene	126	11.980	11.977	0.003	97	139011	50.0	51.1	
102 1,3,5-Trimethylbenzene	105	12.011	12.007	0.004	95	480518	50.0	47.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
103 4-Chlorotoluene	126	12.035	12.038	-0.003	99	138228	50.0	50.5	
104 tert-Butylbenzene	119	12.327	12.324	0.003	93	359954	50.0	44.9	
106 1,2,4-Trimethylbenzene	105	12.382	12.384	-0.002	98	491863	50.0	47.4	
107 1,2-dichloro-4-(trifluorom	214	12.424	12.421	0.003	98	158620	50.0	54.0	
108 sec-Butylbenzene	105	12.546	12.549	-0.003	96	563201	50.0	47.1	
109 1,3-Dichlorobenzene	146	12.668	12.670	-0.002	95	261446	50.0	49.4	
110 4-Isopropyltoluene	119	12.704	12.707	-0.003	96	467581	50.0	46.6	
111 1,4-Dichlorobenzene	146	12.771	12.774	-0.003	91	272649	50.0	50.4	
113 2,4-Dichloro-1-(trifluorom	214	12.795	12.786	0.009	96	158853	50.0	54.3	
114 2,5-Dichlorobenzotrifluori	214	12.832	12.828	0.004	97	162158	50.0	49.7	
116 n-Butylbenzene	91	13.112	13.114	-0.002	98	442189	50.0	44.1	
117 1,2-Dichlorobenzene	146	13.124	13.127	-0.003	93	258170	50.0	48.3	
118 1,2-Dibromo-3-Chloropropan	75	13.915	13.911	0.004	74	21407	50.0	43.7	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.061	14.057	0.004	99	663586	150.0	142.7	
121 2,3- & 3,4- Dichlorotoluen	125	14.475	14.477	-0.002	99	481629	100.0	93.9	
122 1,2,4-Trichlorobenzene	180	14.742	14.745	-0.003	94	189220	50.0	45.7	
123 Hexachlorobutadiene	225	14.888	14.891	-0.003	96	79379	50.0	48.7	
124 Naphthalene	128	15.010	15.006	0.004	98	399830	50.0	47.9	
125 1,2,3-Trichlorobenzene	180	15.229	15.225	0.004	95	178343	50.0	46.0	
126 2,4,5-Trichlorotoluene	159	16.008	16.010	-0.002	0	106923	50.0	41.1	
127 2,3,6-Trichlorotoluene	159	16.111	16.107	0.004	95	106580	50.0	43.2	
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	95.8	
S 131 Xylenes, Total	106				0		100.0	106.2	
S 132 1,3-Dichloropropene, Total	1				0		100.0	104.5	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOA8260VOA2ND_00146	Amount Added: 2.00	Units: uL	
voaWKetmix2nd_00002	Amount Added: 2.00	Units: uL	
voaWVA2nd Res_00010	Amount Added: 2.00	Units: uL	
voaWEEpri Res_00006	Amount Added: 2.00	Units: uL	
voaWAcro1stRe_00001	Amount Added: 6.00	Units: uL	
VOA8260INT_00042	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151005-8826.b\61005007.D

Injection Date: 05-Oct-2015 12:29:30

Instrument ID: CHHP6

Operator ID: 001562

Lims ID: LCS

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

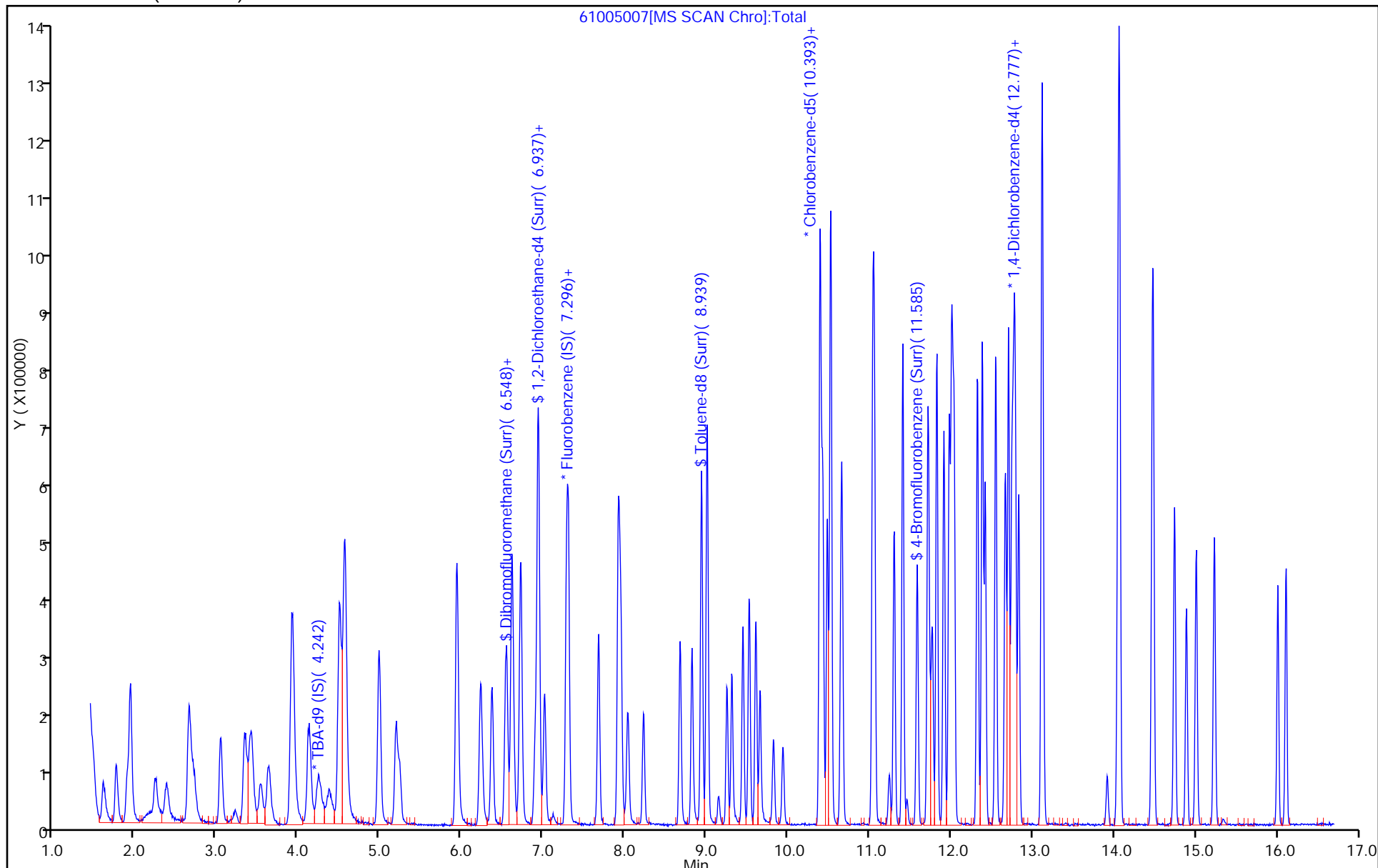
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: MSVOA_LL_CHHP6

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 180-155884/7
 Matrix: Water Lab File ID: 51005007.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 10/05/2015 13:34
 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.: 155884 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	10.3		1.0	0.28
75-01-4	Vinyl chloride	9.58		1.0	0.23
74-83-9	Bromomethane	9.95		1.0	0.31
75-00-3	Chloroethane	8.88		1.0	0.21
75-35-4	1,1-Dichloroethene	8.87		1.0	0.30
67-64-1	Acetone	17.7		5.0	2.5
75-15-0	Carbon disulfide	8.59		1.0	0.21
75-09-2	Methylene Chloride	8.64		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	8.88		1.0	0.17
1634-04-4	Methyl tert-butyl ether	8.16		1.0	0.18
75-34-3	1,1-Dichloroethane	8.25		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	8.60		1.0	0.24
74-97-5	Bromochloromethane	9.33		1.0	0.18
78-93-3	2-Butanone (MEK)	17.9		5.0	0.55
67-66-3	Chloroform	8.43		1.0	0.17
71-55-6	1,1,1-Trichloroethane	8.58		1.0	0.29
56-23-5	Carbon tetrachloride	9.51		1.0	0.14
71-43-2	Benzene	8.97		1.0	0.11
107-06-2	1,2-Dichloroethane	8.12		1.0	0.21
79-01-6	Trichloroethene	9.53		1.0	0.14
78-87-5	1,2-Dichloropropane	8.90		1.0	0.095
75-27-4	Bromodichloromethane	8.82		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	8.07		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	16.0		5.0	0.53
108-88-3	Toluene	9.74		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	8.30		1.0	0.15
79-00-5	1,1,2-Trichloroethane	9.41		1.0	0.20
127-18-4	Tetrachloroethene	10.3		1.0	0.15
591-78-6	2-Hexanone	15.4		5.0	0.16
124-48-1	Dibromochloromethane	9.52		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	9.34		1.0	0.18
108-90-7	Chlorobenzene	9.61		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	9.60		1.0	0.28
100-41-4	Ethylbenzene	9.77		1.0	0.23
1330-20-7	Xylenes, Total	19.6		3.0	0.49
100-42-5	Styrene	10.1		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 180-155884/7
 Matrix: Water Lab File ID: 51005007.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 10/05/2015 13:34
 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.: 155884 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	9.47		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	9.54		1.0	0.20
107-13-1	Acrylonitrile	90.6		20	0.55
123-91-1	1,4-Dioxane	213		200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	82		64-135
2037-26-5	Toluene-d8 (Surr)	99		71-118
460-00-4	4-Bromofluorobenzene (Surr)	90		70-118
1868-53-7	Dibromofluoromethane (Surr)	91		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005007.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 05-Oct-2015 13:34:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 180-0008828-007
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 05-Oct-2015 13:53:57 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: fergusond

Date: 05-Oct-2015 13:53:57

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	4.281	0.003	0	119053	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.292	-0.003	98	418221	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.386	10.388	-0.002	87	101020	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.734	12.730	0.004	93	143991	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.571	6.568	0.003	93	93297	50.0	45.4	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.942	6.933	0.009	0	116342	50.0	41.2	
\$ 7 Toluene-d8 (Surr)	98	8.938	8.940	-0.002	94	385978	50.0	49.5	
\$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.575	-0.003	89	132537	50.0	45.1	
11 Dichlorodifluoromethane	85	1.613	1.604	0.009	99	117806	50.0	49.9	
12 Chloromethane	50	1.771	1.774	-0.003	99	178255	50.0	51.4	
13 Vinyl chloride	62	1.911	1.908	0.003	98	147354	50.0	47.9	
14 Butadiene	39	1.948	1.951	-0.003	97	183016	50.0	50.4	
15 Bromomethane	94	2.246	2.249	-0.003	91	62303	50.0	49.8	
16 Chloroethane	64	2.404	2.413	-0.009	98	82442	50.0	44.4	
17 Dichlorofluoromethane	67	2.672	2.675	-0.003	98	162741	50.0	41.3	
18 Trichlorofluoromethane	101	2.714	2.699	0.015	98	141647	50.0	48.1	
20 Ethyl ether	59	3.061	3.046	0.015	97	108409	50.0	39.7	
21 Acrolein	56	3.237	3.222	0.015	99	46661	150.0	114.7	
22 1,1-Dichloroethene	96	3.353	3.344	0.009	94	103320	50.0	44.4	
23 1,1,2-Trichloro-1,2,2-trif	101	3.432	3.423	0.009	93	113333	50.0	45.9	
24 Acetone	43	3.450	3.441	0.009	97	74588	100.0	88.4	
25 Iodomethane	142	3.542	3.538	0.004	98	171176	50.0	49.3	
26 Carbon disulfide	76	3.663	3.636	0.027	100	232323	50.0	43.0	
28 3-Chloro-1-propene	76	3.931	3.922	0.009	89	55328	50.0	41.9	
30 Methyl acetate	43	3.949	3.940	0.009	100	576915	250.0	228.8	
31 Methylene Chloride	84	4.144	4.141	0.003	97	120329	50.0	43.2	
32 2-Methyl-2-propanol	59	4.418	4.402	0.016	87	74478	500.0	555.8	
33 Acrylonitrile	53	4.527	4.524	0.003	98	554463	500.0	453.2	
34 trans-1,2-Dichloroethene	96	4.576	4.566	0.010	96	112265	50.0	44.4	
35 Methyl tert-butyl ether	73	4.588	4.579	0.009	95	238697	50.0	40.8	
36 Hexane	57	4.996	4.992	0.004	95	191832	50.0	45.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.209	5.199	0.009	96	205598	50.0	41.3	
38 Vinyl acetate	43	5.257	5.254	0.003	97	193785	50.0	51.8	
44 2,2-Dichloropropane	77	5.951	5.947	0.004	56	77308	50.0	38.7	
45 cis-1,2-Dichloroethene	96	5.957	5.954	0.003	83	116187	50.0	43.0	
46 2-Butanone (MEK)	43	5.963	5.966	-0.003	71	113349	100.0	89.4	
49 Chlorobromomethane	128	6.243	6.233	0.010	93	55371	50.0	46.7	
51 Tetrahydrofuran	42	6.261	6.252	0.009	93	81577	100.0	80.2	
52 Chloroform	83	6.383	6.379	0.004	95	181422	50.0	42.1	
53 1,1,1-Trichloroethane	97	6.547	6.550	-0.003	96	136578	50.0	42.9	
54 Cyclohexane	56	6.620	6.617	0.003	96	229493	50.0	43.1	
56 Carbon tetrachloride	117	6.717	6.720	-0.003	92	128822	50.0	47.5	
55 1,1-Dichloropropene	75	6.735	6.732	0.003	90	148621	50.0	42.2	
57 Isobutyl alcohol	41	6.930	6.927	0.003	91	94662	1250.0	1188.6	
58 Benzene	78	6.948	6.945	0.003	97	462743	50.0	44.9	
59 1,2-Dichloroethane	62	7.021	7.024	-0.003	96	144874	50.0	40.6	
62 n-Heptane	43	7.313	7.310	0.003	96	179603	50.0	46.6	
64 Trichloroethene	130	7.678	7.675	0.003	96	120243	50.0	47.7	
66 Methylcyclohexane	83	7.922	7.912	0.010	95	178786	50.0	45.0	
67 1,2-Dichloropropane	63	7.952	7.949	0.003	96	120428	50.0	44.5	
68 Dibromomethane	93	8.037	8.034	0.003	93	59734	50.0	43.5	
70 1,4-Dioxane	88	8.037	8.034	0.003	39	19894	1000.0	1066.4	M
71 Dichlorobromomethane	83	8.232	8.235	-0.003	97	119896	50.0	44.1	
74 cis-1,3-Dichloropropene	75	8.676	8.679	-0.003	91	128453	50.0	40.3	
75 4-Methyl-2-pentanone (MIBK)	43	8.828	8.825	0.003	99	199308	100.0	80.1	
76 Toluene	91	9.005	9.007	-0.002	98	487190	50.0	48.7	
77 trans-1,3-Dichloropropene	75	9.254	9.257	-0.003	98	108264	50.0	41.5	
78 Ethyl methacrylate	69	9.315	9.312	0.003	95	106357	50.0	42.1	
79 1,1,2-Trichloroethane	97	9.449	9.445	0.004	93	89519	50.0	47.1	
80 Tetrachloroethene	164	9.516	9.518	-0.002	97	100343	50.0	51.7	
81 1,3-Dichloropropane	76	9.607	9.604	0.003	99	153736	50.0	43.5	
82 2-Hexanone	43	9.662	9.658	0.004	99	137920	100.0	76.8	
84 Chlorodibromomethane	129	9.820	9.823	-0.003	90	78383	50.0	47.6	
85 Ethylene Dibromide	107	9.929	9.932	-0.003	98	85584	50.0	46.7	
86 3-Chlorobenzotrifluoride	180	10.392	10.394	-0.002	85	167479	50.0	52.1	
87 Chlorobenzene	112	10.416	10.419	-0.003	96	309483	50.0	48.1	
88 4-Chlorobenzotrifluoride	180	10.477	10.480	-0.003	95	161773	50.0	53.2	
89 1,1,1,2-Tetrachloroethane	131	10.513	10.510	0.003	93	100713	50.0	48.0	
90 Ethylbenzene	106	10.519	10.522	-0.003	99	166777	50.0	48.9	
91 m-Xylene & p-Xylene	106	10.647	10.650	-0.003	0	208771	50.0	49.9	
92 o-Xylene	106	11.030	11.033	-0.003	96	191252	50.0	48.1	
93 Styrene	104	11.049	11.051	-0.002	96	334388	50.0	50.7	
94 Bromoform	173	11.231	11.228	0.003	97	44497	50.0	47.3	
96 2-Chlorobenzotrifluoride	180	11.298	11.301	-0.003	97	165615	50.0	52.4	
97 Isopropylbenzene	105	11.395	11.398	-0.003	96	486767	50.0	50.0	
99 1,1,2,2-Tetrachloroethane	83	11.706	11.708	-0.002	79	122418	50.0	47.7	
100 Bromobenzene	156	11.712	11.708	0.004	93	125955	50.0	51.0	
102 trans-1,4-Dichloro-2-buten	53	11.742	11.745	-0.003	80	22629	50.0	25.3	
101 1,2,3-Trichloropropane	110	11.766	11.769	-0.003	88	41996	50.0	51.5	
103 N-Propylbenzene	120	11.815	11.812	0.003	99	143838	50.0	50.8	
104 2-Chlorotoluene	126	11.900	11.903	-0.003	97	123608	50.0	51.4	
105 3-Chlorotoluene	126	11.967	11.970	-0.003	95	130477	50.0	52.8	
106 1,3,5-Trimethylbenzene	105	11.998	11.994	0.004	97	413977	50.0	51.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 4-Chlorotoluene	126	12.022	12.025	-0.003	98	141145	50.0	53.3	
108 tert-Butylbenzene	119	12.308	12.311	-0.003	94	317382	50.0	48.8	
110 1,2,4-Trimethylbenzene	105	12.369	12.372	-0.003	97	390207	50.0	48.7	
111 1,2-dichloro-4-(trifluorom	214	12.411	12.408	0.003	98	112557	50.0	50.4	
112 sec-Butylbenzene	105	12.533	12.536	-0.003	94	456247	50.0	49.7	
113 1,3-Dichlorobenzene	146	12.649	12.651	-0.002	99	226394	50.0	51.4	
114 4-Isopropyltoluene	119	12.685	12.688	-0.003	97	392773	50.0	50.6	
115 1,4-Dichlorobenzene	146	12.752	12.755	-0.003	96	229721	50.0	50.2	
116 2,4-Dichloro-1-(trifluorom	214	12.776	12.779	-0.003	97	105558	50.0	51.0	
118 2,5-Dichlorobenzotrifluori	214	12.819	12.822	-0.003	0	113448	50.0	50.7	
120 n-Butylbenzene	91	13.099	13.102	-0.003	98	308800	50.0	46.5	
121 1,2-Dichlorobenzene	146	13.111	13.108	0.003	98	214505	50.0	52.2	
122 1,2-Dibromo-3-Chloropropan	75	13.908	13.905	0.003	81	15767	50.0	46.7	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.048	14.045	0.003	0	374541	150.0	159.4	
125 2,3- & 3,4- Dichlorotoluen	125	14.461	14.464	-0.003	0	242034	100.0	108.1	
126 1,2,4-Trichlorobenzene	180	14.729	14.726	0.003	95	83582	50.0	52.2	
127 Hexachlorobutadiene	225	14.869	14.872	-0.003	96	41753	50.0	54.2	
128 Naphthalene	128	14.991	14.994	-0.003	97	218454	50.0	53.1	
129 1,2,3-Trichlorobenzene	180	15.216	15.219	-0.003	96	67269	50.0	51.9	
131 2,4,5-Trichlorotoluene	159	15.988	15.991	-0.003	0	23181	50.0	49.6	
130 2,3,6-Trichlorotoluene	159	16.092	16.095	-0.003	96	23574	50.0	54.7	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		100.0	98.0	
S 134 1,2-Dichloroethene, Total	96				0		100.0	87.4	
S 135 1,3-Dichloropropene, Total	1				0		100.0	81.8	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260VOA2ND_00146	Amount Added: 2.00	Units: uL	
voaWKetmix2nd_00002	Amount Added: 2.00	Units: uL	
voaWVA2nd Res_00010	Amount Added: 2.00	Units: uL	
voaWEEpri Res_00006	Amount Added: 2.00	Units: uL	
voaWAcro1stRe_00001	Amount Added: 6.00	Units: uL	
VOA8260INT_00042	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005007.D

Injection Date: 05-Oct-2015 13:34:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: LCS

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

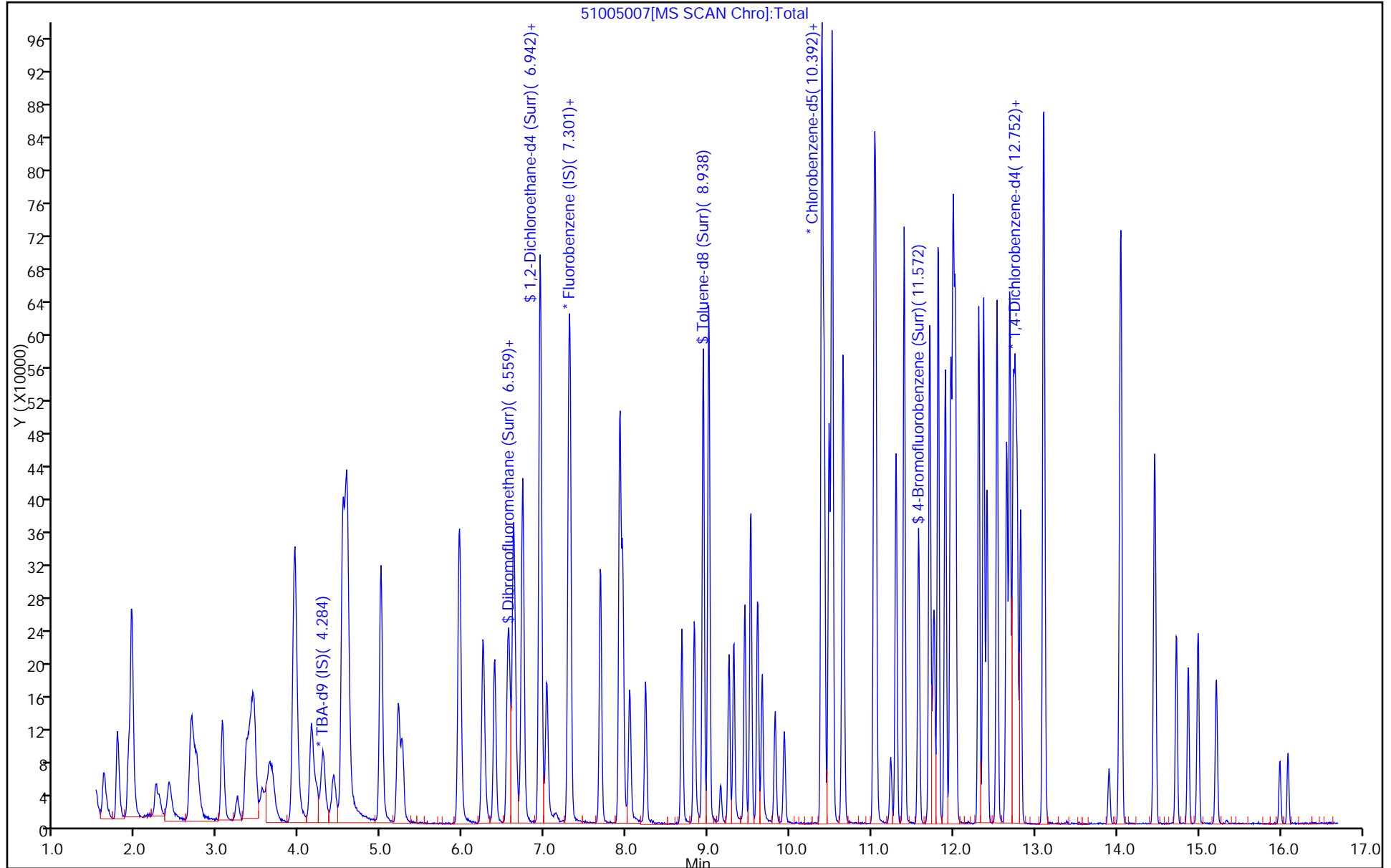
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



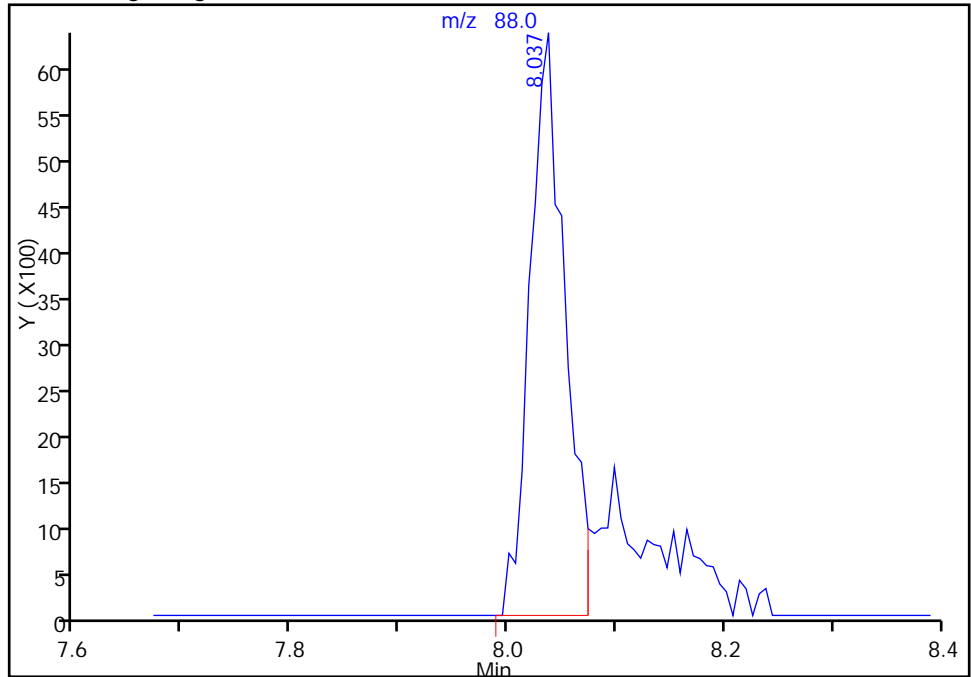
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151005-8828.b\51005007.D
Injection Date: 05-Oct-2015 13:34:30 Instrument ID: CHHP5
Lims ID: LCS
Client ID:
Operator ID: 001562 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector: MS SCAN

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

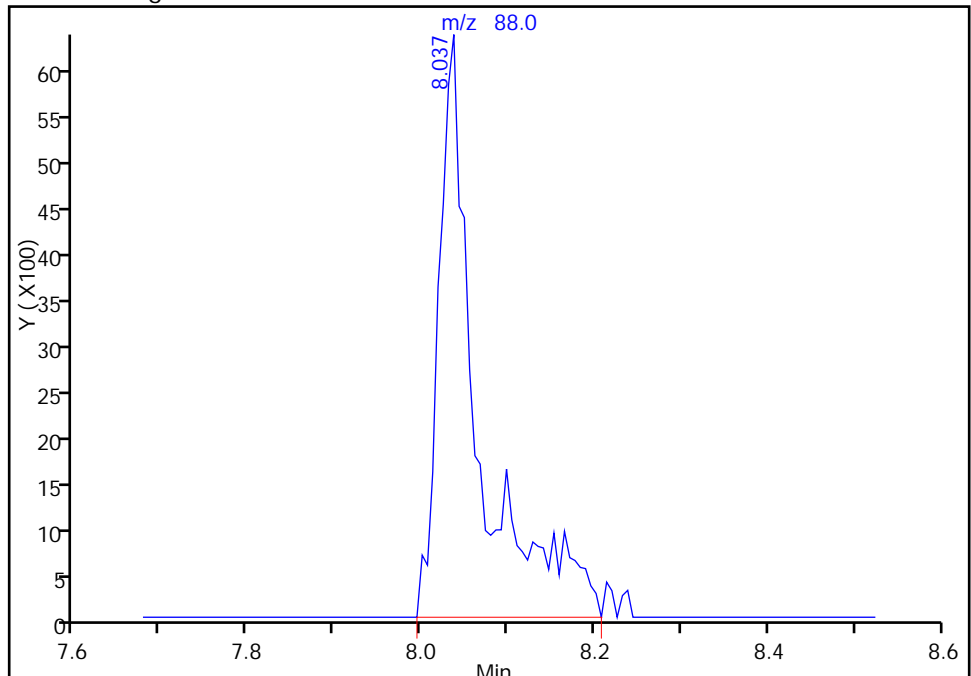
RT: 8.04
Area: 14179
Amount: 760.0490
Amount Units: ng

Processing Integration Results



RT: 8.04
Area: 19894
Amount: 1066.3950
Amount Units: ng

Manual Integration Results



Reviewer: fergusond, 05-Oct-2015 13:53:57
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 180-156037/11
 Matrix: Water Lab File ID: 51006011.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 10/06/2015 16:08
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 156037 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	9.24		1.0	0.28
75-01-4	Vinyl chloride	8.06		1.0	0.23
74-83-9	Bromomethane	8.51		1.0	0.31
75-00-3	Chloroethane	6.73		1.0	0.21
75-35-4	1,1-Dichloroethene	9.30		1.0	0.30
67-64-1	Acetone	18.6		5.0	2.5
75-15-0	Carbon disulfide	9.90		1.0	0.21
75-09-2	Methylene Chloride	9.89		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	9.43		1.0	0.17
1634-04-4	Methyl tert-butyl ether	9.32		1.0	0.18
75-34-3	1,1-Dichloroethane	8.69		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	9.50		1.0	0.24
74-97-5	Bromochloromethane	10.5		1.0	0.18
78-93-3	2-Butanone (MEK)	20.7		5.0	0.55
67-66-3	Chloroform	8.86		1.0	0.17
71-55-6	1,1,1-Trichloroethane	8.97		1.0	0.29
56-23-5	Carbon tetrachloride	9.48		1.0	0.14
71-43-2	Benzene	9.28		1.0	0.11
107-06-2	1,2-Dichloroethane	8.53		1.0	0.21
79-01-6	Trichloroethene	10.1		1.0	0.14
78-87-5	1,2-Dichloropropane	9.17		1.0	0.095
75-27-4	Bromodichloromethane	9.23		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	8.67		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	20.7		5.0	0.53
108-88-3	Toluene	10.3		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	9.13		1.0	0.15
79-00-5	1,1,2-Trichloroethane	10.4		1.0	0.20
127-18-4	Tetrachloroethene	10.8		1.0	0.15
591-78-6	2-Hexanone	21.2		5.0	0.16
124-48-1	Dibromochloromethane	10.9		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	10.6		1.0	0.18
108-90-7	Chlorobenzene	10.6		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	10.6		1.0	0.28
100-41-4	Ethylbenzene	10.7		1.0	0.23
1330-20-7	Xylenes, Total	21.6		3.0	0.49
100-42-5	Styrene	11.2		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 180-156037/11
 Matrix: Water Lab File ID: 51006011.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 10/06/2015 16:08
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 156037 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	11.0		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	10.7		1.0	0.20
107-13-1	Acrylonitrile	99.4		20	0.55
123-91-1	1,4-Dioxane	234		200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		64-135
2037-26-5	Toluene-d8 (Surr)	100		71-118
460-00-4	4-Bromofluorobenzene (Surr)	96		70-118
1868-53-7	Dibromofluoromethane (Surr)	91		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006011.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 06-Oct-2015 16:08:30 ALS Bottle#: 9 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 180-0008850-011
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 06-Oct-2015 16:29:30 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: fergusond

Date: 06-Oct-2015 16:29:29

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.278	4.279	-0.001	0	131161	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.290	-0.001	98	352965	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.386	10.387	-0.001	87	80867	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.728	12.729	-0.001	94	132044	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.566	6.560	0.006	93	78540	50.0	45.3	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.943	6.937	0.006	0	100499	50.0	42.2	
\$ 7 Toluene-d8 (Surr)	98	8.938	8.939	-0.001	93	312243	50.0	50.0	
\$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.573	-0.001	91	113080	50.0	48.1	
11 Dichlorodifluoromethane	85	1.614	1.608	0.006	99	102099	50.0	51.2	
12 Chloromethane	50	1.778	1.779	-0.001	99	135312	50.0	46.2	
13 Vinyl chloride	62	1.912	1.912	0.000	97	104650	50.0	40.3	
14 Butadiene	39	1.954	1.949	0.005	97	147276	50.0	48.0	
15 Bromomethane	94	2.264	2.247	0.017	88	44993	50.0	42.6	
16 Chloroethane	64	2.404	2.399	0.005	97	52721	50.0	33.6	
17 Dichlorofluoromethane	67	2.684	2.679	0.005	98	130611	50.0	39.3	
18 Trichlorofluoromethane	101	2.715	2.703	0.012	95	117204	50.0	47.1	
20 Ethyl ether	59	3.055	3.056	-0.001	96	96273	50.0	41.8	
21 Acrolein	56	3.244	3.232	0.012	98	44038	150.0	128.3	
22 1,1-Dichloroethene	96	3.347	3.348	-0.001	97	91460	50.0	46.5	
23 1,1,2-Trichloro-1,2,2-trif	101	3.439	3.433	0.006	93	99735	50.0	47.9	
24 Acetone	43	3.457	3.451	0.006	96	66311	100.0	93.1	
25 Iodomethane	142	3.536	3.537	-0.001	95	152321	50.0	52.0	
26 Carbon disulfide	76	3.645	3.652	-0.007	100	226067	50.0	49.5	
28 3-Chloro-1-propene	76	3.925	3.926	-0.001	90	47305	50.0	42.5	
30 Methyl acetate	43	3.950	3.944	0.006	99	550058	250.0	258.5	
31 Methylene Chloride	84	4.150	4.133	0.017	99	114304	50.0	49.4	
32 2-Methyl-2-propanol	59	4.424	4.407	0.017	92	73373	500.0	497.0	
33 Acrylonitrile	53	4.534	4.528	0.006	99	513413	500.0	497.2	
34 trans-1,2-Dichloroethene	96	4.570	4.565	0.005	98	100678	50.0	47.2	
35 Methyl tert-butyl ether	73	4.588	4.583	0.005	96	230328	50.0	46.6	
36 Hexane	57	4.996	4.985	0.012	97	166718	50.0	46.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.209	5.204	0.005	96	182733	50.0	43.5	
38 Vinyl acetate	43	5.251	5.252	-0.001	97	167228	50.0	53.0	
44 2,2-Dichloropropane	77	5.945	5.946	-0.001	57	76386	50.0	45.3	
45 cis-1,2-Dichloroethene	96	5.957	5.958	-0.001	82	108286	50.0	47.5	
46 2-Butanone (MEK)	43	5.969	5.964	0.005	98	110677	100.0	103.4	
49 Chlorobromomethane	128	6.237	6.238	-0.001	94	52451	50.0	52.4	
51 Tetrahydrofuran	42	6.255	6.250	0.005	92	77383	100.0	90.1	
52 Chloroform	83	6.389	6.384	0.005	95	161012	50.0	44.3	
53 1,1,1-Trichloroethane	97	6.547	6.542	0.005	97	120517	50.0	44.9	
54 Cyclohexane	56	6.620	6.615	0.005	96	206658	50.0	46.0	
56 Carbon tetrachloride	117	6.718	6.718	0.000	96	108418	50.0	47.4	
55 1,1-Dichloropropene	75	6.736	6.730	0.006	91	131425	50.0	44.2	
57 Isobutyl alcohol	41	6.931	6.925	0.005	60	94345	1250.0	1403.6	
58 Benzene	78	6.949	6.943	0.006	97	403774	50.0	46.4	
59 1,2-Dichloroethane	62	7.022	7.022	0.000	95	128369	50.0	42.6	
62 n-Heptane	43	7.314	7.308	0.006	97	147756	50.0	45.4	
64 Trichloroethene	130	7.685	7.679	0.006	96	107921	50.0	50.7	
66 Methylcyclohexane	83	7.916	7.917	-0.001	96	159204	50.0	47.4	
67 1,2-Dichloropropane	63	7.953	7.947	0.006	95	104755	50.0	45.9	
70 1,4-Dioxane	88	8.038	8.032	0.006	37	18406	1000.0	1169.0	
68 Dibromomethane	93	8.038	8.038	0.000	93	54076	50.0	46.7	
71 Dichlorobromomethane	83	8.232	8.233	-0.001	97	105814	50.0	46.1	
74 cis-1,3-Dichloropropene	75	8.676	8.677	-0.001	91	116432	50.0	43.3	
75 4-Methyl-2-pentanone (MIBK)	43	8.829	8.829	0.000	99	206127	100.0	103.4	
76 Toluene	91	9.005	9.006	-0.001	98	413777	50.0	51.7	
77 trans-1,3-Dichloropropene	75	9.254	9.255	-0.001	98	95334	50.0	45.6	
78 Ethyl methacrylate	69	9.309	9.310	-0.001	94	103570	50.0	51.3	
79 1,1,2-Trichloroethane	97	9.443	9.450	-0.007	92	79138	50.0	52.0	
80 Tetrachloroethene	164	9.516	9.517	-0.001	98	83613	50.0	53.8	
81 1,3-Dichloropropane	76	9.601	9.602	-0.001	99	132411	50.0	46.8	
82 2-Hexanone	43	9.662	9.663	-0.001	99	152736	100.0	106.2	
84 Chlorodibromomethane	129	9.820	9.815	0.005	90	71782	50.0	54.4	
85 Ethylene Dibromide	107	9.930	9.930	0.000	99	77709	50.0	53.0	
86 3-Chlorobenzotrifluoride	180	10.392	10.387	0.005	86	151842	50.0	59.0	
87 Chlorobenzene	112	10.416	10.417	-0.001	95	272537	50.0	52.9	
88 4-Chlorobenzotrifluoride	180	10.477	10.478	-0.001	95	139564	50.0	57.4	
89 1,1,1,2-Tetrachloroethane	131	10.514	10.514	0.000	90	89355	50.0	53.2	
90 Ethylbenzene	106	10.520	10.514	0.006	98	146612	50.0	53.7	
91 m-Xylene & p-Xylene	106	10.648	10.648	0.000	0	180155	50.0	53.8	
92 o-Xylene	106	11.031	11.031	0.000	96	172138	50.0	54.1	
93 Styrene	104	11.049	11.050	-0.001	96	295472	50.0	56.0	
94 Bromoform	173	11.232	11.232	0.000	98	41502	50.0	55.2	
96 2-Chlorobenzotrifluoride	180	11.298	11.299	-0.001	98	151075	50.0	59.7	
97 Isopropylbenzene	105	11.396	11.396	0.000	96	435378	50.0	55.8	
99 1,1,2,2-Tetrachloroethane	83	11.706	11.707	-0.001	85	110334	50.0	53.7	
100 Bromobenzene	156	11.706	11.713	-0.007	93	114832	50.0	50.7	
102 trans-1,4-Dichloro-2-buten	53	11.743	11.743	0.000	64	3175	50.0	3.87	
101 1,2,3-Trichloropropane	110	11.761	11.761	0.000	86	38606	50.0	51.6	
103 N-Propylbenzene	120	11.816	11.810	0.006	99	123121	50.0	47.4	
104 2-Chlorotoluene	126	11.901	11.901	0.000	97	109120	50.0	49.5	
105 3-Chlorotoluene	126	11.968	11.968	0.000	95	118429	50.0	52.2	
106 1,3,5-Trimethylbenzene	105	11.992	11.999	-0.007	95	360964	50.0	49.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 4-Chlorotoluene	126	12.022	12.023	-0.001	97	122846	50.0	50.6	
108 tert-Butylbenzene	119	12.308	12.309	-0.001	93	301289	50.0	50.5	
110 1,2,4-Trimethylbenzene	105	12.369	12.370	-0.001	97	362229	50.0	49.3	
111 1,2-dichloro-4-(trifluorom	214	12.412	12.412	0.000	97	104145	50.0	50.9	
112 sec-Butylbenzene	105	12.533	12.534	-0.001	94	422741	50.0	50.2	
113 1,3-Dichlorobenzene	146	12.649	12.650	-0.001	99	217562	50.0	53.9	
114 4-Isopropyltoluene	119	12.685	12.692	-0.007	97	359674	50.0	50.5	
115 1,4-Dichlorobenzene	146	12.752	12.753	-0.001	95	220963	50.0	52.6	
116 2,4-Dichloro-1-(trifluorom	214	12.783	12.777	0.006	96	97687	50.0	51.5	
118 2,5-Dichlorobenzotrifluori	214	12.819	12.820	-0.001	0	104044	50.0	50.7	
120 n-Butylbenzene	91	13.099	13.100	-0.001	98	281006	50.0	46.1	
121 1,2-Dichlorobenzene	146	13.111	13.112	-0.001	97	201689	50.0	53.5	
122 1,2-Dibromo-3-Chloropropan	75	13.896	13.903	-0.007	78	16771	50.0	54.2	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.042	14.043	-0.001	0	367549	150.0	170.6	
125 2,3- & 3,4- Dichlorotoluen	125	14.462	14.463	-0.001	0	237477	100.0	115.6	
126 1,2,4-Trichlorobenzene	180	14.723	14.724	-0.001	95	84203	50.0	57.4	
127 Hexachlorobutadiene	225	14.869	14.870	-0.001	98	36947	50.0	52.3	
128 Naphthalene	128	14.991	14.992	-0.001	97	237137	50.0	62.9	
129 1,2,3-Trichlorobenzene	180	15.216	15.217	-0.001	92	68148	50.0	57.4	
131 2,4,5-Trichlorotoluene	159	15.989	15.996	-0.007	0	23419	50.0	54.6	
130 2,3,6-Trichlorotoluene	159	16.092	16.087	0.005	98	24107	50.0	61.0	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
S 134 1,2-Dichloroethene, Total	96				0		100.0	94.7	
S 133 Xylenes, Total	106				0		100.0	107.8	
S 135 1,3-Dichloropropene, Total	1				0		100.0	89.0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

voaWVA2nd Res_00010	Amount Added: 2.00	Units: uL	
voaWKetmix2nd_00002	Amount Added: 2.00	Units: uL	
VOA8260VOA2ND_00146	Amount Added: 2.00	Units: uL	
voaWEEpri Res_00006	Amount Added: 2.00	Units: uL	
voaWAcro1stRe_00001	Amount Added: 6.00	Units: uL	
VOA8260INT_00042	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151006-8850.b\51006011.D

Injection Date: 06-Oct-2015 16:08:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: LCS

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

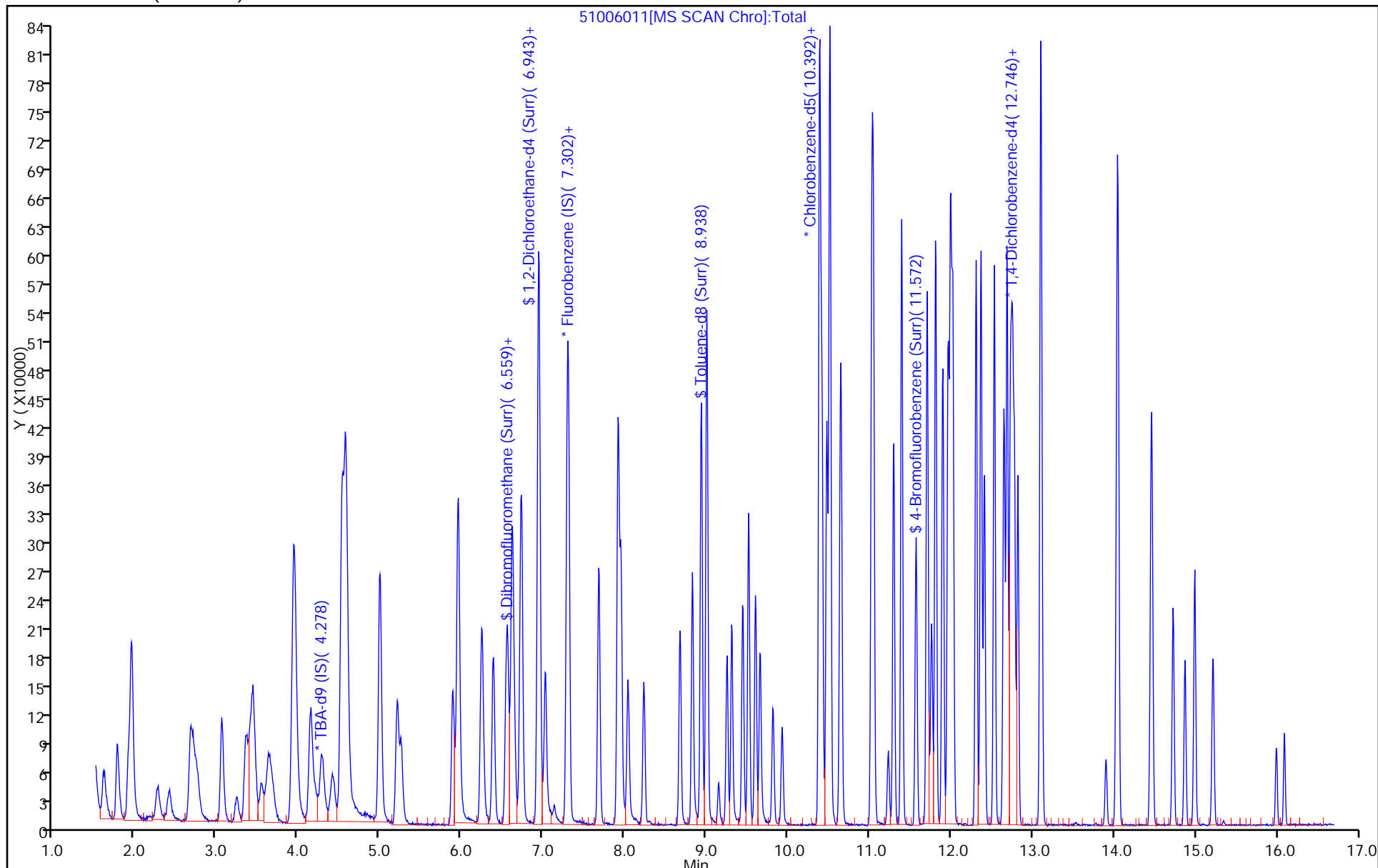
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-MW-147A-0/1-0 MS Lab Sample ID: 180-48181-2 MS
 Matrix: Water Lab File ID: 51003009.D
 Analysis Method: 8260C Date Collected: 09/25/2015 10:05
 Sample wt/vol: 5 (mL) Date Analyzed: 10/03/2015 15:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 155766 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	10.3		1.0	0.28
75-01-4	Vinyl chloride	9.47		1.0	0.23
74-83-9	Bromomethane	10.1		1.0	0.31
75-00-3	Chloroethane	8.27		1.0	0.21
75-35-4	1,1-Dichloroethene	9.39		1.0	0.30
67-64-1	Acetone	17.9		5.0	2.5
75-15-0	Carbon disulfide	8.15		1.0	0.21
75-09-2	Methylene Chloride	8.53		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	8.99		1.0	0.17
1634-04-4	Methyl tert-butyl ether	8.71		1.0	0.18
75-34-3	1,1-Dichloroethane	8.57		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	16.9	F1	1.0	0.24
74-97-5	Bromochloromethane	9.25		1.0	0.18
78-93-3	2-Butanone (MEK)	18.9		5.0	0.55
67-66-3	Chloroform	8.78		1.0	0.17
71-55-6	1,1,1-Trichloroethane	8.87		1.0	0.29
56-23-5	Carbon tetrachloride	9.14		1.0	0.14
71-43-2	Benzene	8.88		1.0	0.11
107-06-2	1,2-Dichloroethane	8.16		1.0	0.21
79-01-6	Trichloroethene	17.7	F1	1.0	0.14
78-87-5	1,2-Dichloropropane	8.66		1.0	0.095
75-27-4	Bromodichloromethane	8.43		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	8.08		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	17.5		5.0	0.53
108-88-3	Toluene	9.72		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	8.31		1.0	0.15
79-00-5	1,1,2-Trichloroethane	9.75		1.0	0.20
127-18-4	Tetrachloroethene	15.7		1.0	0.15
591-78-6	2-Hexanone	16.3		5.0	0.16
124-48-1	Dibromochloromethane	9.29		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	9.85		1.0	0.18
108-90-7	Chlorobenzene	9.70		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	9.94		1.0	0.28
100-41-4	Ethylbenzene	9.63		1.0	0.23
1330-20-7	Xylenes, Total	19.6		3.0	0.49
100-42-5	Styrene	10.2		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-MW-147A-0/1-0 MS Lab Sample ID: 180-48181-2 MS
 Matrix: Water Lab File ID: 51003009.D
 Analysis Method: 8260C Date Collected: 09/25/2015 10:05
 Sample wt/vol: 5 (mL) Date Analyzed: 10/03/2015 15:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 155766 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	8.83		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	9.96		1.0	0.20
107-13-1	Acrylonitrile	91.4		20	0.55
123-91-1	1,4-Dioxane	231		200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	83		64-135
2037-26-5	Toluene-d8 (Surr)	97		71-118
460-00-4	4-Bromofluorobenzene (Surr)	93		70-118
1868-53-7	Dibromofluoromethane (Surr)	92		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\51003009.D
 Lims ID: 180-48181-A-2 MS
 Client ID: HD-MW-147A-0/1-0
 Sample Type: MS
 Inject. Date: 03-Oct-2015 15:02:30 ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-48181-A-2 MS
 Misc. Info.: 180-0008807-009
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 03-Oct-2015 13:10:59 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: fergusond

Date: 03-Oct-2015 15:14:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.275	4.283	-0.008	0	136911	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.292	7.289	0.003	98	408628	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.389	10.385	0.004	87	97033	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.731	12.727	0.004	92	145300	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.562	6.565	-0.003	93	92180	50.0	45.9	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.933	6.936	-0.003	0	114327	50.0	41.5	
\$ 7 Toluene-d8 (Surr)	98	8.941	8.937	0.004	94	362972	50.0	48.5	
\$ 8 4-Bromofluorobenzene (Surr	95	11.569	11.571	-0.002	89	131498	50.0	46.6	
11 Dichlorodifluoromethane	85	1.610	1.607	0.003	99	120777	50.0	52.3	
12 Chloromethane	50	1.775	1.771	0.003	99	173921	50.0	51.3	
13 Vinyl chloride	62	1.908	1.905	0.003	98	142445	50.0	47.4	
14 Butadiene	39	1.945	1.941	0.004	98	186641	50.0	52.6	
15 Bromomethane	94	2.261	2.239	0.022	90	61751	50.0	50.5	
16 Chloroethane	64	2.395	2.391	0.004	97	74975	50.0	41.3	
17 Dichlorofluoromethane	67	2.669	2.665	0.004	97	173887	50.0	45.2	
18 Trichlorofluoromethane	101	2.705	2.702	0.003	83	152535	50.0	53.0	
20 Ethyl ether	59	3.052	3.048	0.004	96	110253	50.0	41.3	
21 Acrolein	56	3.228	3.231	-0.003	97	49318	150.0	124.1	
22 1,1-Dichloroethene	96	3.344	3.346	-0.002	96	106826	50.0	46.9	
23 1,1,2-Trichloro-1,2,2-trif	101	3.429	3.407	0.022	91	110893	50.0	46.0	
24 Acetone	43	3.447	3.444	0.003	97	73663	100.0	89.3	
25 Iodomethane	142	3.539	3.553	-0.014	97	163362	50.0	48.2	
26 Carbon disulfide	76	3.642	3.638	0.004	100	215320	50.0	40.7	
28 3-Chloro-1-propene	76	3.922	3.918	0.004	89	55218	50.0	42.8	
30 Methyl acetate	43	3.940	3.937	0.003	100	582749	250.0	236.5	
31 Methylene Chloride	84	4.141	4.137	0.004	97	116198	50.0	42.6	
32 2-Methyl-2-propanol	59	4.409	4.405	0.004	88	72715	500.0	471.9	
33 Acrylonitrile	53	4.530	4.527	0.003	99	546079	500.0	456.8	
34 trans-1,2-Dichloroethene	96	4.567	4.563	0.004	96	111028	50.0	44.9	
35 Methyl tert-butyl ether	73	4.579	4.581	-0.002	95	249001	50.0	43.5	
36 Hexane	57	4.993	4.989	0.004	96	187548	50.0	45.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.200	5.202	-0.002	97	208534	50.0	42.8	
38 Vinyl acetate	43	5.254	5.251	0.003	97	204266	50.0	55.9	
44 2,2-Dichloropropane	77	5.948	5.944	0.004	42	77174	50.0	39.6	
45 cis-1,2-Dichloroethene	96	5.954	5.950	0.004	82	223472	50.0	84.6	
46 2-Butanone (MEK)	43	5.960	5.962	-0.002	99	117327	100.0	94.7	
49 Chlorobromomethane	128	6.234	6.236	-0.002	94	53594	50.0	46.2	
51 Tetrahydrofuran	42	6.258	6.248	0.010	94	86563	100.0	87.1	
52 Chloroform	83	6.386	6.382	0.004	96	184529	50.0	43.9	
53 1,1,1-Trichloroethane	97	6.544	6.540	0.004	96	137936	50.0	44.4	
54 Cyclohexane	56	6.617	6.613	0.004	97	227131	50.0	43.7	
56 Carbon tetrachloride	117	6.714	6.717	-0.003	97	121008	50.0	45.7	
55 1,1-Dichloropropene	75	6.733	6.735	-0.002	91	147479	50.0	42.9	
57 Isobutyl alcohol	41	6.927	6.924	0.003	84	99013	1250.0	1272.4	
58 Benzene	78	6.945	6.942	0.003	98	447613	50.0	44.4	
59 1,2-Dichloroethane	62	7.018	7.021	-0.003	95	142213	50.0	40.8	
62 n-Heptane	43	7.310	7.307	0.003	97	175719	50.0	46.6	
64 Trichloroethene	130	7.682	7.678	0.004	96	217827	50.0	88.4	
66 Methylcyclohexane	83	7.913	7.915	-0.002	96	175470	50.0	45.2	
67 1,2-Dichloropropane	63	7.949	7.946	0.003	94	114521	50.0	43.3	
68 Dibromomethane	93	8.040	8.037	0.003	96	57078	50.0	42.5	
70 1,4-Dioxane	88	8.034	8.037	-0.003	58	21087	1000.0	1156.9	
71 Dichlorobromomethane	83	8.229	8.232	-0.003	98	111983	50.0	42.2	
74 cis-1,3-Dichloropropene	75	8.673	8.676	-0.003	91	125656	50.0	40.4	
75 4-Methyl-2-pentanone (MIBK)	43	8.825	8.828	-0.003	99	209657	100.0	87.7	
76 Toluene	91	9.002	9.004	-0.002	98	466711	50.0	48.6	
77 trans-1,3-Dichloropropene	75	9.251	9.254	-0.003	98	104189	50.0	41.6	
78 Ethyl methacrylate	69	9.312	9.308	0.004	95	111573	50.0	46.0	
79 1,1,2-Trichloroethane	97	9.446	9.442	0.004	92	89061	50.0	48.7	
80 Tetrachloroethene	164	9.519	9.515	0.004	97	146149	50.0	78.4	
81 1,3-Dichloropropane	76	9.604	9.600	0.004	98	155794	50.0	45.9	
82 2-Hexanone	43	9.659	9.655	0.004	99	140904	100.0	81.6	
84 Chlorodibromomethane	129	9.817	9.819	-0.002	90	73447	50.0	46.4	
85 Ethylene Dibromide	107	9.926	9.929	-0.003	98	86686	50.0	49.2	
86 3-Chlorobenzotrifluoride	180	10.389	10.391	-0.002	86	161233	50.0	52.2	
87 Chlorobenzene	112	10.413	10.415	-0.002	95	299953	50.0	48.5	
88 4-Chlorobenzotrifluoride	180	10.474	10.476	-0.002	96	152552	50.0	52.3	
89 1,1,1,2-Tetrachloroethane	131	10.510	10.513	-0.003	90	100242	50.0	49.7	
90 Ethylbenzene	106	10.516	10.519	-0.003	99	157814	50.0	48.1	
91 m-Xylene & p-Xylene	106	10.644	10.647	-0.003	0	197389	50.0	49.1	
92 o-Xylene	106	11.027	11.030	-0.003	96	186486	50.0	48.8	
93 Styrene	104	11.046	11.048	-0.002	95	322216	50.0	50.9	
94 Bromoform	173	11.234	11.231	0.003	94	39873	50.0	44.2	
96 2-Chlorobenzotrifluoride	180	11.295	11.298	-0.003	97	158608	50.0	52.2	
97 Isopropylbenzene	105	11.399	11.395	0.004	96	473416	50.0	50.6	
99 1,1,2,2-Tetrachloroethane	83	11.709	11.705	0.004	82	122694	50.0	49.8	
100 Bromobenzene	156	11.709	11.711	-0.002	92	125928	50.0	50.5	
102 trans-1,4-Dichloro-2-buten	53	11.739	11.742	-0.003	71	18544	50.0	20.6	
101 1,2,3-Trichloropropane	110	11.764	11.766	-0.002	87	41376	50.0	50.3	
103 N-Propylbenzene	120	11.812	11.815	-0.003	99	135259	50.0	47.4	
104 2-Chlorotoluene	126	11.897	11.900	-0.003	97	120880	50.0	49.8	
105 3-Chlorotoluene	126	11.964	11.967	-0.003	95	129112	50.0	51.8	
106 1,3,5-Trimethylbenzene	105	11.995	11.997	-0.002	95	398295	50.0	49.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 4-Chlorotoluene	126	12.025	12.022	0.003	97	133969	50.0	50.2	
108 tert-Butylbenzene	119	12.305	12.307	-0.002	95	315228	50.0	48.1	
110 1,2,4-Trimethylbenzene	105	12.366	12.368	-0.002	98	395811	50.0	49.0	
111 1,2-dichloro-4-(trifluorom	214	12.408	12.411	-0.003	97	110367	50.0	49.0	
112 sec-Butylbenzene	105	12.530	12.533	-0.003	94	456334	50.0	49.3	
113 1,3-Dichlorobenzene	146	12.652	12.648	0.004	99	228029	50.0	51.3	
114 4-Isopropyltoluene	119	12.688	12.691	-0.003	97	387617	50.0	49.5	
115 1,4-Dichlorobenzene	146	12.755	12.752	0.003	96	240451	50.0	52.1	
116 2,4-Dichloro-1-(trifluorom	214	12.780	12.782	-0.002	96	98902	50.0	47.4	
118 2,5-Dichlorobenzotrifluori	214	12.822	12.818	0.004	0	112907	50.0	50.0	
120 n-Butylbenzene	91	13.096	13.098	-0.002	98	309063	50.0	46.1	
121 1,2-Dichlorobenzene	146	13.108	13.110	-0.002	98	218429	50.0	52.6	
122 1,2-Dibromo-3-Chloropropan	75	13.899	13.907	-0.008	80	16600	50.0	48.7	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.045	14.047	-0.002	0	372301	150.0	157.1	
125 2,3- & 3,4- Dichlorotoluen	125	14.459	14.461	-0.002	0	242267	100.0	107.2	
126 1,2,4-Trichlorobenzene	180	14.726	14.729	-0.003	95	86161	50.0	53.4	
127 Hexachlorobutadiene	225	14.872	14.869	0.003	97	39884	50.0	51.3	
128 Naphthalene	128	14.988	14.990	-0.002	97	229521	50.0	55.3	
129 1,2,3-Trichlorobenzene	180	15.213	15.215	-0.002	95	70523	50.0	53.9	
131 2,4,5-Trichlorotoluene	159	15.992	15.994	-0.002	0	23444	50.0	49.7	
130 2,3,6-Trichlorotoluene	159	16.089	16.091	-0.002	96	23726	50.0	54.6	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		100.0	97.9	
S 134 1,2-Dichloroethene, Total	96				0		100.0	129.6	
S 135 1,3-Dichloropropene, Total	1				0		100.0	81.9	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

voaWVA2nd Res_00010	Amount Added: 2.00	Units: uL	
VOA8260VOA2ND_00146	Amount Added: 2.00	Units: uL	
voaWKetmix2nd_00002	Amount Added: 2.00	Units: uL	
voaWEEpri Res_00006	Amount Added: 2.00	Units: uL	
voaWAcro1stRe_00001	Amount Added: 6.00	Units: uL	
VOA8260INT_00042	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\51003009.D

Injection Date: 03-Oct-2015 15:02:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: 180-48181-A-2 MS

Worklist Smp#: 9

Client ID: HD-MW-147A-0/1-0

Purge Vol: 5.000 mL

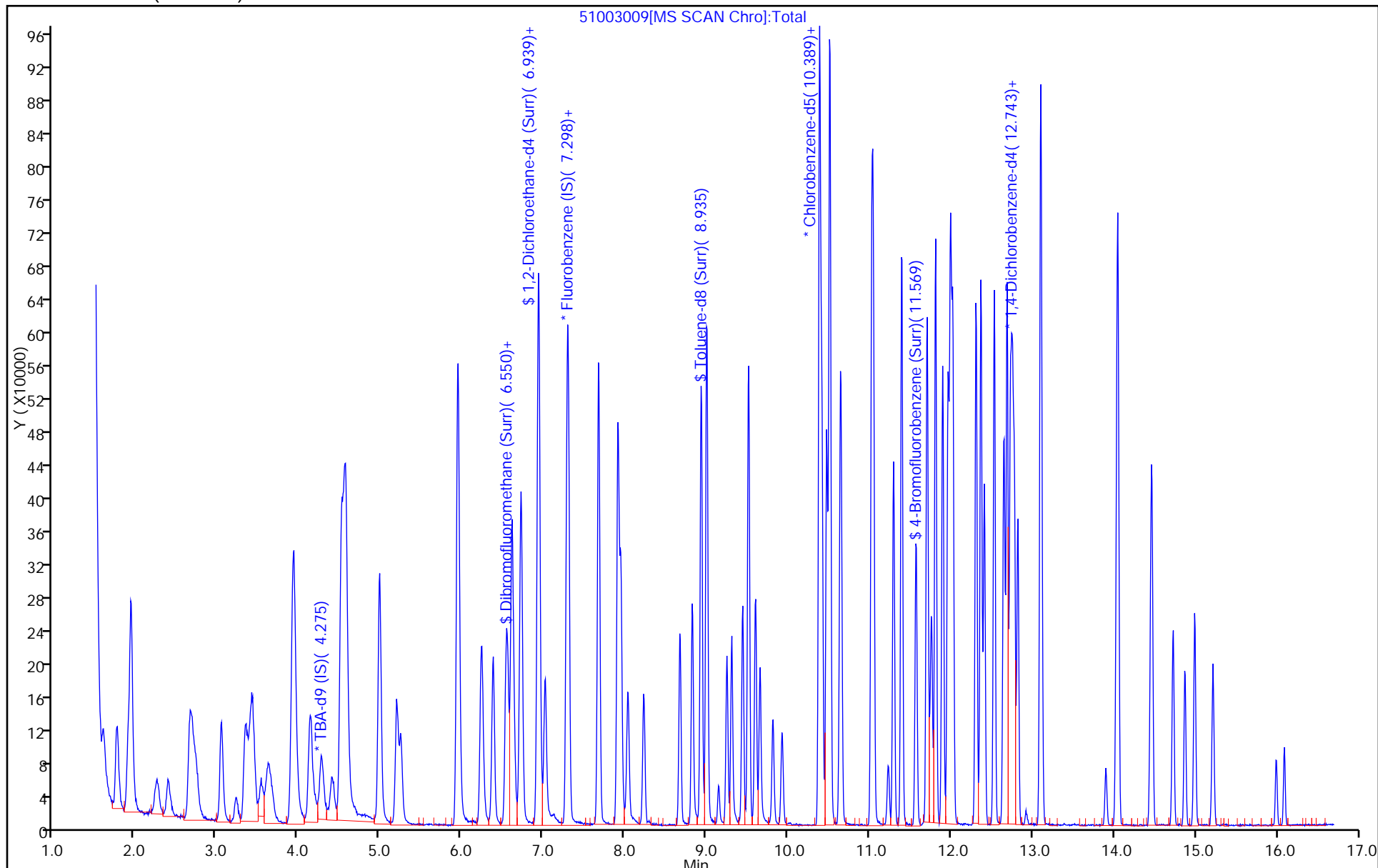
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-MW-147A-0/1-0 MSD Lab Sample ID: 180-48181-2 MSD
 Matrix: Water Lab File ID: 51003010.D
 Analysis Method: 8260C Date Collected: 09/25/2015 10:05
 Sample wt/vol: 5 (mL) Date Analyzed: 10/03/2015 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.: 155766 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	10.4		1.0	0.28
75-01-4	Vinyl chloride	9.13		1.0	0.23
74-83-9	Bromomethane	10.4		1.0	0.31
75-00-3	Chloroethane	8.27		1.0	0.21
75-35-4	1,1-Dichloroethene	8.89		1.0	0.30
67-64-1	Acetone	20.6		5.0	2.5
75-15-0	Carbon disulfide	7.61		1.0	0.21
75-09-2	Methylene Chloride	8.98		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	8.78		1.0	0.17
1634-04-4	Methyl tert-butyl ether	9.07		1.0	0.18
75-34-3	1,1-Dichloroethane	8.56		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	17.2	F1	1.0	0.24
74-97-5	Bromochloromethane	10.3		1.0	0.18
78-93-3	2-Butanone (MEK)	20.2		5.0	0.55
67-66-3	Chloroform	8.93		1.0	0.17
71-55-6	1,1,1-Trichloroethane	8.73		1.0	0.29
56-23-5	Carbon tetrachloride	8.74		1.0	0.14
71-43-2	Benzene	9.12		1.0	0.11
107-06-2	1,2-Dichloroethane	8.55		1.0	0.21
79-01-6	Trichloroethene	17.6	F1	1.0	0.14
78-87-5	1,2-Dichloropropane	9.06		1.0	0.095
75-27-4	Bromodichloromethane	8.39		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	8.65		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	18.1		5.0	0.53
108-88-3	Toluene	9.70		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	8.65		1.0	0.15
79-00-5	1,1,2-Trichloroethane	9.88		1.0	0.20
127-18-4	Tetrachloroethene	15.4		1.0	0.15
591-78-6	2-Hexanone	17.9		5.0	0.16
124-48-1	Dibromochloromethane	9.32		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	10.1		1.0	0.18
108-90-7	Chlorobenzene	9.85		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	9.72		1.0	0.28
100-41-4	Ethylbenzene	9.59		1.0	0.23
1330-20-7	Xylenes, Total	19.4		3.0	0.49
100-42-5	Styrene	10.3		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1
 SDG No.: _____
 Client Sample ID: HD-MW-147A-0/1-0 MSD Lab Sample ID: 180-48181-2 MSD
 Matrix: Water Lab File ID: 51003010.D
 Analysis Method: 8260C Date Collected: 09/25/2015 10:05
 Sample wt/vol: 5 (mL) Date Analyzed: 10/03/2015 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.: 155766 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	9.28		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	9.80		1.0	0.20
107-13-1	Acrylonitrile	93.3		20	0.55
123-91-1	1,4-Dioxane	247		200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		64-135
2037-26-5	Toluene-d8 (Surr)	98		71-118
460-00-4	4-Bromofluorobenzene (Surr)	93		70-118
1868-53-7	Dibromofluoromethane (Surr)	93		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\51003010.D
 Lims ID: 180-48181-A-2 MSD
 Client ID: HD-MW-147A-0/1-0
 Sample Type: MSD
 Inject. Date: 03-Oct-2015 15:27:30 ALS Bottle#: 9 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 180-48181-A-2 MSD
 Misc. Info.: 180-0008807-010
 Operator ID: 001562 Instrument ID: CHHP5
 Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\MSVOA_LL_CHHP5.m
 Limit Group: VOA 8260C ICAL
 Last Update: 03-Oct-2015 23:14:52 Calib Date: 26-Aug-2015 17:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: fergusond

Date: 05-Oct-2015 07:38:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.287	4.283	0.004	0	141804	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.287	7.289	-0.002	98	408732	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.389	10.385	0.004	87	98256	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.725	12.727	-0.002	92	147512	50.0	50.0	
\$ 5 Dibromofluoromethane (Surr	113	6.563	6.565	-0.002	93	92944	50.0	46.3	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.934	6.936	-0.002	0	116679	50.0	42.3	
\$ 7 Toluene-d8 (Surr)	98	8.935	8.937	-0.002	94	370867	50.0	48.9	
\$ 8 4-Bromofluorobenzene (Surr	95	11.569	11.571	-0.002	89	133234	50.0	46.6	
11 Dichlorodifluoromethane	85	1.599	1.607	-0.008	98	107620	50.0	46.6	
12 Chloromethane	50	1.769	1.771	-0.002	99	176561	50.0	52.1	
13 Vinyl chloride	62	1.903	1.905	-0.002	98	137298	50.0	45.6	
14 Butadiene	39	1.939	1.941	-0.002	95	183305	50.0	51.6	
15 Bromomethane	94	2.268	2.239	0.029	91	63890	50.0	52.2	
16 Chloroethane	64	2.396	2.391	0.005	98	75025	50.0	41.4	
17 Dichlorofluoromethane	67	2.675	2.665	0.010	97	161849	50.0	42.0	
18 Trichlorofluoromethane	101	2.706	2.702	0.004	97	128807	50.0	44.7	
20 Ethyl ether	59	3.053	3.048	0.005	97	115052	50.0	43.1	
21 Acrolein	56	3.229	3.231	-0.002	99	49728	150.0	125.1	
22 1,1-Dichloroethene	96	3.345	3.346	-0.001	96	101151	50.0	44.4	
23 1,1,2-Trichloro-1,2,2-trif	101	3.424	3.407	0.017	91	105886	50.0	43.9	
24 Acetone	43	3.454	3.444	0.010	99	84762	100.0	102.8	
25 Iodomethane	142	3.533	3.553	-0.020	98	167243	50.0	49.3	
26 Carbon disulfide	76	3.649	3.638	0.011	100	201240	50.0	38.1	
28 3-Chloro-1-propene	76	3.929	3.918	0.011	88	55088	50.0	42.7	
30 Methyl acetate	43	3.947	3.937	0.010	100	595761	250.0	241.8	
31 Methylene Chloride	84	4.141	4.137	0.004	98	121555	50.0	44.9	
32 2-Methyl-2-propanol	59	4.409	4.405	0.004	88	81022	500.0	507.6	
33 Acrylonitrile	53	4.525	4.527	-0.002	98	557775	500.0	466.5	
34 trans-1,2-Dichloroethene	96	4.561	4.563	-0.002	96	108450	50.0	43.9	
35 Methyl tert-butyl ether	73	4.586	4.581	0.005	95	259355	50.0	45.3	
36 Hexane	57	4.987	4.989	-0.002	96	181295	50.0	43.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.200	5.202	-0.002	97	208518	50.0	42.8	
38 Vinyl acetate	43	5.255	5.251	0.004	97	210627	50.0	57.7	
44 2,2-Dichloropropane	77	5.948	5.944	0.004	41	73864	50.0	37.9	
45 cis-1,2-Dichloroethene	96	5.954	5.950	0.004	84	227106	50.0	86.0	
46 2-Butanone (MEK)	43	5.960	5.962	-0.002	98	124869	100.0	100.8	
49 Chlorobromomethane	128	6.240	6.236	0.004	95	59499	50.0	51.3	
51 Tetrahydrofuran	42	6.259	6.248	0.011	92	85938	100.0	86.5	
52 Chloroform	83	6.386	6.382	0.004	96	187874	50.0	44.7	
53 1,1,1-Trichloroethane	97	6.544	6.540	0.004	96	135728	50.0	43.6	
54 Cyclohexane	56	6.617	6.613	0.004	96	219745	50.0	42.2	
56 Carbon tetrachloride	117	6.715	6.717	-0.002	97	115733	50.0	43.7	
55 1,1-Dichloropropene	75	6.727	6.735	-0.008	90	143256	50.0	41.6	
57 Isobutyl alcohol	41	6.928	6.924	0.004	91	109043	1250.0	1400.9	
58 Benzene	78	6.946	6.942	0.004	98	459634	50.0	45.6	
59 1,2-Dichloroethane	62	7.025	7.021	0.004	96	148948	50.0	42.7	
62 n-Heptane	43	7.311	7.307	0.004	97	167699	50.0	44.5	
64 Trichloroethene	130	7.676	7.678	-0.002	96	217167	50.0	88.1	
66 Methylcyclohexane	83	7.919	7.915	0.004	96	168369	50.0	43.3	
67 1,2-Dichloropropane	63	7.950	7.946	0.004	95	119759	50.0	45.3	
68 Dibromomethane	93	8.035	8.037	-0.002	93	59239	50.0	44.1	
70 1,4-Dioxane	88	8.035	8.037	-0.002	38	22505	1000.0	1234.4	
71 Dichlorobromomethane	83	8.236	8.232	0.004	98	111410	50.0	41.9	
74 cis-1,3-Dichloropropene	75	8.674	8.676	-0.002	91	134609	50.0	43.3	
75 4-Methyl-2-pentanone (MIBK)	43	8.826	8.828	-0.002	99	218690	100.0	90.3	
76 Toluene	91	9.002	9.004	-0.002	98	471821	50.0	48.5	
77 trans-1,3-Dichloropropene	75	9.252	9.254	-0.002	98	109832	50.0	43.3	
78 Ethyl methacrylate	69	9.312	9.308	0.004	94	113582	50.0	46.3	
79 1,1,2-Trichloroethane	97	9.446	9.442	0.004	93	91408	50.0	49.4	
80 Tetrachloroethene	164	9.519	9.515	0.004	97	145323	50.0	77.0	
81 1,3-Dichloropropane	76	9.598	9.600	-0.002	99	159123	50.0	46.3	
82 2-Hexanone	43	9.659	9.655	0.004	99	156727	100.0	89.7	
84 Chlorodibromomethane	129	9.817	9.819	-0.002	91	74657	50.0	46.6	
85 Ethylene Dibromide	107	9.927	9.929	-0.002	100	89628	50.0	50.3	
86 3-Chlorobenzotrifluoride	180	10.389	10.391	-0.002	84	164508	50.0	52.6	
87 Chlorobenzene	112	10.414	10.415	-0.001	95	308595	50.0	49.3	
88 4-Chlorobenzotrifluoride	180	10.474	10.476	-0.002	96	156458	50.0	52.9	
89 1,1,1,2-Tetrachloroethane	131	10.511	10.513	-0.002	91	99248	50.0	48.6	
90 Ethylbenzene	106	10.517	10.519	-0.002	99	159165	50.0	47.9	
91 m-Xylene & p-Xylene	106	10.651	10.647	0.004	0	199383	50.0	49.0	
92 o-Xylene	106	11.028	11.030	-0.002	97	186385	50.0	48.2	
93 Styrene	104	11.046	11.048	-0.002	96	330554	50.0	51.6	
94 Bromoform	173	11.229	11.231	-0.002	96	42418	50.0	46.4	
96 2-Chlorobenzotrifluoride	180	11.296	11.298	-0.002	97	163628	50.0	53.2	
97 Isopropylbenzene	105	11.393	11.395	-0.002	96	476844	50.0	50.3	
99 1,1,2,2-Tetrachloroethane	83	11.703	11.705	-0.002	78	122339	50.0	49.0	
100 Bromobenzene	156	11.709	11.711	-0.002	92	130032	50.0	51.4	
102 trans-1,4-Dichloro-2-buten	53	11.746	11.742	0.004	75	17997	50.0	19.7	
101 1,2,3-Trichloropropane	110	11.764	11.766	-0.002	86	41915	50.0	50.2	
103 N-Propylbenzene	120	11.813	11.815	-0.002	99	134520	50.0	46.4	
104 2-Chlorotoluene	126	11.898	11.900	-0.002	96	123683	50.0	50.2	
105 3-Chlorotoluene	126	11.965	11.967	-0.002	95	132649	50.0	52.4	
106 1,3,5-Trimethylbenzene	105	11.995	11.997	-0.002	94	405820	50.0	49.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 4-Chlorotoluene	126	12.020	12.022	-0.002	98	133556	50.0	49.3	
108 tert-Butylbenzene	119	12.305	12.307	-0.002	95	318723	50.0	47.9	
110 1,2,4-Trimethylbenzene	105	12.366	12.368	-0.002	98	397696	50.0	48.5	
111 1,2-dichloro-4-(trifluorom	214	12.409	12.411	-0.002	97	109550	50.0	47.9	
112 sec-Butylbenzene	105	12.531	12.533	-0.002	95	451378	50.0	48.0	
113 1,3-Dichlorobenzene	146	12.652	12.648	0.004	99	234352	50.0	52.0	
114 4-Isopropyltoluene	119	12.689	12.691	-0.002	97	388499	50.0	48.8	
115 1,4-Dichlorobenzene	146	12.750	12.752	-0.002	95	242553	50.0	51.7	
116 2,4-Dichloro-1-(trifluorom	214	12.780	12.782	-0.002	95	103496	50.0	48.8	
118 2,5-Dichlorobenzotrifluori	214	12.823	12.818	0.005	0	116990	50.0	51.1	
120 n-Butylbenzene	91	13.096	13.098	-0.002	98	303435	50.0	44.6	
121 1,2-Dichlorobenzene	146	13.109	13.110	-0.002	96	217432	50.0	51.6	
122 1,2-Dibromo-3-Chloropropan	75	13.899	13.907	-0.008	77	16537	50.0	47.8	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.039	14.047	-0.008	0	391622	150.0	162.7	
125 2,3- & 3,4- Dichlorotoluen	125	14.459	14.461	-0.002	0	252544	100.0	110.1	
126 1,2,4-Trichlorobenzene	180	14.727	14.729	-0.002	94	85228	50.0	52.0	
127 Hexachlorobutadiene	225	14.873	14.869	0.004	97	37932	50.0	48.0	
128 Naphthalene	128	14.988	14.990	-0.002	97	251742	50.0	59.7	
129 1,2,3-Trichlorobenzene	180	15.213	15.215	-0.002	95	72448	50.0	54.6	
131 2,4,5-Trichlorotoluene	159	15.986	15.994	-0.008	0	24382	50.0	50.9	
130 2,3,6-Trichlorotoluene	159	16.083	16.091	-0.008	95	23767	50.0	53.8	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		100.0	97.1	
S 134 1,2-Dichloroethene, Total	96				0		100.0	129.9	
S 135 1,3-Dichloropropene, Total	1				0		100.0	86.5	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

voaWAcro1stRe_00001	Amount Added: 6.00	Units: uL	
voaWEEpri Res_00006	Amount Added: 2.00	Units: uL	
voaWKetmix2nd_00002	Amount Added: 2.00	Units: uL	
VOA8260VOA2ND_00146	Amount Added: 2.00	Units: uL	
voaWVA2nd Res_00010	Amount Added: 2.00	Units: uL	
VOA8260INT_00042	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151003-8807.b\51003010.D

Injection Date: 03-Oct-2015 15:27:30

Instrument ID: CHHP5

Operator ID: 001562

Lims ID: 180-48181-A-2 MSD

Worklist Smp#: 10

Client ID: HD-MW-147A-0/1-0

Purge Vol: 5.000 mL

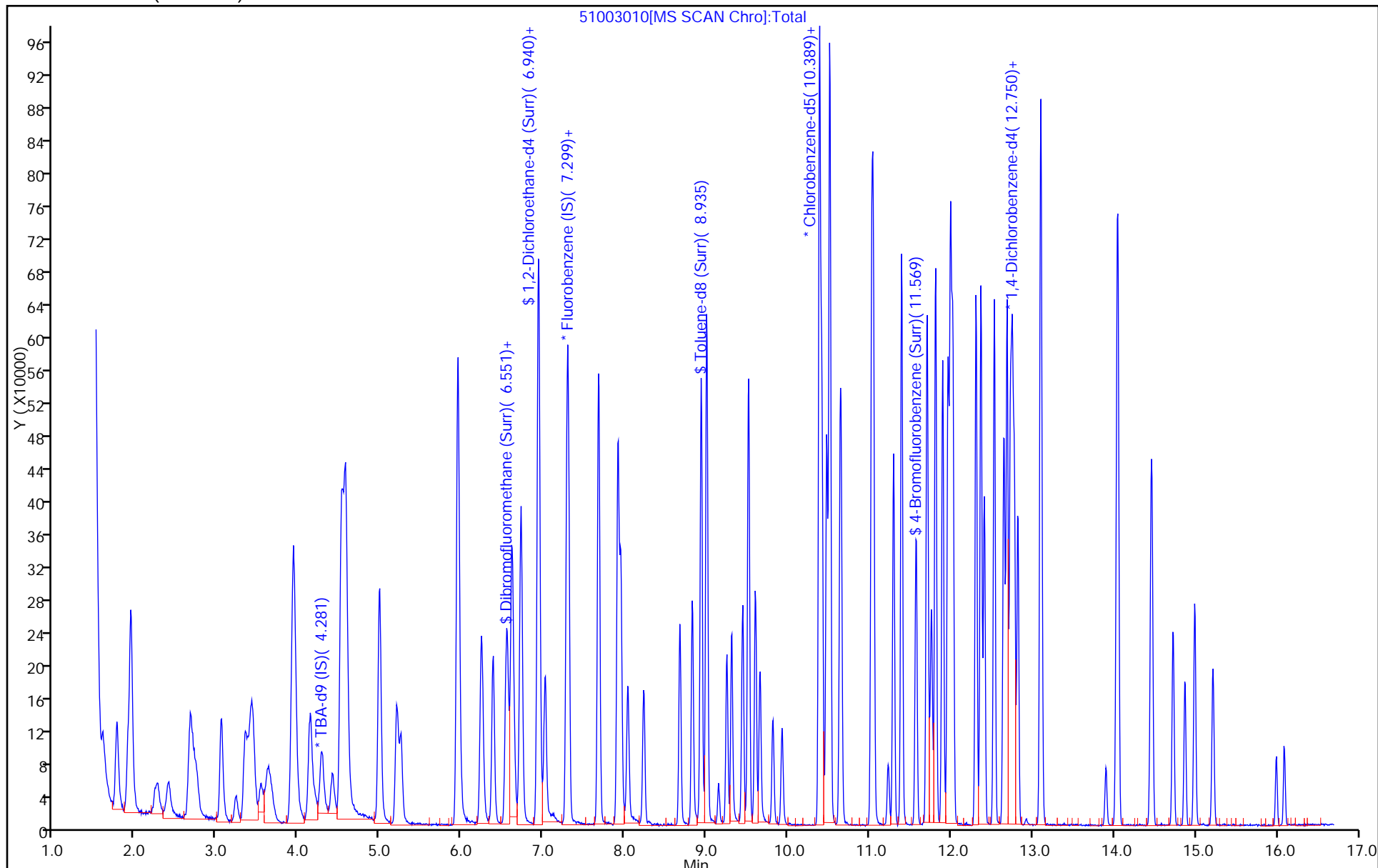
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: MSVOA_LL_CHHP5

Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1

SDG No.: _____

Instrument ID: CHHP6 Start Date: 07/31/2015 12:10Analysis Batch Number: 149469 End Date: 07/31/2015 18:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-149469/1		07/31/2015 12:10	1	60731001.D	DB-624 0.18 (mm)
IC 180-149469/4		07/31/2015 14:00	1	60731004.D	DB-624 0.18 (mm)
ICIS 180-149469/5		07/31/2015 14:24	1	60731005.D	DB-624 0.18 (mm)
IC 180-149469/6		07/31/2015 14:49	1	60731006.D	DB-624 0.18 (mm)
IC 180-149469/7		07/31/2015 15:13	1	60731007.D	DB-624 0.18 (mm)
IC 180-149469/8		07/31/2015 15:37	1	60731008.D	DB-624 0.18 (mm)
IC 180-149469/9		07/31/2015 16:01	1	60731009.D	DB-624 0.18 (mm)
IC 180-149469/10		07/31/2015 16:25	1	60731010.D	DB-624 0.18 (mm)
IC 180-149469/14		07/31/2015 18:02	1	60731014.D	DB-624 0.18 (mm)
ZZZZZ		07/31/2015 18:26	1		DB-624 0.18 (mm)
ICV 180-149469/16		07/31/2015 18:50	1		DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1

SDG No.: _____

Instrument ID: CHHP5 Start Date: 08/26/2015 14:01Analysis Batch Number: 151868 End Date: 08/26/2015 20:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-151868/7		08/26/2015 14:01	1	50826007.D	DB-624 0.18 (mm)
IC 180-151868/6		08/26/2015 15:04	1	50826006.D	DB-624 0.18 (mm)
IC 180-151868/8		08/26/2015 15:28	1	50826008.D	DB-624 0.18 (mm)
ICIS 180-151868/9		08/26/2015 15:52	1	50826009.D	DB-624 0.18 (mm)
IC 180-151868/10		08/26/2015 16:16	1	50826010.D	DB-624 0.18 (mm)
IC 180-151868/11		08/26/2015 16:40	1	50826011.D	DB-624 0.18 (mm)
IC 180-151868/12		08/26/2015 17:04	1	50826012.D	DB-624 0.18 (mm)
IC 180-151868/13		08/26/2015 17:28	1	50826013.D	DB-624 0.18 (mm)
IC 180-151868/14		08/26/2015 17:52	1	50826014.D	DB-624 0.18 (mm)
ZZZZZ		08/26/2015 19:52	1		DB-624 0.18 (mm)
ICV 180-151868/20		08/26/2015 20:16	1		DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1

SDG No.: _____

Instrument ID: CHHP5 Start Date: 10/03/2015 11:41

Analysis Batch Number: 155766 End Date: 10/03/2015 23:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-155766/4		10/03/2015 11:41	1	51003004.D	DB-624 0.18 (mm)
CCVIS 180-155766/2		10/03/2015 12:18	1	51003002.D	DB-624 0.18 (mm)
ZZZZZ		10/03/2015 12:52	1		DB-624 0.18 (mm)
MB 180-155766/5		10/03/2015 13:16	1	51003005.D	DB-624 0.18 (mm)
180-48181-2	HD-MW-147A-0/1-0	10/03/2015 13:50	1	51003006.D	DB-624 0.18 (mm)
180-48181-9	HD-QC9-0/1-2	10/03/2015 14:14	1	51003007.D	DB-624 0.18 (mm)
LCS 180-155766/8		10/03/2015 14:38	1	51003008.D	DB-624 0.18 (mm)
180-48181-2 MS	HD-MW-147A-0/1-0 MS	10/03/2015 15:02	1	51003009.D	DB-624 0.18 (mm)
180-48181-2 MSD	HD-MW-147A-0/1-0 MSD	10/03/2015 15:27	1	51003010.D	DB-624 0.18 (mm)
ZZZZZ		10/03/2015 16:15	12.5		DB-624 0.18 (mm)
ZZZZZ		10/03/2015 16:39	1		DB-624 0.18 (mm)
ZZZZZ		10/03/2015 17:03	1		DB-624 0.18 (mm)
ZZZZZ		10/03/2015 17:27	250		DB-624 0.18 (mm)
ZZZZZ		10/03/2015 17:51	5		DB-624 0.18 (mm)
ZZZZZ		10/03/2015 18:15	1		DB-624 0.18 (mm)
ZZZZZ		10/03/2015 18:39	10		DB-624 0.18 (mm)
ZZZZZ		10/03/2015 19:04	10		DB-624 0.18 (mm)
ZZZZZ		10/03/2015 19:28	40		DB-624 0.18 (mm)
ZZZZZ		10/03/2015 19:52	50		DB-624 0.18 (mm)
ZZZZZ		10/03/2015 21:28	1		DB-624 0.18 (mm)
ZZZZZ		10/03/2015 21:52	10		DB-624 0.18 (mm)
ZZZZZ		10/03/2015 23:05	1		DB-624 0.18 (mm)
ZZZZZ		10/03/2015 23:29	20		DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1

SDG No.: _____

Instrument ID: CHHP6 Start Date: 10/05/2015 09:22

Analysis Batch Number: 155869 End Date: 10/05/2015 21:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-155869/1		10/05/2015 09:22	1	61005001.D	DB-624 0.18 (mm)
CCVIS 180-155869/2		10/05/2015 10:05	1	61005002.D	DB-624 0.18 (mm)
CCV 180-155869/3		10/05/2015 10:29	1	61005003.D	DB-624 0.18 (mm)
ZZZZZ		10/05/2015 10:58	1		DB-624 0.18 (mm)
MB 180-155869/5		10/05/2015 11:25	1	61005005.D	DB-624 0.18 (mm)
LCS 180-155869/7		10/05/2015 12:29	1	61005007.D	DB-624 0.18 (mm)
180-48181-7	HD-MW-37D-0/1-0	10/05/2015 17:46	40	61005020.D	DB-624 0.18 (mm)
180-48181-8	HD-QC3-0/1-1	10/05/2015 18:10	1	61005021.D	DB-624 0.18 (mm)
ZZZZZ		10/05/2015 18:59	20		DB-624 0.18 (mm)
ZZZZZ		10/05/2015 19:23	1		DB-624 0.18 (mm)
ZZZZZ		10/05/2015 19:48	1		DB-624 0.18 (mm)
ZZZZZ		10/05/2015 20:12	25		DB-624 0.18 (mm)
ZZZZZ		10/05/2015 21:01	1		DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1

SDG No.: _____

Instrument ID: CHHP5 Start Date: 10/05/2015 10:17

Analysis Batch Number: 155884 End Date: 10/05/2015 22:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-155884/1		10/05/2015 10:17	1	51005001.D	DB-624 0.18 (mm)
CCVIS 180-155884/2		10/05/2015 10:56	1	51005002.D	DB-624 0.18 (mm)
ZZZZZ		10/05/2015 11:33	1		DB-624 0.18 (mm)
MB 180-155884/4		10/05/2015 11:57	1	51005004.D	DB-624 0.18 (mm)
ZZZZZ		10/05/2015 12:46	1		DB-624 0.18 (mm)
ZZZZZ		10/05/2015 13:10	1		DB-624 0.18 (mm)
LCS 180-155884/7		10/05/2015 13:34	1	51005007.D	DB-624 0.18 (mm)
ZZZZZ		10/05/2015 13:58	1		DB-624 0.18 (mm)
ZZZZZ		10/05/2015 14:22	1		DB-624 0.18 (mm)
ZZZZZ		10/05/2015 15:10	1		DB-624 0.18 (mm)
ZZZZZ		10/05/2015 15:34	50		DB-624 0.18 (mm)
ZZZZZ		10/05/2015 15:59	1		DB-624 0.18 (mm)
ZZZZZ		10/05/2015 16:23	5		DB-624 0.18 (mm)
180-48181-4 DL	HD-MW-93D-0/1-0 DL	10/05/2015 17:35	10	51005017.D	DB-624 0.18 (mm)
180-48181-5	HD-MW-75S-0/1-0	10/05/2015 17:59	50	51005018.D	DB-624 0.18 (mm)
180-48181-6	HD-MW-75D-0/1-0	10/05/2015 18:23	50	51005019.D	DB-624 0.18 (mm)
ZZZZZ		10/05/2015 18:48	5		DB-624 0.18 (mm)
ZZZZZ		10/05/2015 19:12	1		DB-624 0.18 (mm)
ZZZZZ		10/05/2015 19:36	2.5		DB-624 0.18 (mm)
ZZZZZ		10/05/2015 20:24	100		DB-624 0.18 (mm)
ZZZZZ		10/05/2015 21:12	1		DB-624 0.18 (mm)
ZZZZZ		10/05/2015 21:36	1		DB-624 0.18 (mm)
ZZZZZ		10/05/2015 22:01	1		DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-48181-1

SDG No.: _____

Instrument ID: CHHP5 Start Date: 10/06/2015 12:01Analysis Batch Number: 156037 End Date: 10/06/2015 21:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-156037/5		10/06/2015 12:01	1	51006005.D	DB-624 0.18 (mm)
CCVIS 180-156037/2		10/06/2015 12:41	1	51006002.D	DB-624 0.18 (mm)
ZZZZZ		10/06/2015 12:41	1		DB-624 0.18 (mm)
ZZZZZ		10/06/2015 13:26	1		DB-624 0.18 (mm)
MB 180-156037/6		10/06/2015 13:50	1	51006006.D	DB-624 0.18 (mm)
LCS 180-156037/11		10/06/2015 16:08	1	51006011.D	DB-624 0.18 (mm)
180-48181-1	HD-MW-18S-0/1-0	10/06/2015 17:08	1	51006013.D	DB-624 0.18 (mm)
180-48181-3 DL	HD-MW-93S-0/1-0 DL	10/06/2015 17:32	5	51006014.D	DB-624 0.18 (mm)
180-48181-5 DL	HD-MW-75S-0/1-0 DL	10/06/2015 17:56	500	51006015.D	DB-624 0.18 (mm)
180-48181-6 DL	HD-MW-75D-0/1-0 DL	10/06/2015 18:44	500	51006017.D	DB-624 0.18 (mm)
180-48181-8 DL	HD-QC3-0/1-1 DL	10/06/2015 19:08	5	51006018.D	DB-624 0.18 (mm)
ZZZZZ		10/06/2015 19:32	10		DB-624 0.18 (mm)
ZZZZZ		10/06/2015 19:57	1		DB-624 0.18 (mm)
180-48181-3	HD-MW-93S-0/1-0	10/06/2015 20:21	1	51006021.D	DB-624 0.18 (mm)
ZZZZZ		10/06/2015 20:45	2		DB-624 0.18 (mm)
180-48181-4	HD-MW-93D-0/1-0	10/06/2015 21:09	1	51006023.D	DB-624 0.18 (mm)

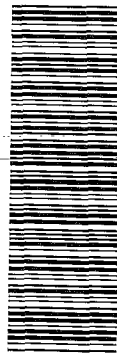
Shipping and Receiving Documents

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

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

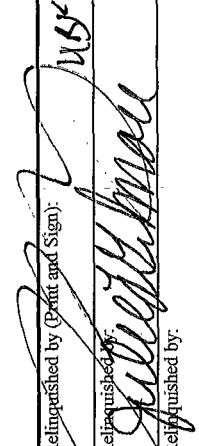

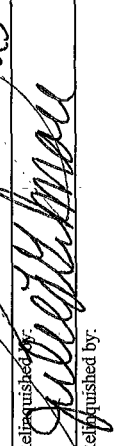
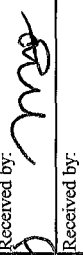
TestAmerica Laboratories, Inc.

Chain of Custody Record

Project Manager: Jennifer S. Reese Tel/Fax: 717-901-8181 / (717) 657-1611		Site Contact: Jennifer S. Reese Lab Contact: Carrie Gamber		Date Submitted: 9/25/2015 Carrier: FEDEX	COC No.: TAP2015092501 Job No.: 1001227
Client Contact Groundwater Sciences Corporation 2601 Market Place St. Suite 310 Harrisburg, PA 17110		Analysis Turnaround Time Calendar (C) or Work Days (W) TAT if different from Below Standard <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 5 days <input type="checkbox"/> 1 day		Container No.: _____ SDG No.: _____	
Phone: (717) 901-8180 FAX: (717) 657-1611		Project Name: 2015 Comprehensive Event Site: Harley-Davidson, York PA Quote #: 18000557		Sample Specific Notes:	
Sample Identification					
Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	
9/25/15	8:20	Groundwater	Water	3	X
9/25/15	10:05	Groundwater	Water	3	X
9/25/15	10:05	Groundwater	Water	3	X
9/25/15	10:05	Groundwater	Water	3	X
9/25/15	12:25	Groundwater	Water	3	X
9/25/15	13:10	Groundwater	Water	3	X
9/25/15	13:47	Groundwater	Water	3	X
9/25/15	11:12	Groundwater	Water	3	X
9/25/15	12:37	Groundwater	Water	3	X
9/25/15	8:00	Groundwater	Water	3	X
9/25/15	12:00	Trip Blank	Water	2	X
 180-48181 Chain of Custody					
Number of Containers: 3 Preservation Used: HCl, H2SO4, HNO3, NaOH, 6-Propylmercaptan, Zinc Acetate, NaOH Field Notes:					
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					

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

Special Instructions/QC Requirements & Comments: CLP Like Deliverables

Relinquished by (Print and Sign): 	Company: GSC Date/Time: 9/25/15 1358	Received by: 	Company: TAP Date/Time: 9/15/15 1358
Relinquished by: 	Company: TAP Date/Time: 9/25/15 1800	Received by: 	Company: TAP Date/Time: 9/26/15 900
Relinquished by:	Company:	Received by:	Company:

Not Lift Using This

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

SHIP DATE: 25SEP15
ACTWGT: 39.00 LB
CAD: 8490299/INET3670

KING OF PRUSSIA, PA 19406
UNITED STATES US

BILL RECIPIENT

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

PITTSBURGH PA 15238

(412) 963-7058

INV:

REF:

DEPT:



FedEx
Express



535372/CB80/PA/1530150910810V

TRK# 7746 0219 9400
0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

X0 AGCA

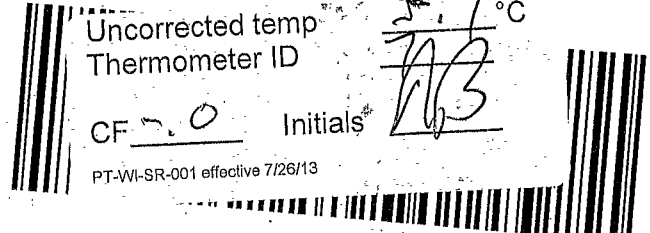
15238
PA-US **PIT**

Uncorrected temp
Thermometer ID

71.1 °C
AB

CF 0 Initials

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

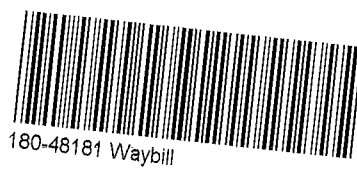


207-435 RT12 07/15

TR
02

X

PA-US **PIT**



180-48181 Waybill



Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 180-48181-1

Login Number: 48181

List Source: TestAmerica Pittsburgh

List Number: 1

Creator: Lonzo, Michael A

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	